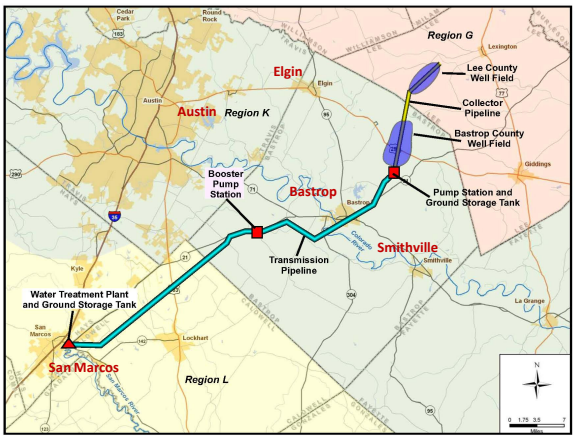
Simsboro Groundwater for GBRA

- **Description:**
  - Two Phases
  - Well Fields in Bastrop County (Phase I) and Lee County (Phase II)
  - Water Delivery to San Marcos WTP



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Simsboro Groundwater for GBRA

- **Supply:**
  - Average
    - Phase I: 30,000 acft/yr
    - Phase II: 20,000 acft/yr

    } Total = 50,000 acft/yr
  - Peak
    - Phase I: 33.5 MGD
    - Phase II: 22.3 MGD

    } Total = 55.8 MGD
  - Peak Operations: 1.25 times Annual Average
- **Groundwater Availability:**
  - Permits: Depending on Locations of Well Fields, Subject to Rules and Water Management Plans of Lost Pines Groundwater Conservation District
  - Well Yield: 2,500 gpm
  - Well Depths: 1,300 to 2,100 ft
  - Well Spacing: >6,000 ft
  - Water Quality:
    - TDS less than 500 mg/L
    - Possibly elevated concentrations of Iron and Manganese

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Simsboro Groundwater for GBRA

- **Facilities:**
  - **Well Fields**
    - Production Wells:
      - Phase I (Bastrop County):
        - » Number: 11 (includes 1 backup)
        - » Depth: 1,300 to 1,700 ft
        - » Yield: 2,500 gpm
      - Phase II (Lee County):
        - » Number: 8 (includes 1 backup)
        - » Depth: 2,100 ft
        - » Yield: 2,500 gpm
    - Well Field Collector Pipelines:
      - Phase I: ~13 miles of 14 to 54-inch diameter
      - Phase II: ~16 miles of 14 to 42-inch diameter
      - Phase I is sized to accommodate Phase II
  - **Transmission**
    - Pump Station with Storage
    - One Booster Station with Storage
    - Transmission Pipeline:
      - 52-miles of 60-inch diameter
      - Built to Ultimate Capacity in Phase I
  - **Water Treatment:**
    - Disinfection
    - Iron and Manganese Removal

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Simsboro Groundwater for GBRA

Cost Element	Phases		
	I	II	Total
Capital	$190,260,000	$43,751,000	$234,011,000
Project	$267,095,000	$63,687,000	$330,782,000
Annual	$36,448,000	$12,662,000	$49,110,000
Available Project Yield (acft/yr)	30,000	20,000	50,000
Annual Cost of Water ($ per acft)	$1,215	$633	$982
Annual Cost of Water ($ per 1,000 gallons)	$3.73	$1.94	$3.01

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Simsboro Groundwater for GBRA

- **Groundwater Availability:**
  - Part or all of the water needed by this Water Management Strategy (WMS) is anticipated to be supplied from locations within the jurisdiction of a groundwater conservation district (District) and may exceed the amount of available water identified in the District's approved management plan, or may for other reasons not be permitted by the District.
  - The amount of water needed by this WMS that exceeds the available water in the District's management plan, or for other reasons is not permitted by the District, cannot be implemented as part of this WMS unless and until all necessary permits are received from the District.
  - The amount of water needed by this WMS that exceeds the available water in the District's management plan, or for other reasons is not permitted by the District, introduces an added element of uncertainty to reliance upon this WMS and, therefore, additional management supplies may be needed for this WMS.

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