

# SOUTH JORDAN CITY – DPR DEMONSTRATION PROJECT

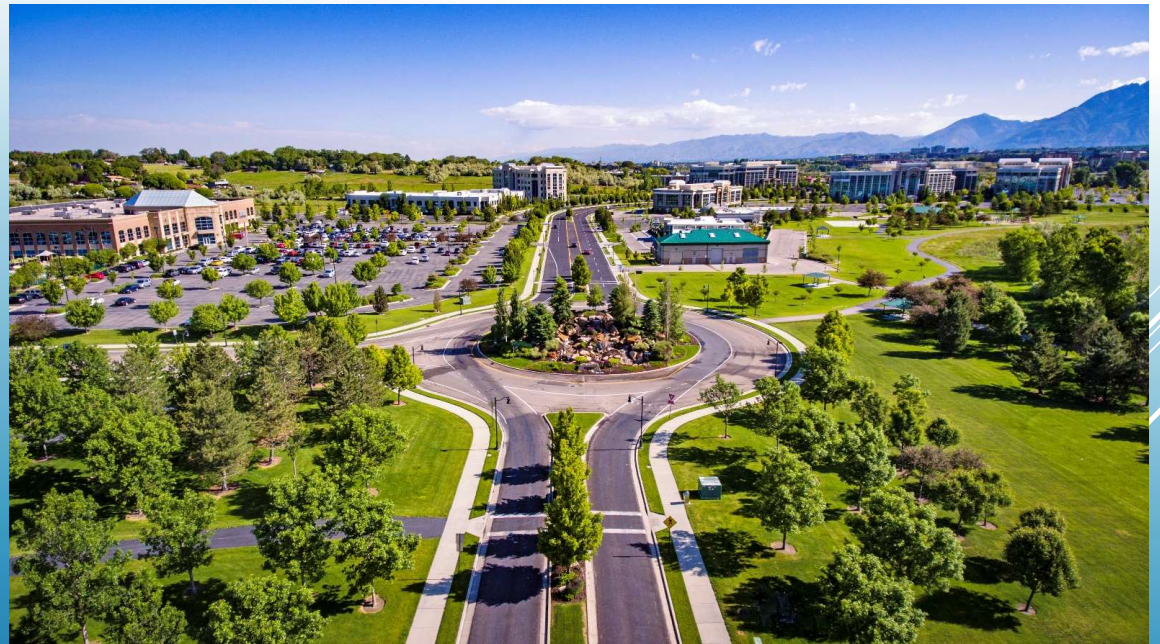


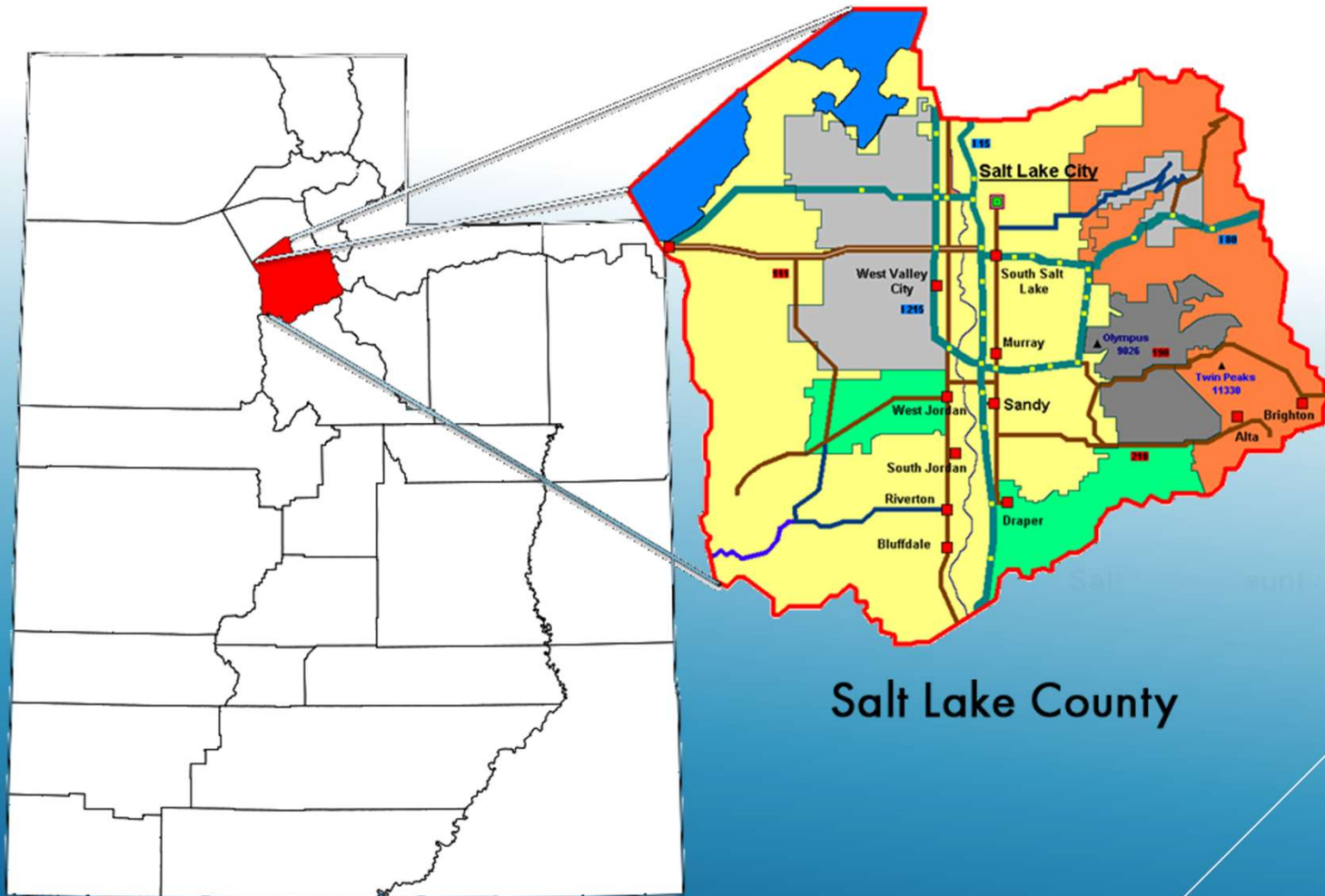
**PureSoJo**  
safe · reliable · sustainable

