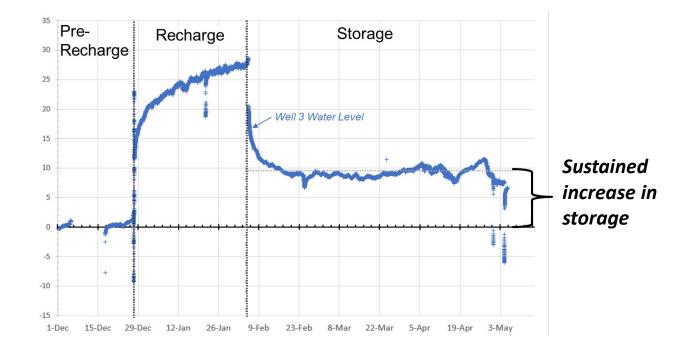


Presentation Outline

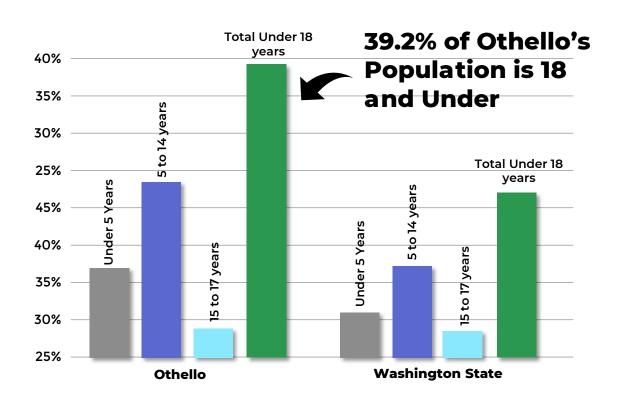
- → Background on the City of Othello
- → Water Supply Planning & How ASR Fits in
- → Milestones and Current Status
- → Planning and Next Steps

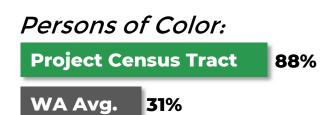




Othello Demographics

- → Median Income Below State Average
- → Child Poverty Rate 3x State Average
- → 88% Persons of Color







Othello's Water Supply Issues and Objectives

- → 100% reliant on rapidly depleting groundwater supply
- → Ensure our community has access to reliable clean water supply
- → Provide for economic vitality (we are a home to regional ag processors)
- → **Mitigating** environmental disparities
- → Resilience to drought







We Have a Critical Need to Diversify Water Supply for Future Sustainability

Othello's Water Supply Issues and Objectives

- → Wells in Wanapum Basalt have experienced long term decline
- → Immediate and long-term solutions needed



1930 1940 1950 1960 1970 1980 1990 2000 2010 2020

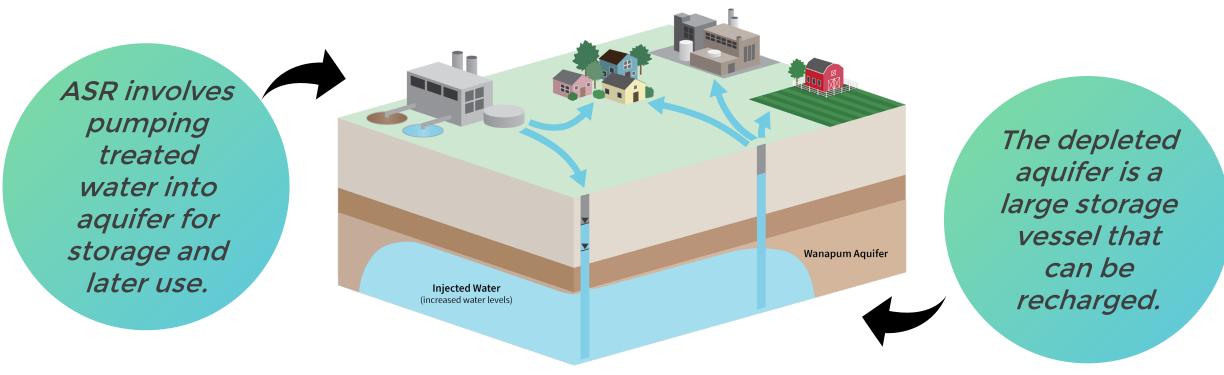
Water Supply Strategy Advancement

→ Development of Water Supply Sustainability Strategy

Short-term: Optimize groundwater capacity (completed)

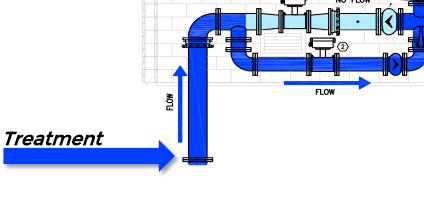
Long term: Diversify water supply source options

→ Optimize Seasonally Available Surface Water through Treatment, Direct Use, and Aquifer Storage and Recovery (ASR)



