



Commonwealth of Pennsylvania
Department of Environmental Protection
Bureau of Safe Drinking Water
Division of Training, Technical and Financial Services

**State FY 2022-2023 Intended Use Plan
Drinking Water State Revolving Fund
Workplan for the Use of Set-Aside Funding
Under Sections 1452 (G) and 1452 (K)
of the Federal Safe Drinking Water Act**

Workplan Submitted to EPA: TBD
Approved by EPA: TBD
Public Comment Period Closed: TBD

INTRODUCTION

This document serves as a workplan that identifies Pennsylvania's intended uses of Drinking Water State Revolving Fund (DWSRF) program support set-aside funds, under Sections 1452(g) and 1452(k) of the 1996 Amendments to the Federal Safe Drinking Water Act (SDWA). This is a multi-year, multi-grant workplan that addresses spending of federal DWSRF set-aside funds. The elements of this workplan are expected to continue into the foreseeable future, regardless of the fiscal year in which set-aside funds are used. As these elements are carried out, available set-aside funds will be drawn down through the EPA automated clearing house process. The Department of Environmental Protection (DEP) intends to expend 100% of the set-aside funds within two years of award unless EPA approves a third year on an exception-only basis. As Pennsylvania applies for future set-aside funds, certain aspects of this workplan will be revised to reflect completion of previously funded activities, or new/revised activities to meet requirements. If there is a need to significantly revise any elements, these revisions will be subject to public review and comment, followed by EPA review, prior to implementing any changes. Such changes will be handled as a formal amendment to the capitalization grant agreement.

By providing updates in the "Status/Comments/Obstacles" column, this document also serves as a progress report that identifies accomplishments over the past six months and projected activity levels for the next six months. Timeframes indicated for hiring staff and carrying out other elements of this work plan are generally expressed as seasons of the year, to be interpreted as follows: Winter = January-March; Spring = April-June; Summer = July-September; and Fall = October-December.

An addendum to the workplan contains the following additional details:

- A description of the relationship to the Public Water System Supervision program grant;
- A summary of changes to the workplan from the previous fiscal year;
- The level of detail provided to remain consistent with EPA's guidance;
- Comments on the evaluation of outputs and outcomes;
- A description of the major areas addressed;
- A funding and workplan summary that further describes categorical spending of set-aside funds;
- An overall spending plan summary that aggregates the individual categorical set-aside spending summaries;
- A summary on state use of prior years' unliquidated obligations; and
- A list of completed and cancelled contracts and grants.

Appendices for each set-aside category are provided in a separate Excel spreadsheet file. Appendix A provides an overall spending plan summary and Appendix B provides a summary of equipment purchases and projected travel expenses. Additional details on activity outputs, deliverables, and timeframes are contained in the contracts and grant agreements with sub-recipients of set-aside funds.

Other elements of Pennsylvania's Safe Drinking Water Program are included in DEP's Public Water System Supervision grant workplan, including but not limited to surveillance, compliance and enforcement, data management, and new regulation development. Additionally, in conformance with EPA's *Policy to Assure the Competency of Organizations Generating Environmental Measurement Data under Agency-Funded Assistance Agreements* (FEM-2012-02), DEP maintains and implements a Quality Management Plan (QMP) and Quality Assurance Project Plans (QAPP) and uses environmental data in accordance with its approved QMP and QAPPs. DEP's Bureau of Laboratories also maintains accreditation and certifications under the National Environmental Laboratory Accreditation Program and therefore meets the laboratory certification requirements of the Safe Drinking Water Act.

TECHNICAL ASSISTANCE TO SMALL SYSTEMS—1452(g)(2) 2%

These set-aside funds will be used to enhance ongoing program efforts, primarily related to capability enhancement. The funds need not be matched with state resources.

DEP is requesting EPA approval of preaward costs starting on July 1, 2022 (less than 90 days). Re-budgeting of prior year grants to accelerate draws at EPA's request has caused a shortfall this year. Approval of preaward costs will allow the program to continue operations without interruption.

PA DEP DWSRF SET-ASIDES
TECHNICAL ASSISTANCE TO SMALL SYSTEMS—1452(g)(2) 2%
 These set-aside funds will be used to enhance ongoing program efforts, primarily related to capability enhancement. These funds need not be matched with state resources.

Work Plan Component, Program, and Mechanism:
 Capability Enhancement; Capability Enhancement Program; Staffing

| | | |
|---|---------------------------------------|---|
| Grant or Contract Recipient: Not applicable | EPA Contact(s): Kelly Moran | State Contact(s): Mark Billus |
|---|---------------------------------------|---|

Program Goal:
 Program development, administration, and assistance and outreach to small water systems. DEP will conduct the Technical, Managerial, and Financial (TMF) portion of the on-site assessment.

| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
|--|---|--|---|
| <p>The elimination of public water systems (PWS) that are not technically, managerially, or financially capable to operate in compliance with all drinking water regulations through the consolidation with another system.</p> <p>The elimination of PWSs that are not technically, managerially, or financially capable to operate in compliance with existing and new drinking water regulations through the design and construction of needed PWS upgrades and the improvement of system staff capabilities.</p> <p>A decrease in the number of high priority PWSs as identified by the Capability Enhancement Program priority process.</p> | <p>Three FTEs located in the DEP Offices as follows:</p> <ul style="list-style-type: none"> • Capability Enhancement Facilitator (CEF)—Northeast Regional Office (covers Northeast and Northcentral Regions) • CEF—Cambria District Office (covers Northwest and Southwest Regions) • CEF—Southcentral Regional Office (covers Southeast and Southcentral Regions) <p>Time code: 38337</p> <p>Staff hours budgeted for this fiscal year: 4,890</p> | <p>OUTPUTS:</p> <p>The annual Capability Enhancement Report is due by September 15 of each year.</p> <p>Prepare annual priority ranking based on system capability. The Priority Ranking System is used to identify public water systems having capability weakness, measure individual system improvements, and gauge the overall success of our technical, managerial, and financial assistance efforts.</p> <p>Select priority water systems from either the Priority Ranking System or referrals from field offices to provide TMF assistance. This includes:</p> <ul style="list-style-type: none"> • Reviewing TMF questionnaire • Conducting onsite assessment • Preparing Action Item Plan • Preparing written reports as necessary • Identifying assistance resources • Facilitating CEF assistance, Professional Engineering Services (PES) assistance, or assistance through the Outreach Assistance Provider Program (OAPP) if the system is willing to work toward addressing capability weaknesses. <p>Evaluate applicants for DWSRF funding to ensure that they are TMF capable.</p> <p>Travel and attendance for all FPPE Meetings, one technical conference per FTE, and the National Cap Dev/Op Cert Workshop.</p> | <p>Staff hours charged fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles</p> |

PA DEP DWSRF SET-ASIDES
TECHNICAL ASSISTANCE TO SMALL SYSTEMS—1452(g)(2) 2%
 These set-aside funds will be used to enhance ongoing program efforts, primarily related to capability enhancement. These funds need not be matched with state resources.

Work Plan Component, Program, and Mechanism:
 Capability Enhancement; Small Systems Managerial and Financial Capability Enhancement Program (Professional Engineering Services); Contracts

| | | |
|---|---------------------------------------|---|
| Grant or Contract Recipient: Century Engineering Inc. | EPA Contact(s): Kelly Moran | State Contact(s): Mark Billus |
|---|---------------------------------------|---|

Program Goal:
 To provide services to public water systems that include but are not limited to: professional engineering design and permitting assistance, professional geologist assistance, feasibility studies, legal assistance, leak detection, mapping, and assistance with preparing grant and funding applications. These services are in support of improving long term sustainability, implementation of capital improvements, regionalization and consolidation concepts where appropriate. This work plan component does not include construction costs related to capital improvements.

| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
|--|--|--|--|
| <p>The elimination of public water systems (PWS) that are not technically, managerially, or financially capable to operate in compliance with all drinking water regulations through the consolidation with another system.</p> <p>The elimination of PWSs that are not technically, managerially, or financially capable to operate in compliance with existing and new drinking water regulations through the design and construction of needed PWS upgrades and the improvement of system staff capabilities.</p> <p>A decrease in the number of high priority PWSs as identified by the Capability Enhancement Program priority process.</p> | <p>Project begins: July 1, 2019</p> <p>Project ends: June 30, 2024 (annual renewal clause)</p> <p>Estimated expenditures under this contract during the fiscal year: \$300,000</p> | <p>OUTPUTS:</p> <p>Project summaries for each completed project will be included as part of the semi-annual progress reports.</p> <p>Success stories will be included in the Capability Enhancement Program Annual Report.</p> <p>Implement the Priority Ranking System. See the section of the workplan titled “Capability Enhancement Program; Staffing.”</p> | <p>Actual expenditures fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10%

These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. Starting in FY '06-07, a significant amount of the funds in this category is devoted to enhancing PWSS grant activities. Additionally, protecting water sources from contamination reduces the technical complexity and financial investment in required treatment facilities. In this regard, source water protection helps meet the system capability enhancement objective of achieving technical, managerial, and financial capability at small public water systems. Note that the indicated source water protection activities are considered Categorically Green Infrastructure Projects.

DEP is requesting EPA approval of preaward costs starting on July 1, 2022 (less than 90 days). Re-budgeting of prior year grants to accelerate draws at EPA's request has caused a shortfall this year. Approval of preaward costs will allow the program to continue operations without interruption.

PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10%
 These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification.

