

EXECUTIVE SUMMARY

The purpose of this Act 537 Plan is to address the wastewater disposal needs of Halifax Township, Dauphin County, Pennsylvania. The planning area for this Act 537 Plan is Halifax Township in its entirety.

An evaluation of existing on-lot disposal systems and testing of well water throughout the Township (Originally completed by K&W Engineers with approximately 10% reinspected by HRG, Inc.) indicated that there is a need for improved wastewater disposal in Matamoras, Triangle & Lenker Estates, Route 147 & 225, Tourist Park, and Fetterhoff Church Plan Areas of the Township. The results of the sanitary surveys are summarized in Chapter 3. The maps summarizing the results of the surveys are included in Appendix D. A complete summary of the results of the sanitary survey are presented in Appendix E.

The needs areas were identified based on needs derived from the number of on-lot malfunctions, well water sample results, soil suitability (high groundwater table, slow permeability, flooding, steep slopes or shallow depth to bedrock), and planned and projected growth. Structural alternatives for providing improved sewage facilities to these study areas were evaluated on the basis of environmental soundness, cost-effectiveness, and structural feasibility. Other study areas included as part of this Plan include: Dusty Trail, Hill Top - Round Top, Route 147-McClelland Road, and General Study Areas. No structural alternatives were identified or evaluated for these other areas as part of this Plan. Descriptions of the each respective study area are presented in this Plan.

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

1. Halifax Township shall develop and adopt an Ordinance governing the management of on-lot disposal systems (OLDS) within the Township.

As mentioned in Chapter, through further development, evaluation, and public education, an OLDS Management Ordinance shall be developed and adopted by the Township to ensure that proper operation and maintenance of those facilities is conducted by the Township's residents. Repairs to the malfunctioning systems should be made a priority as part of this plan development to protect the existing OLDS against future failure by the fourth year after this Plan's adoption. This Ordinance would provide requirements for the permitting, inspection, operation, maintenance, and rehabilitation of OLDS within the Township. Successful implementation of the Ordinance is expected to have a positive impact on surface water and drinking water supplies in areas of the Township where OLDS systems are utilized

The implementation of the Ordinance will allow the Township to further evaluate the need for improved sewage facilities after mandatory inspection and maintenance activities have commenced for some period of time. In other municipalities where sewage management plans have been enacted and mandatory inspection and maintenance is conducted, a decrease in the frequency of confirmed OLDS malfunctions have been observed.

2. Public sewer service should be provided for the Matamoras, Route 147 & 225, Triangle & Lenker Estates Areas.

As discussed in Chapter 5, the provision of public sewer service to the Matamoras, Route 147 & 225, Triangle & Lenker Estates Areas is not economically feasible as a standalone project.

However, the provision of public sewer to these areas becomes more feasible when including additional EDUs and with favorable funding or additional contributions.

The structural alternatives evaluated in this Act 537 Plan to provide public sewer service to the Matamoras, Route 147 & 225, Triangle & Lenker Estates Areas represent technically feasible solutions for wastewater management in these areas, but not all of the solutions are cost effective as presented. Of the alternatives evaluated for these areas, it is recommended that the Township pursue Alternative 4D as further described in this Plan. The estimated project cost Alternative 4D is approximately \$12,747,400.00. After the assumed tapping fees, approximately \$2,508,600 total (\$4,948.02/EDU), are subtracted from the estimated project cost, the total remaining estimated cost is approximately \$10,238,800.00.

This alternative should be implemented when an updated inter-municipal agreement is negotiated with the Halifax Area Water and Sewer Authority (HAWSA) and funding is secured. Without an updated inter-municipal agreement, development agreements, and favorable funding (public and private) this alternative is not feasible and should not be implemented. This alternative is environmentally favorable, resulting in the abandonment of malfunctioning OLDS in the areas, abandonment of an existing packaged wastewater treatment facility. This alternative also provides proper planning for future growth in the Township.

Alternatives formulated to provide public sewer service to the Tourist Park and Fetterhoff Church Areas are some of the most costly structural alternatives per user identified in this Plan due to the amount of infrastructure that must be built to serve the small number of properties currently located in these areas of the Township. Township. It is recommended that public sewer service not be provided to the Tourist Park and Fetterhoff Church Areas at this time; however, the Township may consider providing public sewer service in these areas if it becomes economically feasible.

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

Years	OLDS Sewage Management Ordinance Activities
2018 - 2020	Develop Draft On-lot Disposal System Management Ordinance
	Provide Public Education for On-lot Disposal System Management Ordinance
2020 - 2021	Finalize and Adopt On-lot Disposal System Management Ordinance
2021 - 2022	Implement On-lot Disposal System Management Ordinance, Begin Pumping Cycles

Years	Selected Alternative Activities
0 to 2	Negotiate Updated Inter-municipal Agreement with HAWSA
	Pursue Funding Opportunities for Construction of Alternative 4D Facilities
2 to 5 ⁽¹⁾	Design and Permit Alternative 4D Facilities
5 to 9 ⁽¹⁾	Construct Alternative 4D Facilities (Assumed to Be Completed in Phases)
6 to 10 ⁽¹⁾	Complete Connections to Alternative 4D Facilities

Note (1): Without an updated inter-municipal agreement (including updates to the HAWASA rules and regulations), development agreement(s), and favorable funding (public and private) this alternative is not feasible and will not be implemented.