

Application rate:

2.5 in/week

The wetted area and the application rate in the draft permit are in accordance with the current permit.

Site capacity:

The maximum allowable flow to the spray field is as follows:

$$\begin{aligned}\text{Site capacity} &= \frac{A_{\text{Site}} \text{ (acres)} \times \text{WLR (in/week)} \times 43,560 \text{ ft}^2/\text{acre} \times 7.48 \text{ gal/ft}^3}{12 \text{ in/ft}} \text{ gal/week} \\ &= \frac{152 \times 2.50 \times 43,560 \times 7.48}{12} \\ &= 10,317,900 \text{ gal/week maximum or 1.474 MGD (7-day average)}$$

7.2. *Groundwater Monitoring Requirements:*

The intent of monitoring is to determine the influence of the land treatment system on the quality of the groundwater. Groundwater leaving the spray field boundaries must meet drinking water maximum contaminant levels (MCLs).

In accordance with EPD requirements for all municipal LAS facilities, groundwater will be monitored for the following parameters:

Parameter (units)
Depth to Groundwater (feet)
Nitrate, as N (mg/L)
pH (standard units)
Specific Conductivity ($\mu\text{mhos}/\text{cm}$)
<i>Escherichia Coli</i> (#/100mL)

Based on the application submitted, it has been determined that monitoring for additional parameters is not required at this time.

Groundwater monitoring at the site is conducted in one upgradient (U001), one midfield (M001), and six downgradient (D001; D002; D003; D004; D005; D006) wells.