Municipal Separate Storm Sewer System (MS4) Program Update

Pursuing Illicit Discharges to Resolve an Enforcement Action

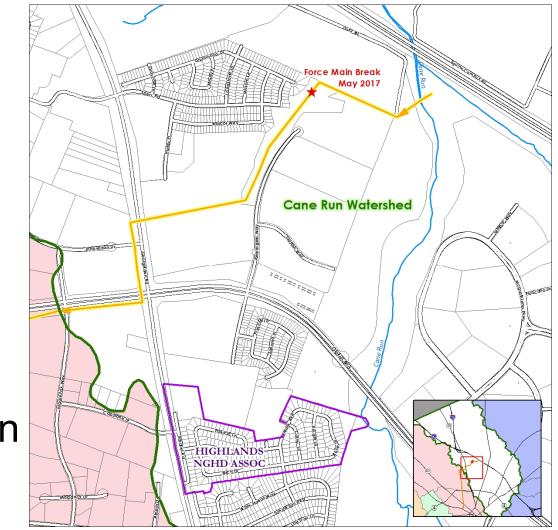
April 24, 2018





AGENDA

- Reason for the Update
 - Pending
 Enforcement
 Action
 - Permit
 Requirement
- DWQ's Recommendation
- Next Steps





Pending Enforcement Action

- In regard to intermittent releases of raw sewage from the broken Lower Cane Run Force Main during April and May 2017
- Council notifications provided:
 - Six throughout early May 2017
 - Final update on July 13, 2017
 - one still unresolved issue: the potential for a fine levied by state





Pending Enforcement Action

• State Enforcement Timeline:

State Action	Date	
Notice of Violation	May 17, 2017	
Enforcement Referral	October 24, 2017	
Request to Appear	December 7, 2017	



State's Enforcement Proposal

 Develop a written Standard Operating Procedure (SOP) to mitigate risks for future, similar incidents: <u>COMPLETE</u>

 Pay a penalty of \$17,500 or complete a Supplemental Environmental Project (SEP) with a minimum investment of \$35,000: <u>TODAY'S DISCUSSION</u>



DWQ's Evaluation of Potential SEPs

- 1. Must be environmentally beneficial and not required for compliance purposes.
- 2. Should be located in watershed where pipeline break occurred.

Option	Risks?	Rewards?	
Stream Restoration	Private property conflicts / Long-term O&M obligation / Permitting effort substantial	Well known and documented.	
Litter Management	Long-term O&M obligation / Technology limitations	Well known and documented.	
Private Lateral Pilot Program	Private property conflicts / Creating and launching a new program as a SEP	Expected to provide water quality data to determine if this program should become a long-term initiative within the stormwater quality management program.	



DWQ's Recommendation: Private Lateral Pilot Program SEP

- Fund the investigation and repair / replacement of privatelyowned sanitary sewer service laterals within the Highlands Subdivision.
 - 1. DWQ Contractors would conduct the investigations.
 - 2. Homeowners would contract with plumbers to make the repairs.
 - 3. DWQ would reimburse homeowners up to a reimbursement value based on the plumber's cost estimate.
- In the event of low participation within the project area, fund tree plantings at specific Parks locations within the Cane Run watershed.
- Spend a minimum of \$35,000 on the SEP.



Knowledge About the Neighborhood

- Homes built mid- to late-1950s
- Prevalence of Orangeburg pipe
- 2011 Sanitary Sewer Assessment found multiple properties with sewer defects via smoke testing

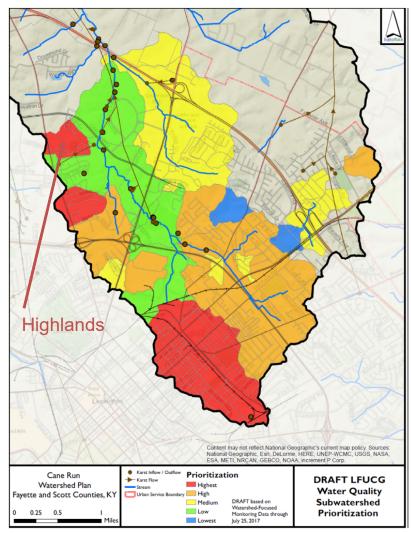






Watershed-Focused Monitoring Program Data

- Cane Run sampled from Fall 2016 through Summer 2017
- 14 monitoring events
- 10 events with flow at Highlands site
- *E. coli* 100% of Highlands site samples above water quality criteria and benchmark (>1,000 to over 230,000 colonies/100mL)



