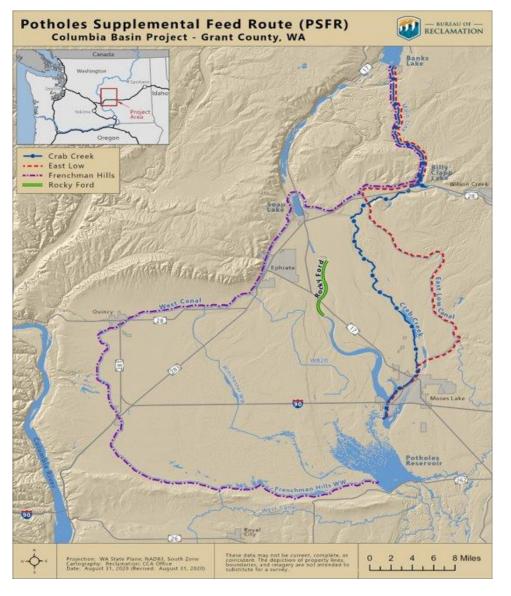


CRAB CREEK: A POTHOLES SUPPLEMENTAL FEED ROUTE

Clyde Lay, Deputy Field Office Manager Bureau of Reclamation Ephrata Field Office



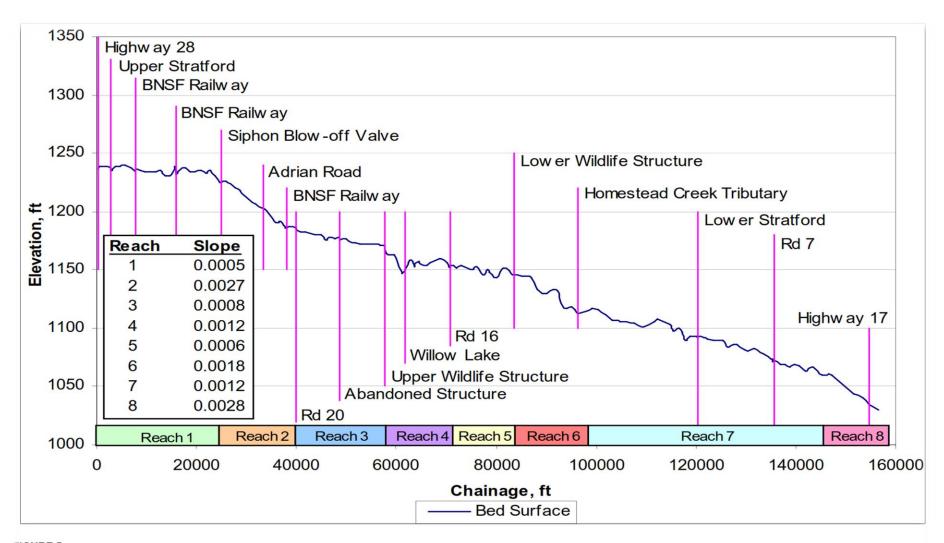
Potholes Supplemental Feed Routes



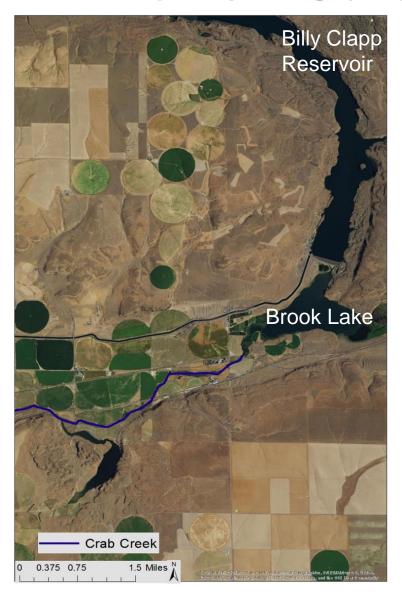
There are two routes for supplying additional feed to Potholes Reservoir

- Crab Creek:144,000 acre-feet
- > Frenchman Hills: 46,000 acre-feet

Crab Creek Feed Route



Pinto Dam Outlet and Brook Lake Weir



Pinto Dam Spillway Outlet Works Modifications

Brook Lake Weir



Comingled Water - Crab Creek



Federal and State Water

Collaboration with the Washington State Department of Ecology to develop a plan ensuring the protection of both federal and state water rights during Pinto Dam water releases

Groundwater Monitoring and Forecasting

- >Well installation and automation
- **DLiDAR** Data
- **Data Gathering Data Gathering**
- ► Model Development and Input
- Draft Operational Plan

Operational Considerations Scheduling

- Monthly breakdown of feed, return flows, and Potholes Reservoir elevation
- ▶Potholes Reservoir Flood Control
- Wintertime target reservoir elevations
- **Continued East Low Canal Feed**
- Volume and flow rate amounts

