Spring 2021

King County's Clean Water Plan

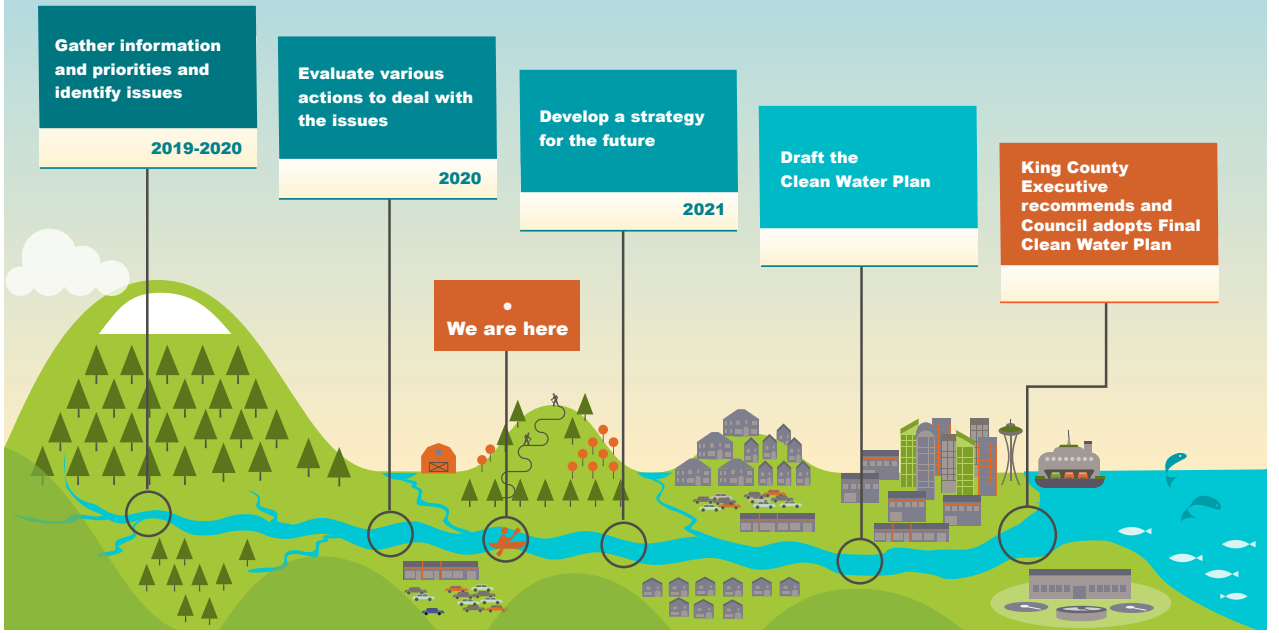
Actions Technical Workshops Content Outline

Clean Water Plan

Making the right investments at the right time

King County
Department of Natural Resources and Parks
Wastewater Treatment Division

King County's Clean Water Plan Process



Actions Technical Workshops—An Overview

Welcome

This is an overview guide to the Clean Water Plan Actions technical workshops to help you decide which, if any, workshop you'd like to attend.

King County has some tough decisions to make about the future of our regional wastewater system. These decisions will cost billions in the coming decades. So we are working on a Clean Water Plan to guide these investments.

As part of the Clean Water Plan, King County is **offering three four-hour online workshops** (in English with real-time Spanish interpretation) to share technical details about specific Actions.

Want more information – or less?

Check our website: **kingcounty.gov/cleanwaterplan** for:

- A brief **description of the process**.
- A brief **description of Actions**.
- A **technical document on Actions**, which will be updated before each workshop.

