

EXECUTIVE SUMMARY

The purpose of this Act 537 Plan is to address the wastewater disposal needs of Shinglehouse Borough, Potter County, Pennsylvania. The planning area for this Act 537 Plan is the entire Borough.

An evaluation was of the 28 existing on-lot disposal systems throughout the Borough indicated that there is currently no need for improved wastewater disposal in these areas. The results of the sanitary survey are summarized in Chapter 3. The maps summarizing the results of the surveys are included in Appendix F. Complete results of the sanitary survey are presented in Appendix B.

An evaluation of the existing wastewater treatment plant (WWTP) indicated that there was a need for improved treatment facilities to provide sustainable treatment over the next 20 plus years. The evaluation of the existing WWTP is summarized in Chapter 3.

Descriptions of the each treatment alternative are presented in this Plan. Structural alternatives for providing upgrades to the WWTP were evaluated on the basis of environmental soundness, cost-effectiveness, and structural feasibility.

The following summarizes the wastewater planning needs and recommendations of the Plan:

1. Shinglehouse Borough shall proceed with implementation of Alternative 2A (WWTP Upgrade) in multiple phases.

As discussed in Chapter 5, this alternative includes installation of a vertical fine screen and rehabilitation of the influent pump station and control building; new grit removal system; new oxidation basin that would replace the existing primary clarifier and trickling filters; rehabilitation of the final clarifier; and rehabilitation of the disinfection system.

The recommended alternative should be completed in multiple phases in order to capitalize on existing grant programs and minimize the impact to the small rate base. Water Quality Management Part II Permitting through the Pennsylvania Department of Environmental Protection (PaDEP) is required for the recommended improvements.

2. Shinglehouse Borough shall adopt an Ordinance governing the management of on-lot disposal systems (OLDS) within the Borough.

As discussed in Section 5.7, Shinglehouse shall adopt an ordinance governing the management of on-lot disposal systems (OLDS) to provide for management of the Borough's OLDS systems and to ensure that proper operation and maintenance of those facilities is conducted by the Borough's residents. A draft copy of the On-lot Sewage Management Ordinance is included as Appendix G. This Ordinance provides requirements for the permitting, inspection, operation, maintenance, and rehabilitation of OLDS within the Borough. Mandatory periodic pumping of OLDS is included within the Ordinance.

Successful implementation of the Ordinance is expected to have a positive impact on surface water and drinking water supplies in areas of the Borough where OLDS systems are utilized. Periodic pumping of the tanks is anticipated to provide for improved operation of the systems and help to eliminate the occurrence of OLDS malfunctions. Currently, Shinglehouse Borough does not have any ordinances or regulations requiring mandatory tank inspection or maintenance.

The following activities shall be undertaken to ensure successful implementation of the selected alternatives within the specified timeframes:

Years	Activity
0 to 1	Adopt Sewage Management Ordinance
	Secure Funding for Phase 1 – WWTP Upgrade
	Complete preliminary design and submit WQM Part II Permit Application for Phase 1 – WWTP Upgrade
1 to 2	Complete final design, Bid, and Construct Phase 1 – WWTP Upgrade
	Complete preliminary design and submit WQM Part II Permit Application for Phase 2 – WWTP Upgrade
3 to 10	Complete final design, Bid, and Construct Phase 2 – WWTP Upgrade