

Clean Water Plan

Making the Right Investments at the Right Time

MWPAAC Monthly Update

May 27, 2020



Clean Water Plan

Making the right investments at the right time



King County

Department of Natural Resources and Parks
Wastewater Treatment Division

Clean Water Plan Activities

Over the next few decades our region will collectively spend billions of dollars on protecting water quality. King County needs to update its wastewater plan so that we make the right investments at the right time for the best water quality outcomes.

Briefing topics:

- SEPA EIS Scoping
- Regional Engagement
- Action Development
- MWPAAC Technical Taskforce Activities
Activities

Clean Water Plan SEPA Review

- Environmental review of Clean Water Plan under SEPA is anticipated to be a non-project, or Programmatic, Environmental Impact Statement (EIS) on the Plan.
- SEPA Scoping Underway
 - ▶ Comments accepted between **May 20 and 5:00 PM on June 19, 2020.**
 - ▶ Regional Engagement Activities include:
 - Online open house to provide details about the Clean Water Plan and the issues and actions being explored.
 - Mail/email distribution of informational content



Recent and Upcoming Regional Engagement Activities

- **March 24 – External Advisory Group Meeting (note: includes 2 MWPAAC Representatives)**
- **March 25 – Webinar: Wastewater Treatment: Realities and Reinvestment (recorded and available online at: www.kingcounty.gov/cleanwaterplan)**
- **May 13 – Tribal Government Briefing**
- **May 20 – June 19 – SEPA Scoping Online Open House (available at: www.kingcounty.gov/cleanwaterplan)**
- **June 11 – External Advisory Group Meeting**

Decision Areas and Key Questions

Treatment Plants

What treatment plant and wet weather facility investments should be made?

Pollution Source Control / Product Stewardship

Are there more efficient or effective methods to address pollutants of concern than wastewater treatment?

Stormwater and Combined Sewer Overflows

What approach should be taken to address stormwater and combined sewer overflows in King County's system?

Wastewater Conveyance System

What are the best investments in collections systems to ensure sufficient capacity and improve system condition?

Asset Management, Resiliency, and Redundancy

What investments should be made to care for an aging regional wastewater system and protect the investments that have been made?

Legacy Pollution

What are the opportunities to address legacy pollution?

Resource Recovery

How should King County recover resources in wastewater?

Finance

How will regional water quality investments be financed?

Action Development

- Approximately 35 different actions in the decision areas
- Each action is a concept for future water quality investment for example wastewater treatment includes secondary, nutrient removal, advanced, and decentralized approaches to treatment
- Each action documented in an action description sheet identifying what the action is and the outcomes

PART 1: ACTION DESCRIPTION AND OVERVIEW	
Overview/Summary	<p>Example Text Implement a program to require (and potentially incentivize) new construction buildings above XXX,000 square feet to include on-site building-scale treatment technology. Implementation would be through negotiation of building code revisions with building authorities to include this requirement. Building-scale on-site treatment technology selection would be at the discretion of the developer and could include technologies such as MBR package facility, localized ecological treatment (i.e., Living Machine), low flow toilet technologies coupled with an on-site graywater reuse system, and maintenance of the on-site treatment system would be the responsibility of the owner.</p> <p>This program would aim to alleviate capacity constraints on the treatment and conveyance systems, by diverting wastewater from the municipal sewer system to on-site treatment buildings above the size threshold, particularly in areas that are projected to include densification and growth in the coming decades as well as needed expansions on the associated sewer and treatment systems.</p>
Potential Challenges and Risks	<ul style="list-style-type: none"> • Resistance from building authorities to revising building codes • Resistance by private developers/owners to additional requirements • Resistance by water providers to expansion of recycled water • Stranded assets or poorly maintained systems creating a localized public health hazard
Equity and Social Justice Opportunities	XXX equity and social justice opportunities to be integrated into the program.
Duration and Timeline	<p>A gradual implementation plan, which would allow the County to gather data to inform the implementation of a mandatory program, could consist of the following:</p> <ol style="list-style-type: none"> 1) 20XX: Include requirement in preliminary engineering report for new commercial construction (over XX,000 sf) to develop a water budget calculation, investigating potential reuse source waters and demands within the proposed building 2) 20XX: Incentivize implementation of on-site treatment with sewer service connection rebates 3) 20XX: Implement mandatory on-site reuse program
Triggers	<p>Action to be implemented when XXX occurs.</p> <p>Action to be delayed when XXX occurs.</p> <p>Action to be cancelled when XXX occurs.</p>
Key Components	<p>XX new funding source within WTD.</p> <p>X FTEs/year for program development, X FTEs/year for program management</p> <p>XX new on-site treatment systems each year (XXX by 2060)</p> <p>XXX,XXX gallons of recycled water generated each year on average</p> <p>XX impact to solids treatment requirements at centralized facilities</p>
Regulatory Considerations	<p>XXX legislative changes to Washington Administrative Codes.</p> <p>XXX legislative changes to King County Code.</p> <p>XXX collaboration with Washington State Department of Health and Washington State Department of Ecology.</p>
Partnerships	Local building authorities in high growth areas. Cities of Seattle, Bellevue, Redmond, Auburn, and Issaquah would be expected partners. Coordinate with King County Public Health.
Potential Benefits and Co-Benefits	<p>XXX flows and loads diverted from centralized wastewater treatment systems</p> <p>XXX deferral of treatment plant capacity upgrades.</p>
REFERENCES	
<p><i>Insert name and short description of source material and case studies.</i></p> <ol style="list-style-type: none"> 1. King County, "West Point Treatment Plant Peak Flow and Wasteload Projections, 2010 – 2060", 2018 2. King County, "South Plant Treatment Plant Peak Flow and Wasteload Projections, 2010 – 2060", 2018 3. King County, "Treatment Plant Flow and Loadings Study Summary Report", 2019. 4. Puget Sound Regional Council Land Use Vision (version 2) Dataset 5. San Francisco Public Utilities Commission (SFPUC) Onsite Water Reuse for Commercial, Multi-Family, and Mixed-Use Development Ordinance 	

MWPAAC Clean Water Plan Technical Advisory Taskforce

- **Membership:** Jack Broyles, Mike Johnson, Josh Pantzke, Gary Schimek, Leslie Webster, Kyle Wong
- **First Meeting April 23:**
 - ▶ Overview of the Decision Areas
 - ▶ Future Taskforce Meeting Planning
- **Second meeting – May 21:**
 - ▶ SEPA Scoping
 - ▶ Asset Management Actions
 - ▶ Treatment Plant Actions
- **Third meeting – June 5:**
 - ▶ CSO/Stormwater Actions
 - ▶ Wastewater Conveyance Actions
 - ▶ Action Evaluation Methods

Clean Water Plan Planning Activities



Proposed MWPAAC Task Force Meetings

Activities to Date & Determine Future Meeting Topics (April)	SEPA Scoping & Actions of Interest (May) <ul style="list-style-type: none"> Asset Mgmt WW Treatment 	Evaluation Method & Actions of Interest (June) <ul style="list-style-type: none"> CSO/Stormwater Conveyance 	Initial Findings of Action Evaluation (TBD)	2021 Topics TBD <ul style="list-style-type: none"> Strategies Tradeoffs 	2021 Topics TBD <ul style="list-style-type: none"> Preferred Strategy Implementation Plan
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Discussion and Questions

Steve Tolzman, Program Manager, 206.477.5459 or steve.tolzman@kingcounty.gov



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