

Reporting Form for Tier 1 Aquifer Testing

P.O. Box 340595, Austin, Tx 78734· Tel. 512-276-2875 · www.swtcgcd.org

Complete and submit this form as part of the reporting requirements for: 1) an Existing Well seeking an Operating Permit; 2) for a proposed New Well seeking a Non-exempt Domestic Use (NDU) General Permit; or 3) for a proposed New Well seeking to permit less than 1 million gallons per year under an Operating Permit. For Existing Wells seeking Operating Permits, you may use this form to report results from new or previously conducted aquifer tests. Additional information regarding aquifer-testing requirements is provided in SWTCGCD "Guidelines for Aquifer Testing and Hydrogeologic Reports," which is available at www.SWTCGCD.org. You may mail the completed form and other materials to the address above or email the completed form and supplemental materials to staff@swtcgcd.org.

Section I. Guidelines for Tier 1 Aquifer Testing

Before Beginning Aquifer Test

Measure and record the water level at 15-minute intervals for at least 1 hour to establish a baseline (static) water level prior to testing; report static water-level measurements in the "Test Data" section of this form. Aquifer tests should not be conducted if water levels are fluctuating rapidly (e.g., recovering from recent pumping).

Duration of Aquifer Test

Conduct a constant-rate pumping test long enough to pump at least the daily equivalent of the requested annual permitted volume (1-hour minimum), or as long as conditions (e.g., water levels, pump saver) allow. Continue collecting water-level data through the recovery phase (after pumping stops), which should be approximately as long as the pumping phase or until water levels have recovered at least 90% of the maximum drawdown observed. See Appendix A in the SWTCGCD "Guidelines for Aquifer Testing and Hydrogeologic Reports" for additional details.

Table 1. Example Calculation for Duration of Tier 1 Aquifer Testing								
Annual Permit Request (gal)	Daily Equivalent (gal)	Target Pumping Volume (gal)	Pumping Duration at 15 GPM (hr) 25 GPM (hr)					
500,000	1,370	1,370	1.5	0.9 (1-hr minimum)				
1,000,000	2,740	2,740	3.0	1.8				
10,000,000	27,400	27,400	30	18				

Frequency of Measurements

Obtain as much information as possible during the first ten minutes of the pumping and recovery phases; water levels should be measured at least every minute. Initiate recovery measurements immediately at the conclusion of the pumping phase and record them with the same frequency as those taken during the pumping phase. The frequency of water-level measurements throughout the aquifer test must provide an adequate basis to estimate required aquifer parameters. If a calibrated flow meter is not available, pumping rate may be measured or estimated at the beginning, middle, and end of the test using another approved method, such as a weir, or the time required to fill a storage vessel of known volume ("bucket test"); alternative measurement methods must be approved by SWTCGCD prior to testing.

Water-Quality Measurements

Monitor field parameters (temperature, conductivity, pH) throughout the test with tabular results reported in the "Test Data" section of this form. If laboratory analyses are available, please submit results with this form.

Section II. Administrative Information

Purpose of Reporting Form (p	lease check one)		
☐ Existing Well Seeking Oper	rating Permit		
☐ Proposed New Well Seekir	ng Non-Exempt Domestic Use (NDU)	General Permit	
☐ Proposed New Well Seekir	ng Operating Permit for less than 1,0	000,000 gallons per year	
Owner Contact Information			
Well Owner/Applicant Name	(s):		
Email:			
Mailing Address:			
City:	State:	Zip:	
Primary Phone:		Secondary Phone:	
☐ Check if Physical Well Addı	ress is same as Mailing Address.		
Well Information			
Well Registration/Identificati	on Number:		
	erent from Owner Mailing Address):		
City:	State: TX	Zip:	
	ww.maps.ie/coordinates.html)	_,	
Latitude:	Longitude:		
Aquifer(s): Upper Trinity	☐ Middle Trinity ☐ Lower Trinity	□ Other (please specify):	
Wellhead Elevation:	Total Well Dep	th:	
Pump Depth:	Pump Size (HP):	Well Capacity (GPM):	
Casing Sizes and Depths:		Screened Interval(s):	
Technical Consultant Contact	Information		
Technical Consultant Name(s	5):		
Email:			
Mailing Address:			
City:	State:	Zip:	
Primary Phone:		Secondary Phone:	
Testing Requirements			
Requested Annual Permitted	Volume (gallons):		
Daily Equivalent Volume (gal	lons; divide Requested Annual Volui	me by 365):	