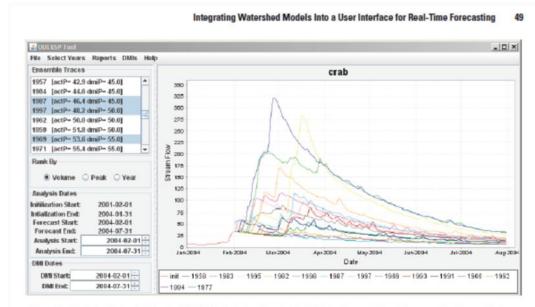
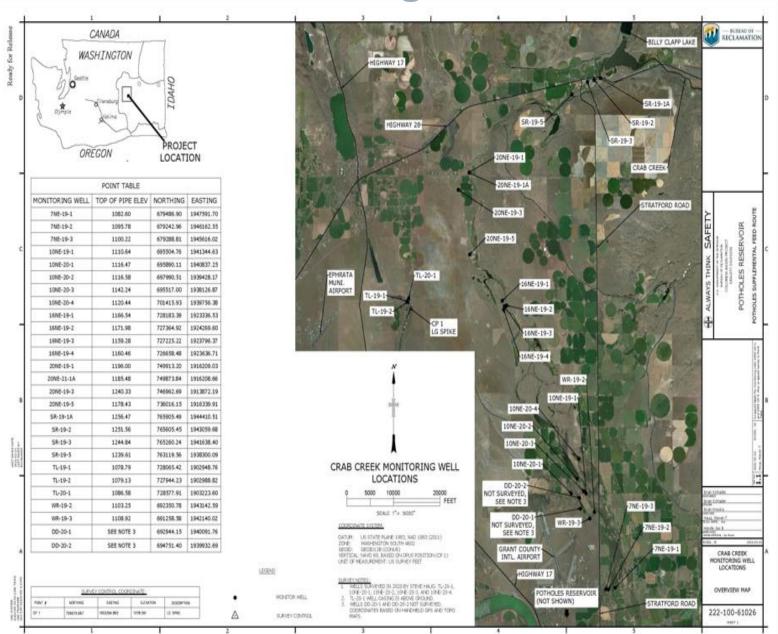


Figure 33. Potholes Project OUI for the OUI ESP Tool window showing the initial model run (init) and the ensemble of traces for the "El Niño" years ranked by runoff volume for the indicated forecast period for Crab Creek at Irby, Washington.