Othello's Water Supply Strategy ASR Overview





Recharge Water Level

Current Water Level



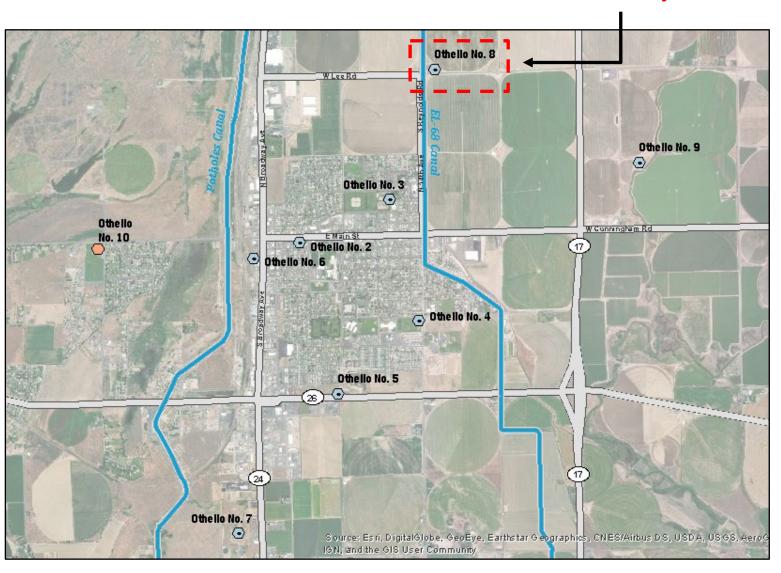
- → Sustainable groundwater use & reliable production
- → Benefit to all local groundwater users (rural, agriculture, industrial, etc.)

ASR Program Development

- √ Feasibility Study
- ✓ Evaluate Source Options (City Funded)
- √ Feasibility Study (OCR Funded)
- ✓ Phase 1 Testing (OCR Funded)
- ✓ Initiate Permitting
- ✓ Phase 2 Testing (OCR, Commerce, and City Funded)
- ✓ Treatment System Predesign (Commerce Funded)
- Design
- □ Construction

City Wells and Phase 2 Test Site

ASR Phase II Pilot Test Injection Site



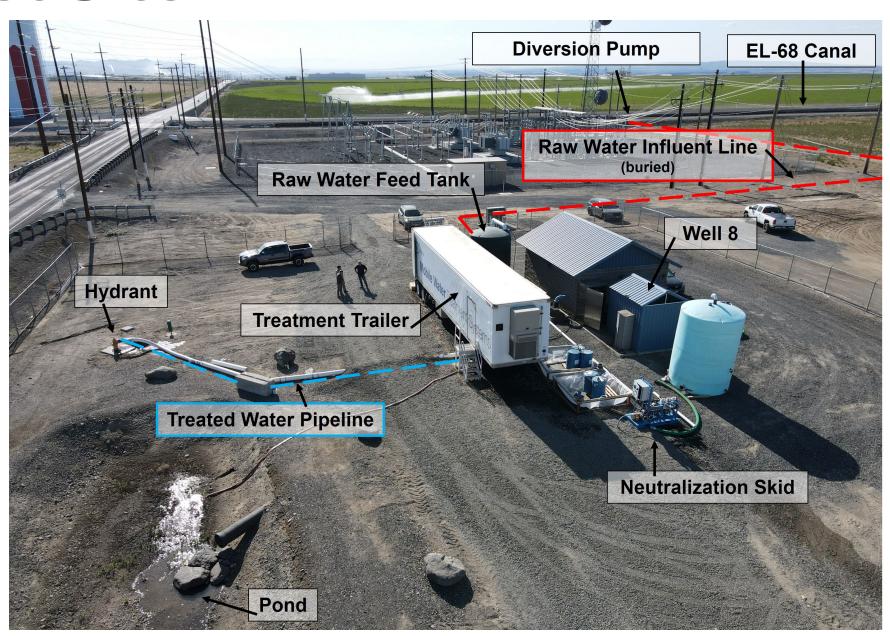
City Wells and Phase 2 Test Site

- → Demonstration-scale (330 acre-feet recharged)
- → New Temporary Canal Diversion
- → 1 MGD Ultrafiltration System



