

Where does your wastewater go?

Purpose: I can reliably describe the flow of local wastewater through the constructed water cycle.

Background: So where does the water go when I flush the toilet or let it run down the sink? In the Puget Sound area, over **600 million (plus) gallons** of wastewater are produced by residents and businesses EVERY DAY!!!

Wastewater is water that has been contaminated, by human influence. Luckily, there are some systems in place to help treat this contaminated water before it enters Puget Sound. This treatment helps remove most, but not all, fecal and chemical contaminants before the water is released.

Your Mission: Track the flow of wastewater from the moment you flush your toilet to the moment the treated wastewater is discharged into Puget Sound. Included are some helpful hints to get you started.

Where does my wastewater go?

A. Documentation/References: List at least two other resources about wastewater treatment.

B. I Flush my toilet at: List your Street, City, County, State.

C. Tell the route your Wastewater takes to the Treatment Plant: Use the link to help you list each major place where the wastewater travels from your house all the way to the Treatment plant.

- http://your.kingcounty.gov/ftp/gis/Web/VMC/utilities/system_flow_11x17.pdf

1.

2.

3.

D. The Process: Using your own words explain, in detail, all parts of Brightwater's treatment process. Use this link to help you:

- <http://www.kingcounty.gov/environment/wtd/About/System/Brightwater/Process.aspx>

1. Preliminary treatment (all parts)

2. Primary treatment (all parts)

3. Membrane Bio Reactor (Advanced Secondary Treatment) all parts.

4. Disinfection

5. Reclaimed water.

6. Solids Stream: Use the Process diagram (on top of the page) to help explain the different steps in this process. (all parts)

7. Biosolids. Explain what biosolids are and what is done with this material.

8. Odor Control. (all parts) Use this link to help you:

<http://www.kingcounty.gov/environment/wtd/About/System/Brightwater/Process/OdorControl.aspx>

E. Tell the route the treated water takes to Puget Sound: Use the link to help you list each major place where the treated water travels from the treatment plant to the Sound.

- http://your.kingcounty.gov/ftp/gis/Web/VMC/utilities/system_flow_11x17.pdf

1.

2.

3.