Work Plan Component, Program, and Mechanism:
 Source Water Protection (categorically green project); Source Water Assessment and Protection Program; Staffing

| | | |
|---|---------------------------------------|---|
| Grant or Contract Recipient: Not applicable | EPA Contact(s): Kelly Moran | State Contact(s): David Mittner/Joe Hebelka |
|---|---------------------------------------|---|

Program Goal:
 Program development, administration, and implementation of DEP’s Source Water Assessment and Protection Program (including the Wellhead Protection Program) to protect public water system sources and achieve reduced risk to public health. Emphasis is on increasing the number of systems, particularly smaller systems, that are undertaking local source water protection (SWP) efforts through various initiatives including outreach, technical assistance by partners and participation in collaborative SWP partnerships/coalitions. Additionally, tracking the development and implementation of local SWP programs and promoting/facilitating program coordination/integration to support local SWP programs are objectives. Efforts to fully implement the program, including the achievement of national goals for SWP, are discussed annually in a general strategy meeting that covers initiatives undertaken by both DEP staff and partnering organizations to promote the concept of SWP and to increase participation by water systems.

| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
|--|---|--|--|
| <p>Percent of community water systems that achieved minimized risk to public health through substantial implementation of a source water protection strategy.</p> <p>Percent of community water systems that have source water protection strategies in place.</p> | <p>Three FTEs located in the DEP Central Office, Bureau of Safe Drinking Water, Harrisburg.</p> <p>Time code: 38332</p> <p>Staff hours budgeted for this fiscal year: 4,890</p> | <p>OUTPUTS:</p> <p>Management of 35 active projects for source water protection plan development under the Source Water Protection Technical Assistance Program (contracted services).</p> <p>Support the development and implementation of regional and interstate source water protection initiatives.</p> <p>Support development of local source water protection (strategy) program for 6% of community water systems without a plan.</p> <p>80% of the source water protection plans submitted for review and approval each year are finalized.</p> <p>Percent of CWSs where risk to public health is minimized through source water protection (SP-4(a); Goal = 54.0%).</p> <p>Percent of the population served by CWSs where risk to public health is minimized through source water protection (SP-4(b); Goal = 82.5%).</p> <p>Negotiate with Region III the annual targets for source water protection reporting measures.</p> | <p>Staff hours charged fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

| PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10% These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. | | | |
|--|--|---|--|
| Work Plan Component, Program, and Mechanism: Source Water Protection (categorically green project); Water Resource Planning Initiative; Staffing | | | |
| Grant or Contract Recipient: Not applicable | | EPA Contact(s): Kelly Moran | |
| | | State Contact(s): Susan K. Weaver | |
| Program Goal: The goal of the Water Resource Planning Initiative is to assure that current and future water use, water allocation, and instream needs are consistent with the availability of Pennsylvania’s surface and groundwater resources. This goal relates to source water planning and implementation by considering the water quantity necessary to protect drinking water sources from contamination due to source water diminution. The Division focuses on a multitude of initiatives including Water Allocation Permitting of PWS surface water withdrawals, permitting of PWS groundwater withdrawals, coordination of PWS withdrawals with the Susquehanna and Delaware River Basin Commissions, management of the Statewide Fixed Station Ambient Groundwater Quality Monitoring Network and management of the Statewide Stream Gaging and Groundwater Level Monitoring Network. One technical staff member within the Division coordinates activities involving the statewide effort of coordinating groundwater and surface water withdrawals and management of the Groundwater Quality Monitoring Network and the Stream Gaging and Groundwater Level Network. This position also coordinates activities related to support and development of watershed-based source water protection efforts. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| <p>Percent of community water systems that achieved minimized risk to public health through substantial implementation of a source water protection strategy.</p> <p>Percent of community water systems that have source water protection strategies in place.</p> | <p>One FTE located in the DEP Central Office, Bureau of Safe Drinking Water, Harrisburg.</p> <p>Time code: 39084</p> <p>Staff hours budgeted for this fiscal year: 1,630</p> | <p>OUTPUTS:</p> <p>Continued support for Integrated Water Resource Planning including working with DEP staff and partners to further enhance water resources protection.</p> <p>Provide guidance and support to the water allocation program and PWS surface water withdrawals.</p> <p>Provide guidance and support for PWS groundwater withdrawals.</p> <p>Coordination of PWS withdrawals with the River Basin Commissions.</p> <p>Management and expansion of the Statewide Fixed Station Ambient Groundwater Quality Monitoring Network.</p> <p>Management of the Statewide Stream Gaging and Groundwater Level Monitoring Network.</p> <p>Provide guidance and support to Groundwater Protection efforts.</p> | <p>Staff hours charged fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

| PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10% These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. | | | |
|--|---|--|---|
| Work Plan Component, Program, and Mechanism: Operator Certification and Training; Outreach Assistance Provider Program (OAPP); Staffing | | | |
| Grant or Contract Recipient: Not applicable | | EPA Contact(s): Kelly Moran | |
| | | State Contact(s): William McNamara/Dennis Harney | |
| Program Goal: To develop and implement the training and regulatory requirements of the Operator Certification Program and provide oversight, program development, and program administration for OAPP and the part-time wage payroll instructors (see the “subsidies” component for OAPP) who provide on-site technical, managerial and financial assistance to water system owners, administrators, and operators. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| <p>The elimination of public water systems (PWS) that are not technically, managerially, or financially capable to operate in compliance with all drinking water regulations through the consolidation with another system.</p> <p>The elimination of PWSs that are not technically, managerially, or financially capable to operate in compliance with existing and new drinking water regulations through the design and construction of needed PWS upgrades and the improvement of system staff capabilities.</p> <p>A decrease in the number of high priority PWSs as identified by the Capability Enhancement Program priority process.</p> | <p>One FTE located in the Southcentral Regional Office.</p> <p>Time code: 38331</p> <p>Staff hours budgeted for this fiscal year: 1,950 (D. Harney)</p> | <p>OUTPUTS:</p> <p>Approximately 30 systems per year participate in the program.</p> <p>Review needs of PWS with respect to operations, operator certification, and system management (Operations & Maintenance Plans, Emergency Response Plans, Water Loss Control, and Asset Management) and provide individual or small group assistance.</p> <p>Supervision of up to 21 wage payroll instructors. Complement is increased and decreased as needed to meet demand.</p> <p>Implement the Priority Ranking System. See the section of the workplan titled “Capability Enhancement Program; Staffing.”</p> <p>Travel and attendance for periodic FPPE Meetings, national Capacity Development and Operator Certification workshops (as applicable), and up to three AWWA/WWOAP section meetings and up to two technical conferences per FTE for continuing education and marketing of the program. In addition, travel approximately 18 overnights per year for applicable drinking water assistance projects statewide (FTE and wage staff).</p> | <p>Staff hours charged fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles</p> |

| | | | |
|---|--|--|---|
| PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10% These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. | | | |
| Work Plan Component, Program, and Mechanism: Operator Certification and Training; Outreach Assistance Provider Program (OAPP); Subsidies | | | |
| Grant or Contract Recipient: Not applicable | | EPA Contact(s): Kelly Moran | State Contact(s): William McNamara/Dennis Harney |
| Program Goal: This program utilizes part-time wage payroll instructors to provide Technical, Managerial and Financial (TMF) assistance to water system owners and operators. The program responds to training needs for operator certification and system needs identified by the Capability Enhancement Program’s Professional Engineering Services Program, Priority Ranking System, and TMF assessment. The program also responds to needs identified by DEP regional staff, local government associations, or the water system. Technical assistance occurs through a combination of water videos, classroom and web-based training, and one-on-one assistance to address system operational problems. In addition, the financial and managerial assistance includes the development of appropriate rate structures, business plans and long-term budgets, and assistance to implement asset management programs. Wage payroll instructors are assigned to provide onsite assistance through classroom training or at each outreach site. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| <p>The elimination of public water systems (PWS) that are not technically, managerially, or financially capable to operate in compliance with all drinking water regulations through the consolidation with another system.</p> <p>The elimination of PWSs that are not technically, managerially, or financially capable to operate in compliance with existing and new drinking water regulations through the design and construction of needed PWS upgrades and the improvement of system staff capabilities.</p> <p>A decrease in the number of high priority PWSs as identified by the Capability Enhancement Program priority process.</p> | <p>Part-time wage payroll certified instructors</p> <p>Time code: 38331 (wage payroll staff charges)</p> <p>Estimated expenditures under this subsidy during the fiscal year: \$60,000</p> | <p>OUTPUTS:</p> <p>Approximately 30 systems per year participate in the program. A list of systems will be provided with the semi-annual status reports upon request.</p> <p>Outreach instructors provide small group workshop-based instruction or individual assistance in the following subject areas: certification preparation, water loss control, operational process control, treatment optimization strategies, emergency response plans, operations and maintenance plans, and asset management plans.</p> <p>Implement the Priority Ranking System. See the section of the workplan titled “Capability Enhancement Program; Staffing.”</p> | <p>Actual expenditures fiscal year to date for wage-payroll staff charges:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

| PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10% These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. | | | |
|--|--|---|---|
| Work Plan Component, Program, and Mechanism: Operator Certification and Training; Operator Training and Certification Administration Program; Staffing | | | |
| Grant or Contract Recipient: Not applicable | | EPA Contact(s): Kelly Moran | State Contact(s): William McNamara / Laura Chambers |
| Program Goal: To administer operator certification exams, process applications for certification, certificate upgrade and certificate renewals, provide outreach assistance to operators, to develop training courses for operators in classroom and web-based formats, implement the Training Approval Process Program, and develop and implement the regulatory administrative requirements of the Operator Certification Program. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| Percent of systems in compliance with operator certification requirements. Number of continuing education hours delivered. | Three FTEs located in the DEP Central Office, Bureau of Safe Drinking Water, Harrisburg. Time code: 38338 Staff hours budgeted for this fiscal year: 4,890 | OUTPUTS: Review approximately 175 applications for training sponsors, course approval, post presentation credit, and conferences. Manage data for approximately 19,000 operator course completions. Administer 22 written certification examinations to approximately 1500 water and wastewater examinees; administer 30 electronic examinations to approximately 470 water and wastewater examinees; process 1,200 applications for water and wastewater certification or certificate upgrade; and 2,700 applications for water and wastewater certificate renewal. Develop classroom and web-based course materials for regulatory initiatives and operator certification exam preparation. Through technical assistance and enforcement efforts, ensure a five percent increase in the number of Non Community systems in compliance with the operator certification program and no decrease in the number of Community systems in compliance. Maintain the electronic training approval system (Global TAPS), Earthwise Academy, and eFACTS. | Staff hours charged fiscal year to date: Noteworthy activities for the past six months: Projected activities for the next six months: Obstacles: |

| PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10% These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. | | | |
|--|--|---|---|
| Work Plan Component, Program, and Mechanism: Operator Certification and Training; Operator Certification Program Compliance; Staffing | | | |
| Grant or Contract Recipient: Not applicable | | EPA Contact(s): Kelly Moran | |
| | | State Contact(s): Jeffrey Allgyer | |
| Program Goal: The goal of the Operator Certification Program is for all community and nontransient noncommunitiy (NTNC) water systems to have an operator with the appropriate certification level. The first task is to improve operators' knowledge, skills, and abilities to maximize public health protection, compliance, and system operation. Water system capability and sustainability issues can then be identified and addressed, since hiring a certified operator requires sufficient revenues for salary and a qualified operator that understands the physical aspects of the system. The Operator Certification Program compliance/enforcement approach is designed to enlist the cooperation and commitment of the water system owners and operators in properly addressing and resolving compliance issues. Owners and/or operators not in compliance will be encouraged to meet applicable technical, operational and administrative requirements through training, technical assistance, and oversight working with the Capability Enhancement Program. When assistance efforts do not improve compliance rates, the implementation of a compliance and enforcement strategy will begin. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| Percent of systems in compliance with operator certification requirements. Number of continuing education hours delivered. | One FTE located in the DEP Central Office, Bureau of Safe Drinking Water, Harrisburg. Time code: 38338 Staff hours budgeted for this fiscal year: 1,630 (WPS-Operations Section) | OUTPUTS: A five to ten percent increase per year in the number of systems in compliance with the requirements of the operator certification program. A summary of progress made and finalized work products will be included in the semi-annual progress report. | Staff hours charged fiscal year to date: Noteworthy activities for the past six months: Projected activities for the next six months: Obstacles: |

| PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10% These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. | | | | | | | | | | | |
|--|--|--|---|------------------------|--|--|---------------------------|---|--|--|---|
| Work Plan Component, Program, and Mechanism: Operator Certification and Training; Operator Training Development Program; Staffing | | | | | | | | | | | |
| Grant or Contract Recipient: Not applicable | | EPA Contact(s): Kelly Moran | | | | | | | | | |
| | | State Contact(s): William McNamara | | | | | | | | | |
| Program Goal: To provide additional resources to concentrate on the design and development of web-based training courses, with the objective of eventually making on-line training available on topics covering all drinking water regulations and related technical topics. To develop training courses for DEP staff and treatment plant operators in classroom and web-based formats and implement the Training Approval Process Program. | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th data-bbox="102 537 459 630">Environmental Outcomes</th> <th data-bbox="459 537 827 630">Staffing, Subsidy, Grant or Contract Information</th> <th data-bbox="827 537 1857 630">Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023))</th> <th data-bbox="1857 537 2628 630">Status/Obstacles/Comments</th> </tr> </thead> <tbody> <tr> <td data-bbox="102 630 459 1201"> Percent of systems in compliance with operator certification requirements. Number of continuing education hours delivered. </td> <td data-bbox="459 630 827 1201"> Two FTEs located in the DEP Central Office, Bureau of Safe Drinking Water, Harrisburg. Time code: 38338 Staff hours budgeted for this fiscal year: 3,260 </td> <td data-bbox="827 630 1857 1201"> OUTPUTS: Content analysis, design and development of two Web-based training courses per year. Develop classroom and web-based course materials for new regulations and operator certification exam preparation. Review operator continuing education applications for training sponsor, course approval, post presentation credit, and conferences. A summary of progress and final products will be included in the semi-annual progress report. </td> <td data-bbox="1857 630 2628 1201"> Staff hours charged fiscal year to date: Noteworthy activities for the past six months: Projected activities for the next six months: Obstacles: </td> </tr> </tbody> </table> | | | | Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023)) | Status/Obstacles/Comments | Percent of systems in compliance with operator certification requirements. Number of continuing education hours delivered. | Two FTEs located in the DEP Central Office, Bureau of Safe Drinking Water, Harrisburg. Time code: 38338 Staff hours budgeted for this fiscal year: 3,260 | OUTPUTS: Content analysis, design and development of two Web-based training courses per year. Develop classroom and web-based course materials for new regulations and operator certification exam preparation. Review operator continuing education applications for training sponsor, course approval, post presentation credit, and conferences. A summary of progress and final products will be included in the semi-annual progress report. | Staff hours charged fiscal year to date: Noteworthy activities for the past six months: Projected activities for the next six months: Obstacles: |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023)) | Status/Obstacles/Comments | | | | | | | | |
| Percent of systems in compliance with operator certification requirements. Number of continuing education hours delivered. | Two FTEs located in the DEP Central Office, Bureau of Safe Drinking Water, Harrisburg. Time code: 38338 Staff hours budgeted for this fiscal year: 3,260 | OUTPUTS: Content analysis, design and development of two Web-based training courses per year. Develop classroom and web-based course materials for new regulations and operator certification exam preparation. Review operator continuing education applications for training sponsor, course approval, post presentation credit, and conferences. A summary of progress and final products will be included in the semi-annual progress report. | Staff hours charged fiscal year to date: Noteworthy activities for the past six months: Projected activities for the next six months: Obstacles: | | | | | | | | |

| PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10% These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. | | | |
|---|---|--|---|
| Work Plan Component, Program, and Mechanism: Operator Certification and Training; eFACTS Enhancements; Contracts | | | |
| Grant or Contract Recipient: Computer Aid, Inc. | | EPA Contact(s): Kelly Moran | |
| | | State Contact(s): Jeffrey Allgyer/William McNamara | |
| Program Goal: In addition to PADWIS, DEP uses eFACTS, a centralized data management system for all programs, to track permit and enforcement activities as well as certificates for the operation of drinking water and wastewater systems. In addition to routine maintenance and technical support, modifications and enhancements to eFACTS are needed for the implementation of the Operator Certification Program. This include electronic invoicing and tracking of operator certification fees, and a revision to the cross-walk from water and wastewater facility treatment details to the required operator class and subclass(es). | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| Percent of systems in compliance with operator certification requirements. Number of continuing education hours delivered. | Computer Aid, Inc. is the Commonwealth's staff augmentation contractor and is currently used by DEP's Bureau of Information Technology to enhance and develop eFACTS. This project is ongoing. Estimated expenditures under this contract during the fiscal year: \$50,000 | OUTPUTS: Electronic invoicing and tracking of fees. Automated determination of the required operator class and subclass(es) based on treatment facility and process details currently maintained in DEP data systems. | Actual expenditures fiscal year to date: Noteworthy activities for the past six months: Projected activities for the next six months: Obstacles: |

| PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10% These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. | | | |
|--|--|--|--|
| Work Plan Component, Program, and Mechanism: Capability Enhancement; Drinking Water System Compliance Assistance Program; Staffing | | | |
| Grant or Contract Recipient: Not applicable | | EPA Contact(s): Kelly Moran | State Contact(s): Jeffrey Allgyer / William McNamara |
| Program Goal: In order to meet the requirements of safe drinking water regulations—including the Arsenic Rule, Stage 2 - Disinfectant/Disinfection Byproducts Rule, Long Term 2 Enhanced Surface Water Treatment Rule, Groundwater Rule, Lead and Copper Rule-Short Term Revisions, Revised Total Coliform Rule, etc.—PWSs need assistance in understanding monitoring and reporting requirements, how compliance is determined for each rule, what happens in the event of non-compliance, and what is required to return to compliance. PWSs also need to be kept apprised of potential simultaneous compliance issues related to the new or revised regulations. In addition, these new rules further increase the need for each PWS to have knowledgeable and certified drinking water system operators. To adequately cover the state, one to two additional environmental protection compliance specialists have been appointed in each of the six DEP regions. Staff ensure that the small systems are reached and properly trained within the short implementation time periods that often accompany a new or revised regulation. They also provide technical assistance where appropriate in dealing with systems having difficulty in meeting current regulatory requirements and work with DEP’s Capability Enhancement Program Facilitators. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| <p>Percent of population served by water supply systems that meet all health-based standards.</p> <p>The ability to relate community water system infrastructure between state and federal databases.</p> <p>Nationally consistent framework for community water system data.</p> | <p>9 FTEs located in the Regional Offices, Field Operations Deputate.</p> <p>Time code: 39083</p> <p>Staff hours budgeted for this fiscal year: 14,670</p> | <p>OUTPUTS:</p> <p>A bi-annual Drinking Water Newsletter to highlight upcoming regulatory changes. Although the newsletter is intended for all public waters systems, the topics are often targeted to community and non-transient noncommunity water systems, accredited laboratories, and certified operators. DEP will distribute the newsletters by email to nearly 4,000 subscribers and post it at: http://www.dep.pa.gov/Citizens/My-Water/PublicDrinkingWater/Pages/default.aspx#.VIXs9vMo69I</p> <p>Based on the start of monitoring and compliance dates for new or revised regulations, conduct training events for DEP staff and water suppliers in each of the six DEP regions. In years without new or revised regulations, staff conduct regulatory review training. Assist with mentoring / training new environmental trainees and sanitarians.</p> <p>Support the operator certification program through proctoring duties at online certification examinations for system operators.</p> <p>A summary of progress made and finalized work products will be included in the semi-annual progress report.</p> | <p>Staff hours charged fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

| PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10% These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. | | | |
|--|---|---|--|
| Work Plan Component, Program, and Mechanism: Capability Enhancement; Pennsylvania Drinking Water Information System (PADWIS); Staffing | | | |
| Grant or Contract Recipient: Not applicable | | EPA Contact(s): Kelly Moran | State Contact(s): Jason Minnich |
| Program Goal: DEP uses PADWIS to maintain inventory data on all public water systems regulated by DEP, determine compliance with the Pennsylvania Safe Drinking Water Regulations, and meet EPA’s federal reporting requirements. Pennsylvania uses set-aside funds to support and enhance activities funded under the Public Water System Supervision grant. Staff maintain and update compliance programming for new reporting requirements and assist with the implementation of automated compliance systems for new regulations. Staff also initiate the compliance programming in PADWIS for the Stage 2 Disinfectants/Disinfection Byproducts Rule, Long Term 2 Enhanced Surface Water Treatment Rule, Lead and Copper Rule Short Term Revisions, Revised Total Coliform Rule, and the Cross-Media Electronic Reporting Regulation. In addition, as part of the mandatory electronic reporting requirements under the Chapter 109 General Update, staff support water systems and laboratories as they deal with regulatory and programmatic changes that impact our electronic reporting system. Staff provide updated laboratory and data management guidance documentation to assist staff and the regulatory community. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| <p>Percent of population served by water supply systems that meet all health-based standards.</p> <p>The ability to relate community water system infrastructure between state and federal databases.</p> <p>Nationally consistent framework for community water system data.</p> | <p>Three FTEs located in the DEP Central Office, Bureau of Safe Drinking Water, Harrisburg.</p> <p>Time code: 39085</p> <p>Staff hours budgeted for this fiscal year: 4,890</p> | <p>OUTPUTS:</p> <p>Program PADWIS to adhere to new reporting requirements in sufficient time to meet reporting deadlines of new rules.</p> <p>Support water systems and laboratories as they deal with regulatory and programmatic changes that impact our electronic reporting system.</p> <p>Work with DEP’s Bureau of Laboratories to manage and maintain the accreditation requirements for drinking water laboratories.</p> <p>Updated Laboratory Reporting Guidance and Data Management Guidance.</p> <p>Troubleshoot any remaining issues with the RTCR compliance program.</p> <p>Develop automatic data tools staff can use during sanitary surveys to review sample results and determine trends in the data. Using SAS and Power BI</p> <p>Continue to provide audit and spot checks on data base records to verify data submitted.</p> <p>Create reports to help regional management and central office staff better evaluate the work done by inspectors.</p> | <p>Staff hours charged fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

| PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10% These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. | | | |
|--|---|--|--|
| Work Plan Component, Program, and Mechanism: Capability Enhancement; Distribution System Optimization; Staffing | | | |
| Grant or Contract Recipient: Not applicable | | EPA Contact(s): Kelly Moran | |
| | | State Contact(s): Stephanie Stoner | |
| Program Goal: To develop, implement, and manage a statewide Distribution System Optimization program which establishes distribution system specific best management practices and encourages water system staff to work towards water quality goals. This program will enhance the technical, managerial, and financial capability of the critical distribution system portion of drinking water systems in Pennsylvania. Central Office staff takes the lead on developing, implementing, and managing the statewide program. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| <p>Percent of community water systems where risk to public health is minimized through improved distribution system operations and water quality.</p> <p>A reduced risk to public health by more rapidly returning PWSs to compliance with regulations by addressing MCL violations and operational defects identified through inspections, sanitary surveys and distribution system monitoring events.</p> | <p>One FTE located in the DEP Central Office, Bureau of Safe Drinking Water, Harrisburg.</p> <p>Time code: 38333, 39333</p> <p>Staff hours budgeted for this fiscal year: 2,000</p> | <p>OUTPUTS:</p> <p>Installation of in-line monitoring equipment in distribution systems to gather continuous monitoring data in various systems for informational purposes, introduce water system personnel to the capabilities of continuous on-line monitoring equipment and introduce water systems to the concept of additional monitoring and baseline water quality establishment, which can be used in the early detection of deteriorating water quality resulting from treatment breakdown or contamination.</p> <p>Conduct 6 Distribution System Evaluations, including 1 to 2 Comprehensive Performance Evaluations (CPEs), each year and provided to each water supplier a comprehensive written report that identifies distribution system performance weaknesses.</p> <p>Written assessment (self- and site-) procedures.</p> <p>Training of water supplier and DEP Regional Office staff.</p> <p>Participation on the EPA AWOP Distribution Optimization Workgroup conference calls and field events and assistance with developing national guidance related to distribution optimization.</p> <p>Travel and attendance for all FPPE Meetings and one technical conference per FTE.</p> | <p>Staff hours charged fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

| PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10% These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. | | | |
|---|---|--|--|
| Work Plan Component, Program, and Mechanism: Capability Enhancement; Partnership for Safe Water (PFSW), Filter Plant Performance Evaluation (FPPE) Program, and the Area Wide Optimization Program (AWOP); Staffing | | | |
| Grant or Contract Recipient: Not applicable | | EPA Contact(s): Kelly Moran | |
| | | State Contact(s): Kurt Smith | |
| Program Goal: To provide statewide program development, management, and coordination of these programs to enhance the technical, managerial, and financial capability of drinking water systems in Pennsylvania. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| <p>Percent of population served by filter plants that have Commendable or Satisfactory Filter Plant Performance Evaluations (FPPE).</p> <p>Percent of filter plants that have Commendable or Satisfactory FPPEs.</p> <p>Percent of population served by PWSs that meet all health-based standards.</p> <p>The elimination of PWSs that are not technically, managerially, or financially capable to operate in compliance with all existing and new drinking water regulations through the design and construction of needed system upgrades and the improvement of system staff capabilities.</p> <p>A reduced risk to public health by more rapidly returning PWSs to compliance with regulations by addressing</p> | <p>Two FTEs located in the DEP Central Office, Bureau of Safe Drinking Water, Harrisburg. These staff members support DEP Regional Office efforts to complete the evaluations and other program elements.</p> <p>Time code: 39333</p> <p>Staff hours budgeted for this fiscal year: 3,260</p> | <p>OUTPUTS:</p> <p>To ensure statewide consistency, staff will attend at least 25% of the regional FPPEs and review all draft FPPE reports.</p> <p>Annually complete the AWOP Status Component that ranks filtered drinking water systems in Pennsylvania.</p> <p>Complete the annual regional summary reports that summarize FPPE related work for each region for the previous 12 months and deliver the reports to the regional directors and regional program managers.</p> <p>Complete other activities designed to enhance the capabilities of the state’s PFSW, AWOP, and FPPE programs to protect public health.</p> <p>Train new FPPE regional office staff and ensure continuing education on new program developments for existing regional staff.</p> <p>A statewide summary of progress made, and final products will be included in the semi-annual progress report.</p> <p>Attend and Participate in EPA Region III AWOP meetings and National AWOP meetings in PA and Out of State.</p> <p>Travel and attendance for all FPPE Meetings and one technical conference per FTE.</p> | <p>Staff hours charged fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

| | | | |
|---|--|--|--|
| MCL violations, monitoring and reporting violations, and operational defects identified through inspections and sanitary surveys. | | | |
|---|--|--|--|

| PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10% These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. | | | |
|---|--|--|--|
| Work Plan Component, Program, and Mechanism: Capability Enhancement; Set-Aside Grant Management and Program Analysis; Staffing | | | |
| Grant or Contract Recipient: Not applicable | | EPA Contact(s): Kelly Moran | |
| | | State Contact(s): Ed Chescattie | |
| Program Goal: To provide a needed focus for the management and implementation of activities and projects funded by the set-aside grant and to provide an overview and periodic analysis of progress made to insure resources are appropriately utilized in an expeditious manner. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| <p>Percent of population served by water supply systems that meet all health-based standards.</p> <p>The ability to relate community water system infrastructure between state and federal databases.</p> <p>Nationally consistent framework for community water system data.</p> | <p>One FTE located in the DEP Central Office, Bureau of Safe Drinking Water, Harrisburg.</p> <p>Time code: 39086</p> <p>Staff hours budgeted for this fiscal year: 1,630</p> | <p>OUTPUTS:</p> <p>Periodic reports and analyses of fund expenditures and staff time coded against the grant.</p> <p>Grant workplan and semi-annual progress reports.</p> <p>Assist with providing routine funding guidance to field staff relative to appropriate charges and maximum funds available.</p> <p>Lead role in reviewing monthly lab billing reports to identify inaccurate charges.</p> | <p>Staff hours charged fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

PA DEP DWSRF SET-ASIDES

ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10%

These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification.

Work Plan Component, Program, and Mechanism:

Capability Enhancement; Pennsylvania Drinking Water Information System (PADWIS); Contracts

Grant or Contract Recipient:

OST, Inc.

EPA Contact(s):

Kelly Moran

State Contact(s):

Jason Minnich

Program Goal:

To provide SAS programming services as needed to meet primacy requirements and implement automated compliance systems for new regulations. These programming services include SAS and Java for regulation changes and web-based applications. DEP uses PADWIS, a customized online data management system, to maintain detailed information about all public water systems regulated by DEP, to determine compliance with the Pennsylvania Safe Drinking Water Regulations, and to meet the federal reporting requirements of the EPA. DEP uses the Drinking Water Electronic Laboratory Reporting (DWELR) application to acquire self-monitoring results from public water systems and their commercial laboratories.

| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
|---|--|--|--|
| <p>Percent of population served by water supply systems that meet all health-based standards.</p> <p>The ability to relate community water system infrastructure between state and federal databases.</p> <p>Nationally consistent framework for community water system data.</p> | <p>Estimated expenditures under this contract during the fiscal year: \$750,000</p> <p>Utilize the Staff Augmentation Contract through BIT and OST to provide contractor services.</p> | <p>OUTPUTS:</p> <p>Completing the following compliance program revisions:</p> <ul style="list-style-type: none"> • Total Organic Carbon Program. • Changes needed for Significant Deficiency Tracking. • Disinfection Requirements Rule Revisions (resolve any outstanding issues) • General Update to Chapter 109 Compliance Program Revisions <p>Screen control language programming to enhance and modify database screens for transaction processing.</p> <p>Evaluating business processes to design, develop, and implement automated compliance determination systems.</p> <p>Designing, developing, and implementing the PADWIS interface with eFACTS and CLS Oracle.</p> <p>Maintaining batch processes to update PADWIS, eFACTS, and CLS.</p> <p>Work on upgrading all remaining Windows 2008 servers.</p> <p>Begin work on an Oracle Update</p> <p>Begin work on a major DWELR overhaul and rebuild.</p> <p>Changes to DWELR to improve the functionality and limit staff data entry.</p> | <p>Actual expenditures fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

| | | | |
|--|--|---|--|
| | | Development of additional E-inspection applications, and improvement of existing E-inspection applications as needed to maintain optimal functionality of SDW mobile inspection platform. | |
|--|--|---|--|

| PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10% These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. | | | |
|---|--|--|---|
| Work Plan Component, Program, and Mechanism: Capability Enhancement; Statewide Staff Training Conference; Contracts | | | |
| Grant or Contract Recipient: To be determined each year through the Commonwealth’s procurement and bidding process. | | EPA Contact(s): Kelly Moran | State Contact(s): William McNamara |
| Program Goal: Set-aside funds are used to supplement the expenses for a statewide training conference for DEP Safe Drinking Water Program staff. Funding for most expenses originates from the Public Water System Supervision grant and the state Safe Drinking Water Fund. This conference is offered annually, or every two years based on training needs. The conference is conducted to update staff on new regulatory initiatives, highlight new technical information, or address program compliance and data management issues. Sessions are two to three days long. Costs include the contract for the training site, including rooms and meals. Costs incurred for meals are part of a working session and in accordance with federal guidelines, GPI-11-02, “Best Practices Guidance for Allowability and Reasonableness of Certain Selected Items of Cost Under Assistance Agreements.” The final budget for the conference will be provided to EPA once the bids have been reviewed and a contractor selected. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| Percent of population served by water supply systems that meet all health-based standards. The ability to relate community water system infrastructure between state and federal databases. Nationally consistent framework for community water system data. | Estimated set-aside expenditures under this contract during the fiscal year: \$11,880 The total budget for this conference is \$36,000. 61 (33%) of DEP’s Safe Drinking Program positions are funded out of the set-asides. An estimated \$24,120 will be covered under the PWSS grant and through state special funds for non-set-aside positions. | OUTPUTS: Conduct a 2.5-day statewide training conference* for 190 DEP Safe Drinking Water Program staff to update staff on new regulatory initiatives, highlight new technical information, or address program compliance and data management issues. Attendees encompass the entire DEP drinking water program in the central and regional offices, including field inspectors, compliance specialists, permitting engineers, program specialists, and program managers. * NOTE: Set-aside grant funds will be used for light refreshments and meals served at these contracted staff training events. Generally, participating staff are given lunch and light refreshments, while breakfast and dinner are included for those on overnight status. Providing lunches in the contract allows a full agenda, including an 8 AM session start time and working lunch periods. This ensures that staff remain together during the workday to increase interaction and continue their discussion of issues. Likewise, morning and afternoon breaks with coffee, tea, milk, juice, soft drinks, donuts, bagels, fruit, pretzels, cookies, chips, or muffins will allow participants to remain in the primary training room during breaks and continue to network and discuss issues. | Actual expenditures fiscal year to date: Noteworthy activities for the past six months: Projected activities for the next six months: Obstacles: |

| PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10% These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. | | | |
|--|--|---|---|
| Work Plan Component, Program, and Mechanism: Source Water Protection/Operator Certification/Capability Enhancement; Software Licenses (“Other” budget category), Equipment, and Supplies | | | |
| Grant or Contract Recipient: Not applicable | | EPA Contact(s): Kelly Moran | State Contact(s): Crystal Blair / Jason Minnich / William McNamara / Kevin Anderson |
| Program Goal: To provide equipment and supplies in support of DEP staff whose positions are funded out of the 10% set-asides. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| <p>Percent of community water systems (CWS) that achieved minimized risk to public health through substantial implementation of a source water protection strategy.</p> <p>Percent of CWSs that have source water protection strategies in place.</p> <p>Percent of systems in compliance with operator certification requirements.</p> <p>Number of continuing education hours delivered.</p> <p>Percent of population served by water supply systems that meet all health-based standards.</p> <p>The ability to relate CWS infrastructure between state and federal databases.</p> <p>Nationally consistent framework for CWS data.</p> | <p>See Appendix B. A separate spreadsheet is provided that lists all the anticipated equipment and supplies purchases. If additional equipment or supplies is needed, the procedure for pre-approval of these purchases by EPA will be followed.</p> <p>A summary and justification for the supplies and equipment is included in the adjacent column.</p> | <p><u>Personal Computers</u></p> <p>In previous years, laptop/desktop computers, docking stations and monitors were bought for staff funded in this workplan. DEP’s replacement protocol involves a five-year rotating timeframe. During FY 21/22, the Department anticipates that four laptops will need to be replaced due to emergency or unplanned reasons for the Filter Plant Evaluation Program and/or Distribution System Optimization Program at a cost of \$8,000.</p> <p><u>Annual SAS License Renewals for PADWIS and DWELR</u></p> <p>DEP uses the Pennsylvania Drinking Water Information System (PADWIS) as the statewide inventory and compliance data system for the water systems. PADWIS stores data, determines compliance, and reports violations and inventory information to SDWIS/Fed. Also, DEP uses the Drinking Water Electronic Laboratory Reporting (DWELR) application to acquire self-monitoring results from public water systems and their commercial laboratories.</p> <p>The annual license renewal fees for PADWIS and DWELR enable DEP to continue using the SAS software on servers that host these applications. The annual server license fees are approximately \$180,000.</p> <p><u>Moodle Hosting Renewals, Web-based Course Software, and Global TAPS</u></p> <p>The Earthwise Academy is DEP’s web-based university for drinking water system operators and drinking water program staff. DEP contracts with Remote-Learner, Inc. to host the Moodle Learning Management System (LMS). The LMS allows DEP to launch and manage web courses and end users. DEP pays a yearly service fee to Remote-</p> | <p>Computers and license renewals purchased during the past six-months:</p> <p>Projected purchases for the next six months:</p> |

Learner, which includes the ELIS Enterprise Learning Suite, hosting, periodic upgrades, and a technical support system. The annual fee is approximately \$12,000.

Software to develop Web-based training is consistently evolving. Every 3 to 4 years, an upgraded version of development software is purchased for at least two individuals responsible for the web-based course program. EPA will be provided a description of the software purchases in the semi-annual progress report. The cost of the software ranges from \$500 to \$3,000 depending on the extent of the version upgrade.

Computer Aid, Inc. is the Commonwealth's staff augmentation contractor and is currently used by DEP's Bureau of Information Technology to provide support and enhancements to the Earthwise Academy site and the web-based training approval system (Global TAPS). The Global TAPS system requires a software re-write in FY '21-'22 due to the age of the system and compatibility with modern browsers. The cost of the re-write in year one is approximately \$140,000.

Starting in FY '15-16, EPA approved transferring the following expenses for equipment and supplies from the 2% set-asides:

Outreach Assistance Coordinator

Vehicles

The coordinator for this program travels across the state, providing hands-on assistance to drinking water systems or meeting with outreach program staff to ensure objectives of this program are met. One vehicle was purchased in FY '12-13. Ongoing costs for this vehicle will be limited to operation and maintenance. No OAP vehicles are expected to be replaced during FY 18/19.

Supplies and Equipment

Mobile MiFi Hotspot

Justification: During Training and Workshops, videos can enhance learning, reinforce concepts, and support visual and auditory learners. Several videos have been developed by EPA or through EPA grants and are available on YouTube to view free of charge. VPN connection would allow these videos to be viewed in training locations without internet access.

Estimated cost: 1 wireless mobile hotspot device in FY '17-18 at an estimated cost of \$270 plus monthly internet access at \$50/month (\$600 annually)

Starting in FY '15-16, EPA approved transferring the following expenses for equipment and supplies from the 15% set-asides:

Filter Plant Performance Evaluation(FPPE) and Distribution System Optimization (DSO)

Vehicles

Vehicles have been purchased in previous years to support the FPPE and DSO programs. Staff use these vehicles when traveling across the state to support regional office efforts. Ongoing costs will be limited to the operation and maintenance of these vehicles. These vehicles require periodic replacement. These vehicles are used to transport staff and monitoring equipment across the state during evaluations at water systems, internal and external training events, and technical conferences. No FPPE or DSO vehicles need to be ordered during FY 21/22.

Field Equipment and Supplies

YSI Storm Central Data Hosting – This software allows for the downloading of sampling data taken at remote locations for the Distribution System Optimization Program and Filter Plant Performance Evaluation Program without traveling to the sampling site. The department plans to purchase one storm account renewal and 17 modem renewals at an estimated cost of \$7140 per year.

pH meters- The FPPE program expects to replace 11 existing pH meters at a cost of \$13,200.

DR900-The DSO program expects to purchase 1 new DR900 at a cost of \$1,600.

| PA DEP DWSRF SET-ASIDES ASSISTANCE TO STATE PROGRAMS—1452(g)(2) 10% These set-aside funds will be used to enhance ongoing program efforts relative to source water assessment and protection, capability enhancement, and operator training and certification. | | | |
|--|--|---|--|
| Work Plan Component, Program, and Mechanism: Capability Enhancement; EPA In-kind Services, Equipment, and Supplies | | | |
| Grant or Contract Recipient: Not applicable | | EPA Contact(s): Kelly Moran | |
| | | State Contact(s): Jason Minnich | |
| Program Goal: To support Pennsylvania’s PWSS program by improving emergency preparedness and response relating to public water systems, ensuring continuity of operations, ensuring provision of potable drinking water under emergency circumstances, and protecting public health. A portion of this project involves training for DEP staff, including situations such as the chemical spill that occurred on the Elk River, WV, in 2014. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| <p>Percent of community water systems that achieved minimized risk to public health through substantial implementation of a source water protection strategy.</p> <p>Percent of population served by water supply systems that meet all health-based standards.</p> | <p>See Appendix B. A separate spreadsheet is provided that lists all the anticipated equipment and supplies purchases. If additional equipment or supplies is needed, the procedure for pre-approval of these purchases by EPA will be followed.</p> | <p>OUTPUTS:</p> <p>Update/maintain continuity of operations plans through go-kit development and remote emergency access to critical program files through laptop computers with VPN capability.</p> <p>Attend workshops or conferences related to declared and non-declared disasters and/or emergency preparation including AWIA related activities.</p> <p>Participate in national level ER/cybersecurity/terrorism planning and response workgroups as opportunities become available.</p> <p>Attend EPA-sponsored ER/cyber security/terrorism training programs and seminars.</p> <p>Attend ASDWA-sponsored ER/cyber security/terrorism training programs and seminars.</p> <p>Strengthen DEP’s partnership with PaWARN through involvement in tabletop exercises for water systems and continued involvement with the PaWARN Board of Directors.</p> <p>Support the development of and assist in presenting targeted Resiliency, Continuity of Operations Planning, cyber security and ER plan training workshops held at the regional offices.</p> <p>EQUIPMENT:</p> | <p>Actual in-kind expenditures fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

| | | | |
|--|--|--|--|
| | | <p>iPhone with mobile hotspot ability Justification: The ability to connect to DEP's server network via VPN connection is necessary for emergency response and continuity of operations. Currently, staff rely on their personal high-speed internet connection at home or unsecured publicly provided access when traveling. When working outside of the office or after hours during critical situations, staff require reliable, relatively high speed, and secure internet access. See the description under "Personal Computers" for emergency access requirements. A mobile hotspot device meets the criteria (reliability, speed, and security) for responding to various emergencies regardless of staff location or time of day. Estimated cost: Monthly internet access at \$55/month (\$660 annually)</p> | |
|--|--|--|--|

SECTIONS 1452(k)(1)(B) and (k)(1)(D) OTHER AUTHORIZED ACTIVITIES—15%

These set-aside funds will be used to enhance ongoing program efforts relative to source water protection, capability enhancement, and operator training and certification, as described below. These funds need not be matched with state resources. Note that the indicated source water protection activities are considered Categorically Green Infrastructure Projects.

DEP is requesting EPA approval of preaward costs starting on July 1, 2022 (less than 90 days). Re-budgeting of prior year grants to accelerate draws at EPA's request has caused a shortfall this year. Approval of preaward costs will allow the program to continue operations without interruption.

DEP will request EPA approval as needed throughout the fiscal year to move as much money would be considered appropriate by EPA from the 15% to fund increases in technical assistance to small and disadvantaged systems as specified in Bipartisan Infrastructure Law (BIL) memo guidance.

