

# Stormwater Improvement Plan and Project Efficiencies (Meeting the Consent Decree Obligations)

Environmental Quality Committee

April 19, 2016

Department of Environmental Quality & Public Works  
Division of Water Quality

# History of the SW Priority List

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- The Stormwater Capital Priority List was developed in 1996 at the request of UC Council.
  - Since inception, 95 projects complete @ \$27.8 M
- 2015 update lists active, pending or deferred projects totaling over \$117 M.
  - 29 pending projects @ \$101 M
  - Range of individual project costs
    - \$330,000 to \$19.4 M



# Current Status (SW Priority List)

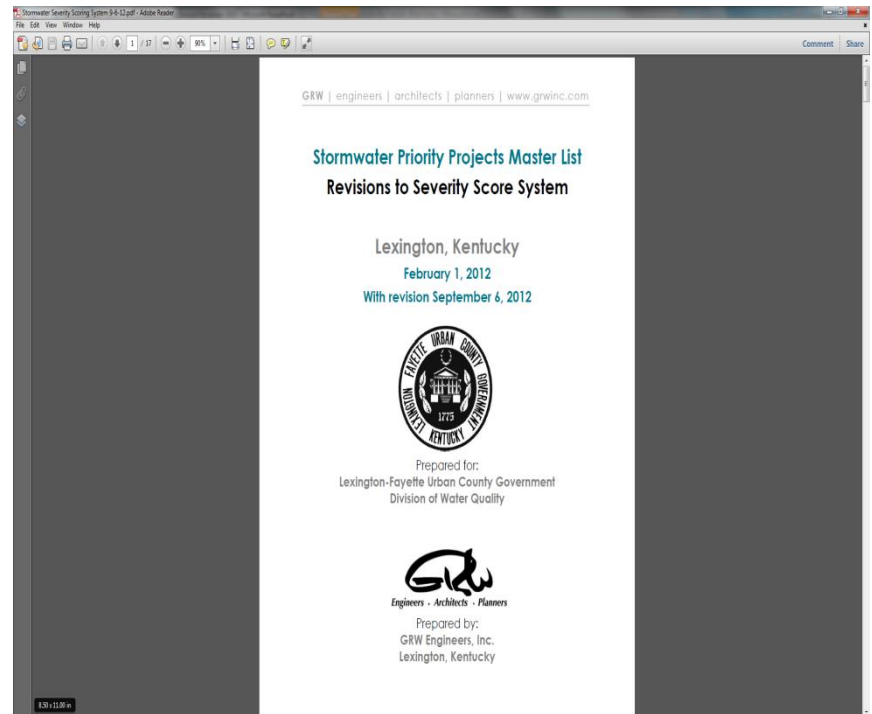
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- Actively working on projects 57.5, 61.2, 66.6, 67, 67.5 and 68.5.
- Typically working on a range of project numbers due to undefined project scopes and changed conditions.



# Priority List Impact Related to the Consent Decree

- The priority list methodology was refined in 2012. Purpose of refinement was:
  - To meet Consent Decree commitments made by LFUCG.
  - To implement lessons learned and better document the overall process for managing the list.



# Priority List Impact Related to the Consent Decree

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- LFUCG commitment to spend \$30 M on Priority Stormwater Capital Projects within a 10 year period – deadline is January 3, 2021.
- Where does DWQ stand in meeting this obligation?



# Current Status

## (SW Priority List and the Consent Decree Obligation)

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- Amount spent to date on completed CD projects - **\$9,900,000**
- Amount budgeted for currently active CD projects - **\$4,970,000**
- Amount needed to meet the 1/3/21 CD obligation - **\$15,130,000**



# Issues of Concern

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- Following the Stormwater Priority Capital Projects list in numeric order introduces considerable risk in meeting the January 3, 2021 Consent Decree spending deadline.



# RISK 1

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- Valuable time gets spent on projects that do not meet \$30 M programmatic criteria.
  - Queensway (#68.5) – Estimated \$2.0 M capital project turned out to be a \$400 maintenance solution.
  - Claymont (#69) – PER complete, no home flooding.
  - Glenover East (#70.5) - PER complete, no home flooding.





# RISK 2

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- Valuable time gets spent on projects that apparently experienced changed conditions.
  - WH-39 (Tates Creek / Wilson Downing) (#70): added to list when Tates Creek was a two lane road.



# RISK 3

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- Projects are hydraulically “disconnected” which negatively impacts cost efficiency and timeliness of project delivery.
  - Five disconnected projects harder to manage than five interconnected projects.
  - Following the Priority List numerically requires you to jump from one watershed to another.



