

ENVIRONMENTAL QUALITY COMMITTEE: Stormwater (SW) Priority Capital Projects List Update

May 15, 2018

This project was undertaken in connection with the settlement of an enforcement action under the Clean Water Act, United States et al. v. Lexington-Fayette Urban County Government, brought on behalf of the U.S. Environmental Protection Agency.



LEXINGTON

AGENDA

- What is the SW Priority Projects List?
- Consent Decree impact of list management
- 2017 Efforts
- Future Efforts
- Questions



HISTORY

1996: Priority List developed at the request of the Urban County Council

- Initial list comprised of 100 projects with known or suspected home or street flooding, totaling approximately \$100M.
- Funding was limited to bonds secured using the General Fund.

HISTORY

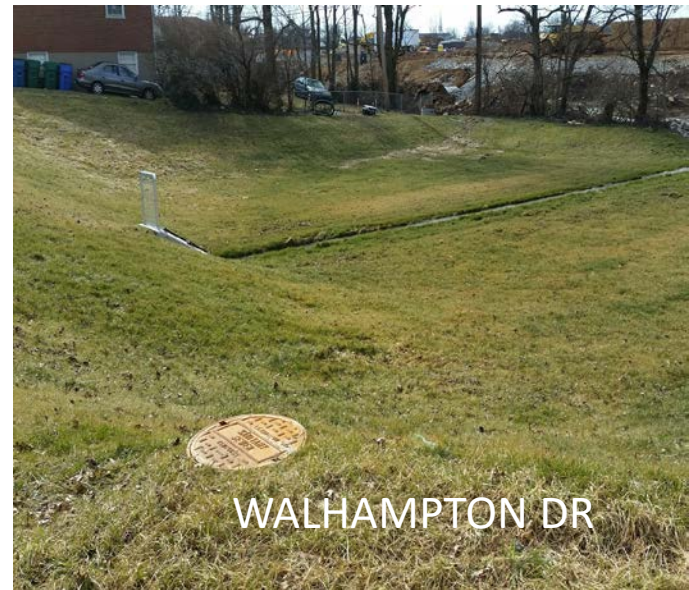
2010: Water Quality Management Fee (WQMF) Fund 4051

- Dedicated SW program funding source required by the Consent Decree.
- Projects financed via cash flow and KIA loans.

Since inception of Priority List concept, 53 projects out of 131 have been completed at a cost of approximately \$32.4M.



ELAM PARK



WALHAMPTON DR



IDLE HOUR NORTH



ROGERS RD.

CONSENT DECREE IMPACT ON SW PRIORITY LIST

- 2011: Consent Decree entered into with the United States Environmental Protection Agency and the Commonwealth of Kentucky.
 - Required creation of the WQMF funding source.
 - Appendix K-2 of the Consent Decree required LFUCG to develop a methodology to evaluate flood prone areas and prioritize future capital projects — a Supplemental Environmental Project “SEP.”

SUPPLEMENTAL ENVIRONMENTAL PROJECT COMPONENTS

- A severity scoring system that:
- Identification of “near term” flood relief or elimination actions;
- Capital project implementation recommendations; and
- Estimated capital project costs for recommended projects.

