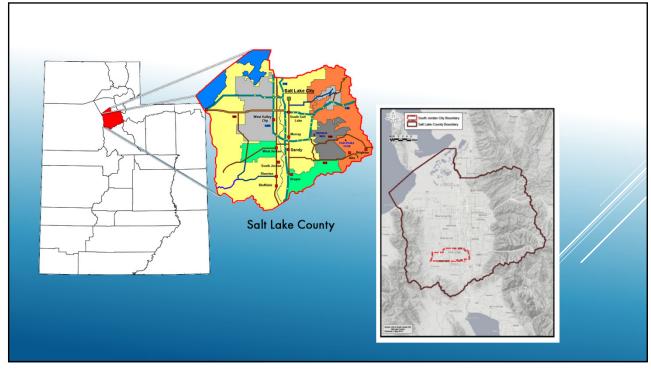


SOUTH JORDAN CITY

- Incorporated in 1935
- > 22.1 square miles, situated in the southwest area of Salt Lake County
- Current
 Population
 89,142+







SOUTH JORDAN CITY – WATER SOURCES



Drinking Water – supplied from Jordan Valley Water Conservancy District.



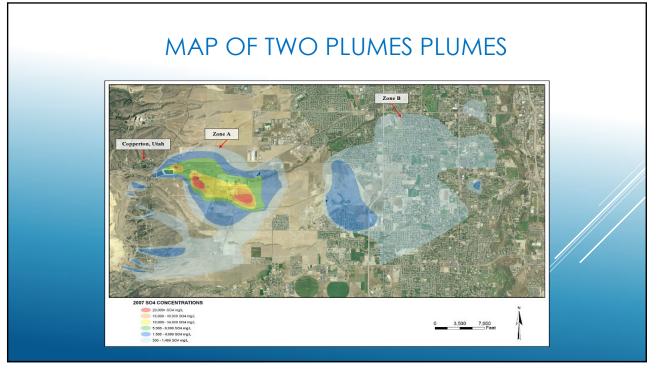
Irrigation Water – separate system that serves 15% of homes in the City for landscape irrigation.

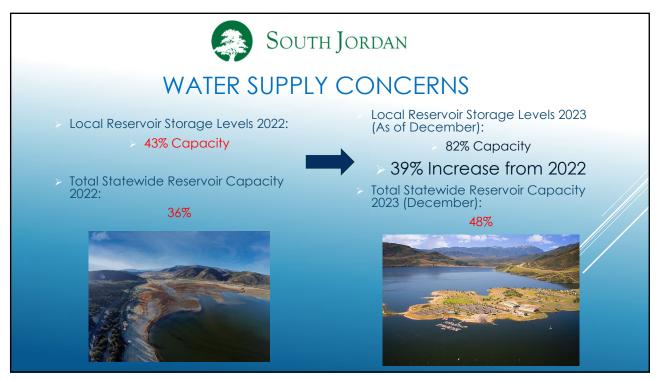
5

SOUTH JORDAN CITY – WHY POTABLE REUSE?

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







SOUTH JORDAN CITY – WHY POTABLE REUSE?

Water recycling
 can be part of the
 answer for
 meeting water
 demand needs
 throughout the
 state



9

WATER CONSERVATION EFFORTS

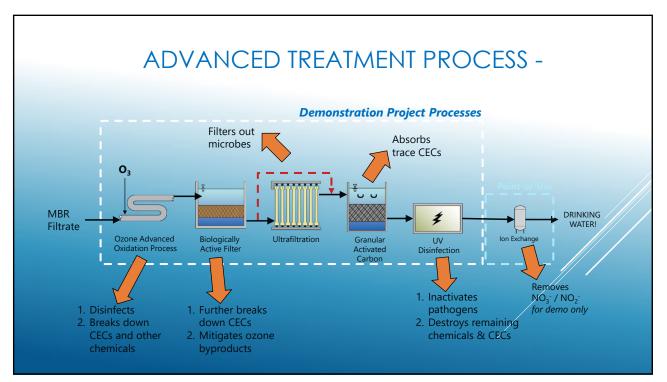
- Turf Removal Nearly 62 Olympic-Size Tennis courts
- Many rebate programs available
- > Advanced Metering
 - > Leak Detection
 - Targeted Education
- Converting City owned park & Park Strips

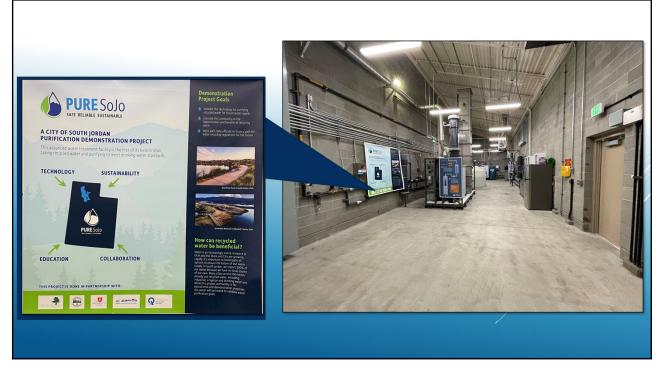


WHAT IS PURESOJO?

