# Did You Know?

The Colorado River is in decline.

The Colorado River is in decline.

The Colorado River is in decline.

"WE ARE SORRY

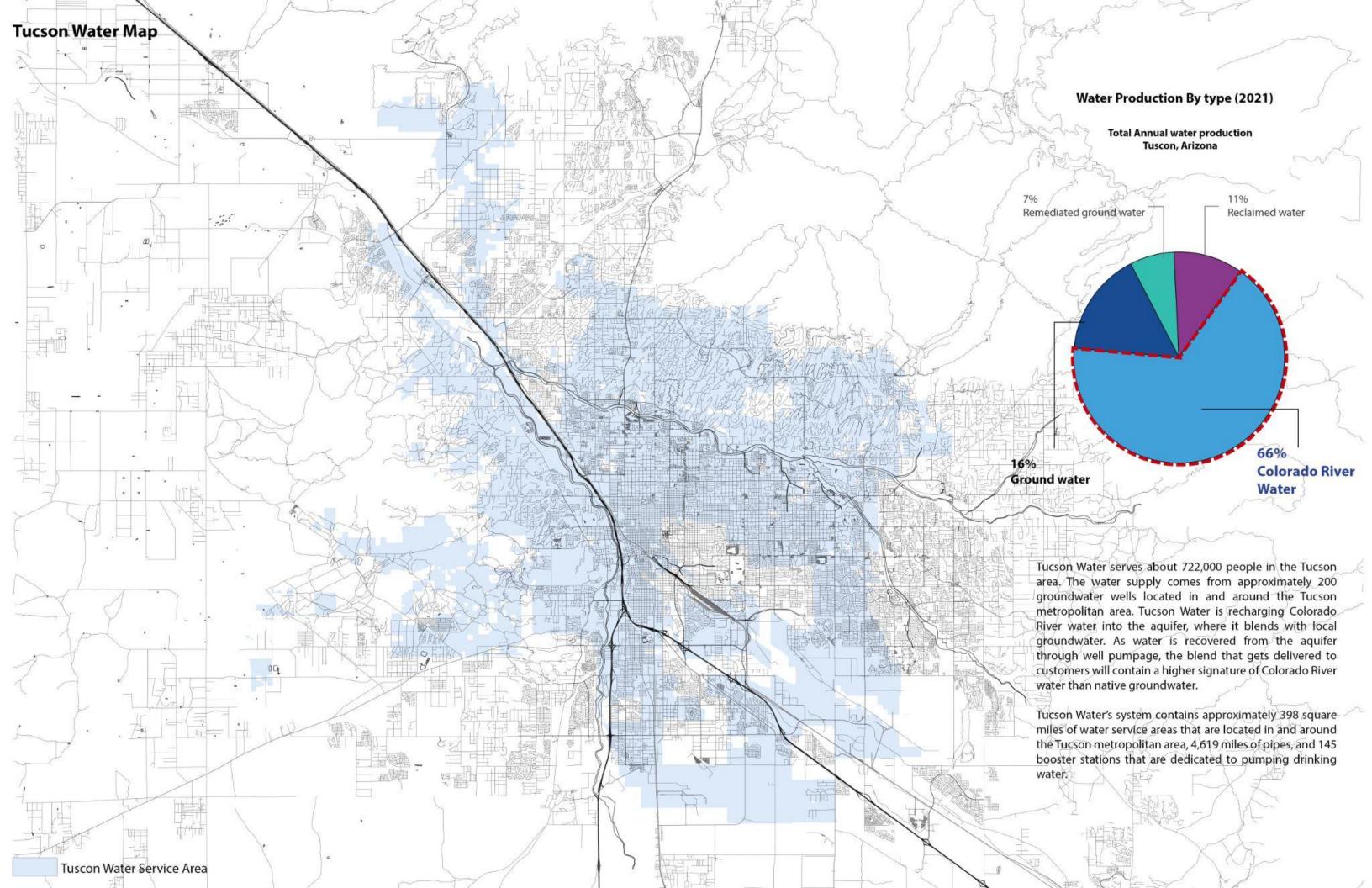
FOR THE
INCONVENIENCE.
WE RAN OUT
OF WATER!"

