

INLAND - WATER QUANTITY TESTING

Water wells may be tested by one of the following methods:

1) SUSTAINED YIELD & STABILIZED DRAWDOWN METHOD:

- a.) A minimum of 1200 gallons must be discharged from the well during the test as measured by a water meter of suitable size.
- b.) Well test pumping shall be conducted for minimum 4 hour duration.
- c.) Sustained yield shall be determined by three consecutive measurements within a 10 minute period.
- d.) Stabilized Drawdown shall be determined by three consecutive measurements 10 minutes apart in a 30 minute period that vary no more than +/- 0.1 feet (or +/- 1 inch) as measured by an electronic water sensor.
- e.) Discharge shall be directed to a point sufficiently distant so as to not allow recharge of the well.
- f.) Water table recovery shall be measured every 10 minutes for 90 minutes immediately following the pump test.

Shallow wells, those <40 feet in alluvium or marine terrace deposits or <60 feet in bedrock, must be tested between August 20 to October 31. See Water Testing Policy #26.09.

2) **SEALED WELL METHOD:** where drawdown and recovery data can not be obtained due to the construction of the well/pump discharge plumbing the following method may be used:

Where a well log is available

- 4.11) Calculate the total water available in the casing and gravel pack, assuming the well is completely full.
- 4.12) Pump the well to obtain at least 1200 gallons in 24 hours after subtracting twice the quantity calculated in step 4.11.
- 4.13) The person conducting the test must submit a statement certifying that the well is, in their opinion, indicative of water feasibility on the division.

Where NO well log is available

- 4.21) Calculate the total water available in the casing and gravel pack, assuming the well is completely full.
- 4.22) Pump the well to obtain at least 1200 gallons in 24 hours after subtracting twice the quantity calculated in step 4.21. This step is to be repeated 24 hours after the first pump test.
- 4.23) The person conducting the test must submit a statement certifying that the well is, in their opinion, indicative of water feasibility on the division.

3) **SPRING TEST:** spring tests subdivisions may be acceptable under the following conditions:

- 1) A spring shall be proof of water only for the parcel for which it is on.
- 2) A spring shall not be located in a defined drainage course.
- 3) A spring shall be adequately protected
- 3) A spring flow shall be measured at the source where free flowing water emerges to the surface.
- 3) A spring flow measuring methodology shall be described in detail.
- 4) A spring flow shall be performed between August 20 and October 31.

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