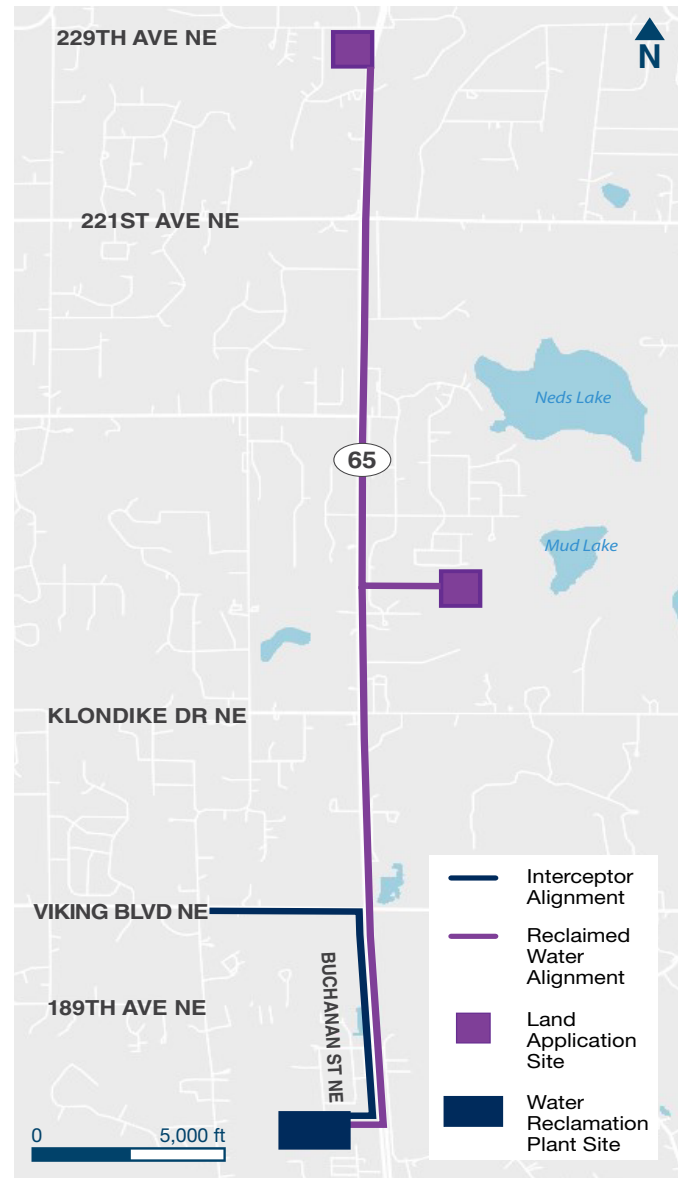




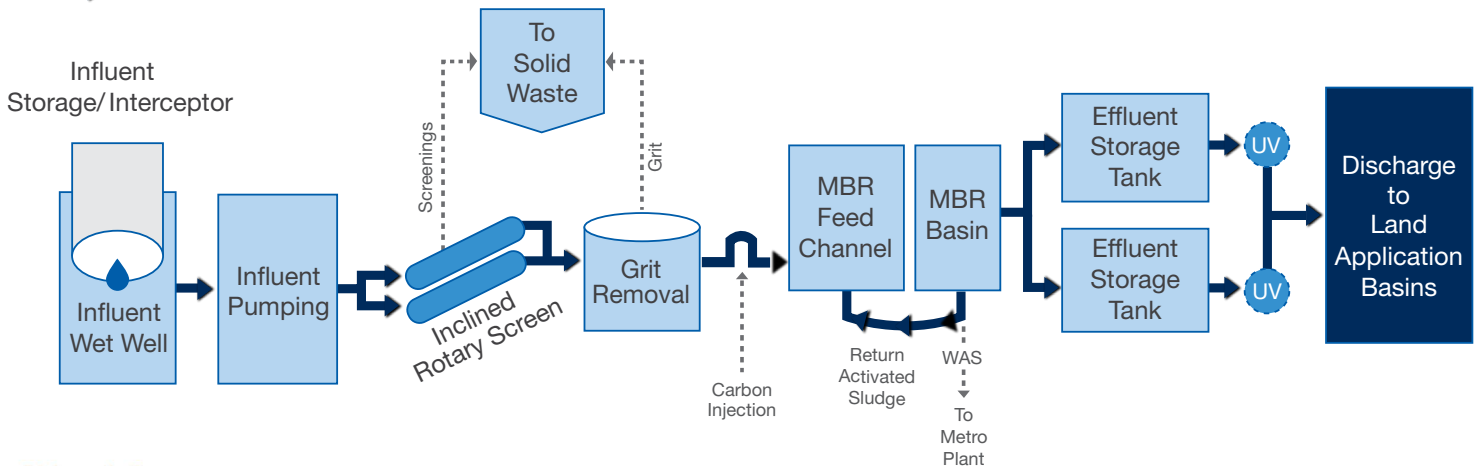
## WATER RECLAMATION FACILITY (WRF) INFORMATION:

- **Location:** 18460 Buchanan St. NE  
East Bethel, Minnesota, 55011  
651.602.8929
- **Type:** Membrane bioreactor with ultraviolet and hypochlorite disinfection
- **Design Capacity:** 410,000 gallons per day
- **Discharges to:** Land application basin
- **Current Communities Served:** 1 (East Bethel)
- **2040 Projected Population Served:** 7,380
- **Began Operations:** August 2014



## Treatment Process

➔ Main Flow Path



### Abbreviations:

**MBR:** membrane bioreactor

**UV:** ultraviolet light disinfection

**WAS:** waste activated sludge

# EAST BETHEL WATER RECLAMATION FACILITY

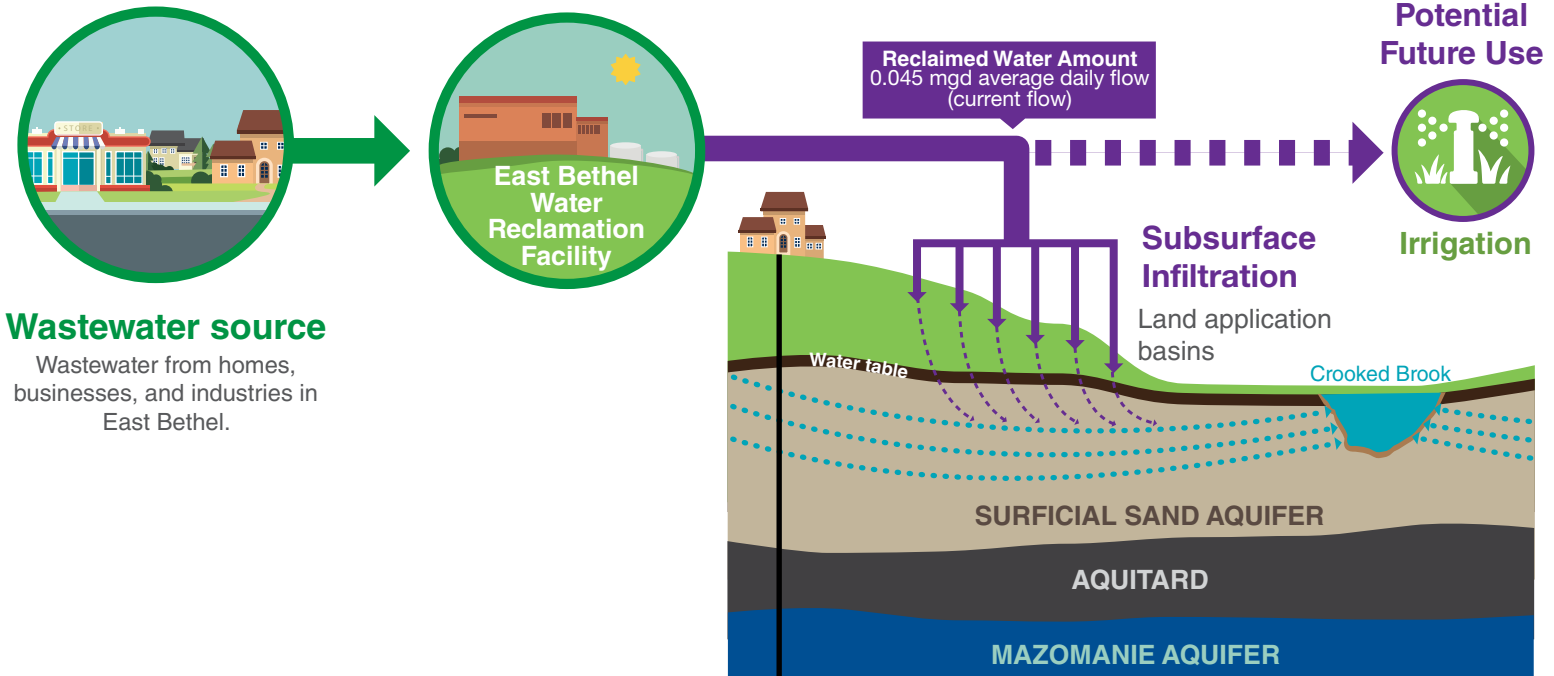
## 2019 Average Reclaimed Water Characteristics

Parameter	2019 Average Value	Permit Limit
Organic Material (mg/l CBOD5)	1.4	25 (monthly)
Turbidity (NTU)	0.09	2 (daily)
Total Nitrogen (mg/l N)	5.5	10 (monthly)
Total Phosphorus (mg/l P)	0.26	1.0 (monthly)
Disinfection Criteria (fecal coliform, most probable number per 100 ml)	<1.1	200 (monthly)

## Wastewater Collection and Reclaimed Water Distribution Process

### Treatment Processes

- Membrane bioreactors
- UV and hypochlorite disinfection



### Learn more

For more information please contact Karla Karls:

**Phone:** 651.602.8763

### MCES Mission

Provide wastewater services and integrated planning to ensure sustainable water quality and water supply for the region.