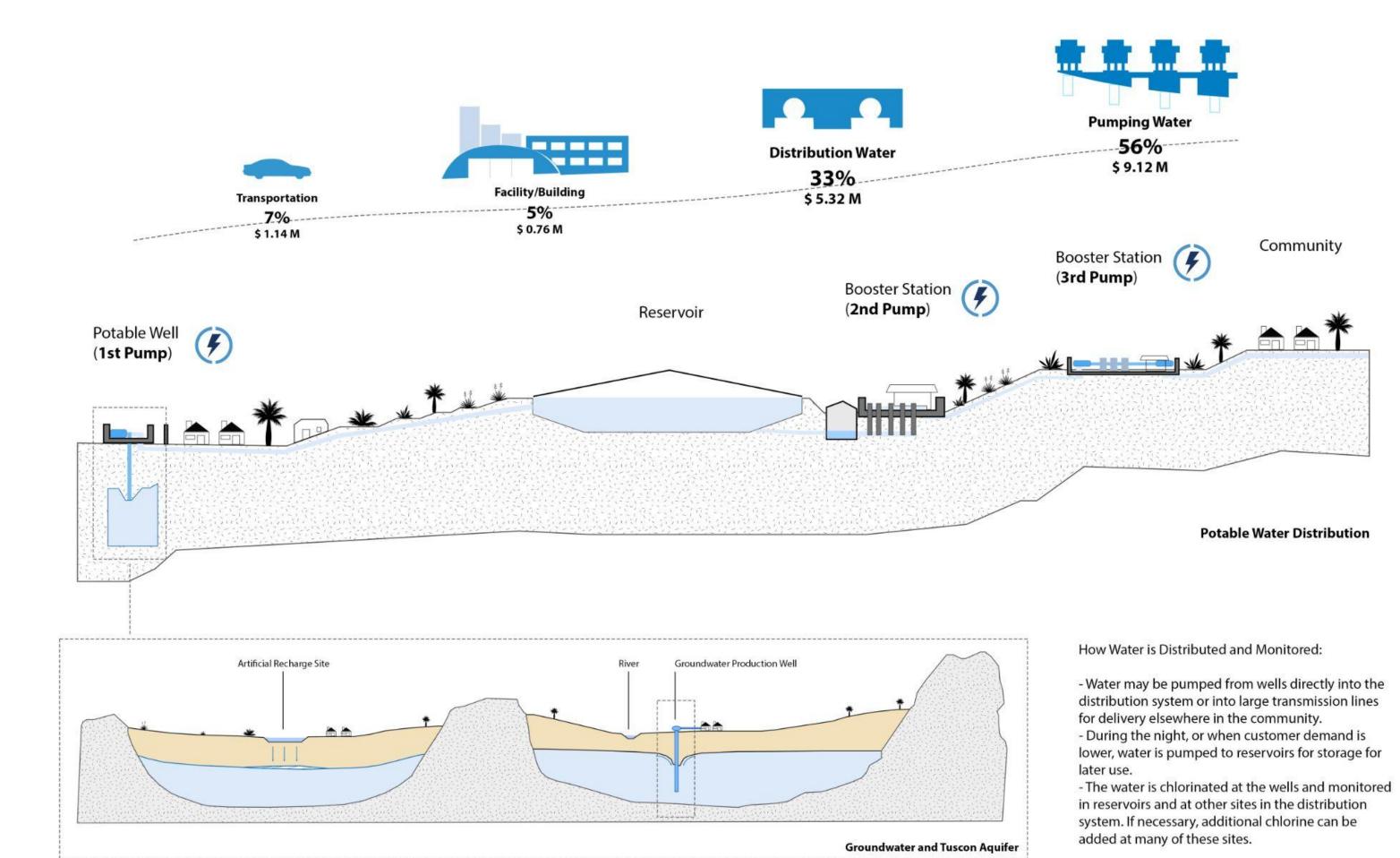
### **Current Condition**

Due to historic drought, climate change, and over-allocation, conditions on the Colorado River are worsening. Despite seeing almost average winter snowpack levels this year, projections for the inflow into Lake Powell may be closer to 50% of normal. This would compound negatively upon last year's 32% of normal inflow, the second-worst unregulated inflow into Lake Powell on record.

