

7.3. Soil Monitoring Requirements:

The intent of monitoring is to determine the influence of the treated wastewater on the soil chemistry/composition. It will also aid the permittee with operation and maintenance of the land treatment system.

In accordance with EPD requirements for all municipal LAS facilities, requirements to conduct soil fertility tests, as well as Cation Exchange Capacity and Percent Base Saturation analysis (depending on pH results), have been included in the draft permit.

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

7.4. Surface Water Monitoring Requirements:

The intent of monitoring is to determine if the facility has an impact on perennial surface water adjacent to or traversing the sprayfields by comparing results from upstream and downstream samples.

Surface water, if present, will be monitored for the following parameters:

Parameter (units)
Nitrate, as N (mg/L)
Five-Day Biochemical Oxygen Demand (mg/L)
Specific Conductivity ($\mu\text{mho}/\text{cm}$)
pH (standard unit)
Total Kjeldahl Nitrogen (mg/L)
Temperature ($^{\circ}\text{C}$)
Dissolved Oxygen (mg/L)

There are no perennial surface waters identified in the Design Development Report and permit application.

8. Other Permitting Considerations:

8.1. Service Delivery Strategy:

The permittee is in compliance with the DCA-approved service delivery strategy for Brooks County.