

**Ohio Environmental Protection Agency
Drinking Water State Revolving Funds
Wellhead Protection Set-Aside
Program Year 2005 Annual Report**

1. Fiscal Summary

In Program Year (PY) 2005, from July 1, 2004 - June 30, 2005, Ohio EPA spent \$1,127,000 for 12.8 full time staff and 8 part time interns to support implementation of the wellhead protection/ source water assessment activities specified in the DW SRF 2005 Intended Use Plan. Funds were used to complete source water assessment reports, provide direct technical assistance to local communities in development of local drinking water source protection plans, development of protective strategies at the local and state level, education and outreach, and for general administrative and information management support.

During the year, the Ohio EPA set-aside \$1,220,005, which was 5 percent of the Federal Fiscal Year (FFY) 2005 federal capitalization grant. The FFY 2005 wellhead protection set-aside was not used to pay for staff resources during Program Year (PY) 2005 because Ohio used remaining funds from the 2001 and a portion of the 2002 capitalization grant wellhead protection set-asides.

2. Goals and Objectives

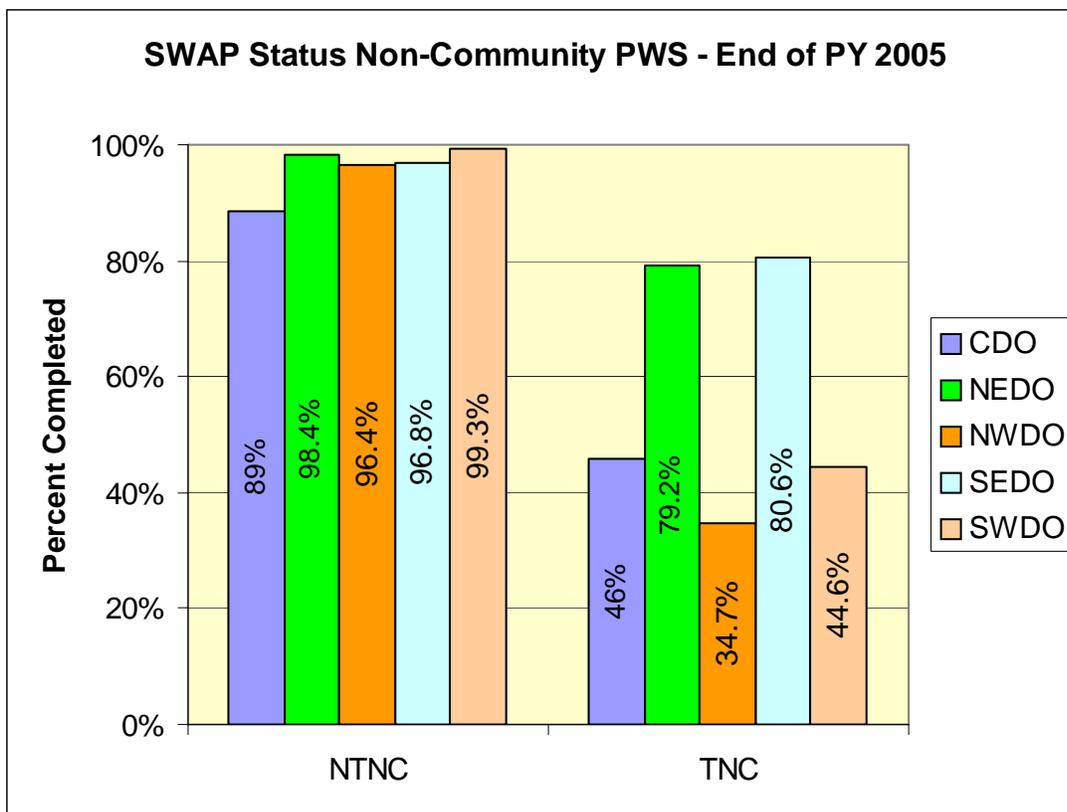
The goals and objectives for the Wellhead Protection Program for PY2005 as specified in the Intended Use Plan were as follows:

- Delineating 750 wellhead protection (source water assessment) areas
- Conducting 750 inventories of potential contaminant sources
- Conducting 750 susceptibility determinations for public water systems using ground water.
- Data management, disseminating results of assessments (development of 750 interim and final reports), and conducting public outreach and education
- Encouraging and providing technical assistance to public water systems on source water protection activities

3. Program Accomplishments

During PY 2005, the majority of the program activities completed were associated with completion of source water assessment reports for non-community public water systems using ground water sources. Ohio EPA has continued to make substantial progress toward completing source water assessments for non-community public water systems in Ohio. Ohio EPA completed over 1500 source water assessment reports during PY 2005. The table and chart below presents an overall summary status for the end of PY 2005.