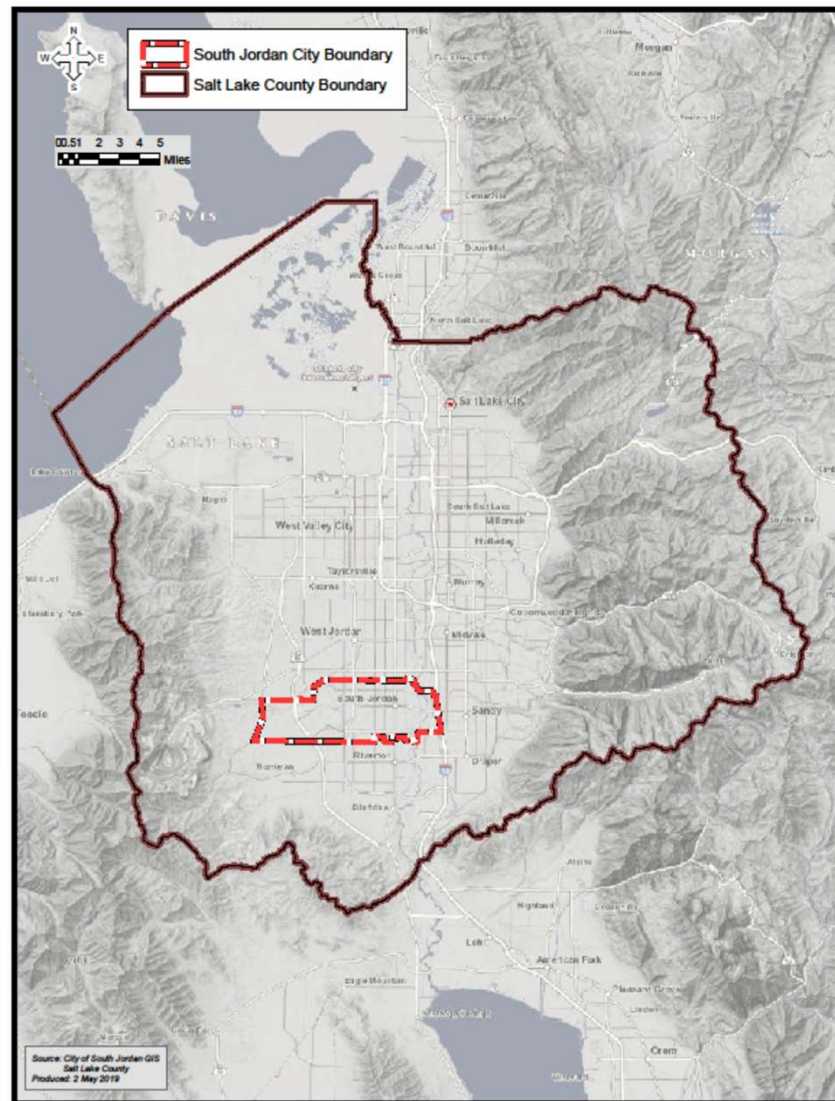
Arizona Reuse Symposium – July 29, 2019

# SOUTH JORDAN CITY

- ▶ Incorporated in 1935
- ▶ 22.1 square miles, situation in the southwest area of Salt Lake County
- ▶ Current Population: 73,667









