

HTGCD Certification of Groundwater Availability For Tier 2 and Tier 3 Permits

Well Performance and Aquifer Test

The test well must be drilled and completed according to applicable HTGCD Rules and must comply with all County and State Regulations. See HTGCD Rule 11 for all requirements, and 11.1.3 to determine if Aquifer Test is required. This form is to be submitted to the District as part of the reporting requirements for a Well Performance Test. The completed report does not eliminate or substitute for the requirements of the TCEQ, Hays County, or other State Agencies regarding Public Water Supply Wells. It is the applicant's responsibility to obtain any necessary permits from other agencies. Additional information may be required by HTGCD for Tier 2 and 3 Permits.

Administrative Information
1. HTGCD Well Construction Notification Number (Well Registration #):
2. Name of Proposed Permit:
3. Any Previous Name Which Identifies the Tract of Land:
4. Property Owner's Name(s):
Address:
Phone:
Email:
5. Permit Applicant's Name (If different from Property Owner):
Address:
Phone:
Email:
6. Texas Licensed Professional Engineer or Geoscientist's Name:
Address:
Phone:
Email:
License Number:
7. Location and Legal Property Description of Proposed Permit:

Proposed Permit Information
8. Purpose of requested Permit (single family/multi-family residential, community, non-community, industrial, etc.):
9. Size of Permit area (acres):
10. Number of Proposed Lots (if applicable):
11. Average Size of Proposed Lots (acres):
12. Anticipated Method of Water Distribution:
13. Expansion of Existing Public Water Supply System? Yes No
14. New (Proposed) Public Water Supply System? Yes No
15. Individual Water Wells to Serve Individual Lots? Yes No

Projected Groundwater Demand Estimate
16. Groundwater demand estimate shall account for indoor and outdoor demand at full build out (acre feet/year). Demand shall be estimated by the following:
Number of Proposed Housing Units at full build out:
Average Number of Persons per Housing Unit (which shall be estimated at 1 person per bedroom plus 1 additional person):
Assume a per day per person usage rate of 110 gallons; and provide the total expected residential water demand per year for the entire proposed Permit (acre feet/year):
17. Non-residential groundwater demand estimate at full build out or full usage shall be provided. Non-residential uses shall be specified by:
Type(s) of groundwater use (ie: irrigation, laundry facility, etc.):
Water Demand per Type per Year (acre feet/year):
18. Total Expected Groundwater Demand Estimate at Full Build Out, Including Existing Wells (acre feet/year):
19. Anticipated Rate of Withdrawal (gpm):

20. Sources of Information Used for Demand Estimates:

Site-specific and Hydrogeologic Data Deliverables (including Aquifer Test Design, Well Construction, Water Quality, etc.)

21. Refer to Rule 11.6 for details on the aquifer test design requirements. HTGCD Rules are found on the Regulatory page of www.haysgroundwater.com.

22. Refer to Rule 11.7 for details on water quality requirements. HTGCD Rules are found on the Regulatory page of www.haysgroundwater.com.

Determination of Groundwater Availability

23. The following aquifer parameters shall be determined and the basis of the determination noted:

Rate of yield and drawdown:

Specific capacity:

Transmissivity:

Coefficient of storage:

Hydraulic conductivity:

Recharge or barrier boundaries, if any are present:

Thickness of the aquifer(s):

Assumed aquifer condition (unconfined, confined, leaky...): Include a table that shows this data by well, calculation method, and the portion of the data used in the analysis.

24. Have time-drawdown determinations been calculated? Yes No

25. Have distance-drawdown determinations been calculated: Yes No

26. Have well interference determinations been made? Yes No

27. Has the anticipated method of water delivery, the annual groundwater demand estimates at full build out, historical and projected groundwater levels during severe and critical drought conditions, and geologic and groundwater information been taken into account in making these determinations?
Yes No

28. Has the water quality analysis been compared to primary and secondary TCEQ public drinking water standards? Yes No

29. Does the concentration of any analyzed constituent exceed the published TCEQ standards? Yes No

If yes, please list the constituent(s) and concentration measure(s) which exceed standards:

Countoured water table drawdown figured shall be produced for each analysis reported.

Groundwater Availability and Usability Statements

30. The drawdown of the aquifer at the pumped well(s) is estimated to be _____ feet over a 10-year period and _____ feet over a 30-year period.

31. The drawdown of the aquifer at the property boundary is estimated to be _____ feet over a 10-year period and _____ feet over a 30-year period.

32. The distance from the pumped well(s) to the outer edges of the cone(s)-of-depression is estimated to be _____ feet over a 10-year period and _____ feet over a 30-year period.

33. The recommended minimum spacing limit between wells is _____ feet with a recommended well yield of _____ gallons per minute per well.

34. Available groundwater is / is not (circle one) of sufficient quality to meet the intended use of the permit.

Certification of Groundwater Availability from Well Performance Test. Must be signed by a Texas Licensed Professional Engineer or Texas Licensed Professional Geoscientist.

I, _____, Texas Licensed Professional Engineer or Texas Licensed Professional Geoscientist (circle which applies), certificate number _____, based on best professional judgment, current groundwater conditions, and the information developed and presented in Hays Trinity Groundwater Conservation District Rule 11, certify that adequate groundwater is available from the underlying aquifer(s) to supply the estimated demand of the proposed project and is of sufficient quality for the intended uses.

Date: _____ (affix seal)