Evaluation of I/I Reduction Concepts

MWPAAC Engineering and Planning Subcommittee

August 2, 2018

Introduction

The Inflow and Infiltration (I/I) Program agenda item on August 2, 2018, will include a presentation and facilitated discussion to determine which, if any, I/I program frameworks should be developed into implementation plans for I/I reduction in the region. The program frameworks suggested for implementation planning will be part of a recommendation of the E&P subcommittee to MWPAAC.

I/I Discussion Agenda

- I. Purpose and Possible Outcomes
 - a. Purpose:

1) To choose program frameworks to move forward to implementation planning, and, 2) To develop a recommendation to MWPAAC.

- b. Possible outcomes: Major components of a recommendation to MWPAAC identified and next steps to refine recommendation identified.
- II. Background Context to Prepare for Facilitated Discussion
 - a. Implementation planning overview
 - b. Review E&P input from June 2018 meeting
- III. Facilitated Round Table Discussion
- IV. Next Steps and Wrap Up

Supporting Materials

Please review the following attachments in advance of the August meeting:

- **Table 1. Possible Program Frameworks for Implementation Planning.** This table provides a summary of program frameworks the E&P committee requested at the June 2018 E&P meeting be moved ahead to implementation planning.
- **Table 2. Possible Program Frameworks not for Implementation Planning.** This table provides a summary of program frameworks the E&P committee requested at the June 2018 E&P meeting *not* be moved ahead to implementation planning.

Table 1. Summary of Possible Program Frameworks for Implementation Planning			
Implementation Option	Program	Short Description	Input/R
Approach to Common Side Se	wer Standards		
Option 1	Focused regional BMP standardization	 Identify 3–5 BMPs that all agencies agree should be a regional standard; document on the WTD's regional I/I website. Voluntary or mandatory adoption and implementation of BMPs needs to be defined in implementation planning. 	 At the June 7, 2018, meeting, seven members in superior in the consider for implementation planning as a standard consider as a part of a package option of 1/4/7/9. This option addresses the prevention of I/I, not the p
Standard Regional Inspection	Training		-
Option 4	Regional inspection training program with certification	 Develop inspector training modules comprised of slides, informational materials and videos posted on WTD's regional I/I website. Implementation planning is expected to identify an outside organization/association (e.g., National Association Of Sewer Service Companies) to set up and/or conduct the program. Conduct live trainings annually at various locations with an emphasis on hands-on activities. Provide a certification for attendees; consider regional tracking of attendees/certifications. Voluntary or mandatory attendance and certification of local agency inspectors is to be defined during implementation planning. 	 At the June 7, 2018, meeting, two members in supp Consider for implementation planning as a standald Consider as a part of a package option of 1/4/7/9. Inspections for both new and existing construction v
Private Side Sewer Inspection	Program		
Combined Option 6, 7, 8, 9	Private side sewer inspection program triggered by property transfer and time frame with grant/loan program	 Side sewer inspections and repair triggered by point of sale. A requirement that properties are inspected within a certain time frame regardless of sale will also be considered during implementation planning. Side sewer inspection includes an exfiltration test and internal inspection. Role of property owner's contractor at utility inspector to be defined during implementation planning. Certifications will be provided to inspected properties, and will remain valid for a specified time frame (e.g., 20 years). Changes to county and/or local agencies ordinances, codes, and standards would be required prior to program implementation. Implementation planning would consider administration that is WTD-driven, local agency-driven, and a hybrid of (both local and WTD administration. Implementation planning will consider inspectors that are employed by WTD, local agencies, and independent contractors. Incorporation of a grant and loan program with a side sewer program is expected. Implementation would assume that a grant or loan program will be administered regionally by WTD. 	 Option 6 At the June 7, 2018, meeting, two members in sup Consider adding a time element trigger to Option Option 7 At the June 7, 2018, meeting, six members in sup Consider for implementation planning as a standary Consider as a part of a package option of 1/4/7/ Recommend combining with Option 8 and consider of administrative options (WTD-driven, local agen) Include a time trigger for inspection as well as poil Cost could be wrapped into the customer's costs of Need to consider those who have had their side set Option 8 At the June 7, 2018, meeting, six members in sup Recommend combining with Option 7 and consider of administrative options (WTD-driven, local agen) Include a time trigger for inspection as well as poil of administrative options (WTD-driven, local agen) Recommend combining with Option 7 and consider of administrative options (WTD-driven, local agen) Include a time trigger for inspection as well as poil of administrative options (WTD-driven, local agen) Include a time trigger for inspection as well as poil of administrative options (WTD-driven, local agen) Include a time trigger for inspection as well as poil of administrative options (WTD-driven, local agen) Include a time trigger for inspection as well as poil of administrative options (WTD-driven, local agen) Include a time trigger for inspection as well as poil of administrative options (WTD-driven, local agen) Coption 9 At the June 7, 2018, meeting, five members in sup Recommend combining with Option 7 as the program. Consider as a part of a package option of 1/4/7/

/Rationale from E&P Committee

support of moving forward. lalone option. /9. he reduction of existing I/I.

upport of moving forward. lalone option.

/9.

ion would be needed for a successful training program.

support of moving forward.

on 7 and removing Option 6 for further implementation analysis.

support of moving forward.

ndalone option.

/7/9.

sidering one detailed implementation analysis option that would include a variety gency-driven, and hybrid (both)).

point of sale.

sts of buying a home/mortgage.

e sewers repaired at their own cost.

support of moving forward.

sidering one detailed implementation analysis option that would include a variety gency-driven, and hybrid (both))

point of sale.

support of moving forward. rogram by definition is to be developed in conjunction with a private side sewer

/7/9. g funding – not just King County.

Table 2. Summary of Possible Program Frameworks Not for Implementation Planning					
Implementation Option	Program	Short Description	Input/Rationale from E&P Committee		
Approach to Common Side Sewer Standards					
Option 2	Scalable BMP program	Develop a full list of best-in-class BMPs, perform a gap analysis at individual agencies, and develop plans for BMP adoption and implementation at each agency.	 At the June 7, 2018 meeting, members generally expressed a desire to remove from further consideration. One comment regarding keeping the option in "parking lot". 		
Standard Regional Inspection Training					
Option 3	Voluntary regional inspection training program	Develop inspector training modules comprising slides and a materials handout posted on WTD's website as a regional resource; develop videos and hands-on training materials. Conduct a live training session within the region (attendance voluntary).	 At the June 7, 2018 meeting, members generally expressed a desire to remove from further consideration. General consensus to remove due to the voluntary nature of the program. 		
Regional I/I Support					
Option 5	Regional I/I support by WTD	WTD acts as a regional resource providing rainfall simulation toolkits, smoke testing kits, flow monitors, and rain gauges. WTD administers preferred vendor contracts to help agencies perform services (e.g., manhole and CCTV inspection, etc.).	 At the June 7, 2018 meeting, members generally expressed a desire to remove from further consideration. One comment suggesting Options 1 and 5 be linked for standardization. General statement that King County could be a clearing house for expertise. 		
Grant/Loan Program					
Option 10	Grant/loan program without inspection	This grant and loan program is administered regionally by WTD, and is available for property owners to use to voluntarily inspect, replace, and/or repair their private side sewers.	 At the June 7, 2018 meeting, members generally expressed a desire to remove from further consideration. There was only one person in support for keeping as standalone. 		