



Water System Overview

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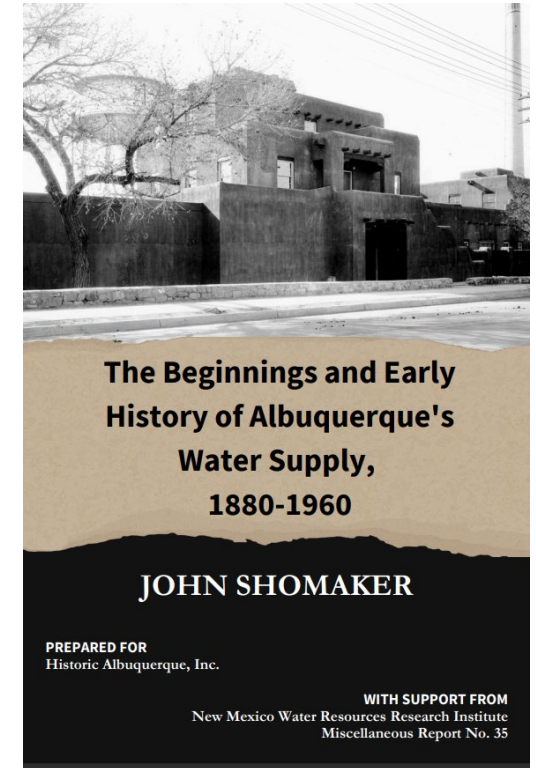
Agenda

- 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 15th 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