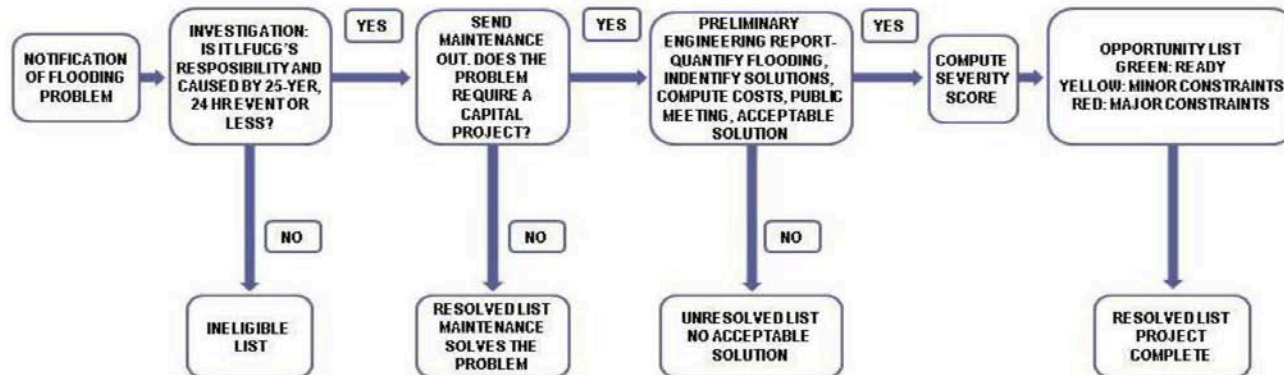
REVAMPING SW PRIORITY LIST METHODOLOGY

The Priority List methodology was refined in 2012 to:

- Meet Consent Decree commitments made by LFUCG.
- To implement lessons learned and better document the overall process for managing the list.
- “New” methodology endorsed by UCC in 2012.



Severity Score Process





SW PRIORITY PROJECT LIST PROCESS

To become a Priority List Project, one or more of the following conditions must be met:

- Structure flooding (surface water entering a structure through an opening such as a door, window, or vent); or
- Street/road flooding with either greater than 1 foot of water in the driving lane or the crown of the road is not visible.

SW PRIORITY PROJECTS LIST

- Additional factors which may be considered are: does the solution require work on multiple properties and/or are major constraints (utilities, existing structures or facilities) in the project area?
- Once a project is added, current policy is that it “wait” for two (2) years before any action is taken.
- Other (Executive or Legislative Directive)

