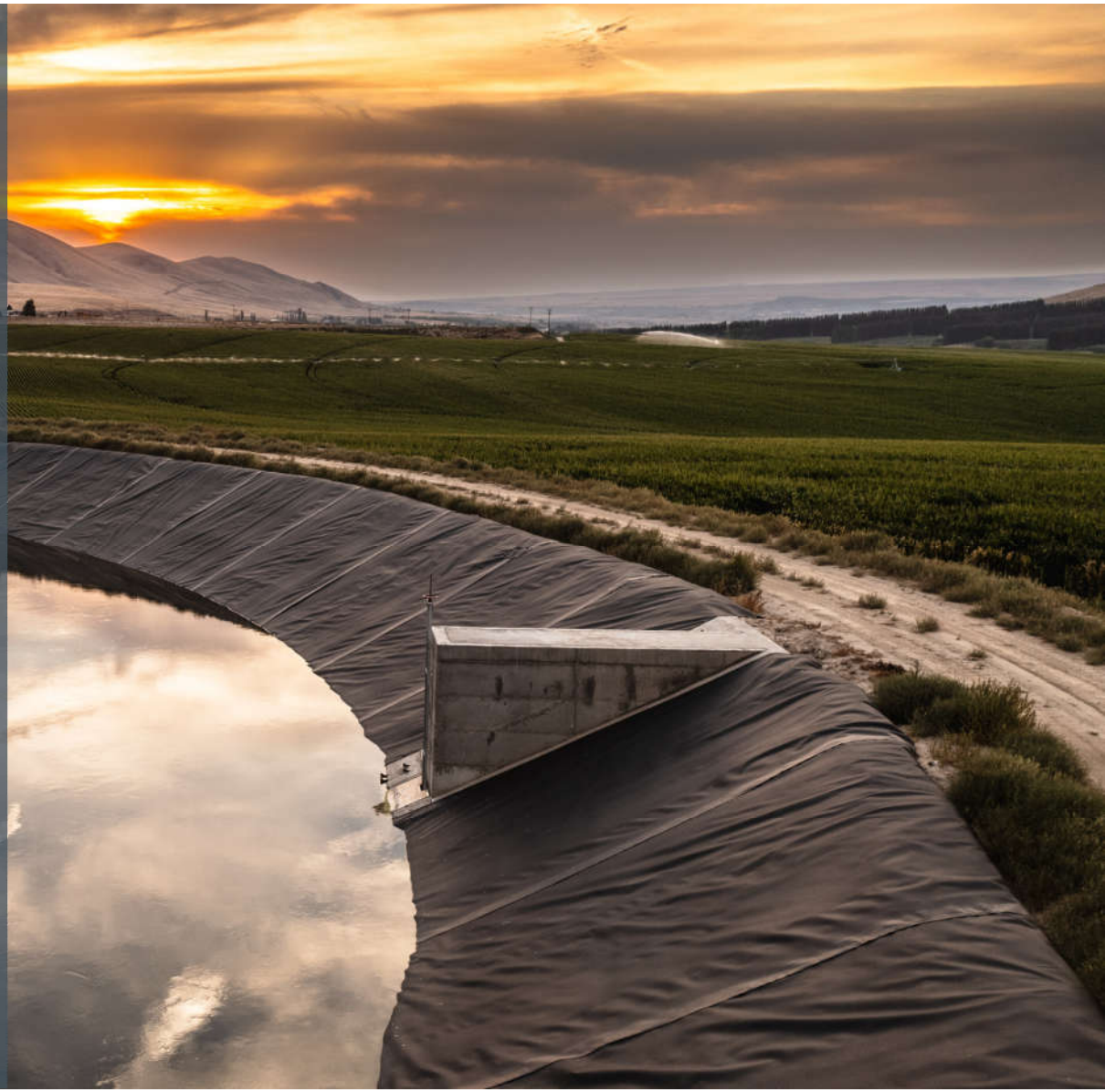
KENNEWICK IRRIGATION DISTRICT PRESENTATION



