

Well Site Investigation Report Requirements

s. NR 811.09(4)(j)1., Wis. Adm. Code



In addition to the engineering report requirements outlined in s. NR 811.09 (4), specific information relevant to the type of project being proposed must be provided. For a groundwater source, this includes a well site investigation report as described in s. NR 811.09(4)(j.), Wis. Adm. Code, as provided below. The well site investigation report submittal must include the \$500 well review fee (*s. 281.34(2), Wis. Stats.*), detailed information and maps consisting of, at a minimum:

- a. The proposed well location by quarter-quarter section, township, range, county, latitude and longitude;
- b. The boundaries of site and the location of the well on the site;
- c. The topography of the site;
- d. The regional 100-yr flood elevation;
- e. The past and present use of the proposed site;
- f. A summary table or list of and map showing potential contamination sources within $\frac{1}{2}$ mile of the well location;
- g. The specific geological formation(s) from which water will be pumped or withdrawn;
- h. The test or final well construction details, or both, including the descending order and depths of the specific geological formations to be penetrated;
- i. The proposed test and/or final well pumping capacity, in gallons per minute;
- j. The direction of groundwater flow in the specific geological formation(s) from which water will be pumped or withdrawn;
- k. The zone of influence of the proposed well consisting of the distance to one foot of aquifer drawdown at the anticipated final pumping rate when pumpage of the well is assumed to be continuous without recharge for 30 days;
- l. The recharge area for the well;
- m. The results from any previous test wells including details of test well location and construction, water quality, pumping conditions including drawdown effects, if applicable, on other nearby wells or surface water bodies, geologic borings, and seismic, resistivity or other groundwater investigations;
- n. The anticipated annual volume of water to be withdrawn and the compatibility with the existing water supply facilities (i.e. comparison of water quality parameters);
- o. The location of and data from any piezometers;
- p. The location of any nearby wetlands;
- q. The distance and direction of the proposed well to the nearest existing well serving another water utility;
- r. The distance and direction of the proposed well to the nearest neighboring private wells within 1,200 feet of the well site;
- s. The location and distance to surface water and springs;
- t. The locations of alternate well sites for the proposed well;
- u. A summary evaluation of site including advantages and disadvantages, and the need for any possible water treatment.