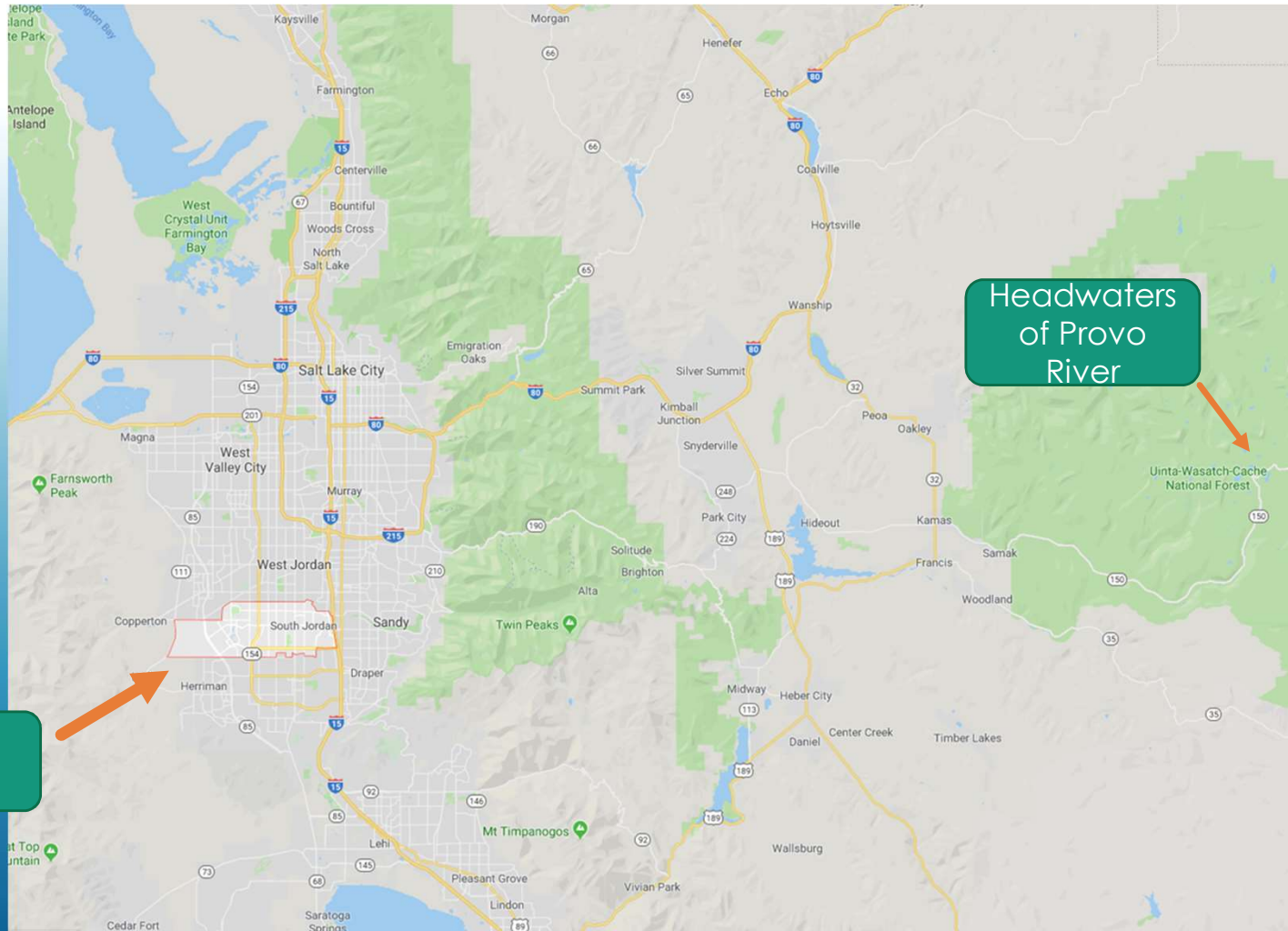
# SOUTH JORDAN CITY – WATER SOURCES



**Drinking Water** – purchased from regional water supplier, majority of water comes from the Uintah Mountain Range/Provo River system.