Minimum Required Pumping Duration (minutes; divide Daily Equivalent Volume by Target Pumping Rate):

Target Pumping Rate (gallons per minute):

Section III. Aquifer Testing Information

General Information

Pumping Start Date/Time:	Pumping End Date/Time:					
Water-Level Measurement Method (e.g., eline, t	transducer, etc.):					
Pumping-Rate Measurement Method (e.g., calibrated meter, bucket test, etc.):						
Water Quality Laboratory Analyses Available:	☐ Yes ☐ No (If yes, please submit results with this form)					
Digital Water-Level Data Available: □ Yes	□ No (If yes, please submit data with this form)					

Static Water-Level Measurements

Time	Water Level (depth to water)	Measurement Method	Notes

Testing Data (continued on next page)

Utilize the "Notes" field below to record observations such as the time pumping starts and stops, changes in the appearance or smell of produced water, fluctuations in pumping rate, time pump saver is activated, or other observations related to data collection.

Time or Elapsed Time	Water Level (depth to water)	Total Drawdown (ft)	Pumping Rate (GPM)	Temp (°C)	рН	Cond (µs/cm)	Notes

Time or Elapsed Time	Water Level (depth to water)	Total Drawdown (ft)	Pumping Rate (GPM)	Temp (°C)	рН	Cond (µs/cm)	Notes
Additional Note	es:						

Test Results and Estimated Aquifer Properties

Actual Pumping Duration (minutes):
Actual Volume Pumped During Test (gallons):
Average Pumping Rate (GPM; divide Actual Volume Pumped by Actual Pumping Duration):
Maximum Drawdown Observed (ft):
Specific Capacity (GPM/ft: divide Average Pumping Rate by Maximum Drawdown Observed):

Section IV. Observation Well (if any)

Observation Well Information

Observation Well Info	ormation				
Well Registration/Io	lentification Num	ber:			
Physical Well Addre	ess:				
City:		State: TX		Zip:	
Well Coordinates (h	nttps://www.map	s.ie/coordinates.html)			
Latitude:		Longitude:			
Aquifer(s) (Note: Observation wells must be completed in the same aquifer as the pumping well):					
□ Upper Trinity	□ Middle Trinity	□ Lower Trinity □ Othe	er (please specify):		
Distance from Pum	ping Well (ft):				
Wellhead Elevation	:	Total Well D	epth:		
Casing Sizes and De	pths:		Screened Interva	ll(s):	

Observation Well - Static Water-Level Measurements

Time	Water Level (depth to water)	Measurement Method	Notes

Observation Well - Testing Data (continued on next page)

*Utilize the "Notes" field to record observations such as the time pumping starts and stops, changes in the appearance or smell of produced water, adjustments to pumping rate, time pump saver is activated, or other observations related to data collection.

Time or Elapsed Time	Water Level	Total Drawdown (ft)	Pumping Rate (GPM)	Temp (°C)	рН	Cond (μs/cm)	*Notes
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Additional Notes	•									
hereby submit th certify that I am th with District Rules, advance notice or,	s form to the Sout e property owner/ Well Constructior in an emergency,	ized Agent* Sworn Schwestern Travis Coun grantor or lessee/grant Standards, and ground immediately, with such ter quality samples, and	ity Groundwater tee or its Authori dwater use perm n emergency acce	ized Agent, and plan reess reported t	nd that each equirements. to the owner	and all the state I hereby author if advance notic	ments herein are ize the District ac e was not possibl	true and correct, a cess to this propert e. The District may	nd that I will cor y following reaso access the well	mply onable
Signature of Applica *Notarized Agent A		gent* Required if Signature No	Print Name of the Well Owner,			Date	_			
State of Texas, Cou	nty of	. SWC	ORN TO AND SU	JBSCRIBED	before me by	the said owner o	r agent on this the	day of	20	<u>.</u>
Notary Public, State	e of Texas			My commiss	ion expires					