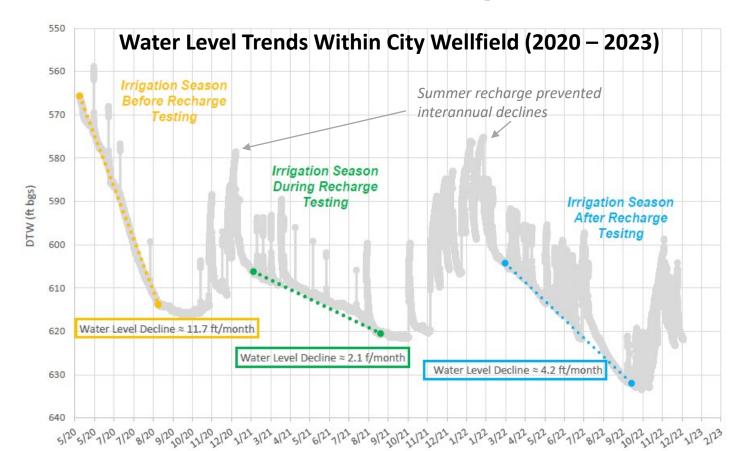
Phase 2 Test Site

→ Significant infrastructure required for program testing



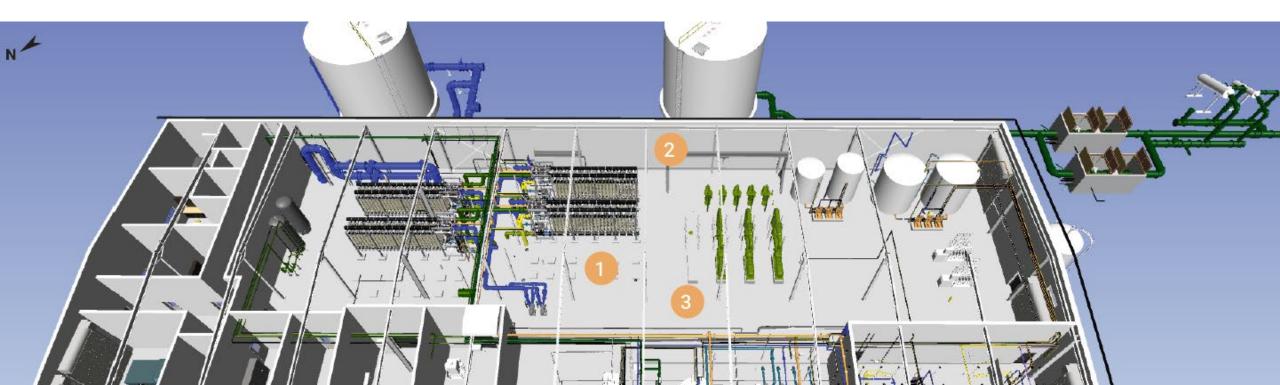
Positive Phase 2 Test Results

- → Recharge during high demand irrigation season (summer)
- → Water levels increased at recharge well and remained elevated
- → Summer water level decline in aquifer drastically reduced



Next Steps: Treatment Facility

- → Recent CB Project improvements made source water available
- → Treatment System needs flexibility, expandability, easy of use
- → Ability to expand for future reuse of food processor water



Cost Estimates for Initial Treatment Capacity

Current need is funding for Phase 1 Buildout—with initial capacity of 3 MGD:

\$0.4M Predesign Phase **In-Progress**

\$1.4M

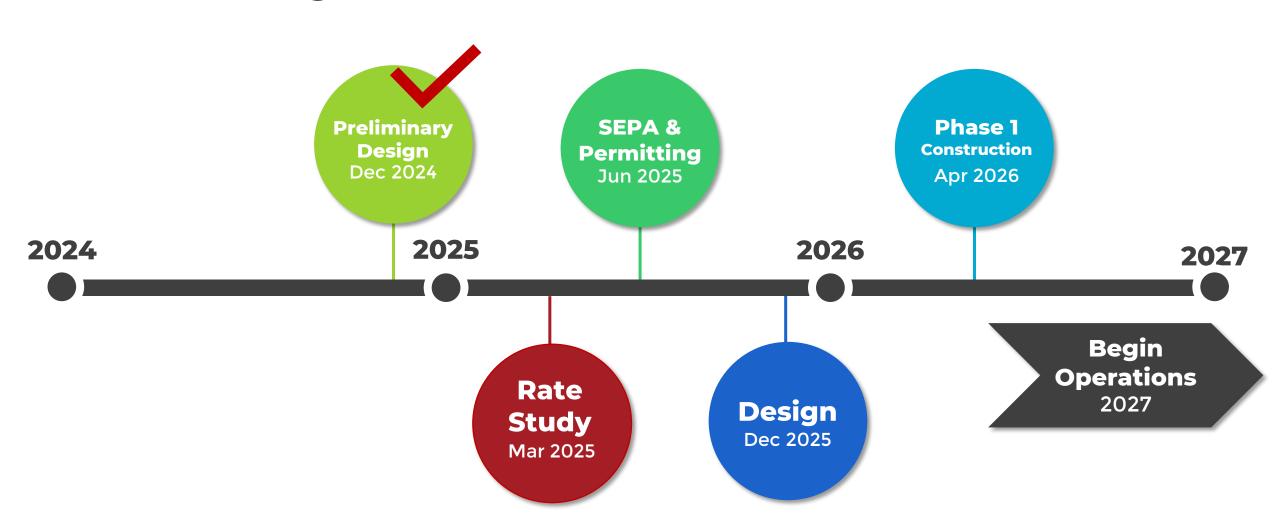
Design

Phase

\$14M+
Construction
Phase

X Annual O&M: \$252,000

Delivery Timeline



Future Phases

How we'll scale our modular facility in the future...

What we need now

2027

3 MGD WTP design and construction

direct supply and initiate ASR

What we'll do next

2025+

Reuse planning & WTP modifications

reuse or increased diversion

Where we're going

2030+

Year-round treatment / higher capacity

expand ASR operations

Thank You!

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