DEP may add salaries, benefits and indirect charges to the 15% set asides for up to 15 additional staff as needed to assist with BIL implementation.

| PA DEP DWSRF SET-ASIDES SECTIONS 1452(k)(1)(B) and (k)(1)(D) OTHER AUTHORIZED ACTIVITIES—15% These set-aside funds will be used to enhance ongoing program efforts relative to source water protection, capability enhancement, and operator training and certification. The funds need not be matched with state resources. | | | |
|---|---|--|--|
| Work Plan Component, Program, and Mechanism: Source Water Protection (categorically green project); Ground Water Protection (Regions), Ground Water Quality Monitoring Network – Wellhead Protection; Staffing | | | |
| Grant or Contract Recipient: Not applicable | | EPA Contact(s): Kelly Moran | |
| | | State Contact(s): David Mittner / Susan Weaver | |
| Program Goal: The PA DEP Bureau of Safe Drinking Water (BSDW), in cooperation with the United States Geological Survey (USGS), established a statewide, fixed-station ambient groundwater quality network (GWMN) in 2015. The goals for the Pennsylvania GWMN included characterizing ambient groundwater quality conditions in rural areas of the State that rely upon groundwater as a source of drinking water and documenting potential changes in conditions over time. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| <p>Percent of community water systems where risk to public health is minimized through source water protection (measure SP-4(a)).</p> <p>Percent of the population served by community water systems where risk to public health is minimized through source water protection (measure SP-4(b)).</p> | <p>Contract with USGS</p> <p>Total amount allocated: Up to \$1.5 million with adequate justification and approvals from Department staff who oversee the contract</p> | <p>OUTPUTS:</p> <p>Data from this project will supplement the state-funded expanded network to provide a statewide data set. The data will support wellhead protection initiatives and guide the development of new PWS ground water sources in Pennsylvania.</p> <p>USGS staff collect the groundwater samples from the wells in the network and the DEP Bureau of Laboratories (BoL) conducts the analysis of the samples. USGS staff maintain the wells and provide assessment and analysis of the collected groundwater quality data. USGS uploads the results into the USGS National Water Information System (NWIS) database and performs quality control, review and approval of the data prior to disseminating to NWIS. Routinely monitored constituents include physical characteristics and chemical concentrations in filtered and unfiltered samples (major and trace elements, nutrients, and organic compounds). Samples for volatile organic compounds (VOCs), radionuclides, and dissolved hydrocarbon gases are collected during the first sampling event at each well.</p> <p>BSDW wishes to significantly expand the existing GWMN by adding wells, expanding monitoring parameters, and increasing monitoring frequency. Additionally, adding water level monitoring equipment to help assess statewide drought status are some of the project expansions. The overall goal, which would significantly benefit source water protection would be to enlarge the geographical coverage of the network and provide broader information.</p> | <p>Staff hours charged fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

PA DEP DWSRF SET-ASIDES

SECTIONS 1452(k)(1)(B) and (k)(1)(D) OTHER AUTHORIZED ACTIVITIES—15%

These set-aside funds will be used to enhance ongoing program efforts relative to source water protection, capability enhancement, and operator training and certification. The funds need not be matched with state resources.

Work Plan Component, Program, and Mechanism:

Source Water Protection (categorically green project); Source Water Assessment and Protection Program; Staffing

Grant or Contract Recipient:

Not applicable

EPA Contact(s):

Kelly Moran

State Contact(s):

David Mittner

Program Goal:

To implement the Source Water Assessment & Protection Program at the regional level by supporting and promoting increased participation in source water protection efforts by community waters systems; promoting and facilitating program coordination to support local source water protection programs; conducting and providing support for source water assessments for all sources serving public water systems as needed; and promoting the long-term sustainability of Pennsylvania’s drinking water infrastructure through the implementation of the Capability Enhancement Program within a watershed approach. Each region has developed a regional source water protection (SWP) implementation plan to help move towards the state’s goal for substantial implementation of SWP activities. These regional plans will be used to help revise DEP’s SWP approach as needed.

| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
|--|--|---|--|
| <p>Percent of community water systems where risk to public health is minimized through source water protection (measure SP-4(a)).</p> <p>Percent of the population served by community water systems where risk to public health is minimized through source water protection (measure SP-4(b)).</p> | <p>7 FTEs located in the six DEP Regional Offices, Field Operations Deputate.</p> <p>Time code: 38329</p> <p>Staff hours budgeted for this fiscal year: 11,615</p> <p>Additional notes: To accomplish this initiative, the state’s Capability Enhancement Program strategy was revised and submitted to EPA for review in May 2008. This draft strategy was published in the <i>Pennsylvania Bulletin</i> on June 28, 2008. Comments were addressed, and a final strategy was published in the <i>Pennsylvania Bulletin</i> on January 17, 2009.</p> | <p>OUTPUTS:</p> <p>Support development of local source water protection strategies for 6% of community water systems that do not have a source water protection plan or have not undertaken any source water protection efforts.</p> <p>Support substantial implementation of local source water protection programs for 10% of community water systems that do not have approved plans or meet the state definition of substantial implementation.</p> <p>Review and approve 80% of the source water protection plans submitted for each year and maintain plan approval through the annual update process.</p> <p>Assist development of contractor work plans for 100% of CWS seeking technical assistance through SWPTAP.</p> <p>Participates in six CWS joint inspections with district sanitarian to document substantial implementation of SWP efforts or to conduct source water assessments for unassessed sources. Provides recommendations as needed to CWS.</p> <p>Conduct source water assessments for priority community water system and high-risk noncommunity system sources permitted after 1999 needing assessments. Where feasible, conduct focused assessments on contaminants of highest concern to surface water filtration plant sources (possible examples include cryptosporidium and harmful algal blooms (HABs)).</p> | <p>Staff hours charged fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

| PA DEP DWSRF SET-ASIDES SECTIONS 1452(k)(1)(B) and (k)(1)(D) OTHER AUTHORIZED ACTIVITIES—15% These set-aside funds will be used to enhance ongoing program efforts relative to source water protection, capability enhancement, and operator training and certification. The funds need not be matched with state resources. | | | |
|--|---|--|--|
| Work Plan Component, Program, and Mechanism: Source Water Protection (categorically green project); Master Well Owners Network (MWON); Contracts | | | |
| Grant or Contract Recipient: Penn State University - School of Forest Resources | | EPA Contact(s): Kelly Moran | State Contact(s): Chad Reisch/David Mittner/Joe Hebelka |
| Program Goal: MWON is a network of trained volunteers dedicated to promoting the proper construction, operation and maintenance of private water systems in Pennsylvania. The MWON develops and maintains outreach and training materials which are used to provide on-going training and support to volunteers (Master Well Owners) on private water wells and their construction. After training, each Master Well Owner must provide general education about management of private water systems to at least 100 people over a two-year period of time. To date, the volunteer trainers have provided information to over 56,000 well owners through individual contacts and presentations at community events. A portion of the funds will be used to help plan the 2021 Pennsylvania Ground Water Symposium which will provide a forum for researchers, professionals and educators to exchange information and promote the protection of ground water throughout the state. Separate funding will be used to put on the Symposium. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| <p>Percent of community water systems where risk to public health is minimized through source water protection (measure SP-4(a)).</p> <p>Percent of the population served by community water systems where risk to public health is minimized through source water protection (measure SP-4(b)).</p> | <p>Project begins: July 1, 2022</p> <p>Project ends: June 30, 2023 (annual renewal clause)</p> <p>Estimated expenditures under this contract during the fiscal year: \$60,000</p> | <p>OUTPUTS:</p> <p>Provide training for up to 45 new volunteers. Provide free training to 25 real estate professionals who serve environmental justice communities that include private water supplies.</p> <p>Support the approximately 200 active, trained volunteers.</p> <p>Maintain the education and outreach materials, newsletter, and website.</p> <p>Hold a Ground Water Symposium in May 2023.</p> | <p>Actual expenditures fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

PA DEP DWSRF SET-ASIDES
SECTIONS 1452(k)(1)(B) and (k)(1)(D) OTHER AUTHORIZED ACTIVITIES—15%
 These set-aside funds will be used to enhance ongoing program efforts relative to source water protection, capability enhancement, and operator training and certification. The funds need not be matched with state resources.

Work Plan Component, Program, and Mechanism:
 Source Water Protection (categorically green project); Technical Assistance for Source Water Protection for Community Water Systems; Contracts

| | | |
|--|---------------------------------------|---|
| Grant or Contract Recipient: SSM Group, Inc. | EPA Contact(s): Kelly Moran | State Contact(s): Joe Hebelka |
|--|---------------------------------------|---|

Program Goal:
 To provide technical assistance to community water systems and municipalities to develop and implement local source water protection programs aimed at addressing susceptibility of the source to contamination. Local source water protection programs must meet the minimum elements outlined by DEP. Such programs would include features such as: rigorous wellhead protection area delineation; contaminant source inventories; local or regional land use planning; zoning ordinances; educational programs; and landowner incentives.

| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
|--|--|--|--|
| <p>Percent of community water systems where risk to public health is minimized through source water protection (measure SP-4(a)).</p> <p>Percent of the population served by community water systems where risk to public health is minimized through source water protection (measure SP-4(b)).</p> | <p>Project begins: July 1, 2022</p> <p>Project ends: June 30, 2023 (annual renewal clause)</p> | <p>OUTPUTS:</p> <p>Approximately 20 projects are started each year. In addition, approximately 15 projects will be completed each year.</p> <p>Monthly progress reports for community water systems that were provided technical assistance from the project's initiation.</p> <p>SWPTAP Small System SWP Program – administer program for approximately 30 community water systems per year serving <500 people. No longer separate budget item; has been rolled-into general SWPTAP.</p> | <p>Actual expenditures fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

PA DEP DWSRF SET-ASIDES
SECTIONS 1452(k)(1)(B) and (k)(1)(D) OTHER AUTHORIZED ACTIVITIES—15%
 These set-aside funds will be used to enhance ongoing program efforts relative to source water protection, capability enhancement, and operator training and certification. The funds need not be matched with state resources.

Work Plan Component, Program, and Mechanism:
 Source Water Protection; Source Water Protection Promotion, Education, & Outreach; Contracts

| | | |
|---|---------------------------------------|---|
| Grant or Contract Recipient: Anticipated - Penn State Extension via existing Master Agreement (or another similar entity) | EPA Contact(s): Kelly Moran | State Contact(s): David Mittner |
|---|---------------------------------------|---|

Program Goal:
 To develop and conduct outreach/educational programs to raise awareness of the need for source water protection, and to promote and support the development and implementation of source water protection (SWP) programs to various audiences including water suppliers, municipal and county officials, planning agencies, the general public and other stakeholders.

| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
|--|---|---|--|
| <p>Percent of community water systems where risk to public health is minimized through source water protection (measure SP-4(a)).</p> <p>Percent of the population served by community water systems where risk to public health is minimized through source water protection (measure SP-4(b)).</p> | <p>Project begins: July 1, 2022</p> <p>Project ends: June 30, 2023</p> <p>Estimated expenditures under this contract during the fiscal year: \$45,000</p> | <p>OUTPUTS:</p> <p>Raise public awareness about the importance of protecting public drinking water sources, and possible / feasible options for public participation to do so.</p> <p>Conduct a SWP workshop in each DEP region, in coordination with DEP staff, which focuses on addressing the most current concerns.</p> <p>Maintain an educational clearinghouse, resource center or website on source water protection and associated water resource issues.</p> <p>Coordinate and support SWP efforts and outreach with other DEP SWP partner organizations.</p> | <p>Actual expenditures fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

PA DEP DWSRF SET-ASIDES
SECTIONS 1452(k)(1)(B) and (k)(1)(D) OTHER AUTHORIZED ACTIVITIES—15%
 These set-aside funds will be used to enhance ongoing program efforts relative to source water protection, capability enhancement, and operator training and certification. The funds need not be matched with state resources.

