Keeping Our Waterways Clean

How KPHD’s septic & water quality programs work together to protect public health
Onsite Sewage Systems

Presented by:
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Program Manager
Our Staff
Onsite sewage systems, also known as septic systems, treat wastewater from private residences, restaurants, or other situations where flows are less than 3,500 gallons per day.
Fun Facts

- Currently, there are more than 57,000 onsite sewage systems in Kitsap
- Of those, 12,500 are alternative (not gravity or pump to gravity)
- The average age of a septic system in Kitsap is 33 years old.
New Construction

Evaluating and approving locations of septic systems in accordance with State and Local Ordinances.

Review for:

- Site conditions
- Setbacks
- Soils
- Water supply
What are we looking for?

Diagram illustrating the connection between a well, a home, a septic tank, a soil drainfield, soil layers, purification, and ground water, leading to streams and lakes.
Construction of Septic Systems
Ongoing Monitoring & Maintenance
What happens when a system fails?

- Septic designer completes failure diagnosis and submits a repair plan.
- Inspectors review and approve or work with the designer to make changes so we can approve.
- Installer takes out a permit to install the repair.
Drainfield Repairs

Staff inspected 201 repair drainfield installations in 2022.

Correcting a failing septic system that has been identified through maintenance reports or pollution identification and correction (PIC).
KITSAP PUBLIC HEALTH DISTRICT
Water Pollution Identification and Correction Program
Common Sources of Fecal Pollution

- Stormwater Runoff
- Sewage Spills
- Wildlife Waste
- Livestock/Farm Waste
- Failing Septic Systems
- Pet Waste

Illustration by Angie Berger
PIC Program Duties & Responsibilities

- Public Health Complaints & Pumper Reports
- Streams, Lakes, Beaches, Shellfish and Shoreline Monitoring
- Water pollution & septic education
- Pollution Investigations on streams, shorelines, and shellfish growing areas
- Informing the public of fecal pollution concerns
PIC Program Staff
Tracking pollution for a healthier Chico Creek watershed
A sewage spill has occurred in this area.

Avoid contact with nearby surface water.

Do not harvest shellfish from any adjacent beaches.

For more information, contact the Kitsap Public Health District at (360) 728-2235

KITSAP PUBLIC HEALTH DISTRICT

Clean Water Kitsap
2022 Water Quality Report

Protecting public health, preventing pollution
Cumulative acres of shellfish beds approved since 1995.
Public Health Stream Advisories

![Warning Sign: Stay out of stream. This stream contains high levels of fecal coliform bacteria, which indicates the presence of viruses or other pathogens that can make people sick.]

For more information on clean up plans and how you can help, contact the Kitsap County Health District at (360) 337-5236.
The Freshwater Standard

**Part 1:** Annual GMV < 100 EC per 100 ml

**Part 2:** Not more than 10% of all samples collected for calculating geomean > 320 EC/100 ml

This report notes how each stream performed under the state standard based on bacteria levels:

- **Met standard:** The stream had low bacteria levels and met both parts of the standard.

- **Met part 1 of standard:** The stream had periodic high bacteria levels and failed part 2 of the standard.

- **Failed standard:** The stream had high bacteria levels and failed both parts of the standard.
Stream Water Quality Comparison
1996 vs. 2022

- Number of Stream Stations
- 1996:
  - Meets Standard: 14
  - Fails Part 2: 20
  - Fails Part 1 and 2: 22
- 2022:
  - Meets Standard: 54
  - Fails Part 2: 11
  - Fails Part 1 and 2: 4
## Public Health Advisories for Lakes

<table>
<thead>
<tr>
<th>AREA</th>
<th>ADVISORY</th>
<th>DATES</th>
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<tbody>
<tr>
<td>Island Lake County Park</td>
<td>E. coli bacteria</td>
<td>June 10-16, 2022</td>
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<tr>
<td>Island Lake County Park</td>
<td>E. coli bacteria</td>
<td>July 8-13, 2022</td>
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<tr>
<td>Island Lake County Park</td>
<td>E. coli bacteria</td>
<td>June 24-29, 2022</td>
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<tr>
<td>Long Lake</td>
<td>Cyanobacteria</td>
<td>Aug. 16-Oct. 11, 2022</td>
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<tr>
<td>Kitsap Lake Park</td>
<td>E. coli bacteria</td>
<td>Aug. 19-25, 2022</td>
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<tr>
<td>Kitsap Lake</td>
<td>Cyanobacteria</td>
<td>Sept. 19-Dec. 12, 2022</td>
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2022 Water Quality Report

Water Quality Report Story Map