**Section 602.305 Operating Permit Applications**

a) All applications for operating permits must be on Agency forms and must contain:

1) the community water supply's name, address, identification number and project name;

2) the construction permit number, type of construction permit, and date the construction permit was issued;

3) an explanation of the status of the construction project. If the project is only partially completed, the applicant must provide the information set forth in Section 602.320; and

4) any other information required by the Agency for proper consideration of the permit, including the submission of the water sample results under Section 602.310.

b) If the operating permit application is for the operation of a well, the application must include the following information in addition to the information required by subsection (a):

1) final geologic well log;

2) aquifer property data;

3) lateral area of influence, as calculated under 35 Ill. Adm. Code 671.Subpart B;

4) delineated wellhead protection area;

5) pump test data:

A) the latitude and longitude of the observation well;

B) test pump capacity head characteristics;

C) static water level;

D) depth of pump settings; and

E) time of starting and ending each test cycle;

6) static water level in the production well and observation wells;

7) pumping water level in the production well;

8) transmissivity in gallons per day per foot of drawdown (GPD/ft);

9) hydraulic conductivity in gallons per day per square feet (GPD/ft2) or feet per day (ft/day);

10) saturated thickness of the aquifer (ft);

11) storage coefficient or specific yield (dimensionless);

12) recording and graphic evaluation of the following, at one-hour intervals or less:

A) pumping rate;

B) pumping water level;

C) drawdown;

D) water recovery rate and levels; and

E) specific capacity, measured in gallons per minute per foot (GPM/ft) of drawdown;

13) a determination of the regional groundwater gradient and flow direction:

A) if the groundwater gradient and flow direction was estimated, provide the data, and the source of that data;

B) if the groundwater gradient and flow direction were not estimated, provide the longitude and latitude of the wells used, well logs, and the water elevations observed in the wells during the pump test;

C) provide the compass direction clockwise from north in degrees; and

D) provide the gradient;

14) geological data:

A) a driller's log determined from samples collected at 5-foot intervals and each pronounced change in formation;

B) accurate geographical location, such as latitude and longitude or GIS coordinates;

C) records of drill hole diameters and depths;

D) order of size and length of casing, screens, and liners;

E) grouting depths;

F) formations penetrated;

G) water levels; and

H) location of any blast charges; and

15) analyses of water samples for the constituents listed in 35 Ill. Adm. Code 620.410(a) and (b).

(Source: Amended at 47 Ill. Reg. 7449, effective May 16, 2023)