



Brazos Valley Groundwater Conservation District

P.O. Box 528 Hearne, TX 77859 Ph: 979-279-9350
E-mail: info@brazosvalleygcd.org Website: <https://brazosvalleygcd.org>

District Use Only
Permit No. _____
BVGCD Well No. _____

APPLICATION FOR DRILLING OR OPERATING PERMIT

One (1) Year _____ Five (5) year _____

A \$100 fee is due upon submittal of this application for each well requested.

1. Applicant(s) Information:

- (a) If the applicant is more than one individual or entity with different residences, attach a written affidavit executed by each individual and/or entity with an interest or their legal representatives describing their respective interests in the well(s), listing their names and addresses, and designating a contact person.
- (b) If the applicant is a corporation, partnership, retail water supplier or other business association, state its name and address below and attach written documentation that the contact person is authorized to represent the applicant.

Note: If the applicant is different from the owner of the land on which the well(s) is/are to be located, provide documentation from the property owner granting applicable authority for the applicant to drill and/or operate the well.

Name of Applicant: UW Brazos Valley Farm LLC

Email Address: jesse@upwell.co

Mailing Address: 7670 Woodway Drive, Suite 200, Houston, TX 77063

Phone: 415-255-4605 Fax: _____

Contact Person (if different from applicant): David Lynch

Phone: (646) 961-3272 Fax: _____

Relationship to Applicant: Co-Owner and Developer

Mailing Address: 7670 Woodway Drive, Suite 200, Houston, Texas 77063

2. Amount of Water Requested to be produced under This Permit:

(a) Provide the amount of water requested for each well in acre-feet/year.

Production _____ acre-feet/year _____ gpm

Production _____ acre-feet/year _____ gpm

Production _____ acre-feet/year _____ gpm

Production _____ acre-feet/year _____ gpm

*Please attach additional sheets as needed ****See Attachment**

(b) State the nature and purpose of beneficial use of the groundwater under the requested permit and provide any evidence (if available).

See Attachment for description of intended beneficial uses

(c) **Estimated Date/Year Drilled:** Estimated 2022-2024 (See Attachment)

Drilling Company: Brien Water Wells Phone: 979-279-2427

Address: 5214 Hwy 6 City: Hearne

State: TX Zip code: 77859

(d) Identify the aquifer(s) from which the well(s) in this application will produce:

Simsboro: , Carrizo: _____, Calvert Bluff: _____,

Hooper: _____, Gulf Coast: _____, Queen City: _____,

Sparta: _____, Yegua: _____, Brazos River Alluvium _____,

(e) **Well Information** ****See Attachment**

Total Depth: _____ Ft. Depth to First Screen: _____ Ft.

Inside Diameter of Casing: _____ In. Pump Size: _____ hp

(f) If the place of use of the groundwater is outside the district's boundaries, please indicate here with an "X": X

(g) **Well Location:** ****See Attachment for Table and Map**

Well Site Physical Address: _____

City: _____ State: TX Zip: _____

County: _____

Latitude: _____ Longitude: _____

Survey Name*: _____ Survey No*: _____

Abstract No*: _____

Section*: _____ Block*: _____

***Asterisk indicates "if known"**

Pursuant to District Rule 15.1 and Section 36.123, Texas Water Code, staff may enter and inspect the property for District purposes.

3. Attachments to Application **See Attachment for certified copy of property deed

(a) **For all wells drilled in the Simsboro Formation, provide the landowners name, contact information, and documentation showing clear legal authority, signed by the landowner of the real estate within the required contiguous acreage (per district Rule 7.1(c)), allowing water production from the requested well.**

(b) **Water Conservation Plan (Please check one):**

_____ I have attached a water conservation plan showing what conservation measures I have adopted or will adopt what conservation goals I have established, and what measures and time frames are necessary to achieve my established water conservation goals.

OR

I declare that I will comply with the District's management plan.

(c) **Drought Contingency Plan (Please check one):**

_____ I have attached a drought contingency plan showing what drought conservation measures I have adopted or will adopt, what drought conservation goals I have established, and what measures and time frames are necessary to achieve my established drought contingency goals.