SWAP Overall Status							
Non Community PWS							
District	Source Type	Total NTNC PWS	Reports Complete	NTNC	Total TNC PWS	Reports Complete	TNC
CDO	GW	141	125	88.7%	323	148	45.8%
NEDO	GW	430	423	98.4%	1243	984	79.2%
NWDO	GW	166	160	96.4%	835	290	34.7%
SEDO	GW	63	61	96.8%	242	195	80.6%
SWDO	GW	142	141	99.3%	525	234	44.6%
Total		942	910	96.6%	3168	1851	58%



The Agency received and reviewed 8 final drinking water source protection plans submitted voluntarily by public water system officials of which 50 percent of these plans were endorsed by the agency. The program received and reviewed 338 protective strategies checklists originally included in the non-municipal community and non-community source water assessment reports. These public water systems have indicated that they have taken some type of action to implement a protective strategy to protect their source of drinking water. The Agency noted their efforts by issuing a Certificate of Recognition for Drinking Water Source Protection Planning.

In addition, staff provided source water protection education and outreach to site owner and operators during all (>1,400) potential contaminant source inventory site visits, conducted 3 county wide source water protection workshops for 26 public water systems and provided direct technical assistance and presentations to over 50 public water systems officials in development of their local plans. The program also distributed over 3,000 Developing a Drinking Water Source Protection Plan/ Operator's Basic CD ROM to Ohio's public water system operators and community officials.

4. Program Accomplishment by Activity

Specific accomplishments for each of the program activities identified in the PY 2005 Intend Use Plan are summarized in detail in the tables as follows:

<p>WHP Activity 1 through 3 - Delineating wellhead protection (source water assessment) areas, conducting inventories of potential contaminant sources and making susceptibility determinations of public water systems using ground water.</p>
<p>Proposed Outcome/Product - Delineate drinking water protection areas, and complete contaminant source inventories and susceptibility analyses for approximately 750 public water systems per year</p> <p>Actual Work Completed</p> <ul style="list-style-type: none"> ● Completed Source Water Assessment Report for non-community public water systems using ground water. <ul style="list-style-type: none"> 1,025 SWAP Delineations 1,411 Potential Contaminant Source Inventories 1,559 Susceptibility Analyses 1,521 Source Water Assessment Reports <p>The increase in the number of source water assessment reports completed during the past this program year is partly due to the redesign of the report for transient public water systems and increased experience and efficiency by staff. Nearly all (97%) source water assessment reports for the non-transient public water systems have been completed. The remaining few to be completed are recently activated public water systems, except for those located in the Central District Office.</p> <p>Nearly 60% percent of the source water assessment reports have been completed for the transient public water systems. To date, approximately 73% of the preliminary work (delineation, potential contaminant source inventory, site visit and susceptibility analysis) necessary to complete the source water assessment reports for the transient public water system has been completed. It is anticipated that the Agency will complete source water assessment reports for the remaining non-community public water systems by December 31, 2005.</p>

WHP Activity 1 through 3 - Delineating wellhead protection (source water assessment) areas, conducting inventories of potential contaminant sources and making susceptibility determinations of public water systems using ground water.

Supplemental Programmatic Benefits

Identification of SWAP areas which are incorporated into a statewide geographic information management systems allows the easy identification and association with other environmentally regulated activities .

WHP Activity 4 - Data management, disseminating results of assessments, and conducting public outreach and education

Proposed Outcome/Product - Interim and final assessment reports for every SWAP area.

Actual Work Completed

- Prepared 1,521 draft and final source water assessment reports and distributed to owner/operators of the public water system.
- Updated and enhanced the development of SWAP Milestone tracking program, SWAPTrack, added a protection planning module and developed additional electronic reports.
- Continued to convert final SWAP reports to pdf file format for distribution and publishing on the Division's web page. Active links have been delayed due to concerns with public water system security. We have been working towards development of a secure web page with registration requirements (similar to one developed for the State of Illinois) to make the assessment reports more widely available to the public. The reports are available to program staff and other environmental programs within the Agency through Intranet access.
- Continued coordination with Ohio's UIC program on follow-up inspections for potential Class V wells located within, or in the vicinity of, delineated SWAP/WHP areas.
- Created a Fact Sheet on the Drinking Water Source Protection Planning CD-ROM Training Course.
<http://www.epa.state.oh.us/ddagw/Documents/cdbrochure.pdf>

WHP Activity 4 - Data management, disseminating results of assessments, and conducting public outreach and education

- Continued QA/QC of community public water system source water assessment reports and continued review of information in the source water assessment milestone tracking database (SWAPTrack).
- Provided updates to the ArcView Map Project that included source water protection areas, water supply wells and other geographic base information to share with Ohio and Federal Agencies. The tool will assist in protecting source water assessment and protection areas. The Ohio Department of Agriculture's Livestock Environmental Permitting Program uses this tool to assist in the review of permit applications for large concentrated animal feeding operations.
- Updated and maintained the wellhead protection and source water assessment and protection program web pages.
<http://www.epa.state.oh.us/ddagw/pdu/swap.html>
- Continued to maintain the Hydrogeologic Resource Characterization database to assist with the development of ground water protection area modeling.