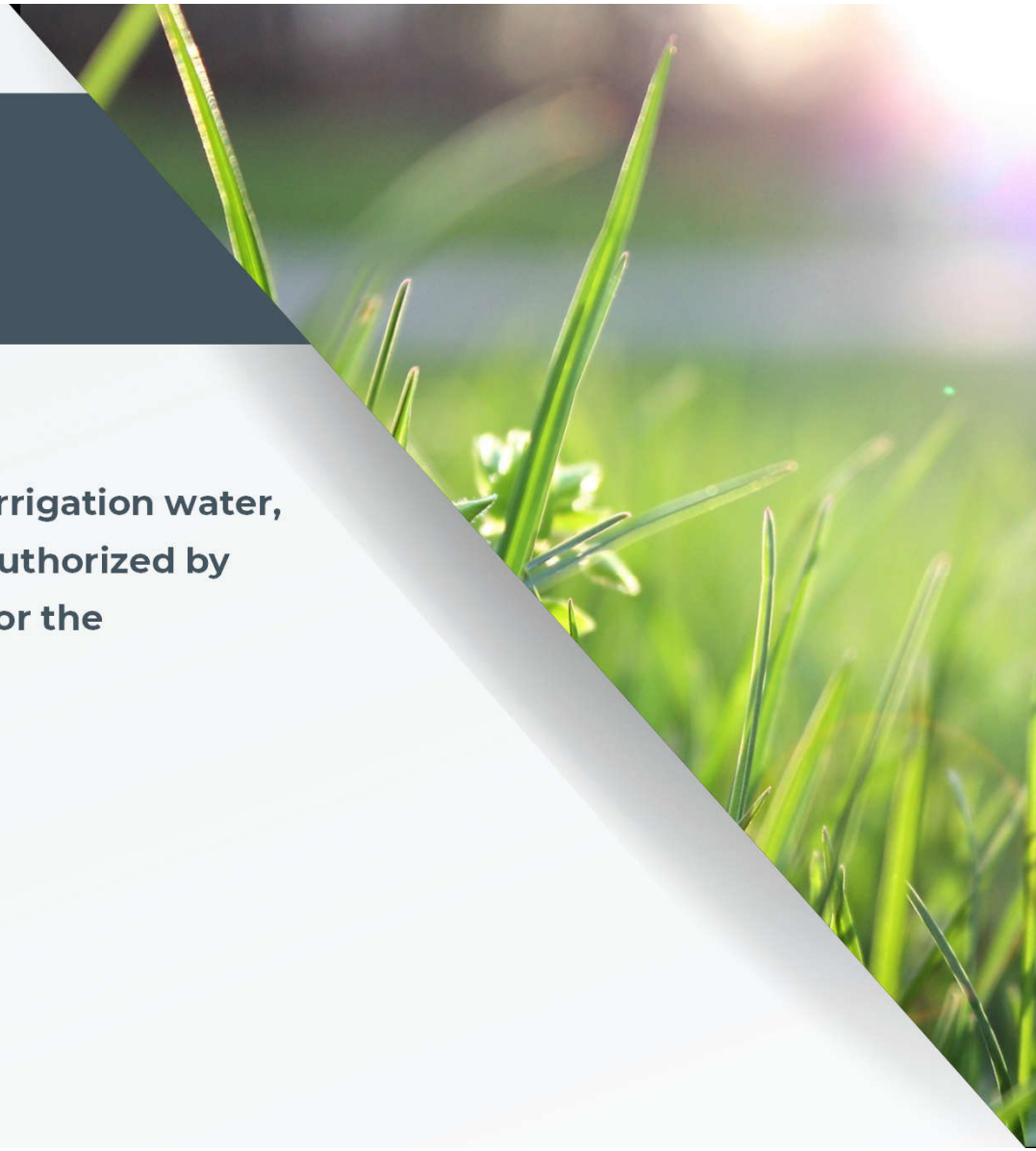
Welcome

Guest Speaker

Shane Leonard | District Manager

KENNEWICK IRRIGATION DISTRICT

MISSION STATEMENT



The Kennewick Irrigation District will deliver irrigation water, protect water rights and enhance supply, as authorized by Washington State statutes and federal laws, for the maximum benefit of our community.

District Priorities

- Service to Community and Care of the Environment
- Stewardship of District Assets, Water Rights & Supply
- Risk Management and Fiscal Responsibility
- Infrastructure Maintenance & Development

