Barton Springs Edwards Aquifer CONSERVATION DISTRICT

BSEACD

Quick Facts

Created: **1987 by Texas Legislature**
Size: **417 square miles**
Counties: **parts of Travis, Hays, and Caldwell**
Aquifers: **Edwards and Trinity**
Groundwater users: **60,000+ people**
Endangered Species: **Barton Springs and Austin Blind Salamanders**
Volume of water permitted annually: **8,500 acre feet**

Mission
To conserve, protect, recharge, and prevent waste of groundwater and preserve all aquifers in the District.

Goal
To equitably and effectively manage and protect groundwater resources for all groundwater users within its boundary. We serve the groundwater community by monitoring groundwater levels and water quality, managing the shared groundwater resource, coordinating water conservation efforts during drought, and researching aquifer dynamics.

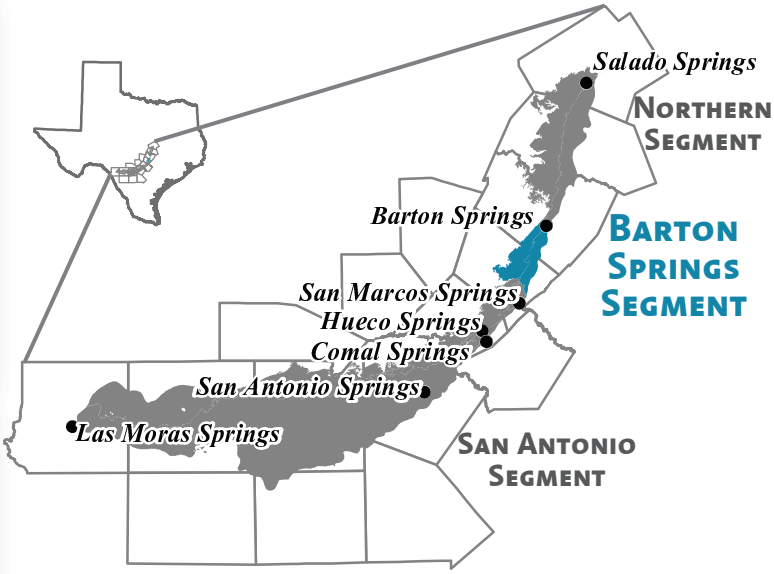
Groundwater Resources
The area covers the unconfined (recharge) zone, the confined zone, and the saline zone of the Barton Springs segment of the Edwards Aquifer and the underlying Trinity Aquifer.

Boundaries
West: Edge of the Edwards Aquifer outcrop
North: Colorado River
East: Service area limits of what are now the Creedmoor-Maha and Goforth Water Supply Corporations.
South: The Hays county boundary.

Land Use (2007 data, pre-annexation)
56% ranchland/farmland
24% urban/suburban
20% open space/conservation land
1% mining/landfill/barren land

Permit Types and Volumes
Currently, the District is only issuing NDU, Conditional Edwards and Historical Trinity permits. All permitted wells are subject to drought restrictions.

	Permit	Pumpage (acre-feet)
Historical Edwards		7,338.0
Conditional Edwards		864.8
Non-Exempt Domestic Use (NDU)		3.6
Historical Trinity		285.0
total		**8,491.4**



The Edwards Aquifer, source for some of the largest springs in Texas, is divided into 3 segments based on groundwater flow paths. Barton Springs is the lowest discharge point in the entire aquifer.