**Irrigation Water** – separate system that serves 18% of homes in the City for landscape irrigation.



South  
Jordan

Headwaters  
of Provo  
River



# SOUTH JORDAN CITY

- ▶ Ground water contaminated from mining tailings
- ▶ No local drinking water supply

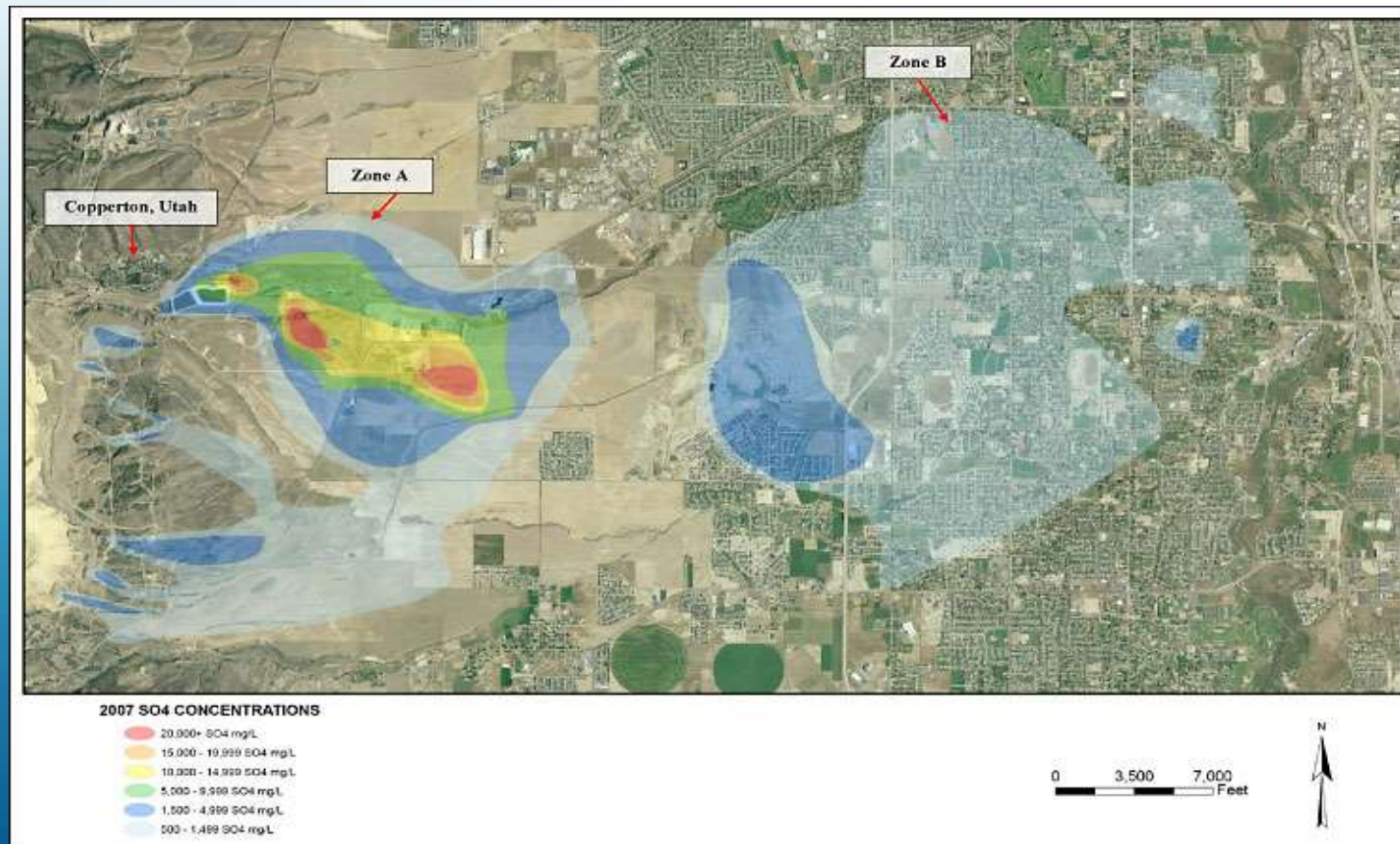


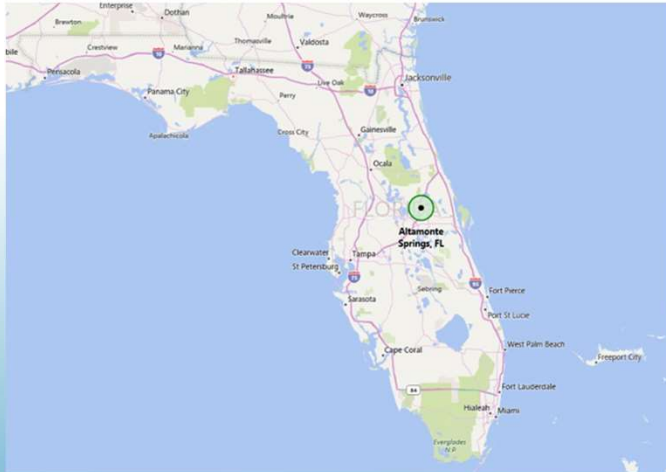
# REUSE FEASIBILITY HISTORY – SOUTH JORDAN CITY





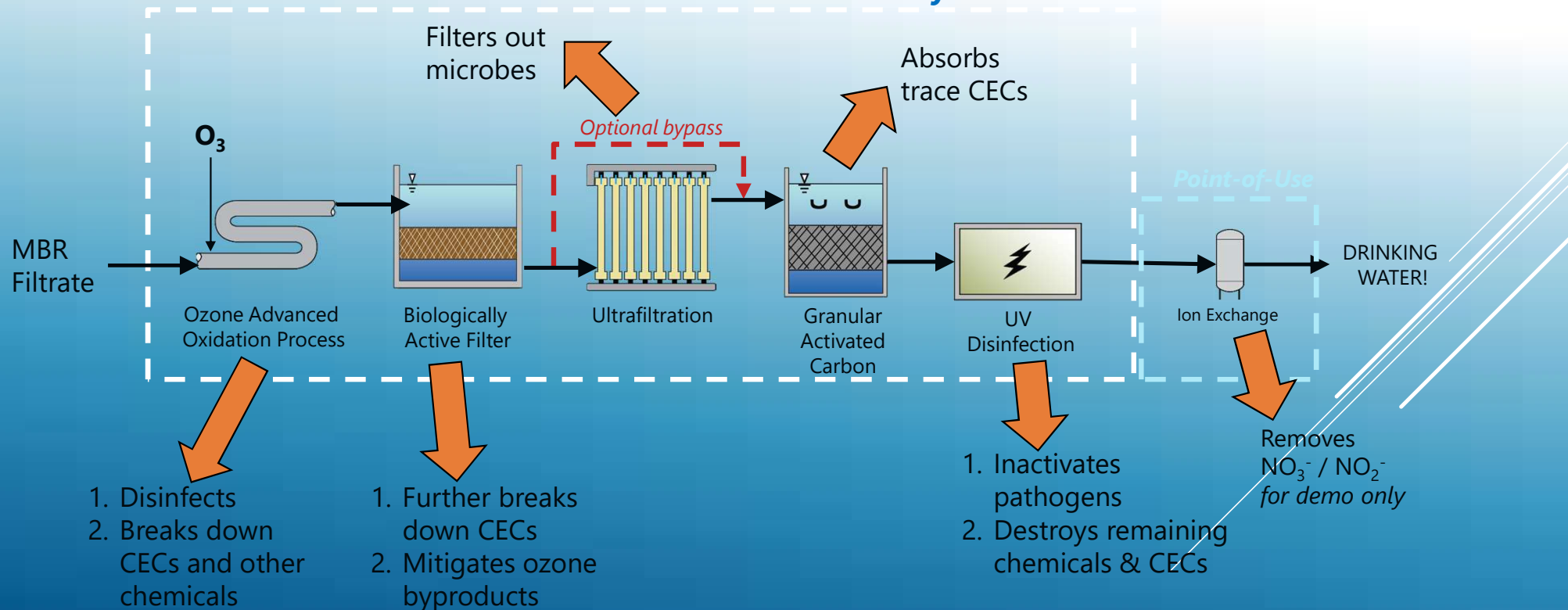
# MAP OF TWO PLUMES





# ADVANCED TREATMENT AT SOUTH JORDAN DPR DEMO DESIGNED FOR WATER QUALITY AND OUTREACH SUCCESS

## Demonstration Project Processes





# BENEFITS, OPPORTUNITIES & CHALLENGES OF A WATER REUSE DEMONSTRATION PROJECT IN UTAH

## ■ **Benefits:**

- Evaluate an alternative water supply for different purposes
- Evaluate a new treatment option for drinking water
- DPR Provides:
  - additional supply
  - supply independence
  - drought resilience