Background

Elected

Five member Board of Directors

Kirk Rathbun | *President*

Gene Huffman | *Vice President*

David McKenzie

Arland Ward

Griffin Hanberg

Leadership

Shane Leonard | *Secretary/Manager*

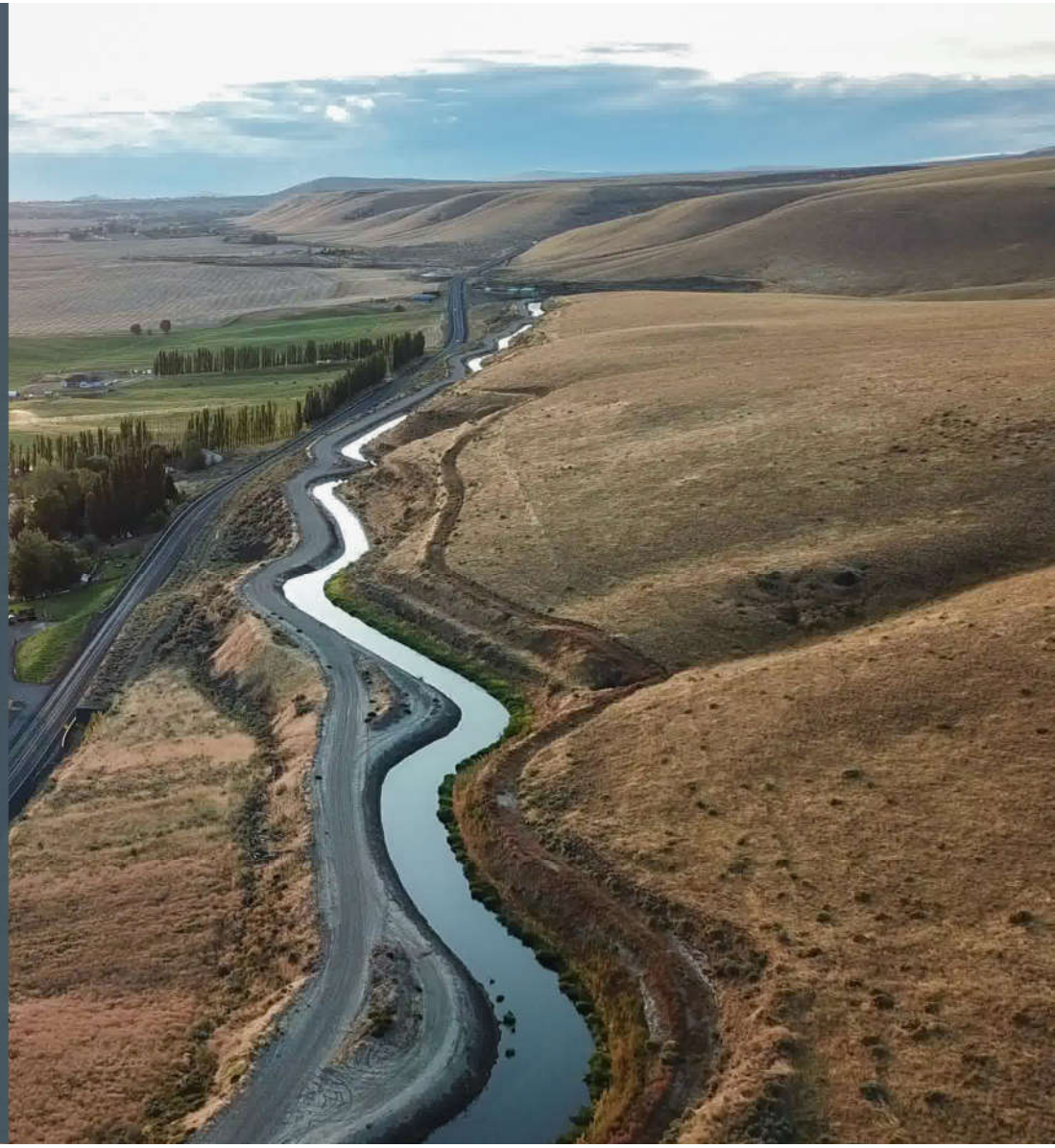
Jason McShane | *Assistant District Manager*

Ben Woodard | *Engineering & Operations Manager*

Seth Defoe | *Land & Water Resources Manager*

Stuart Dezember | *Comptroller/Treasurer*

John Crotty | *General Counsel*



Background (Continued)

- Established under RCW 87.03 in 1917

- USBR Project (*Authorized in 1948, Construction finished in 1957*)