Monitoring Wells





Surface Water Gauges



Stratford Road Crossing

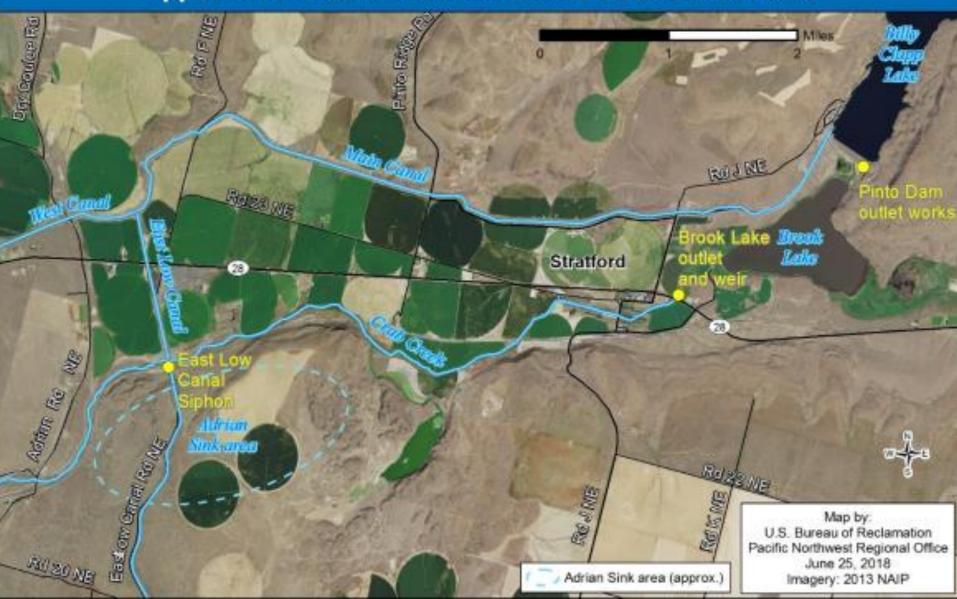
2018

Stratford Road realignment and culvert installation complete

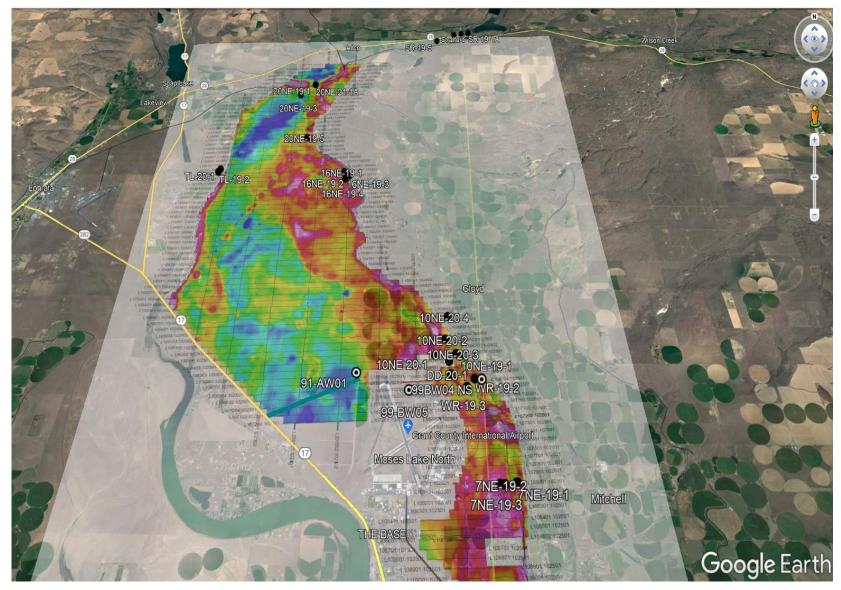


Adrian Sink

Upper Crab Creek and Pinto Dam to East Low Canal



Preliminary Geophyiscal Data





Troutlodge Fish Hatchery

2007 EA identified the need to construct bypass facilities at the Troutlodge Hatchery

► Maintain water levels in rearing ponds and manage drainage at the site

Alleviate problems caused by excess groundwater at the upper facility

>Temporary bypass system was installed- 2015

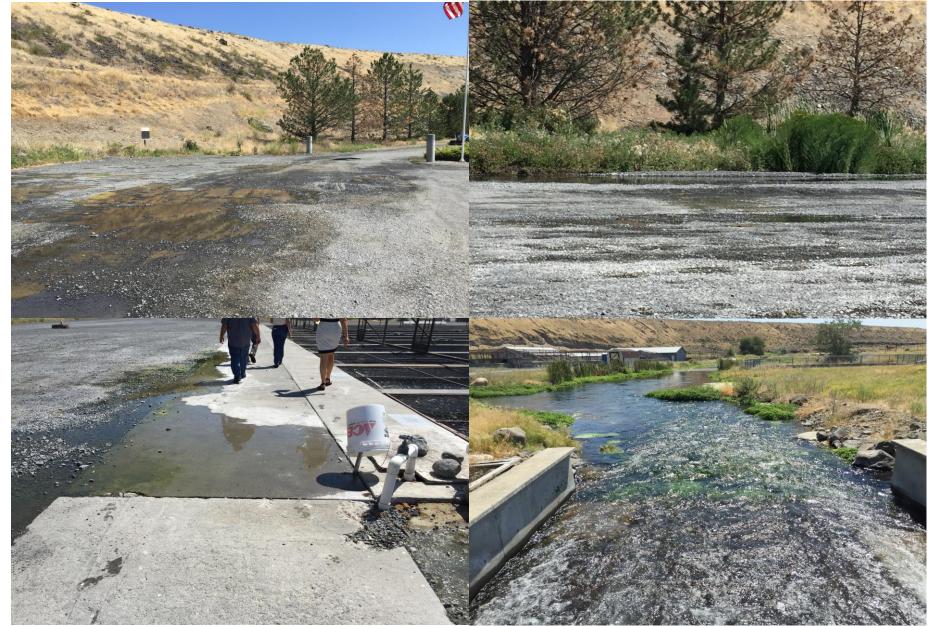
>Gates replaced on the S-ponds

▶Permanent bypass system is likely still needed





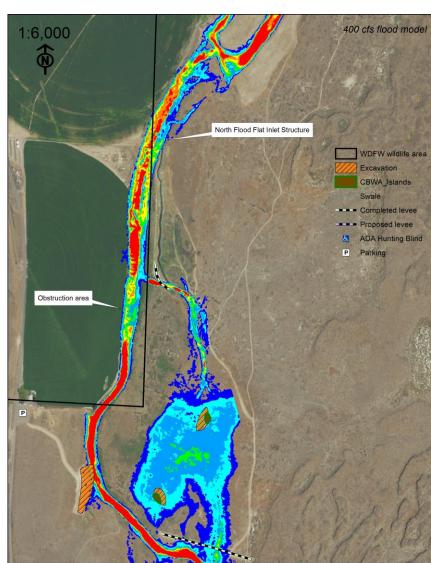
Troutlodge Fish Hatchery



Flood Flat

- Wildlife Enhancement Project
- Moist Soil Habitat





Legend

Land Acquisitions

- >35 parcels obtained with full ownership
- >98 parcels with flowage easements
- ➤ Two easement acquisitions remain





Demolitions and Clean Up





Road 16 Crossing



- Completed the road crossing construction in 2010
- Crab Creek Sediment Study completed in 2010



Road 10 Dairy Acquisition



- ▶Property Acquired November 2022
- Soil Remediation Efforts Underway
- Demolition of structures scheduled to begin this winter/spring

Rocky Coulee Wasteway



- Primary Feed Route
- Odessa GWRP Capacity
- Limited but still available



Lind Coulee Wasteway





Moses Lake



- Normal
 Operations
- ▶ 1st Monday in April to 1st Monday in November





Potholes East Canal



Lower Crab Creek



- Emergency Spill Only
- Reclamation isSeeking Land Trades