Work Plan Component, Program, and Mechanism:
 Source Water Protection (categorically green project); Wellhead Protection Programs and Watershed Protection Programs; Grants

| | | |
|--|---------------------------------------|---|
| Grant or Contract Recipient: Pennsylvania Rural Water Association (PRWA) | EPA Contact(s): Kelly Moran | State Contact(s): Joe Hebelka |
|--|---------------------------------------|---|

Program Goal:
 To provide technical assistance to community water systems that do not have source water protection programs in order to ultimately achieve substantial implementation of local source water protection (wellhead and/or intake protection) programs/activities and to help maintain existing local source water protection programs. Assistance to local programs includes aspects such as guiding steering committees, public participation, contaminant source inventories, source water protection area management, and contingency planning. Various techniques will be utilized by PRWA including the Small Systems Source Water Protection approach in conjunction with DEP or other source water partners. Additionally, PRWA conducts source water training using other funds which includes local workshops and courses at their annual statewide conference.

| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
|--|--|---|--|
| <p>Percent of community water systems where risk to public health is minimized through source water protection (measure SP-4(a)).</p> <p>Percent of the population served by community water systems where risk to public health is minimized through source water protection (measure SP-4(b)).</p> | <p>Project begins: July 1, 2022</p> <p>Project ends: June 30, 2024 (annual renewal option for 2 years)</p> | <p>OUTPUTS:</p> <p>Provide assistance to 36 community water systems that do not have source water protection plans in order to achieve substantial implementation (SI) of local source water protection efforts.</p> <p>Field work activities will be coordinated with regional DEP staff prior to conducting the work; and, detailed SWP Activity Report summaries will be provided to Department staff in a timely manner following all field work.</p> <p>Core activities include – SWP plans via the Small Systems Program, SWP plan development in conjunction with delineations provided by SWPTAP contractor, SI documentation via PRWA SWAP-Assist document (or DEP SI template if done in coordination with DEP staff) 9 contact hours “Hands-On” SWP course targeting priority SWP risks, and assistance to systems on maintaining SI/approved program status.</p> <p>Performance goals included working with 1/4 of the total number of systems per quarter (consistent assistance throughout the year) and an SI goal of at least 50%.</p> <p>Help maintain existing local source water protection programs.</p> <p>Quarterly progress reports will be provided</p> <p>Coordinate with Regional DEP staff and other partners on source water protection efforts as needed.</p> | <p>Actual expenditures fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

PA DEP DWSRF SET-ASIDES

SECTIONS 1452(k)(1)(B) and (k)(1)(D) OTHER AUTHORIZED ACTIVITIES—15%

These set-aside funds will be used to enhance ongoing program efforts relative to source water protection, capability enhancement, and operator training and certification. The funds need not be matched with state resources.

Work Plan Component, Program, and Mechanism:

Source Water Protection (categorically green project); Customized GIS Tools Maintenance; Contracts

Grant or Contract Recipient:

Spatial Information Technologies, Inc.

EPA Contact(s):

Kelly Moran

State Contact(s):

David Mittner

Program Goal:

To explore additional mechanisms to develop and enter into a maintenance agreement to support customized ArcGIS applications (SWAP-GIS, Intake Zone Tool, SOC Tool, SWIS) developed for conducting GIS-based source water assessments, monitoring waiver assessments, and SWAP tracking/reporting. Since these applications were not developed in-house, DEP’s Bureau of Information Technology is requiring a maintenance agreement for the support of the applications. With reduced functionality and the toolbar inexplicably working in only two regions, the fate and long-term viability of this customized ArcGIS toolbar will be evaluated, and discussions will be held to explore whether a newer, web-based application would work better. The original software developer has recently indicated the possibility of revising or replacing the toolbar. The technology used for this application is outdated and the contractor/developer even has difficulties accessing and running the toolbar using current computers and software. Revisions to the tool may not be an option.

| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
|--|--|---|--|
| <p>Percent of community water systems where risk to public health is minimized through source water protection (measure SP-4(a)).</p> <p>Percent of the population served by community water systems where risk to public health is minimized through source water protection (measure SP-4(b)).</p> | <p>Project is ongoing</p> <p>Estimated expenditures under this contract during the fiscal year: \$30,000</p> | <p>OUTPUTS:</p> <p>As needed, correct application glitches/bugs when encountered by users.</p> <p>Conduct feasibility study on the implementation of user-requested revisions to SWAP-GIS toolbar.</p> <p>Research and conduct feasibility study on viability of and necessary revisions for Source Water Information System (SWIS) and Source Water Intake Zone Tool.</p> <p>Depending on feasibility study, explore other options involving a new web-based application.</p> | <p>Actual expenditures fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

| PA DEP DWSRF SET-ASIDES SECTIONS 1452(k)(1)(B) and (k)(1)(D) OTHER AUTHORIZED ACTIVITIES—15% These set-aside funds will be used to enhance ongoing program efforts relative to source water protection, capability enhancement, and operator training and certification. The funds need not be matched with state resources. | | | |
|---|--|---|---|
| Work Plan Component, Program, and Mechanism: Capability Enhancement; Drinking Water Protection Initiative; Staffing | | | |
| Grant or Contract Recipient: Not applicable | | EPA Contact(s): Kelly Moran | State Contact(s): Jeffrey Allgyer |
| Program Goal: To expand the capability of the PWSS program to protect public health. These staff enable the PWSS program to address the backlog of sanitary surveys and full inspections, expedite the response time to potential violations, improve the timely reporting of violations to EPA, and reduce the number of systems on the Enforcement Targeting Tool (ETT) list. As of July 1, 2009, the Bucks County Health Department canceled the delegation agreement with DEP for the implementation of the PWSS program. In addition, Chester County Health Department canceled the delegation agreement with DEP effective July 1, 2010. As a result, DEP’s Southeast Regional Office has absorbed these responsibilities. Two positions, one from the Filter Plant Performance Evaluation Program in the Southwest Regional Office and the Program Analyst vacancy in the Interstate Waters Office funded in the 10% set-asides, was transferred to the Southeast Regional Office as a long-term solution. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| Percent of population served by PWSs that meet all health-based standards. A reduced risk to public health by more rapidly returning PWSs to compliance with regulations by addressing MCL violations, monitoring and reporting violations, and operational defects identified through inspections and sanitary surveys. | 16 FTEs located in the DEP Regional Offices, Field Operations Deputate. Time code: 38328 Staff hours budgeted for this fiscal year: 26,545 | OUTPUTS: Completed sanitary surveys. Responses to violations, focusing on systems that are on the ETT list. Reviews of violations entered into PADWIS. Other activities designed to enhance the capabilities of the state’s PWSS grant program to protect public health. | Staff hours charged fiscal year to date: Noteworthy activities for the past six months: Projected activities for the next six months: Obstacles: |

PA DEP DWSRF SET-ASIDES
SECTIONS 1452(k)(1)(B) and (k)(1)(D) OTHER AUTHORIZED ACTIVITIES—15%
 These set-aside funds will be used to enhance ongoing program efforts relative to source water protection, capability enhancement, and operator training and certification. The funds need not be matched with state resources.

Work Plan Component, Program, and Mechanism:
Capability Enhancement; Bipartisan Infrastructure Law (BIL) Implementation; Staffing

| | | |
|---|---------------------------------------|--|
| Grant or Contract Recipient: Not applicable | EPA Contact(s): Kelly Moran | State Contact(s): Lisa Daniels / Ed Chescattie |
|---|---------------------------------------|--|

Program Goal:
 To expand the capability of the PWSS program to protect public health. These staff enable the PWSS program to provide necessary assistance to water systems which have design limiting factors that impact current and/or future compliance. Assistance will especially be directed to small, underserved, disadvantaged communities that lack the capability to access BIL funding in a timely or complete manner. If necessary approvals are obtained, staffing should include one Environmental Group Manager, four Water Program Specialists, two Program Analysts and eight Engineer Specialists. These staff would work together to fill specific roles to bring more project applications in for BIL funding consideration, review and approve associated permit applications in a timely manner, and complete other support tasks as needed.

| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
|--|---|---|--|
| <p>Percent of population served by PWSs that meet all health-based standards.</p> <p>A reduced risk to public health by returning PWSs to compliance with regulations by addressing design limiting factors which may reduce MCL violations, monitoring and reporting violations, and operational defects identified through inspections and sanitary surveys.</p> | <p>Up to 15 FTEs located within the Safe Drinking Water Program, DEP Regional Offices and Central Office BSDW.</p> <p>Time code: TBD</p> <p>Staff hours budgeted for this fiscal year: 24,886</p> | <p>OUTPUTS:</p> <p>Develop and maintain priority ranking tools based on specific factors.</p> <p>Promote and explain potential BIL funding opportunities to priority systems.</p> <p>Assist with completion of funding applications.</p> <p>Review permit applications for federally funded projects, rank projects, act as project managers,</p> <p>Other activities designed to enhance system’s ability to obtain and properly utilize federal funds to correct design limiting factors thereby improving the system’s capability to protect public health.</p> | <p>Staff hours charged fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

PA DEP DWSRF SET-ASIDES

SECTIONS 1452(k)(1)(B) and (k)(1)(D) OTHER AUTHORIZED ACTIVITIES—15%

These set-aside funds will be used to enhance ongoing program efforts relative to source water protection, capability enhancement, and operator training and certification. The funds need not be matched with state resources.

Work Plan Component, Program, and Mechanism:

Capability Enhancement; Partnership for Safe Water, Filter Plant Performance Evaluation Program, and the Area Wide Optimization Program; Staffing

Grant or Contract Recipient:

Not applicable

EPA Contact(s):

Kelly Moran

State Contact(s):

Kurt Smith

Program Goal:

To provide statewide program development, management, and coordination of these programs to enhance the technical, managerial, and financial capability of drinking water systems in Pennsylvania.

| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
|---|--|--|--|
| <p>Percent of population served by filter plants that have Commendable or Satisfactory Filter Plant Performance Evaluations (FPPE).</p> <p>Percent of filter plants that have Commendable or Satisfactory FPPEs.</p> <p>Percent of population served by PWSs that meet all health-based standards.</p> <p>The elimination of PWSs that are not technically, managerially, or financially capable to operate in compliance with all existing and new drinking water regulations through the design and construction of needed system upgrades and the improvement of system staff capabilities.</p> <p>A reduced risk to public health by more rapidly returning PWSs to compliance with regulations by addressing</p> | <p>Six FTEs located in the DEP Regional Offices. These staff members implement the programs in the field to enhance individual system’s technical, managerial, and financial capability of drinking water systems in Pennsylvania.</p> <p>Time code: 38333</p> <p>Staff hours budgeted for this fiscal year: 9,955</p> | <p>OUTPUTS:</p> <p>105 systems evaluated per year, when all positions are filled, and staff are not involved in significant filter plant compliance follow-up. A final FPPE report which includes optimization related comments is presented to each filter plant that is evaluated.</p> <p>A summary of progress and final products will be included in the semi-annual progress report.</p> <p>Travel and attendance for all FPPE Meetings and one technical conference per FTE.</p> | <p>Staff hours charged fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

| | | | |
|---|--|--|--|
| MCL violations, monitoring and reporting violations, and operational defects identified through inspections and sanitary surveys. | | | |
|---|--|--|--|

PA DEP DWSRF SET-ASIDES
SECTIONS 1452(k)(1)(B) and (k)(1)(D) OTHER AUTHORIZED ACTIVITIES—15%
 These set-aside funds will be used to enhance ongoing program efforts relative to source water protection, capability enhancement, and operator training and certification. The funds need not be matched with state resources.