This is due to the warming temperatures, drier soils, and reduced precipitation caused by climate change. That means Powell is only at 24% capacity with nature replenishing less than the amount of water supposed to be released downriver to Lake Mead. What is happening at Lake Powell will then trigger declines in Lake Mead, leaving Arizona, California, and Nevada with less Colorado River water for the foreseeable future.

Year 2018 Year 2021





# What if...?

# LET THE TUCSON WATER FLOW IT DOWNHILL

It can be realized with a smaller scale

waste water facility for local community.

Recycling Black water as Potable as well...

Reducing energy for extra pumping...

Reduce expense on water conservation...

### South Pantano area, Tucson, Arizona

Suburban Ranch Zone (SR) – This zone provides for very low density, large lot, single-family, residential development and suburban ranch uses.

#### John F. Rauscher Reservoir:

To the south and west of the property are single-family residential uses zoned R-1. To the north and northwest are commercial uses zoned C-1 and C-2. To the east is City of Tucson-owned property, which is partially vacant, undeveloped land, but has a municipal center with library, City Police department, and City vehicle refueling facility. Primary vehicular access to the project site is from Harrison Road through an existing gate.

## How?

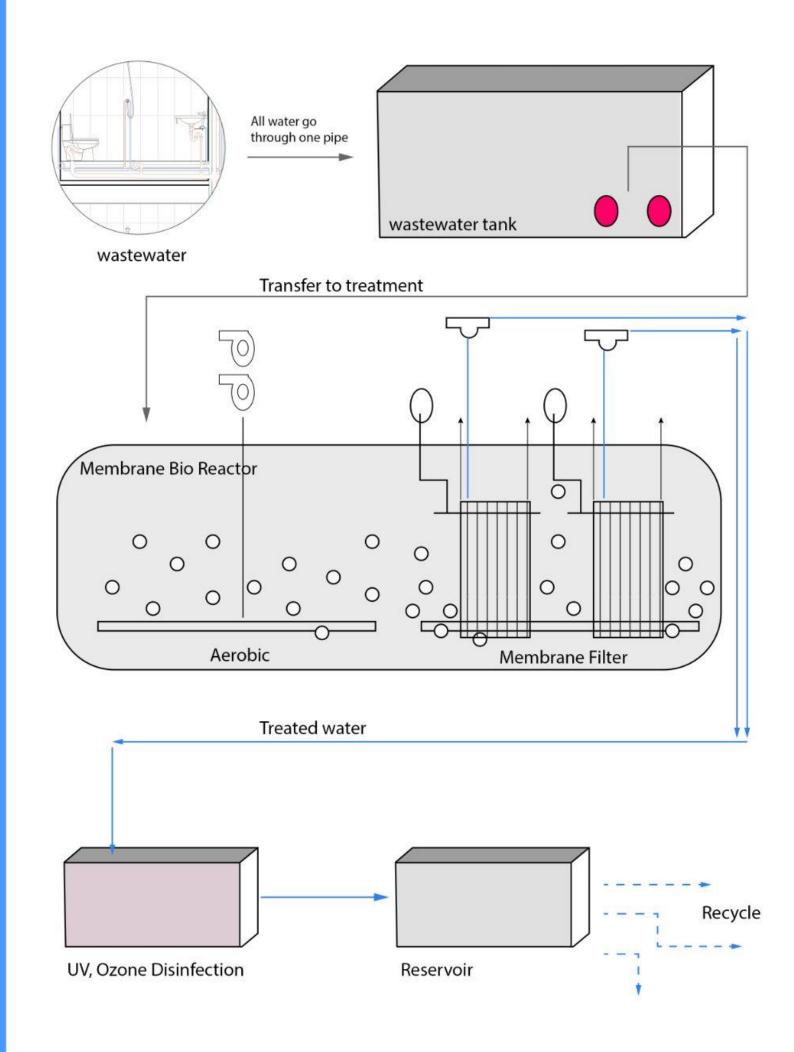
water treatment technology like

# MEMBRANE BIO REACTOR OZONE DISINFECTION

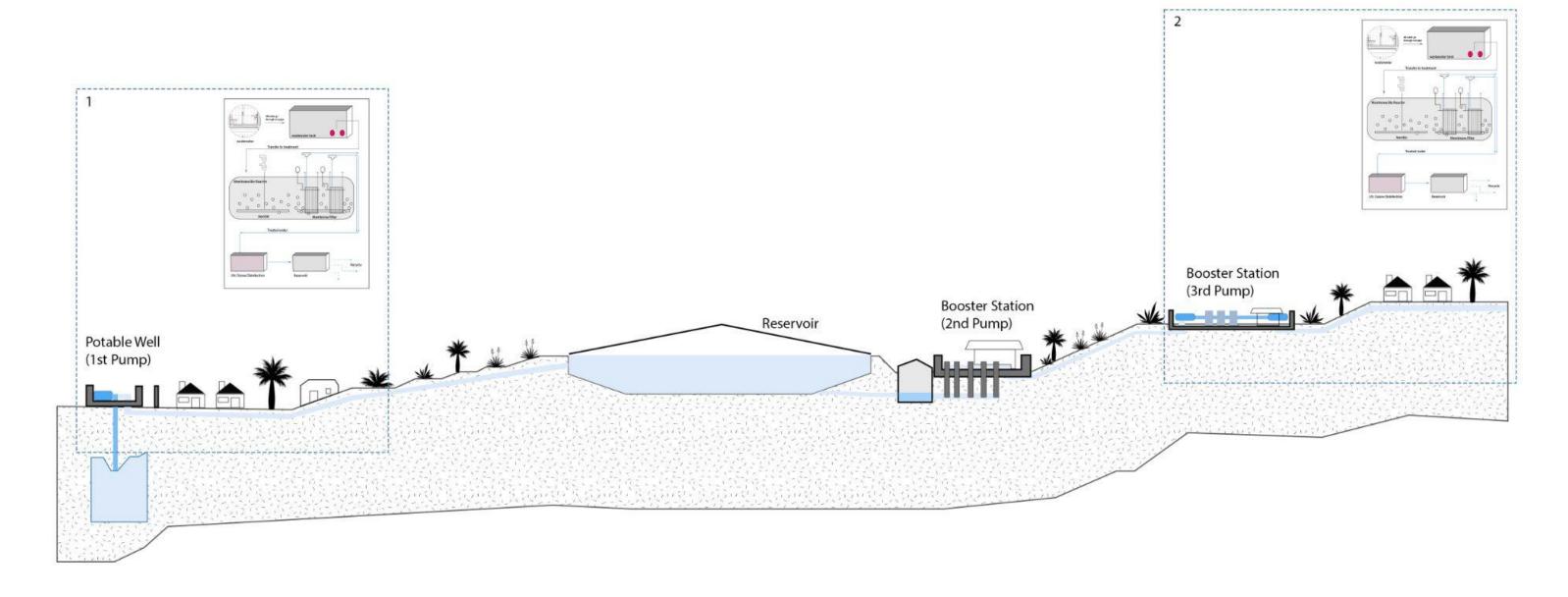
can process all black water and grey water

to provide clean water.

of sustainability...
lowered overall energy consumption...



## What if ...?



## Proposal:

- Combine small wastewater treatment into spot near community
- Place them in downhill and uphill of the community
- Collect all black water and grey water, process and recharge clean water back.
- Reduce extracting groundwater and Colorado River resource
- Reduce pumping energy and money, reuse every type of water

