City Council Districts map for poll question
See also https://www.santafenm.gov/district_maps

County Districts map for poll question
See also: https://santafecountynm.maps.arcgis.com/home/index.html
Introduction of Panelists

- Jesse Roach: City of Santa Fe Water
- Lucy Moore: Moderator/Facilitator
- Virginie Pointeau: Moderator/Facilitator
- Anjali Bean: County Utilities
- Bill Schneider: City of Santa Fe Water
Webinar Purpose

• This webinar is designed to provide background information.
  – Overview of history of water resources planning and development
  – Current City and County initiatives
  – Proposed planning cycle

• There will be Q&A to provide opportunity for clarifying this background information.
Opportunities for feedback:

• Breakout sessions next week
  – Sunday 10/25 3:30 pm - 5:30 pm
  – Monday 10/26 10 am - noon
  – Thursday 10/29 5:30 pm – 7:30 pm

  Zoom info: https://santafenm-gov.zoom.us/j/8352202097

  Or dial in: 1 346 248 7799 Meeting ID: 835 220 2097

  Info at https://www.santafenm.gov/water_division

• Online survey (more on this later).

  https://forms.gle/8DxJ3aCAzzXmpArw5

  or from https://www.santafenm.gov/water_division

  or https://www.santafecountynm.gov/public_works/utilities/wrp
Water Resources Planning & Development in Santa Fe
San Juan Chama (SJC) Water

- Portion of New Mexico’s share of Colorado River water under the Colorado River Compact

- Approximately 100,000 acre-feet per year (AF/yr) average target diversion from Blanco, Little Navajo, and Navajo tributaries to the San Juan, gravity flow through tunnels into Chama system.

- City and County full allocation of 5605 AF/yr
City Historical Supply & Demand

City of Santa Fe Annual Water Production by Source 1925 - 2019

- Santa Fe River Surface Water
- San Juan Chama Surface Water
- Local Groundwater
- Buckman Groundwater

1950s drought

Exponential demand growth

GW overuse

Conservation

City purchases water company

BDD online

SW dominated use
City Population & Per Capita Water Use

GPCD & Population

Consumption (gpcd)

Population (Thousands)

<table>
<thead>
<tr>
<th>Year</th>
<th>Consumption (gpcd)</th>
<th>Population (Thousands)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1995</td>
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<tr>
<td>2019</td>
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2013-2019 City Water Use

City of Santa Fe Sources of Water Supply
Total Production
(annual average 2013 - 2019)

<table>
<thead>
<tr>
<th>Source</th>
<th>Production</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buckman Well Field</td>
<td>975</td>
</tr>
<tr>
<td>City Well Field</td>
<td>911</td>
</tr>
<tr>
<td>Buckman Direct Diversion</td>
<td>3,901</td>
</tr>
<tr>
<td>Canyon Road WTP</td>
<td>2,802</td>
</tr>
<tr>
<td>total</td>
<td>8,594</td>
</tr>
</tbody>
</table>
2013-2019 Flows to WWTP (influent)

Water Consumption
- outdoor watering
- leaks

Total Production Averages
8,621 ac-ft/yr

975 ac-ft/yr
2,803 ac-ft/yr
3,928 ac-ft/yr
911 ac-ft/yr

City Influent
5,633 ac-ft/yr (65%)

San Juan Chama water from Buckman Direct Diversion
*online in 2012

Santa Fe River water from Canyon Road Water Treatment Plant

Influent Sources
(annual average 2013 - 2019)
Non-Potable Reuse (purple pipe)

- Effluent is used for turf irrigation at
  - Swan Park
  - Santa Fe Country Club
  - MRC
  - Marty Sanchez
- ~1270 AF/yr 2013-2019
- Could also be delivered to Las Campanas
County Utility Service Area
County Line Extensions Recent/In Progress

- Hyde Park Estates
- Cañoncito-Eldorado
- Pojoaque Basin Regional Water System
County Sources of Supply at BDD

- 1325 AF, Native
- 375 AF, SJCP
30 Years of Santa Fe Water Planning

1988

1998

2001

2008

2013

2015

2016

2017
Can we get out in front of the next shortage?

Drought Severity in the Southwestern United States, 1895–2015

Palmer Drought Severity Index


Year

Reservoir Expansion  City Wells  Buckman Wells 1-8  Buckman Wells 10-13  Buckman Direct Diversion

Wet

Dry
Most recent planning efforts

Santa Fe Basin Study and Basin Study Update:
- Growing demand & less reliable supply will lead to shortages
- Best way to avoid these shortages is more efficient use of effluent
Current focus: SJC return flow pipeline

Returning water originating from the BDD to the Rio Grande was contemplated in the original BDD design, and was identified in the last round of planning as the preferred alternative for using effluent to increase our water supply.
Current City focus: SJC return flow pipeline

Goal: Achieve full consumption of SJC water by getting credit for returning unconsumed SJC water (we get no credit for discharge to lower Santa Fe River) to the Rio Grande.

Current: all diversions at BDD from upstream reservoir releases

With pipeline: same diversions at BDD with less release from upstream reservoirs. River “made whole” with effluent return.
Current City focus: SJC return flow pipeline

Use of Effluent, with Buckman return (annual averages 2013 - 2019)
Current County Focus: PBRWS

Pojoaque Basin Regional Water System
Current County Focus: ASR

Rancho Viejo Aquifer Storage and Recovery
Questions?

• Post your questions with the Q&A feature

• If you want to ask your question verbally, raise your hand

• Q&A questions will be answered first and verbal questions as time allows