Item 6 – Static Water Level Measurements

Listed under "Management Goals & Objectives" within the District Management Plan is:

*8. **Implement Strategies to Assess Adopted Desired Future Conditions***

8a. Objective - At least once every three years, the District will evaluate well water level monitoring data and determine whether the change in water levels is in general conformance with the DFCs adopted by the District. The District will estimate total annual groundwater production for each aquifer based on the water use reports, estimated exempted use, and other relevant information, and compare these production estimates to the MAGs.

➢ *Performance Standard – At least once every three years, the General Manager will report to the District Board the water level data obtained from the monitoring wells in each aquifer, the average artesian head change for each aquifer calculated from the water levels of the monitoring wells in each aquifer, a comparison of the average artesian head change for each aquifer with the DFCs for each aquifer, and the District progress in conforming with the DFCs.*

Accomplishing this performance standard is not a cumbersome task following the implementation of the static water level application displayed on the District's public groundwater map in 2018. Each measured well can now be selected from the entire group of monitored wells or filtered by aquifer. The application was further enhanced in early 2019 with the addition of a displayed hydrograph of the static water level trend at the specific well location.

Both in 2018 and 2019, District staff compiled all water level measurements into a binder and made it available for board member review. District staff has gone one step further in 2020 sending each director static water level measurements an email attaching folders (by aquifer). These same measurements and folders are available to the public on the District website homepage at https://brazosvalleygcd.org/monitoring-well-data/.

The most accurate snapshot of aquifer conditions occurs in the spring. Water use is at its lowest during the winter months and ahead of the lawn irrigation season. The early to mid-spring measurement best reflects the artesian pressure recovery within the aquifer. Our goal is the begin making the annual disbursement and display of water level measurements in April of each year. This will dovetail well with our annual assessment of conforming to adopted DFCs presentation which occurs during the May board meeting.

Megan created a video turtorial for easily accessing the static water level data. The link is: https://www.youtube.com/watch?v=zQim97njW5A&feature=youtu.be