

Texas Water Development Board (TWDB) Contract Number 1600011952

Identification of Potential Brackish Groundwater Production Areas – Nacatoch Aquifer

Raw data deliverables

January 5, 2018

In 2015, the 84th Texas Legislature appropriated \$2,000,000 (a contingency rider for House Bill 30) to TWDB for contract and administrative costs to study the characteristics of aquifers in the state. The TWDB (1) funded three contract studies for three aquifers specifically mentioned in House Bill 30, (2) executed interagency contract for the fourth aquifer specifically mentioned in House Bill 30 and Queen City and Sparta aquifers, and (3) funded three additional aquifer studies (Trinity, Blossom, and Nacatoch aquifers). This folder contains instructions on how to obtain the data associated with the Nacatoch Aquifer project.

For more information on House Bill 30, visit the following TWDB website: <http://www.twdb.texas.gov/innovativewater/bracs/HB30.asp>

Data files in this folder include:

- Notes_About_This_Data.pdf
- NCTCdata2BRACs_rev.xlsx
- Code Folder
- Nacatoch_TDS_Calculator_Revised.xlsx
- BRACS_logs_list_CCI.xlsxGIS_Final folder

The raw final data provided by the contractor does not contain known errors. The TWDB has not reviewed or refined the data in this folder and is providing it as a public service. Well logs and stratigraphic picks have been incorporated into the BRACS Database. The most recent version of the BRACS database can be downloaded from <http://www.twdb.texas.gov/innovativewater/bracs/database.asp>.

Geophysical well logs used for the project are available for download from the TWDB Water Data Interactive Groundwater Viewer Brackish Groundwater well markers. If sets of countywide well logs are needed, they may be provided by request using the instructions on the BRACS Geophysical Well Logs website (<http://www.twdb.texas.gov/innovativewater/bracs/WellLogs.asp>).

Water well reports with a Texas Department of Licensing and Regulation tracking number are available on the TWDB Water Data Interactive Groundwater Viewer via the well report markers (<http://www2.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer/#>). If there is a TWDB state well number (SWN) then the report is available through the TWDB Groundwater markers. If the water well report you are looking for does not have a tracking number or a state well number, then the record may be provided by request using the instructions on the BRACS Geophysical Well Log website.

Additionally, **stratigraphic picks** made by the contractor have been incorporated in the BRACS database.

List of the folder structure and files provided by LBG-Guyton, INCORPORATED:

- Nacatoch Deliverables folder
 - Nacatoch_TDS_Calculator_Revised.xlsx
 - NCTCdata2BRACs_rev.xlsx
 - Code folder
 - Interpolations_Script.py
 - Mapping_Function_ESRI.py
 - vol_calcs_updated.py
 - Nacatoch_BaseMap_Python.mpk
 - Theis_Function.R
 - Theis_Runs.R
 - Theis_Well_Data.xlsx
 - Pumping_100AF_30Y folder
 - 22 Shapefiles
 - 22 .tif raster files
 - Pumping_100AF_50Y folder
 - 22 Shapefiles
 - 22 .tif raster files
 - Pumping_200AF_30Y folder
 - 22 Shapefiles
 - 22 .tif raster files
 - Pumping_200AF_50Y folder
 - 22 Shapefiles
 - 22 .tif raster files
 - Pumping_500AF_30Y folder
 - 22 Shapefiles
 - 22 .tif raster files
 - Pumping_500AF_50Y folder
 - 22 Shapefiles
 - 22 .tif raster files
 - GIS_Final folder
 - Nacatoch_Interpolation_Work.gdb
 - Nacatoch Brackish Geodatabase.gdb
 - Revised Mxds folder
 - 27 map documents containing the figures featured in the main report.