- Demonstration project that treats wastewater effluent from the Jordan Basin Water Reclamation Facility to meet drinking water standards
- Processing 10 gpm through an advanced water treatment train







OZONE/BIO-FILTRATION



Ultrafiltration

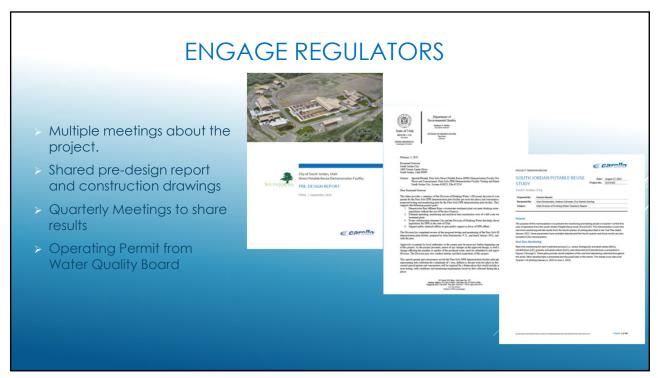




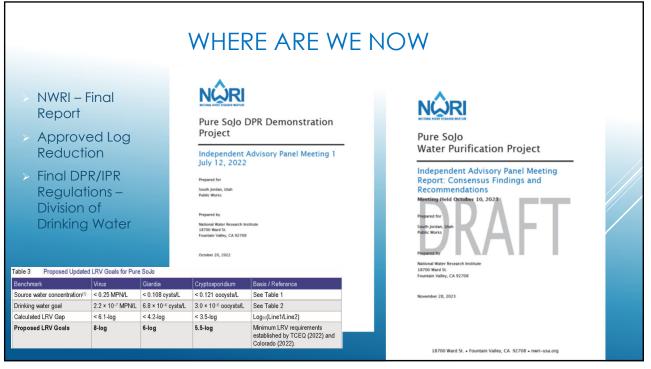


WHY CBAT TREATMENT PROCESS

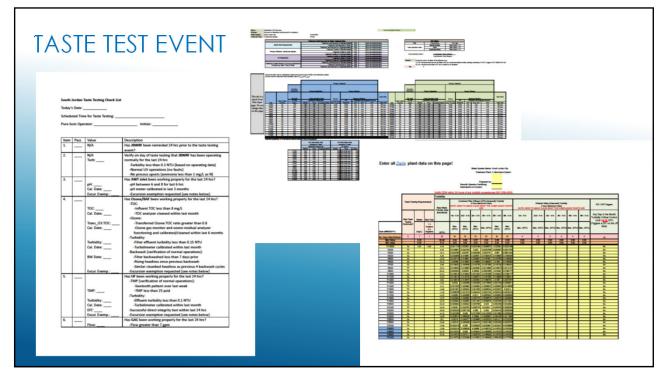
- Visited many different Reuse projects.
- > Difficulties for RO waste stream.
- > Lower energy costs.
- > Proven Technology













FIRST YEAR CHALLENGES

Operators

- Understand the Equipment Components, Backwashes, integrity test, etc.
- > Understand the Process
- > How to respond if something is out of normal
- > Change in operators

Calibration

- > What\When\How calibration is needed
- > Material needed for calibration
- > Documented alarms and the fix
- > Shutdowns\Alarms
 - > Documented alarms & fix
- Maintenance
 - > Tubing replacement
 - > Lamp replacements
 - > Cleaning of equipment Pumps, TOC Analyzer, CIP fro Ul



FIRST YEAR CHALLENGES

Manufacturers

> Build a relationship with them.

> Trouble shooting problems

Document

- > Can be a reference in future (full scale)
- Cross Train Employees
 - Always have someone to monitor\maintenance the plant.
- > Aging Chlorine purchased smaller amounts
- ➢ Nitrates
 - > Added an Analyzer
 - Ion Exchange Unit

23



FIRST YEAR CHALLENGES

- Distributors
 - > Contact for information
 - Calibration Contracts
 - > Replacement Parts
- > Bidding
- > GAC disposal
- > Removed Media from BAC
- > Ion Exchange Media
- > SCADA Programming
 - > Scaling analyzers
 - > Sequence of shut downs if equipment a

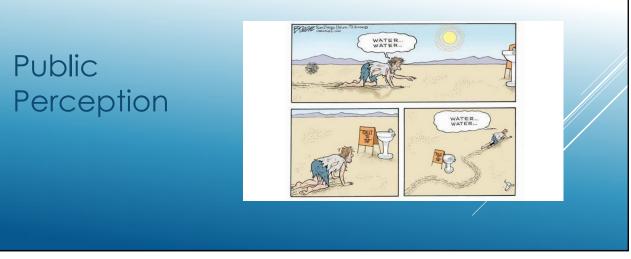
SITE VISITS – LOCAL LEADERS & U.S. REPRESENTATIVES

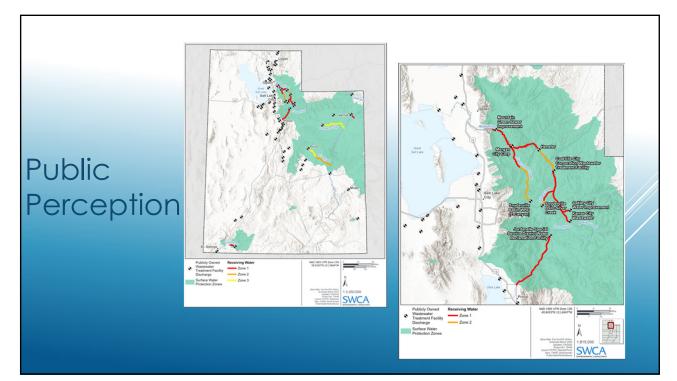


25



CHALLENGES OF A WATER REUSE DEMONSTRATION PROJECT





<section-header><section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item>

29