- Last component of the Yakima Project

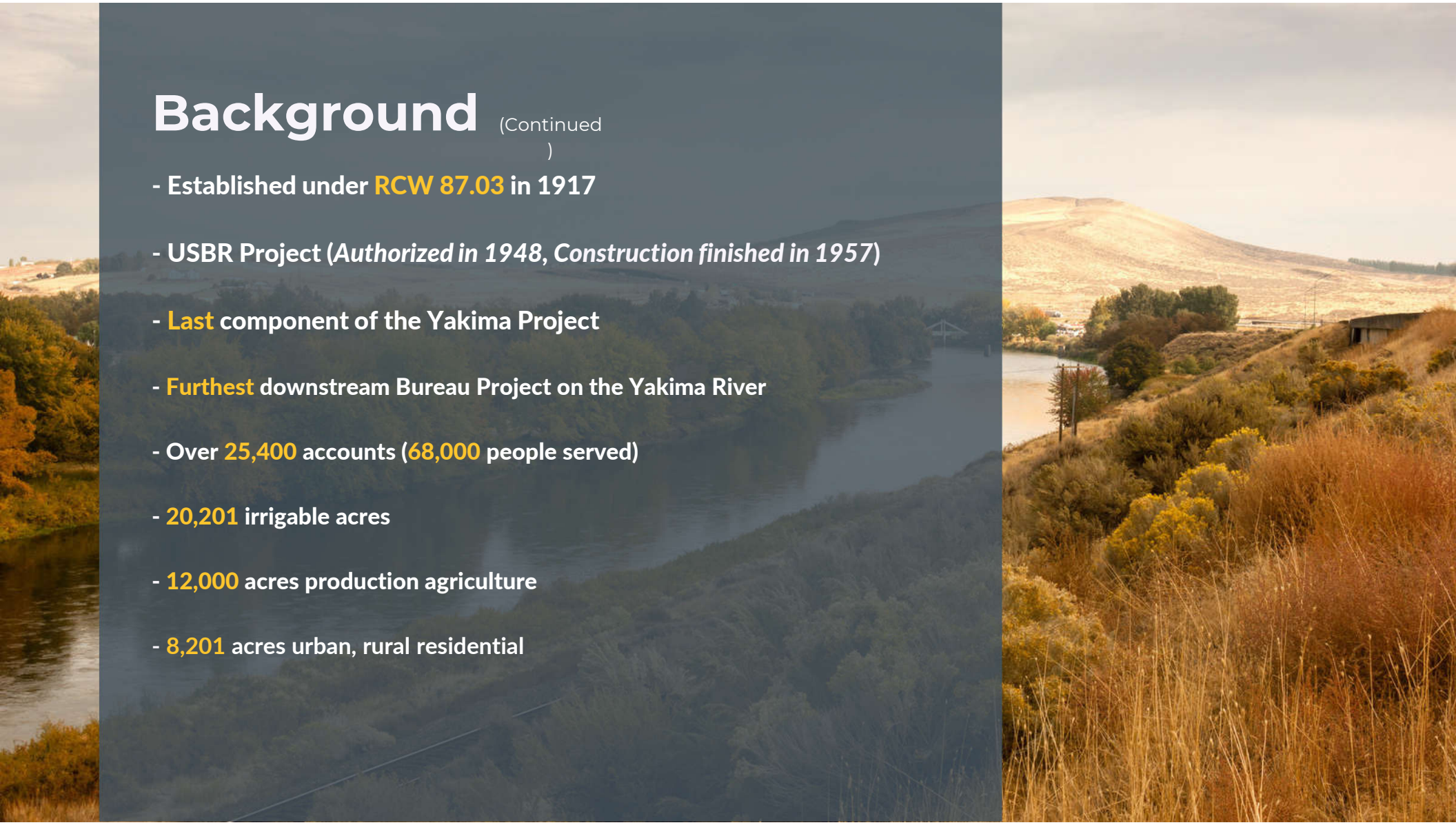
- Furthest downstream Bureau Project on the Yakima River

- Over 25,400 accounts (68,000 people served)

- 20,201 irrigable acres

- 12,000 acres production agriculture

- 8,201 acres urban, rural residential



Capital Improvement Plan

- Canal Lining
- Automated Control
- Recapture Reuse
- In Canal Storage
- Operational Reservoirs
- Central Storage Reservoir

Canal Lining

Material | Lined with 60mL thick High-Density Polyethylene (HDPE) Liner which is thicker than typical buried liners, to account for UV degradation over time.

Lifespan | Upwards of 50 years or longer

Purpose | HDPE liners can reduce water loss and prevent erosion in canals

Process | Panels are overlapped and welded together, creating a sealed air chamber, which is then air tested. Air is pumped into the channel to a specific pressure, often based on the thickness of the liner and the material's temperature

2025 off-season

238 panels were placed on the main canal

137 panels were placed in the Canyon Lakes residential area

Canal Lining (Continued)