Work Plan Component, Program, and Mechanism:
 Capability Enhancement; Partnership for Safe Water; Grants

| | | |
|--|---------------------------------------|--|
| Grant or Contract Recipient: PA Section - American Water Works Association (PA-AWWA) | EPA Contact(s): Kelly Moran | State Contact(s): Kevin Anderson |
|--|---------------------------------------|--|

Program Goal:
 To provide public relations and public education for water systems to participate in the national Partnership for Safe Water (PfSW). Execute a partnership grant with the PA Section of the American Water Works Association (PA-AWWA) to support implementation of the national Partnership for Safe Water program in Pennsylvania. This will enable PA-AWWA to hire PfSW Representatives to support DEP’s initiative to optimize water quality and reduce risks of a waterborne disease outbreak through active participation in the Partnership. Activities accomplished under this grant support optimization through both plant and distribution PfSW programs.

| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
|--|--|--|--|
| <p>Percent of population served by filter plants that have Commendable or Satisfactory Filter Plant Performance Evaluations (FPPE).</p> <p>Percent of filter plants that have Commendable or Satisfactory FPPEs.</p> <p>Percent of population served by PWSs that meet all health-based standards.</p> <p>The elimination of PWSs that are not technically, managerially, or financially capable to operate in compliance with all existing and new drinking water</p> | <p>Project begins: July 1, 2019</p> <p>Project ends: June 30, 2024 (annual renewal clause)</p> <p>Estimated expenditures under this grant during the fiscal year: \$75,000</p> | <p>OUTPUTS:</p> <p>Each PfSW Representative will contact at least 1 (one) non-member utility each quarter at 1 (total of 4 separate facilities per year) different facilities as an effort to promote the PfSW program and generate new members. Roughly half should be at ground water utilities to promote the PfSW Distribution System Program. Contact with non-members will also occur if the system’s personnel have previously expressed an interest in the program, or if PA Section AWWA is made aware of a change in management or other key personnel since the last visit.</p> <p>Each PfSW Representative will contact at least 1 (one) Phase II PfSW utility (Treatment) each quarter as an effort to encourage and assist them as they progress to Phase III.</p> <p>PfSW Representative will contact at least 1 (one) Phase III PfSW utility (Treatment) each quarter as an effort to encourage and assist them as they progress to Phase IV.</p> <p>Each PfSW Representative will contact at least 1 (one) Phase II PfSW utility (Distribution) each year as an effort to encourage and assist them as they progress to Phase III.</p> | <p>Actual expenditures fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next six months:</p> <p>Obstacles:</p> |

| | | | |
|--|--|---|--|
| <p>regulations through the design and construction of needed system upgrades and the improvement of system staff capabilities.</p> | | <p>As site visits occur, a site visit report will be completed and submitted to DEP for review within one week of the site visit. The report will contain the information requested in the site visit report template which has been provided by DEP.</p> <p>PA Section AWWA and PfSW Representatives will produce a <i>Partners in PA</i> newsletter at least once per year following the PA Section AWWA Annual Conference and distribute to each member.</p> <p>On an annual basis, a selected list of non PfSW members will be targeted by PA Section AWWA and PfSW Representatives with a copy of the <i>Partners in PA</i> newsletter and a PfSW application.</p> <p>The PfSW program and PfSW members will be promoted in the <i>Water News Source</i> each quarter on a full-page article by PA Section AWWA and PfSW Representatives.</p> <p>At least one PfSW Representative will attend each PA Section AWWA “Section Meeting” to promote the PfSW program, solicit new membership, and offer assistance to existing members as they progress through the program phases.</p> <p>PA Section AWWA and PfSW Representatives will plan and facilitate a PfSW Awards Ceremony during the PA Section AWWA Annual Conference to recognize recent accomplishments of PA’s PfSW members.</p> <p>PA Section AWWA and the PfSW Representatives will plan and facilitate a workshop for PfSW members each contract year.</p> <p>PfSW Representatives will plan and facilitate a workshop for PfSW Phase III members each contract year that focuses on promoting the Presidents Award and assisting Phase III members as they progress to this level of achievement.</p> <p>PA Section AWWA and the PfSW Representatives will meet at least semi-annually (preferably quarterly) to discuss the status of PA’s PfSW program, projects, and accomplishments to determine if grant commitments are being met and to plan upcoming PfSW activities. At least one meeting will be in-person at the PA Section AWWA office and the other meeting(s) may be conference calls.</p> <p>PfSW Representatives will follow-up with newly awarded Phase III and Phase IV systems to administer the Phase III and Phase IV CEH exams.</p> <p>Twice a year (July and January) submit a report to DEP which documents the major accomplishments during the past 6 months demonstrating that the above grant commitments were met. The report will also include the projected accomplishments for the upcoming 12 months.</p> | |
|--|--|---|--|

| PA DEP DWSRF SET-ASIDES SECTIONS 1452(k)(1)(B) and (k)(1)(D) OTHER AUTHORIZED ACTIVITIES—15% These set-aside funds will be used to enhance ongoing program efforts relative to source water protection, capability enhancement, and operator training and certification. The funds need not be matched with state resources. | | | |
|--|--|--|---|
| Work Plan Component, Program, and Mechanism: Capability Enhancement; Small Systems Managerial and Financial Capability Enhancement Program (Professional Engineering Services); Contracts | | | |
| Grant or Contract Recipient: Century Engineering Inc. | | EPA Contact(s): Kelly Moran | State Contact(s): Mark Billus |
| Program Goal: To provide services to public water systems that include but are not limited to: professional engineering design and permitting assistance, professional geologist assistance, feasibility studies, legal assistance, leak detection, mapping, and assistance with preparing grant and funding applications. These services are in support of improving long term sustainability, implementation of capital improvements, regionalization and consolidation concepts where appropriate. This work plan component does not include construction costs related to capital improvements. | | | |
| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
| <p>The elimination of public water systems (PWS) that are not technically, managerially, or financially capable to operate in compliance with all drinking water regulations through the consolidation with another system.</p> <p>The elimination of PWSs that are not technically, managerially, or financially capable to operate in compliance with existing and new drinking water regulations through the design and construction of needed PWS upgrades and the improvement of system staff capabilities.</p> <p>A decrease in the number of high priority PWSs as identified by the Capability Enhancement Program priority process.</p> | <p>Project begins: July 1, 2019</p> <p>Project ends: June 30, 2024 (annual renewal clause)</p> <p>Estimated expenditures under this contract during the fiscal year: \$150,000</p> | <p>OUTPUTS:</p> <p>Project summaries for each completed project will be included as part of the semi-annual progress reports.</p> <p>Success stories will be included in the Capability Enhancement Program Annual Report.</p> <p>Implement the Priority Ranking System. See the section of the workplan titled “Capability Enhancement Program; Staffing.”</p> | <p>Actual expenditures fiscal year to date:</p> <p>Noteworthy activities for the past six months:</p> <p>Projected activities for the next 12 months:</p> <p>Obstacles:</p> |

PA DEP DWSRF SET-ASIDES

SECTIONS 1452(k)(1)(B) and (k)(1)(D) OTHER AUTHORIZED ACTIVITIES—15%

These set-aside funds will be used to enhance ongoing program efforts relative to source water protection, capability enhancement, and operator training and certification. The funds need not be matched with state resources.

Work Plan Component, Program, and Mechanism:

Source Water Protection and Capability Enhancement; Maintenance Contracts (“Other” budget category), Equipment, and Supplies

Grant or Contract Recipient:

Not applicable

EPA Contact(s):

Kelly Moran

State Contact(s):

Crystal Blair / Kevin Anderson

Program Goal:

To provide equipment and supplies in support of DEP staff whose positions are funded out of the 15% set-asides.

| Environmental Outcomes | Staffing, Subsidy, Grant or Contract Information | Outputs for State FY22-23 (July 1, 2022 thru June 30, 2023) | Status/Obstacles/Comments |
|---|--|--|---|
| <p>Percent of community water systems where risk to public health is minimized through source water protection (measure SP-4(a)).</p> <p>Percent of the population served by community water systems where risk to public health is minimized through source water protection (measure SP-4(b)).</p> <p>Percent of population served by filter plants that have Commendable or Satisfactory Filter Plant Performance Evaluations (FPPE).</p> <p>Percent of filter plants that have Commendable or Satisfactory FPPEs.</p> <p>Percent of population served by PWSs that meet all health-based standards.</p> <p>The elimination of PWSs that are not technically, managerially, or financially</p> | <p>See Appendix B. A separate spreadsheet is provided that lists all the anticipated equipment and supplies purchases. If additional equipment or supplies is needed, the procedure for pre-approval of these purchases by EPA will be followed.</p> <p>A summary and justification for the supplies and equipment is included in the adjacent column.</p> | <p><u>Vehicles</u></p> <p>Vehicles have been purchased in previous years to support the Filter Plant Performance Evaluation (FPPE) program. These vehicles are used by program field staff traveling to systems to complete these evaluations. Ongoing costs will be limited to the operation and maintenance of these vehicles. These vehicles require periodic replacement; however, there are no vehicle replacements planned for this year.</p> <p><u>Personal Computers</u></p> <p>In previous years, laptop/desktop computers, docking stations and monitors were bought for all regional field staff in the FPPE, Drinking Water Protection Initiative, and Source Water Protection Programs. DEP’s replacement protocol involves a five-year rotating timeframe. No new computers are expected to be purchased for the FPPE program for this year. Desktop computers are needed for two SWP hydrogeologists in SC Region, based on the five-year rotating schedule.</p> <p><u>Field Equipment and Supplies</u></p> | <p>Computers and vehicles purchased during the past six-months:</p> <p>Projected purchases for the next six months:</p> |

| | | | |
|---|--|--|--|
| <p>capable to operate in compliance with all existing and new drinking water regulations through the design and construction of needed system upgrades and the improvement of system staff capabilities.</p> <p>A reduced risk to public health by more rapidly returning PWSs to compliance with regulations by addressing MCL violations, monitoring and reporting violations, and operational defects identified through inspections and sanitary surveys.</p> | | | |
|---|--|--|--|