OR

I declare that I will comply with the District's drought contingency plan.

(d) **Well Closure Plan (Please check one):**

_____ I have attached a well closure plan.

OR

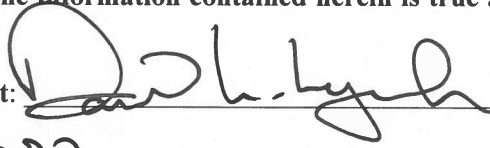
I declare that I will comply with the District's well plugging guidelines and report well closure to the District.

I agree that any water withdrawn under the authority of a permit issued based upon the District's grant of this application will be put to beneficial, non-wasteful use at all times, and will not exceed the production allowance of the permit. I agree that reasonable diligence will be used to protect groundwater quality.

I agree to abide by the terms of the District Rules, the District Management Plan, and orders of the Board of Directors, as required by State law. My certification of this application does not waive my right to protest in the future proposed District actions, including proposed amendments to District Rules. However, once the District adopts Rules, Management Plans, Permits, etc., I agree to abide by those terms, as required by State law.

I hereby certify that the information contained herein is true and correct to the best of my knowledge and belief.

Signature of Applicant:



Date: 5/11/2022

Application Revised 12-8-21

<u>District Use Only</u>	
Date received	_____
Permit No.	_____
BVGCD Well No.	_____
Hearing date	_____
Action	_____
Comments/notes:	_____



UW BRAZOS VALLEY FARM LLC

Drilling and Operating Permit Application – Attachments

Submitted to:
Brazos Valley Groundwater Conservation District

May 11, 2022

The technical material in this report was prepared by or under the supervision and direction of the undersigned, whose seal as a Professional Engineer is affixed below.

A handwritten signature in black ink, appearing to read 'J. Furnans', is written over a solid black horizontal line.



The following members of the LRE Water staff contributed to the preparation of this report.

Principal-in-Charge Jordan Furnans PhD, PE, PG
Project Geologist Stephanie S. Wong, PhD.

5/11/2022
TBPE Firm #14368

1. Applicant(s) Information:

Please see accompanying Application for Drilling of Operating form.

2. Amount of water requested to be produced under this permit:

a) Provide the amount of water requested for each well in acre-feet/year.

The following table (Table 1) that includes requested annual allocation and maximum production rate for each proposed Simsboro production well is supported by the attached hydrogeologic report, UW Brazos Valley Farms Permit Application Evaluation Report, provided by Thornhill Group, Inc.

Table 1. Amount of water requested for each proposed well on the property.

Well Name	Well Status	Requested Annual Allocation (acre-feet/year)	Requested Maximum Production Rate (gpm)
Well_B	Proposed	4,068	3,150
Well_C	Proposed	2,001	1,550
Well_G	Proposed	2,776	2,150
PS_01	Proposed	3,164	2,450
PS_02	Proposed	1,937	1,500
PS_03	Proposed	3,099	2,400
PS_04	Proposed	2,905	2,250
PS_05	Proposed	1,937	1,500
PS_06	Proposed	2,195	1,700
PS_08	Proposed	2,260	1,750
PS_09	Proposed	3,680	2,850
PS_10	Proposed	1,937	1,500
PS_11	Proposed	2,557	1,980
	TOTAL	34,516	26,730

b) State the nature and purpose of beneficial use of the groundwater under the requested permit and provide any evidence (if available).

Each of the wells will be designed and completed to obtain approvals from the Texas Commission on Environmental Quality (TCEQ) to operate as Public Water Supply wells. All water will be used for a beneficial purpose as defined in Chapter 36 of the Texas Water Code, including, for example, for municipal, industrial, commercial, recreational, agricultural, irrigation, manufacturing, mining, and/or livestock purposes. The Applicant intends to transport up to all of the water from this permit application outside of the boundaries of the District. However, some users and uses may occur within the District. At this time, the Applicant has identified potential customers and there are ongoing discussions but does not have any agreements yet. The Applicant will submit a separate transport permit application at a later date and recognizes that this permit application (if granted) will not authorize transport of the permitted water outside of the BVGCD jurisdiction.