Central Storage Reservoir

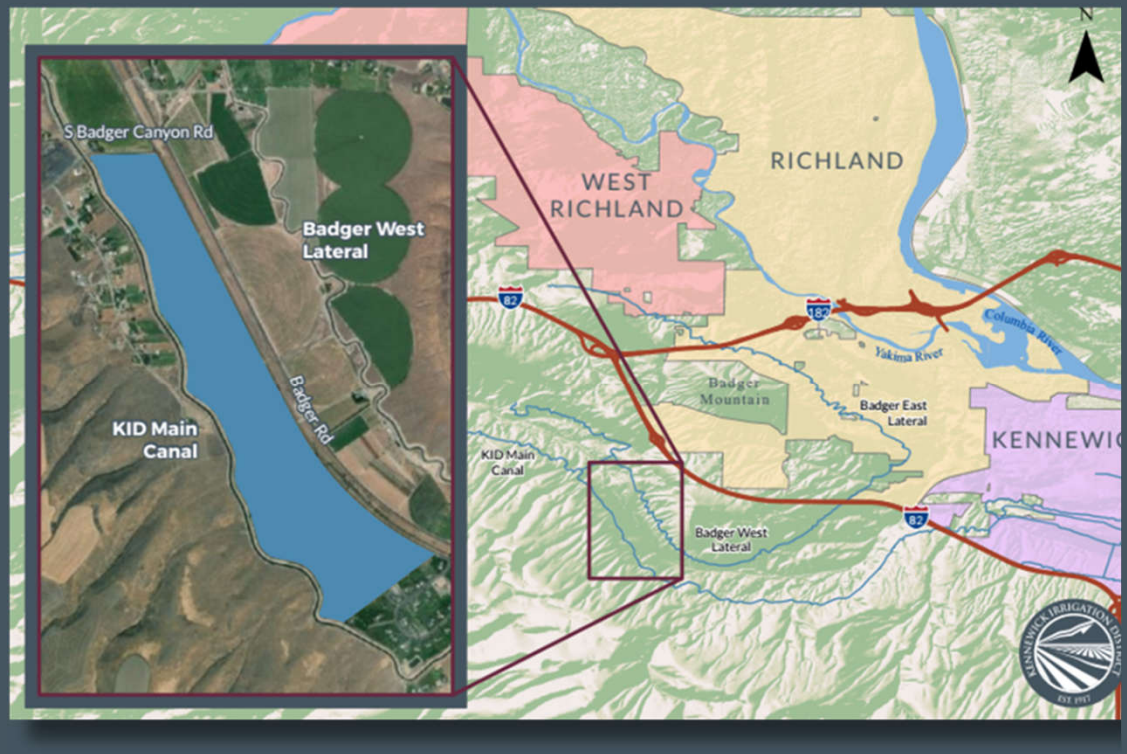
Size | Approximately 333 acres spanning 6 parcels.

Storage | Estimated to be up to 14,000 acre-feet, or roughly half the size of the Bumping Lake Reservoir.

Depth | 30-40 feet

Location | Benton County, WA - 3 miles south of Interstates 82 and 182.

Material Needing To Be Removed | Roughly **25 million** cubic yards of dirt or **2 million** dump truck loads.



Central Storage Reservoir - Alternative Sites

Alt 1 | Single Reservoir (RH2 Design)
Max Storage: **11,345 AF**
Max Embankment Height: 68.67 ft

Alt 2 | Three-Cell Phased Approach
Phased construction, extended farming use.
Realistic bottom elevation (considers rock depth).
Max Storage: **6,640.81 AF**

Alt 3 | Modified Three-Cell (Reduced Neighbor Impact)
Reservoir 3 follows existing ground, slopes to Reservoir 2.
Less impact on neighboring properties.
Max Storage: **5,532.71 AF**

Alt 4 | Four-Cell with Operational Reservoir
Added smaller reservoir for easy gravity flow and long-term storage.
Max Storage: **6,702.01 AF**

Alt 5 | Three-Cell with Raised Badger Rd
Badger Rd raised; all reservoir embankments at 698 ft.
Max Storage: **13,847.22 AF**

Chandler Electrification

The Problem:

- Upstream water conservation reduces return flows in the lower Yakima River.
- This means less water for KID to divert during droughts.

The Solution (Electrification Benefits):

- Reduces water diverted at Prosser Dam (only delivery amount needed).
- Leaves "drive water" in the river, increasing flows below Prosser Dam.
- Provides KID with a more reliable water supply during droughts.

Who Benefits?

- Other Irrigators: More water remains in storage during droughts.
- Fish & Wildlife: Increased flows in the lower Yakima River.
- Farmers & Urban Customers (KID): More reliable water delivery during droughts.
- Benton County Economy: Safeguards $1 billion in crop value and $30 million in landscaping payroll.


KENNEWICK IRRIGATION DISTRICT
EST. 1917
THANK YOU!
PR@KID.ORG
KENNEWICK
IRRIGATION DISTRICT
2015 S. Ely Street