# RISK MANAGEMENT

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- All risks can be minimized by focusing on:
  - Specific watersheds;
  - Maximizing the number of viable projects in those specific watersheds;
  - Total estimated construction cost of the most viable projects in context of Consent Decree obligation.



# “Pending” Project Summary

## (Watershed Totals and Costs)

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WATERSHED	NUMBER OF “PENDING” PROJECTS	ESTIMATED VALUE OF THOSE PROJECTS
Town Branch	11	\$70,927,000
Wolf Run	8	\$18,311,000
Cane Run	4	\$4,534,000
West Hickman	3	\$4,548,000
South Elkhorn	2	\$2,151,000
North Elkhorn	1	\$613,000
TOTALS	29	\$101,084,000



# DWQ Findings

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- All watersheds except Town Branch and Wolf Run believed to have excessive risk in being non-viable project areas for meeting the Consent Decree requirements.
  - Relatively low, per project cost estimates.
  - Spatially spread out which limits efficiencies.



# DWQ Findings

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- Town Branch and Wolf Run believed to minimize Consent Decree risk:
  - Town Branch
    - Three projects alone have estimated costs in excess of \$10 M each.
    - Five other projects > \$4.0 M each.
  - Wolf Run
    - Five of eight projects remaining in watershed drain to the same floodway.
    - Estimated, combined construction cost is \$10.0 M.



#### Remaining Projects with Drainage Basin Groups



# Focus on Wolf Run Projects Tributary to Allendale Drive

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Ranking	Project Name	Watershed	Estimated Cost
66.6	Tucson Drive	WR	\$1,833,000
71	Picadome	WR	\$1,289,000
80.3	Barkley / Southgate	WR	\$2,509,000
80.6	Longview Drive West	WR	\$2,880,000
85.5	Longview Drive East	WR	\$1,506,000

**\$10,017,000**





# MAP OF PROJECT AREAS - WATER COURSE TRIBUTARY TO ALLENDALE DR.

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# DWQ Recommendation

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- Modify past numeric order approach to Stormwater Priority Capital Project List management to ensure compliance with the Consent Decree deadline.
  - Merge projects with a defined common and spatially logical drainage point into a single project, assigning the lowest assigned number.
  - Follow numeric approach for all other projects.



# DWQ Recommendation

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- Place immediate focus on Wolf Run Watershed projects tributary to Allendale Drive.

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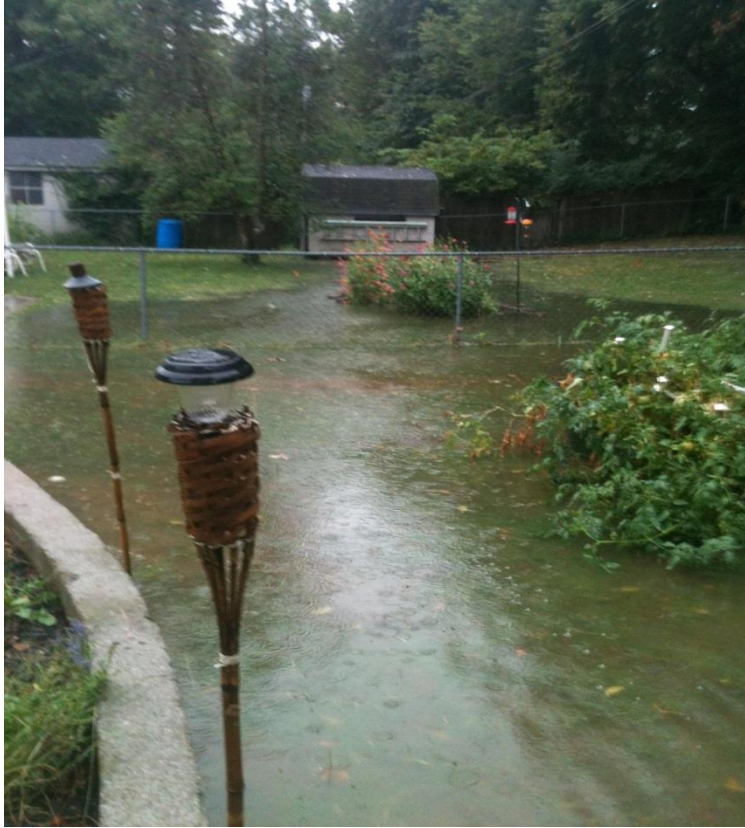
# SUMMARY

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- Over \$101 M in stormwater capital projects remain in the priority list.
- Consent Decree obligations are making past list management practices challenging.
- DWQ is recommending that list management practices be modified to minimize Consent Decree compliance risks while maximizing the overall impact to a common watershed area.







Questions?