# BENEFITS, OPPORTUNITIES & CHALLENGES OF A WATER REUSE DEMONSTRATION PROJECT IN UTAH

## ► Opportunities:

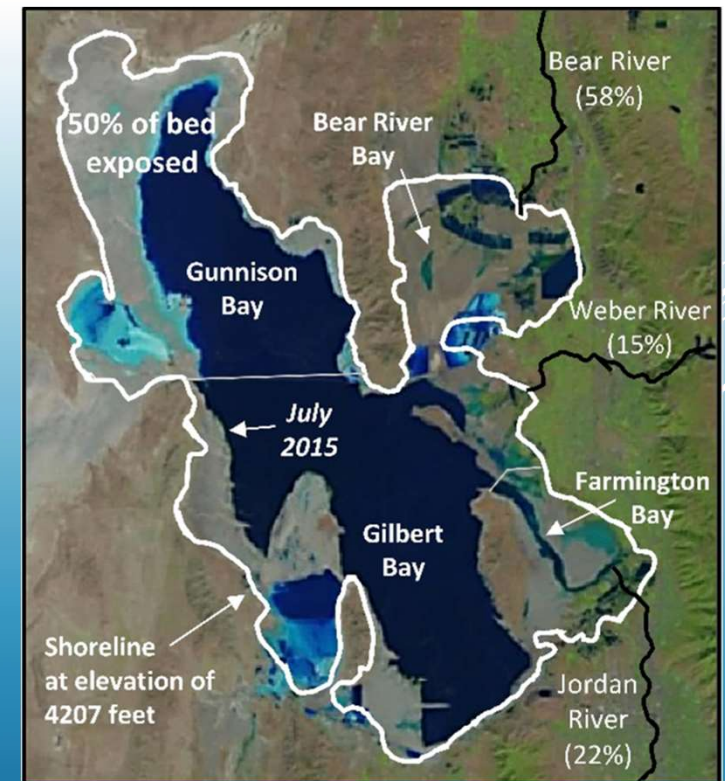
- **Educate** state officials, water managers, kids and the general public on the **topic of water reuse** and the **technology behind water purification**
- Collect and share water quality data with state officials, forge a regulatory path
- Long-term planning for water supply



# BENEFITS, OPPORTUNITIES & CHALLENGES OF A WATER REUSE DEMONSTRATION PROJECT IN UTAH

## ► Challenges:

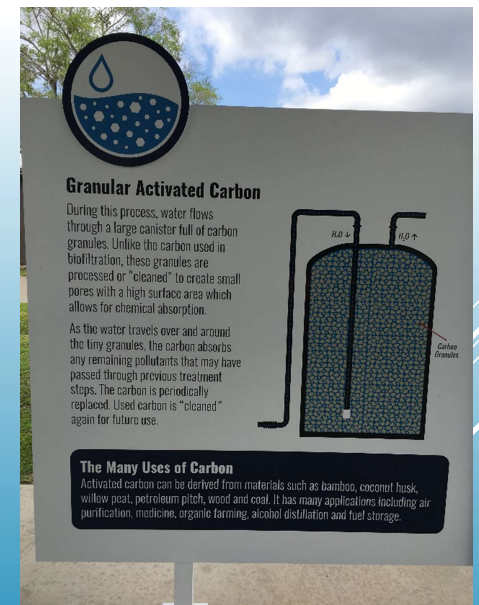
- Public Perception
- Long-term: Interests from different parties in flows affecting the Great Salt Lake
- Regulation





# DEMONSTRATION PROJECT COSTS

- ▶ **Total project cost = \$2.1M**
  - ▶ Building
  - ▶ Pipe work from wastewater treatment plant
  - ▶ Water treatment equipment
- ▶ Funding received from State of Utah for construction of project



# SOUTH VALLEY SEWER PROPERTY



Jordan Basin Water Reclamation Facility – Riverton, UT

# DEMONSTRATION PROJECT TIMING

Summer/Fall  
2019

- RFP sent out for final demonstration facility design

Fall/Winter 2019

- RFP sent out for facility construction

Summer 2020

- Facility completed and operating