



# WRE 2024 Summary: Westminster Summary

## Westminster Key Water Issues

Indirect potable reuse – expansion needed to accommodate 2023 buildout demand... ultimately water supply can be made available to accommodate 2023 buildout demand

## Westminster Key Wastewater Issues

Design capacity just under 2023 buildout demand

I&I is significant, but program in place to make improvements and should “regain” enough capacity to accommodate 2023 buildout demand

## Westminster Key Stormwater Issues

Stormwater isn't expected to cause any limitations for land use decisions. Stormwater is addressed through regulations and permit requirements.

## Key Action Items for Westminster

### Drinking Water Supply

- Complete PUREWater treatment facility
- Expand Cranberry WTP to accommodate additional treatment from adding PUREWater facility

### Wastewater

- Expand WWTP to 6.5 mgd to accommodate additional flows from PUREWater and other additional demands/flows

### Stormwater

- County & municipalities = co-permittees on the NPDES MS4 stormwater permit
- Memorandum of Agreement for joint projects & cost sharing

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- Strategies & Actions Items are generally shared & are same for all

## Westminster Water Supply

2023 WSA Buildout	GPD
Buildout Demand	3,412,619
Permitted	3,824,000
Capacity Needed	662,619

**Additional Water ...** While it appears that the permitted amount should be adequate to serve the projected demand, MDE's method for calculating capacity available results in additional capacity needed. (See below) In addition, capacity needed will be reduced by 500,000 gpd once PUREWater is operational.

## Westminster Wastewater

2023 SSA Buildout	GPD
Buildout Demand	3,264,445
Permitted	5,000,000
Capacity Needed	7,445

**Capacity Needed ...** While the WWTP technically appears "yellow" due to not having enough capacity to accommodate 2023 buildout demand, the capacity needed is so low that the City's existing I&I improvement program should be able to "regain" the needed capacity.

Buildout Demand Status	Municipal System	Additional Capacity Needed / Available (gpd)	Potential Actions to ↑ Capacity or Meet Buildout Demand
	Westminster	<b>-662,619</b>	<ul style="list-style-type: none"> <li>.5 mgd water reuse plant online 2027 → capacity needed ↓162,619 gpd</li> <li>Plant can expand to 1 mgd</li> </ul>

### Why is this number higher than expected?

MDE's methodology was used to calculate capacity & demand. The capacity needed comes out higher due to a couple of factors...

1. For planning purposes, 250 gpd per household is used to calculate projected water demand. However, most of Carroll's municipalities actually use less than that. Westminster generally uses 235 gpd per household, which would result in a lower number.
2. An additional 10% was added for drought demand.
3. Using MDE's method, the WTP capacity of 2.75 mgd is the limiting factor. Capacity available was calculated based on this limitation, but PUREWater will add capacity.

**Buildout Demand** is based on the **2023 Water Service Area (WSA) or Sewer Service Area (SSA)**, including the Long-Range area, and using the **zoning** in place in **2022**.

Buildout Demand Status	Municipal System	Additional Capacity Needed / Available (gpd)	Potential Actions to ↑ Capacity or Meet Buildout Demand
	Westminster	<b>-7,445</b>	<ul style="list-style-type: none"> <li>I&amp;I improvements</li> </ul>

**Capacity Needed ...** I&I represents a significant percentage of flows. The City's existing program to reduce I&I should be able to "regain" enough capacity to accommodate this need. The WWTP can be expanded if needed.

**Keep in Mind ...** These numbers are meant for planning purposes; it is not possible to be exact. Consider the magnitude of the need rather than the specific amount.