

### 3.3 Wastewater Flows

Revision: October 31, 2013

Assigning wastewater flow projections to a proposed subsurface sewage disposal system is necessary to adequately design the system and is required as part of the permit application by IDAPA 58.01.03.005.04.j. The term *wastewater flow* refers to the amount of wastewater a structure will generate in gallons per day (GPD). These flow estimates provide the basis for determining the minimum septic tank volume and subsurface disposal system sizing (IDAPA 58.01.03.007.07.b and 58.01.03.008.03.a). For most proposed projects, IDAPA 58.01.03.007.08 is used for providing the quantitative daily wastewater flow estimates necessary to design the proposed subsurface sewage disposal system.

Due to the limited number of commercial/industrial establishments and flow scenarios provided in IDAPA 58.01.03.007.08, not all proposed commercial or industrial projects will be capable of proposing daily wastewater flows based on this rule. IDAPA 58.01.03.005.04.d provides the applicant the allowance to propose wastewater flows through other appropriate measures to adequately size the subsurface sewage disposal facility. Daily wastewater flow projections may be provided from other sources when a proposed residential, commercial, or industrial project is not covered by IDAPA 58.01.03.007.08, or when an applicant feels that the daily wastewater flow projections for a commercial or industrial facility provided in IDAPA 58.01.03.007.08 are higher or lower than actual daily peak wastewater use for similar facilities.

Other appropriate measures for daily wastewater flow estimation as described in IDAPA 58.01.03.005.04.d must include the nature and quantity of wastewater the system will receive. Adequate documentation must be submitted with the permit application detailing the basis for the estimate of the quantity of wastewater and its nature (IDAPA 58.01.03.005.04.j). In the documentation include a description of the commercial or industrial facility's proposed operation, referred to as a Letter of Intended Use. Letter of Intended Use elements are described in section 3.3.1. Appropriate measures and documentation for the provision of empirical wastewater flow data not provided in IDAPA 58.01.03.007.08 are described in section 3.3.2.

#### 3.3.1 Letter of Intended Use

As part of the permit application, the applicant must provide information regarding the type of establishment served (IDAPA 58.01.03.005.04.c), nature and quantity of wastewater the system will receive (IDAPA 58.01.03.005.04.j), and documentation that substantiates that the proposed system will comply with IDAPA 58.01.03 (IDAPA 58.01.03.005.04.o). This information should be included in a Letter of Intended Use that contains the following minimum elements:

- Description of the commercial/industrial processes that are occurring within the facility.
  - Type of business that will be discharging to the subsurface sewage disposal system and the processes involved in its operations.
  - Maximum number of employees and customers within the facility at any given time now or in the future if expansion is to occur later.
  - Estimated daily wastewater flow that may be produced by the domestic, commercial, and industrial uses occurring within the facility. Estimated daily wastewater flow projections must either be supported by IDAPA 58.01.03.007.08 or follow the guidance regarding empirical wastewater flow data as provided in section 3.3.2.