City of Willits Water System

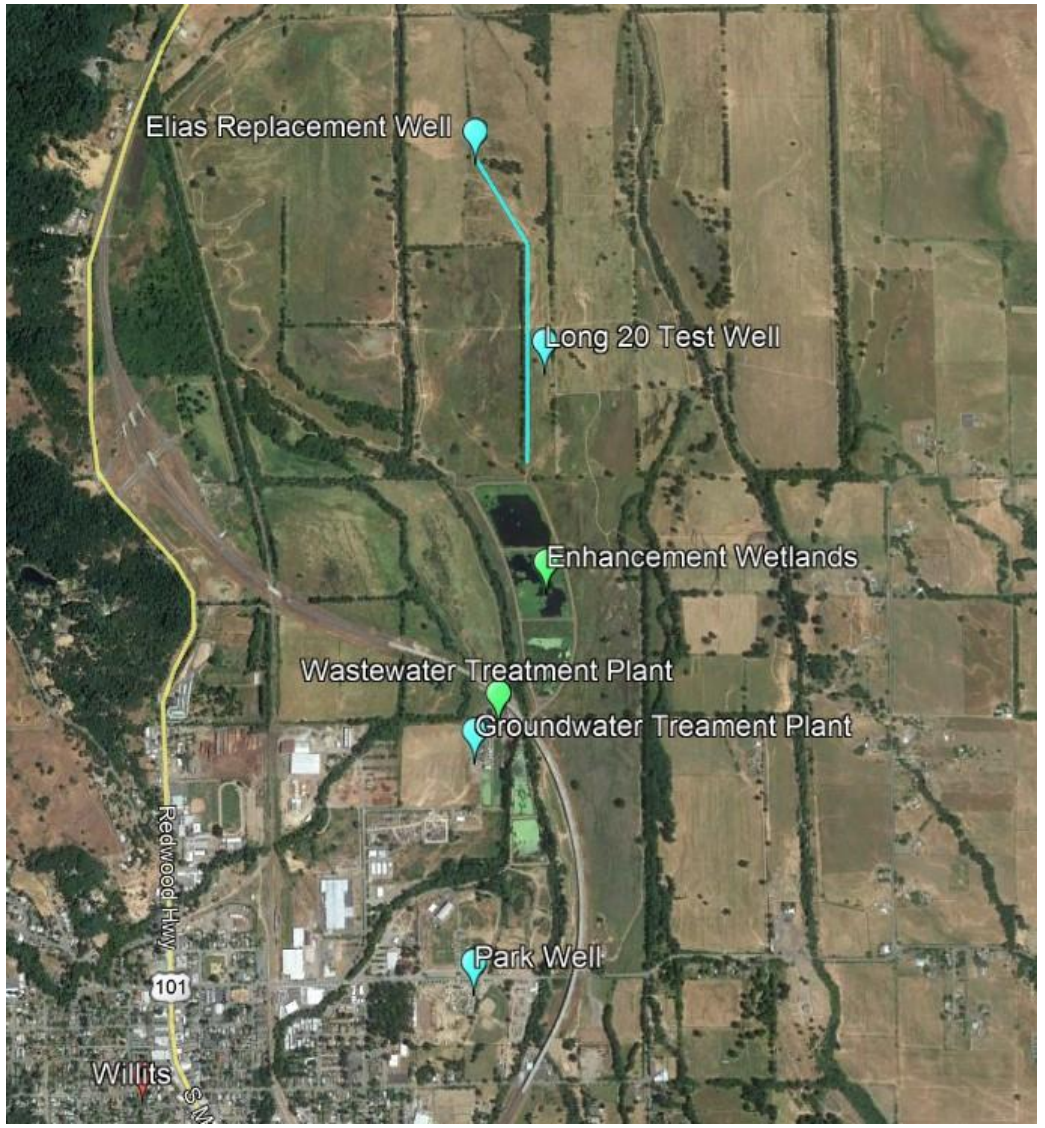
Presented to City Council May 12, 2021

Current System Status

- Reservoirs are at 93% of capacity (1220 acre-feet of storage)
- The Elias Well is connected to the groundwater system
  - Current Groundwater Level: 3.2-feet above the ground surface (artesian)
- The Long 20 Test Well is not connected to the groundwater system
- The Park Well Uses:
  - Irrigation of the Recreation Grove Park
  - Irrigation of the ballfields
  - Truck Fill Station

Well and Groundwater Treatment Plant Locations

Northern Portion of The Little Lake Valley (outdated aerial)



Proposed Groundwater Project

- Replace 3600 feet of water main between the Elias Well and the Enhancement Wetlands
- Connect the Long 20 Test Well to the groundwater system
- Install a 200,000-gallon clear well at the groundwater treatment plant for chlorine contact time and pressure control

Prior Two Years Water Usage

- Surface Water Treatment Plant Production
  - 2019: 269.4 Million Gallons (827 acre-feet)
  - 2020: 261.5 Million Gallons (802 acre-feet)
- Groundwater Treatment Plant Production
  - 2019: 13 Million Gallons (41.7 acre-feet) – primarily used during flushing of the distribution system.
  - 2020: Not Used
- Park Well
  - 2019: 1.1 million gallons (3.4 acre-feet)
  - 2020: 8 Million Gallons (24.5 acre-feet)
  - Revenue goes toward park expenses
- Little Lake Valley Estimated Groundwater Storage Capacity
  - Cardwell (1965): 50,000 acre-feet (10-100 feet depth)
  - DWR (1965): 91,600 acre-feet (10-200 feet depth)
  - Farrar (1986): 35,000 acre-feet (depth to 100 feet)