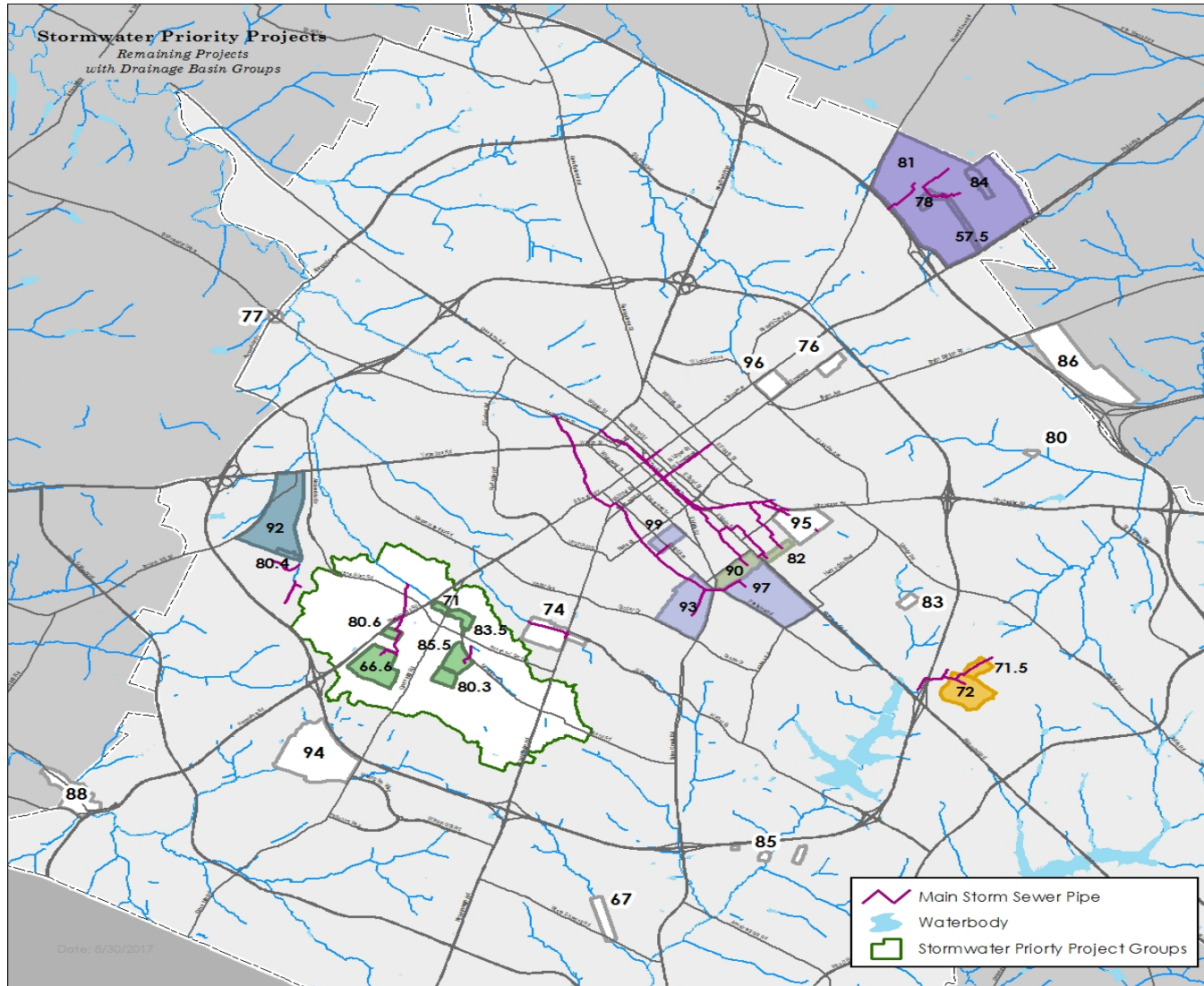
Nuisance/Maintenance Issues

Not Part of the Priority List Approach

- **Nuisance** ponding of water on roadways, uncontrolled roadway runoff; or
- Repair and/or cleaning of existing storm infrastructure, detention basin structural components (risers, spillways, paved ditches, etc.).

DWQ has recently begun a new Infrastructure Repair Program using a contractor and three (3) new positions to address these issues.

REMAINING PRIORITY PROJECTS



ACTIVE SW PRIORITY PROJECTS

- #67-Wilson Downing Tributary at Wilson Downing Rd. Construction bid \$951,165.
- Southland/Wolf Run Project (consolidation of projects #66.6, #71, #80.3, #80.6 and #85.5).
 - Southland/Wolf Run has a total estimated cost of \$10M.
 - The WGPL project (under design) has an estimated cost of \$1,100,000 (included in FY 2019 budget request).

ACTIVE SW PRIORITY PROJECTS

DWQ has reopened two (2) priority projects:

- Silverleaf Ct. (#6) - homeowner complaint of flooding from undersized infrastructure. DWQ is assisting in development of a flood-proofing plan.
- Elizabeth St. (#60) - new complaints of flooding at the intersection of Elizabeth St. and Forest Park have prompted reopening the project.

ACTIVE SW PRIORITY PROJECTS

- The Peachtree Rd. (#71.5) and Woodhill Park (#72) projects have been combined into one project. DWQ is currently developing a Preliminary Engineering Report for this project.
- One new priority project is likely to be added to the list in 2018. The Preliminary Engineering Report indicates that undersized pipe results in street flooding in the 3400 block of Lyon Drive.

WRAP UP

SW PRIORITY PROJECTS LIST

- Long Term:
 - New projects will be added if they meet the documented criteria for inclusion on the list.
 - Many expensive and technically challenging projects are and remain on the current list.
- Near-Term:
 - Under the Consent Decree, LFUCG committed to spend \$30M on Priority Stormwater Capital Projects within a 10 year period.
 - Completion deadline is January 3, 2021.

CONSENT DECREE OBLIGATION- SW CAPITAL

- Amount spent to date on completed Stormwater Priority Capital Projects - \$16,650,000
- Amount budgeted for currently active Stormwater Priority Capital Projects - \$1,100,000 (WGPL)
- Amount needed to meet the 1/3/21 Stormwater Priority Capital Project deadline - \$12,250,000



WHAT TO EXPECT - FY19

- New culvert on Wilson Downing in summer 2018.
Construction bid \$951,000.
- Construction in WGPL neighborhood in spring 2019.
Estimated cost \$1,100,000.
- Analysis and right of way acquisition phases for other parts of the Southland/Wolf Run Stormwater Project.
- Continue review of SW Priority List projects (#'s 76, 77, 78) for viable projects.

QUESTIONS?