According to the 2022 State Water Plan, water demands for all of the counties within 50 miles of the UW Brazos Valley Farm property, or immediately adjacent to the Brazos River downstream from the property, range from 311,973 acre-ft/yr (in 2030) to 601,561 acre-ft/yr (in 2070). Demands within the jurisdiction of the BVGCD range from 21,726 acre-ft/yr to 51,891 acre-ft/year in 2030 and 2070, respectively. Water produced from the UW Brazos Valley Farm could be used to satisfy a portion of these demands. Water available from the UW Brazos Valley Farm is being considered as a water supply strategy to be expressly included within the 2026 Brazos G and 2026 Region H regional water plans, and the 2027 State Water Plan.

c) Estimated date/year drilled:

Please see accompanying Application for Drilling or Operating Permit form. We will commence design and construction of these wells upon receipt of the drilling permit from BVGCD, including requesting permission to construct PWS wells from the TCEQ. Completion of all 13 proposed wells will occur as rapidly as possible given driller availability, well material availability, market demand, and other constraints.

d) Identify the aquifer(s) from which the well(s) in this application will produce:

All wells will be constructed and completed to produce from the Simsboro Aquifer (please see accompanying hydrogeological report)

e) Well information:

The information in Table lists anticipated representative well completion parameters. Proposed well completion parameters are general guidelines at this time, based on the existing Simsboro geology characterization for the property. Actual depths and material setting for each well will be determined on site-specific geologic information. Prior to development of the final well designs, at each of the 13 proposed new well sites a test hole will be drilled, formation samples collected, and

a downhole geophysical log will be obtained. This information will be used to properly design each well for the site-specific observed conditions.

Table 2. Estimated representative well completion parameters for the proposed wells.

Well Parameter	
Total Depth	1000 -1400 feet
Depth to First Screen	350-960 feet
Inside Diameter of Casing	12-18 inches
Pump Size	To be determined

The “total depth” and “depth to first screen” are provided as ranges based on information from the approved Texas Water Development Board (TWDB) groundwater availability model (GAM) for the BVGCD jurisdiction.

- f) If the place of use of the groundwater is outside the district’s boundaries, please indicate on the form with an “X”.