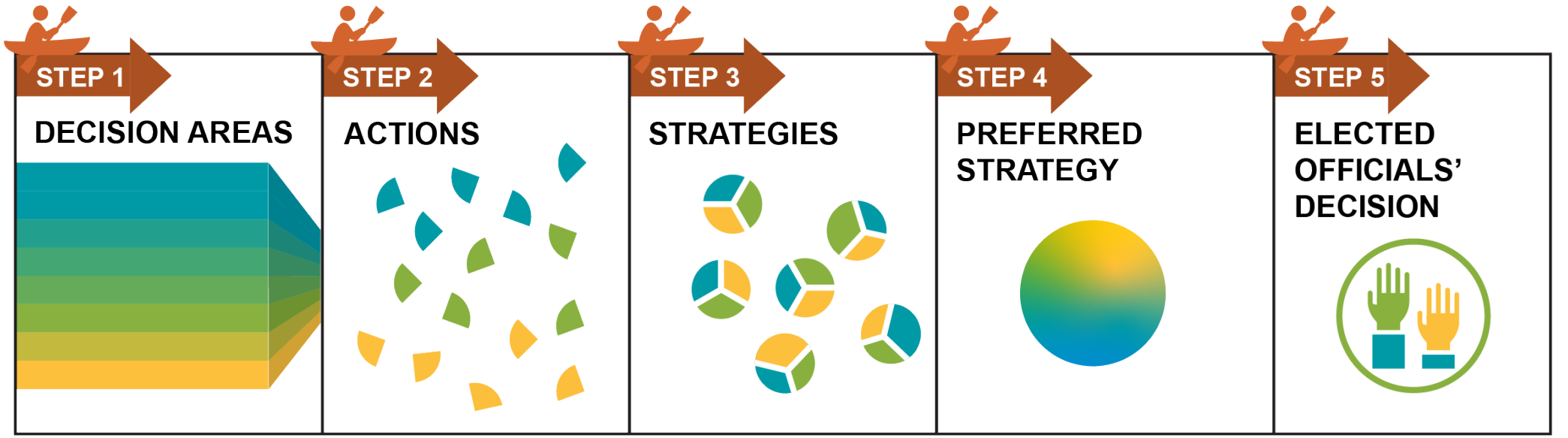
Exploring Actions

King County is using an exploratory process to create the Clean Water Plan and working with communities at every step to:

- Identify the **Decision Areas** we need to consider.
- Develop a range of **Actions** we could take for each Decision Area.
- Combine Actions into **Strategies** that address multiple Decision Areas.
- Assemble a **Preferred Strategy** for **elected officials** to consider.

Actions are specific programs or sets of projects that address one of the Decision Areas the Plan needs to consider. Actions are not standalone water quality solutions; rather, they are building blocks that will be shaped and combined in different ways throughout the planning process.

We are exploring a wide range of Actions to help inform a deeper understanding of the choices and opportunities we face. Some Actions would require significant changes in how we do things, others are consistent with our current practices.



Workshop Dates & Topics

1. **Wastewater Treatment**, 4/20
2. **Wastewater System Operations & Health**, 5/13
3. **Wet Weather Management**, 5/25

The workshops are structured around three separate but interlocking topics that address the **Decision Areas** the Plan needs to consider.

Each workshop will focus on the range of Actions that are being explored within that topic area.

Each workshop will begin with a technical overview of the wastewater system and water quality issues that will be explored in that workshop.

We'll look at **existing conditions** and concepts that inform how King County is identifying and characterizing Actions and dive into detailed technical information about the Actions being considered.

There will be time for questions.

Workshop 1:
Wastewater Treatment,
April 20

We'll begin with a technical overview of our existing treatment system, foundational concepts, and drivers and constraints that have informed the technical analysis of these Actions.

This includes an overview of:

1. Wastewater sources and characteristics
2. Levels of treatment and regulatory environment

Wastewater Treatment Actions

We will spend time digging into three groups of Actions:

- Actions that explore **regional wastewater treatment systems**, including a range of treatment levels.
- Actions that explore **decentralized treatment (smaller treatment plants in many locations)** as a way to manage the region's wastewater. This includes various concepts, from building-scale to city-scale treatment facilities.
- Actions that explore **controlling pollutants at the source**. This includes Actions that reduce or eliminate pollution before it enters the waste stream and/or water bodies.

We will give an overview of these Actions' water quality performance, conceptual cost estimates, sustainability, and community characteristics.

Workshop 2:
Wastewater System Operations and Health,
May 13

This workshop will cover four discrete but interconnected sets of Actions.

Each section will have its own introductory content that covers foundational concepts, drivers, and constraints that have informed the technical analysis of these Actions.

Wastewater System Operations and Health Actions

For each group of Actions below, we will lay out foundational concepts and drivers, and then dig into the technical details:

- Actions that explore different levels of investment in maintaining our aging sewer system and preparing for natural disasters, or what we call **asset management, resiliency, and redundancy**, and adaptation to climate change.
- Actions that explore capacity in our **wastewater conveyance** system of pipes and pumps, including investments over various time horizons.
- Actions that explore **onsite wastewater management** within the regional wastewater service area.
- Actions that explore **resource recovery**: recycling resources like energy, nutrients, organic matter and clean water from wastewater at a variety of levels of investment.

We will give an overview of these Actions' water quality performance, conceptual cost estimates, sustainability, and community characteristics.

Workshop 3:
Wet Weather Management,
May 25

We'll begin with a technical **overview of key concepts** that have informed the technical analysis of these Actions including:

- Landscape context (natural v. developed).
- Wet weather runoff sources and characteristics (impervious sources, pollutants on the landscape).
- Wet weather pathways (stormwater, combined sewer overflows or CSOs, inflow and infiltration).
- Direct sources of pollution.

Wet Weather Management Actions

We will spend time conducting a detailed exploration of the following groups of Actions:

- Actions that explore **treating more stormwater** within our existing wastewater system and **new stormwater management**.
- Actions that include **CSO control**.
- Actions that include improving the way we operate the system of pipes and pumps that bring wastewater to a treatment plant, what we call **collection system optimization**.
- Actions that include ways to address pollution from historical activities, also called **legacy pollution**.

We will give an overview of these Actions' water quality performance, conceptual cost estimates, sustainability, and community characteristics.

Workshop registration

To register for any or all of the workshops, please click here.

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