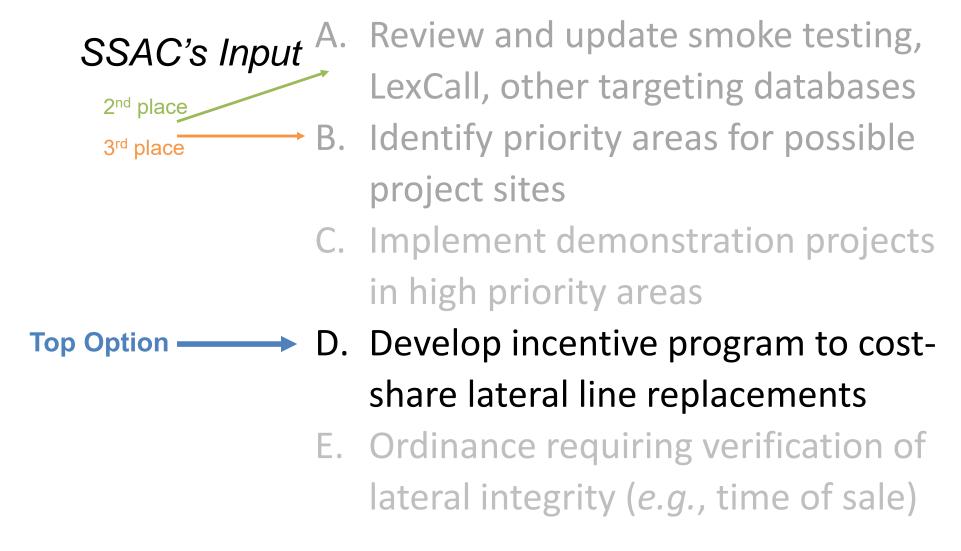


Stormwater Stakeholder Advisory Committee's

Input

Category	% Contribution	% Resources
Human	51	65
Sanitary Sewer System	23	27
Private Lateral Lines	15	24
Other Human Waste	13	14
Animal	39	27
Livestock	15	11
Domestic Pets	10	9
Urban Waterfowl	9	6
Other Urban Wildlife	4	2
Environmental / Other	10	8
Litter and Dumpsters	4	7
Bed Sed. / Slimes / Biofilms	5	2

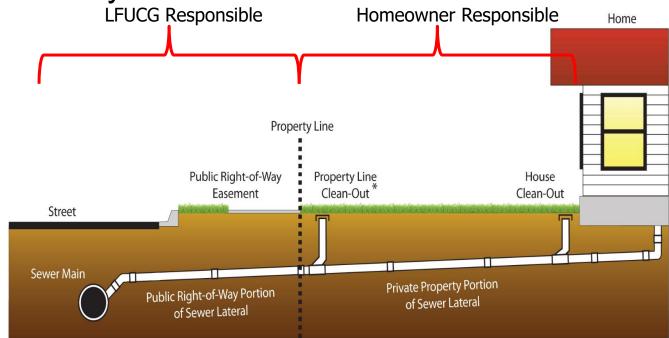






Addresses Gap Not Covered by Consent Decree

- Capital Projects to Improve City-Owned Infrastructure
- Improvements to Management, Operation, and Maintenance of City-Owned Sewers





Model the Approach Used in Previous Program

- Sump Pump Redirect Program
- Templates available:
 - Explanation of the Program
 - FAQs Document
 - Agreement to Conduct Lateral Testing





Next Steps

- Finalize SEP requirements document based on EQPW Committee's recommendations / endorsement.
- Confirm State's endorsement of SEP requirements document.
- Blue Sheet for Mayor's signature.
- Conduct neighborhood meeting and commence SEP implementation.
- Finalize data and lessons learned into a SEP Completion Report for state approval / future MS4 program development.

MS4 Annual Training – Illicit Discharges



Questions?