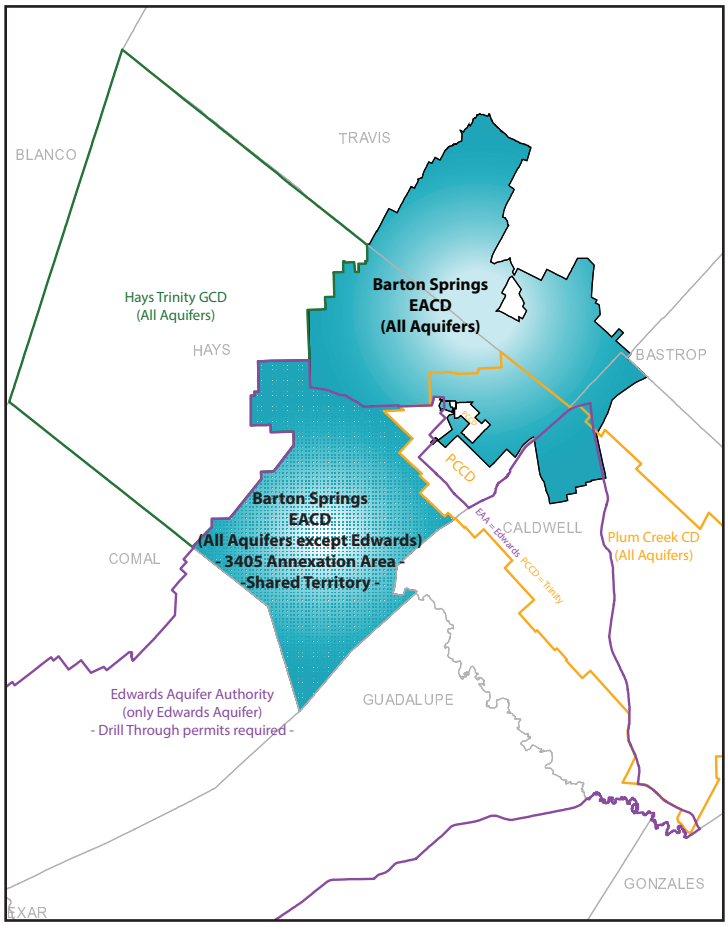
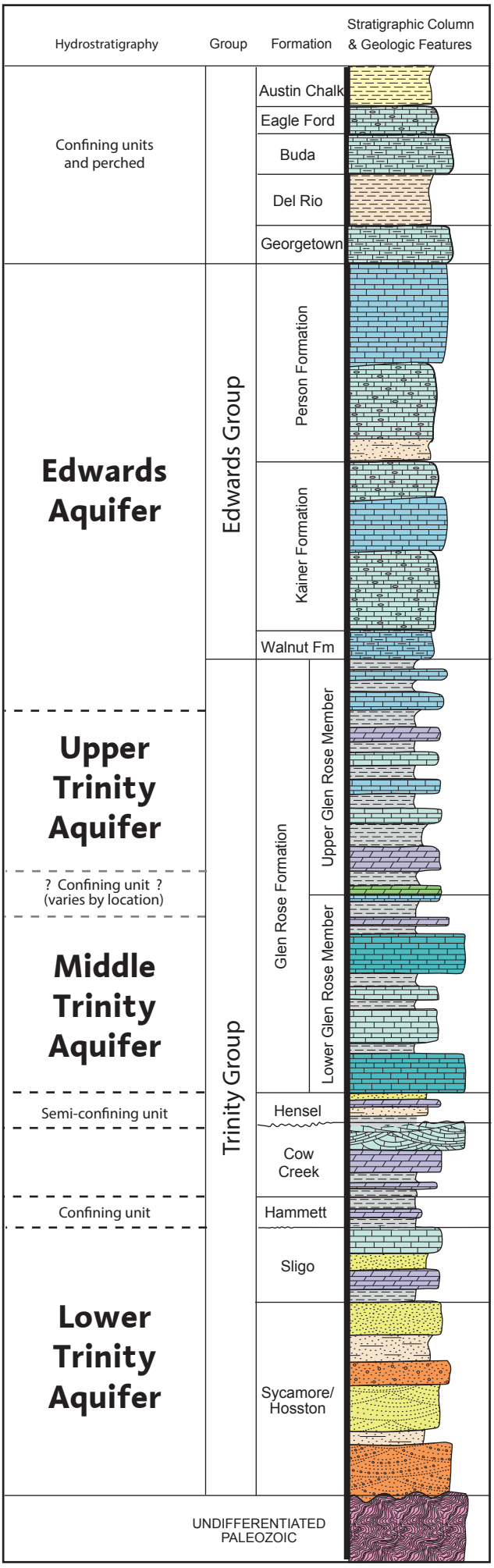


Figure 2. The District's territory including the expanded annexation area created by HB3405, the adjacent groundwater conservation districts, and the respective jurisdiction over aquifers.

Generalized Stratigraphy of the Edwards and Trinity Aquifers



Explanation

- Chalk
- Limestone (micritic)
- Limestone (skeletal, grains)
- Limestone (reef)
- Dolomite
- Shale/marl
- Gypsum/anhydrite
- Siliciclastic (silt, clay)
- Siliciclastic (sand, silt)
- Conglomerate

Figure modified from Wierman et al., 2010
Stratigraphic notes:

1 - Edwards Group, Kainer Fm, as defined by Rose (1972).
2 - Ages and sequence boundaries from Scott et al. (2007).

For additional detail, see Hydrogeologic atlas of the Hill Country Trinity Aquifer, Blanco, Hays and Travis Counties, central Texas, Plate 2: Stratigraphic Column and Type Geophysical Logs
http://repositories.lib.utexas.edu/handle/2152/8977