Supplemental Programmatic Benefits

The resource characterization database created for the Source Water Assessment and Protection Program enables the Program to provide geographically-referenced ground water information of all kinds to the other divisions, agencies and consultants requesting it. The GIS capabilities developed enable WHP/SWAP staff to respond quickly to technical requests for maps, often generating them the same day and sending them out via e-mail.

WHP Activity 5 - Encouraging and providing technical assistance to public water systems on source water protection activities

Proposed Outcome/Product - locally developed SWAP/WHP Plans and implementation of protective strategies

Actual Work Completed

- Responded to 250 technical assistance requests for maps showing locations of public water supply wells and source water protection areas. The requests are typically related to general environmental site assessments; siting, design standards and corrective actions for underground storage tanks; and land application of wastewater biosolids or manure management facilities.

WHP Activity 5 - Encouraging and providing technical assistance to public water systems on source water protection activities

- Continued to assist communities with development of Drinking Water Source Protection Plans. Provided direct technical assistance to over 50 public water systems in development of local wellhead protection plans. During PY 2005, 8 Drinking Water Source Protection Plans were voluntarily developed and submitted by municipal community public water system officials. Fifty percent of these plans were endorsed by the Agency. The remaining systems are addressing comments to meet the Agency endorsement criteria.
- Within the SWAP report, the program provided recommended protective strategies for all potential contaminant sources identified during the assessment for 1,521 non-community public water systems reports. Received and reviewed 338 protective strategies checklists originally included in the non-municipal or non-community source water assessment reports. These public water systems have indicated that they have taken some type of action to implement a protective strategy to protect their source of drinking water.
- At the request of the Ohio Water Resource Council, the Ohio EPA Division of Drinking and Ground Waters (source water assessment and protection staff) led a workgroup (State Agencies and the Natural Resources Conservation Service) to develop a set of consistent environmental setbacks to protect sources of drinking water. The draft report "Recommended Setbacks for Human and Animal Waste Management Near Drinking Water Supply Wells and Intakes" includes recommendations for source water protection areas based on susceptibility to contamination.
- Developed and piloted the use of a template Drinking Water Source Protection Plan for use by small and medium public water systems using ground water sources. The Agency and ORWA staff have indicated that the new report template has made it easier for the smaller public water systems to develop a plan. While the Agency has not yet received many plans, OWRA has indicated that many public water systems have initiated development of a source water protection plan due to the new format.
- In collaboration with the Montana Water Resource Center, the Agency finalized development of a training CD-ROM, Developing a Drinking Water Source Protection Plan. The training/education product is accessible through the Internet or via the stand-alone CD-ROM. Staff also arranged awarding State of Ohio Operator Certification contact hours to those who complete the training and pass the 50-question exam. A web link to the CD-ROM information is as follows: http://www.epa.state.oh.us/ddagw/pdu/swap_online.html

WHP Activity 5 - Encouraging and providing technical assistance to public water systems on source water protection activities

- Distributed approximately 3,000 Developing a Drinking Water Source Protection Plan/Operator Basics CD-ROMs to Ohio's water system operators and public water system officials.
- Conducted source water protection outreach sessions to five county (Marion, Fulton, Hancock, Hardin and Richland) health departments.
- Conducted 3 county/regional workshops on developing a local Source Water Protection Plan, designed for municipal public water system owner/operators and local officials. Presented workshops in the following areas:
Columbiana County - 7 public water systems
Brown and Clermont Counties - 10 public water systems
Muskingum and Coshocton Counties - 9 public water systems
- Conducted 6 meetings with Ohio Rural Water Association WHP and SWAP Technicians funded through U.S. EPA and U.S. FSA to ensure consistency in implementation of Ohio's Source Water Assessment and Protection Program.
- Conducted three meetings with the USDA Farm Service Agency and the ORWA Source Water Technician to coordinate implementation of source water protection planning in Ohio.
- Conducted SWAP Protection Planning Meetings with public officials for 30 public water system including:
Village of New Holland, Village of Chagrin Falls, City of Urbana, Village of Kalida, Village of Bradner, Village of Lindsey, Village of Dunkirk, Village of Ottawa, Village of Bluffton, Village of Butler, Tuscarawas County, Village of Shadyside, Wilkshire Hills, Village of Bolivar, Village of Racine, Village of Brewster, City of Chillicothe, Muskingum County Water, South Zanesville, City of Logan, Leading Creek, Shadyside, Pomeroy, Syracuse, Belmont County Water District, Middleport, Bridgeport, Roseville, St. Clairsville., and Spring Valley.
- Presented a SWAP Source Water Planning Presentation to members at Ohio Rural Water Annual Conference.