

Stormwater User Fee Study – Phase 2

Ferguson Township Program of Stormwater Services

A. Background:

Phase I of this study was initiated to answer a series of questions regarding the stormwater services provided by the Township and to evaluate the potential for user fee funding as the primary financial resource for these services. The questions focused on the analysis and the strategy for addressing drainage system and water quality program needs.

The questions focused on in Phase 1 were:

1. What is the Township's current stormwater management program?
2. What are the stormwater related problems, issues, needs, and opportunities currently faced by the Ferguson Township? What is the compelling case to change current funding methods?
3. What stormwater program priorities should guide Ferguson Township in the next three to five years? What is the long-range goal for these services?
4. What is the optimal organizational structure to deliver services to the community? Are there staffing needs that should be considered?
5. What specific Township program elements require additional funding or a change in funding strategy?
6. What is (are) the best way(s) to pay for stormwater management? Are there multiple funding strategies that can be used to accomplish the goals of the program?
7. Is it feasible to establish a user-fee based funding strategy? What are the steps to implementation?

B. Program Recommendations:

In answering questions 1 through 5, the analysis of current services indicated a need to focus more resources for maintenance and operation of the drainage system while ensuring compliance with water quality mandates from the Pennsylvania Department of the Environment (PADEP). Working with the Stormwater Advisory Committee and staff through Phase 1 and now Phase 2, with feedback from the Board of Supervisors, priorities were identified and ranked.

The following stormwater program initiatives were recommended to the Board of Supervisors and discussed throughout both Phases:

- Assessment of infrastructure system including expanded documentation on facilities built prior to 2003, as well as current and complete data on infrastructure condition, age, material, location, ownership, and other key elements. This data drives future capital investment as well as maintenance practices.
- Investment in pipe rehabilitation, lining corrugated metal pipe in neighborhoods as well as replacement when critical condition failure is identified.

- On-going compliance with mandated water quality permit requirements including engineering design and construction of MS4 Permit Pollution Reduction Plan projects.
- Operation and maintenance enhancements for all components of the drainage infrastructure, to address both quantity and quality management. Short term and long-term objectives will be met with support by contractors, additional staff, and equipment purchases. These resources will address immediate support in infrastructure assessment and long-term support for system maintenance and operations.
- Increased level of service for maintenance of ditches and cross-pipe system components outside the urban area.
- Inspection of infrastructure on a routine basis for inlets, pipes, open channels, and stormwater management facilities.
- Continued partnership with the Transportation Improvement Program for system components within the Township roadway network.

C. Program Focus – Current, Expanded and Additional Services

To achieve the goals and recommendations from the Study Phase I, clarified and refined during the Phase 2 of the Study, the following Table 2 captures the draft program major initiatives and the Fiscal Year (FY) in which activities will occur. Based on this overall program, reviewed with the Stormwater Advisory Committee, the Board of Supervisors and staff, a cost of service was developed and analyzed for primary funding with user fees. Over the period October 2019 to June 2020, the sequencing of workload and staff augmentation was reviewed and the costs projected as follows:

Eight Year Plan By Expense Type and Program Focus									
		FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28
Operating Costs									
	Personnel	\$ 323,652	\$ 334,063	\$ 456,090	\$ 471,014	\$ 486,411	\$ 502,562	\$ 696,260	\$ 720,148
	Materials/Supplies	\$ 415,044	\$ 449,448	\$ 461,090	\$ 474,976	\$ 485,725	\$ 498,758	\$ 522,549	\$ 428,130
Capital		\$ 515,000	\$ 2,170,450	\$ 749,914	\$ 810,855	\$ 843,348	\$ 717,471	\$ 753,307	\$ 790,940
Total		\$ 1,253,696	\$ 2,953,961	\$ 1,667,093	\$ 1,756,844	\$ 1,815,484	\$ 1,718,791	\$ 1,972,116	\$ 1,939,218

	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28
Administration	\$ 63,611	\$ 63,590	\$ 62,507	\$ 64,534	\$ 66,633	\$ 68,809	\$ 66,755	\$ 68,984
MS4	\$ 129,151	\$ 208,750	\$ 256,067	\$ 289,885	\$ 293,844	\$ 137,949	\$ 133,209	\$ 137,401
Infrastructure	\$ 1,060,934	\$ 2,681,621	\$ 1,348,519	\$ 1,402,425	\$ 1,455,007	\$ 1,512,033	\$ 1,772,152	\$ 1,732,834
Totals	\$ 1,253,696	\$ 2,953,961	\$ 1,667,093	\$ 1,756,844	\$ 1,815,484	\$ 1,718,791	\$ 1,972,116	\$ 1,939,218

In FY22, a significant increase in costs is attributed to a major capital project for Park Hills drainage improvements and the funding recommendation includes debt financing for a 15-year payback period.

All program areas addressing the priorities are presented in the follow table, and timing is indicated by an "X" in the fiscal year in which effort expended. Cost factors were developed working with the Township Finance Director, to provide cash demand and rate estimate that are presented in the Cost Capture and Fee Analysis – Summary dated 6-3-2020.