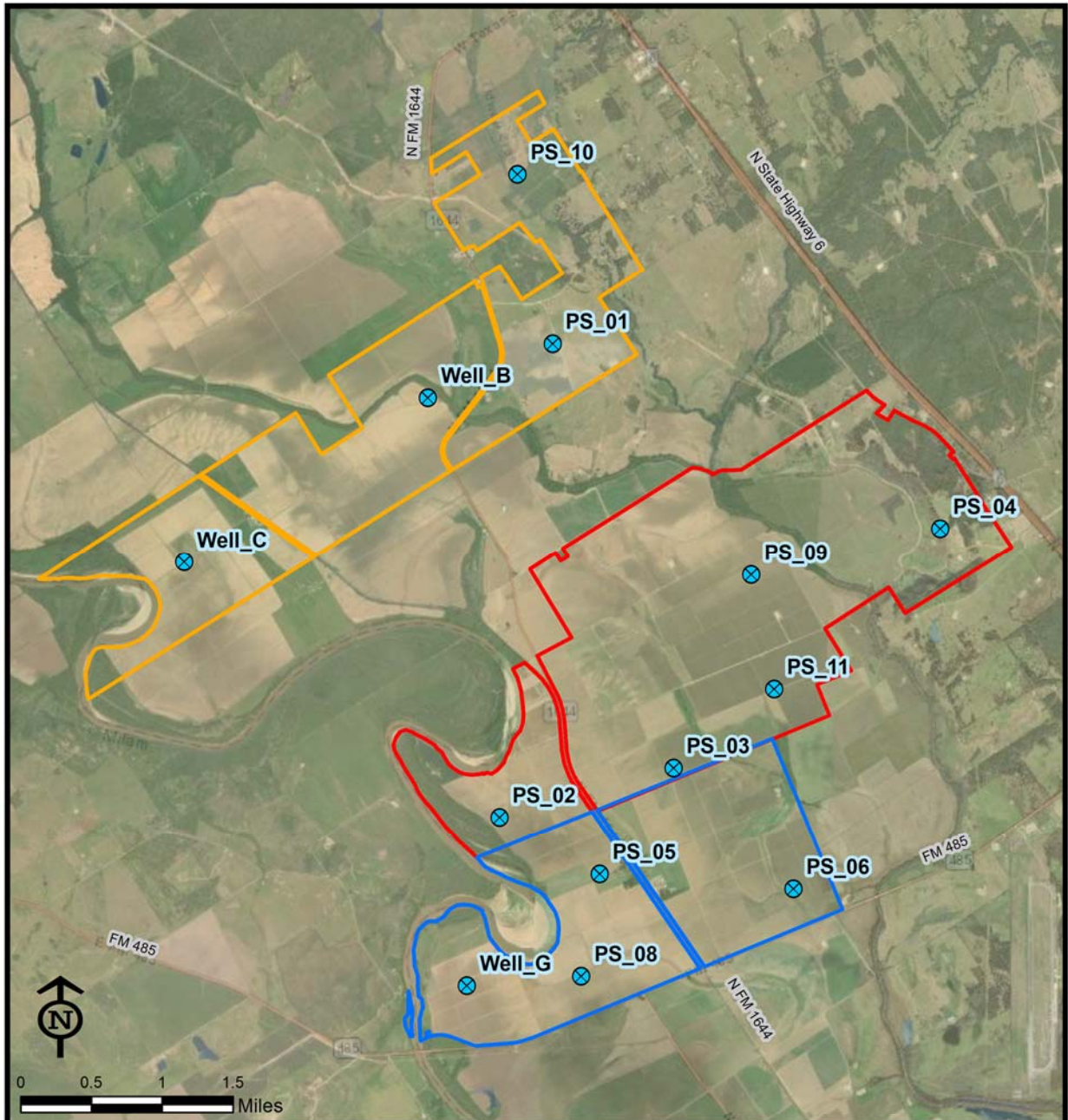
Please see accompanying Application for Drilling or Operating Permit form.

g) Well location:

Table 3 and the following map show the locations of proposed wells on the property.

Table 3. Locations of proposed wells on the property.

Well Name	Latitude	Longitude
Well_B	30.932321	-96.691592
Well_C	30.916287	-96.721219
Well_G	30.871826	-96.689291
PS_01	30.93742	-96.67656
PS_02	30.889026	-96.684725
PS_03	30.893501	-96.663845
PS_04	30.917196	-96.631244
PS_05	30.882803	-96.673047
PS_06	30.880632	-96.650098
PS_08	30.872396	-96.675639
PS_09	30.913084	-96.653847
PS_10	30.95495	-96.680068
PS_11	30.90125	-96.651604



Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community	
UW BRAZOS VALLEY FARM LLC PROPOSED SIMSBORO WELL LOCATIONS BRAZOS VALLEY GCD DRILLING-OPERATING PERMIT APPLICATION	
Prepared By: LRE Water, LLC - Texas Office Round Rock, Texas	Property Boundary Proposed Simsboro Well Barton Farm Harlan Farm Goodland Farm
<p>CONNECTING WATER TO LIFE</p>	Map prepared using information and data from Thornhill Group Inc. and Kerr Surveying. DATE: 05/03/2022



3. Attachments to Application:

- a) For all wells drilled in the Simsboro Formation, provide the landowners name, contact information, and documentation showing clear legal authority, signed by the landowner of the real estate within the required contiguous acreage (per district Rule 7.1(c)), allowing water production from the requested well.

Please see the attached certified property deed.

- b) **Water Conservation Plan:**

Please see accompanying Application for Drilling or Operating Permit form. We accept the BVGCD Water Conservation Plan.

- c) **Drought Contingency Plan:**

Please see accompanying Application for Drilling or Operating Permit form. We accept the BVGCD Drought Contingency Plan.

- d) **Well Closure Plan:**

Please see accompanying Application for Drilling or Operating Permit form. We accept the BVGCD Well Closure Plan.