Odessa Groundwater Replacement Project

East Low Canal Infrastructure
FUNDING: $13 million
$1.0 million
EST. NWS: 87,700 acres (total)
OCR Directive: Odessa
Odessa Groundwater Replacement Project

East Low (EL) 22.1 pumping plant and delivery system

FUNDING: $15 million

EST. NWS: up to 20,000 acres

OCR Directive: Odessa
ASR Exploration and Development

FUNDING: $4.2 million
EST. NWS: TBD

Guidance for Aquifer Storage and Recovery AKART Analysis and Overriding Consideration of the Public Interest Demonstration

November 2017
Publication no. 17-10-035
FUNDING: $4 million
EST. NWS: 60+ cfs
OCR Directive: Instream, New Water Rights, Interruptible Rights
OCR project level mitigation

FUNDING: $2.8 million
EST. NWS: n/a
OCR DIR: n/a

- Odessa Groundwater Replacement Program
- Lake Roosevelt Incremental Storage & Releases Program
- Potholes Supplemental Feedroute
Columbia Basin Project - Coordinated Conservation

FUNDING: $2 million  
EST. NWS: ~34,800 ac-ft (total)  
OCR Directive: Odessa
Walla Walla Basin Integrated Plan

FUNDING: $1.5 million
EST. NWS: TBD
OCR DIR: Instream Flows
Potholes Supplemental Feedroute

FUNDING: $1.1 million
EST. NWS: conveyance
OCR Directive: Odessa
2019 - 2021 Projects: New Project Proposals

- OCR Staffing and WDFW Staffing Support - $3.6 million
  Project Proponent – Ecology & WDFW

- 2021 Supply and Demand Forecast- $1.3 million
  Project Proponent – Ecology

- Walla Walla Leased Water - $1 million
  Project Proponent – Ecology

- Lake Roosevelt Incremental Storage Releases Program - $1 million
  Project Proponent – Ecology

- Water acquisitions and leases - $1 million
  Project Proponent – Ecology
2019 - 2021 Projects: New Project Proposals

- New water supply development projects - $1,000,000
  Project Proponent – Ecology

- OCR Facilitation Support - $500,000
  Project Proponent – Ecology

- Pasco Basin Water Supply (WAC 508-14) - $400,000
  Project Proponent – Ecology & US Bureau of Reclamation

- WRIA 30 Pump Storage Feasibility - $500,000
  Project Proponent – Ecology

- Switzler EIS completion - $100,000
  Project Proponent – Ecology, Klickitat County, Benton County
Yakima Basin Integrated Plan

Building A Future for Water, Wildlife and Working Lands
Yakima River Basin Integrated Water Resource Management Plan

Reservoir Fish Passage
- Provide fish passage at:
  1. Cle Elum Lake
  2.克莱尔湖
  3. Bumping
  4. Tieton (Rimrock)
  5. Keechelus
  6. Kachechel

Structural & Operational Changes
1. Raise the Cle Elum Pool by three feet to add 14,600 ac-ft in storage capacity.
2. Modify Kittitas Recreation District canals to provide efficiency savings.
3. Construct a pipeline from Lake Keechelus to Lake Kachess to reduce flows and improve habitat conditions during high flow releases below Keechelus and to provide more water storage in Lake Kachess for downstream needs.
4. Decrease power generation at Roza Dam and Chandler power plant to support outmigration of juvenile fish.
5. Make efficiency improvements to the Wapato Canal.

Enhanced Water Conservation
1. Implement an agricultural water conservation program designed to conserve up to 170,000 acre-feet of water in good water years.
2. Create a fund to promote water use efficiency basin-wide using voluntary, incentive-based programs. Focus on outdoor uses as top priority.

Habitat/Watershed Protection & Enhancement
1. Protect ~70,000 acres of land by acquiring high-elevation portions of the watershed and forest and should steppe habitat.
2. Evaluate potential wilderness area and wild and scenic river designations to protect streams and habitat.
3. Create a habitat enhancement program to address reach-level floodplain restoration priorities and restore access to key tributaries.

Surface Water Storage
1. Build a 162,500 ac-ft off-channel surface storage facility at Wymer on Llumna Creek.
2. Access an additional 203,000 ac-ft of water by tapping into inactive storage at Lake Kachess.
3. Construct a new dam at Bumping Reservoir to increase capacity to 190,000 ac-ft.
4. Begin appraisal of potential projects to transfer water from the Columbia River to the Yakima Basin.

Groundwater Storage
1. Construct pilot projects to evaluate recharging shallow aquifers via groundwater infiltration. Full scale implementation may follow.
2. Build an aquifer storage and recovery facility allowing Yakima City to withdraw water from the Yakima River during high flow periods and store it underground for use during low flow periods.

Market Reallocation
- Employ a water market and/or a water bank to improve water supply in the Yakima River basin. Market reallocation would be conducted in two phases:
  - The near-term phase would continue existing water marketing and banking programs in the basin, but take additional steps to reduce barriers to water transfers.
  - The long-term program would focus on facilitating water transfers between irrigation districts. This would allow an irrigation district to follow land within the district and lease water rights for that land outside the district.
<table>
<thead>
<tr>
<th>Yakima Basin Integrated Plan Elements</th>
<th>Appropriated Funds 2017 - 2019</th>
<th>Governor’s Capital Budget 2019 - 2021</th>
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<td>Habitat/Watershed Protection &amp; Enhancement</td>
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<td><strong>TOTAL</strong></td>
<td><strong>$31.1</strong> million</td>
<td><strong>$40.0</strong> million</td>
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As of April 2019...

- OCRs 19-21 capital budget = $40 million.
- YBIPs 19-21 capital budget = $40 million.
- **YRBWEP 19-21 capital budget = $4.2 million**

**TOTAL = $84.2 million**
2019 - 2021 Capital Budget

Questions?