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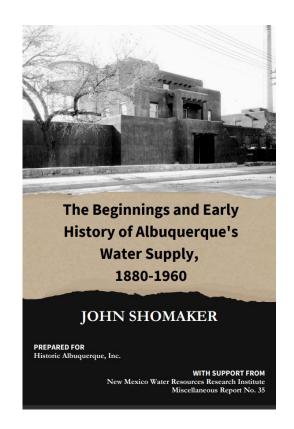
## **Agenda**

- Water System Background
- Water Supplies
- Water Pumping
- Water Treatment Facilities
- Water Storage / Reservoirs
- Water Distribution



# Water System Background

- April 2025 publication by John Shomaker outlines the early days of the Albuquerque Water System.
  - July 20, 1918 City purchases private water company (\$400K).
  - New Well Field Growth 1950-1960 Boom Years!
    - Well expansion: Atrisco (3), Duranes (7), Burton (1), Love (5), Griegos (5), Leyendecker (4), Thomas (4), Vol Andia (6)
  - 1953-1954 marks the start of the current water system configuration with Trunks and Pressure Zones.





## **Water Supplies**

- Surface Water
  - San Juan Chama Water Treatment Plant
    - 84 MGD potable water production capacity.
    - 2024 was its 15<sup>th</sup> year in service.
    - 238+ billion gallons of surface water produced since inception!
    - Pump station capable of conveying groundwater produced from eastside wells and moving it to the westside.
- Groundwater
  - 59 groundwater wells
    - 177 MGD maximum potable water production capacity. Actual availability varies.
    - Installation dating back to the 1950's





## **Water Pumping**

- Conveying the water from supply facilities to customers within our 177 square mile service area
  - Pump Stations
    - 39 potable water pump stations containing 129 booster pumps
    - Horsepower ranges from 25 hp to 600 hp
    - 775 MGD capacity









# Water Pumping - CCOPS

- Central Control Operations (CCOPS)
  - Staffed 24/7/265
  - Remotely monitor system vitals - reservoir levels, pumping rates, alarms, water quality
  - Remotely control facilities - pump on/off, open/close valves, disinfection dosing



#### **Water Treatment Facilities**

- College Arsenic Treatment
  - 5.2 MGD high arsenic wells treatment capacity (10 MGD potable production with blending)
- Corrales Arsenic Treatment
  - 7.4 MGD potable water treatment capacity located at 3 sites
- Bernalillo County Industrial Park (BCIP) Arsenic Treatment
  - 0.6 MGD capacity
- Volcano Cliffs Arsenic Treatment (in construction)
  - 17 MGD potable water production capacity
  - The project will bring 5 high arsenic wells back online.





## Water Storage

- Reservoirs
  - 62 potable water reservoirs with 247 MG capacity
    - 45 steel reservoirs
    - 17 concrete reservoirs (above ground & buried)
    - 54 reservoirs built from 1923 to 2004
    - 8 reservoirs built from 2005-2023







#### **Water Distribution**

- 3,049 miles of transmission and distribution mains ranging from 4" to 48"
  - Predominately PVC and cast-iron water mains
- 37 miles of San Juan Chama pipeline ranging from 30" to 72"
- 18,684 fire hydrants
- 47,386 isolation valves
- 160 pressure reducing valve stations
- 218,364 water accounts / meters / service connections







### Questions, Comments, Discussion

