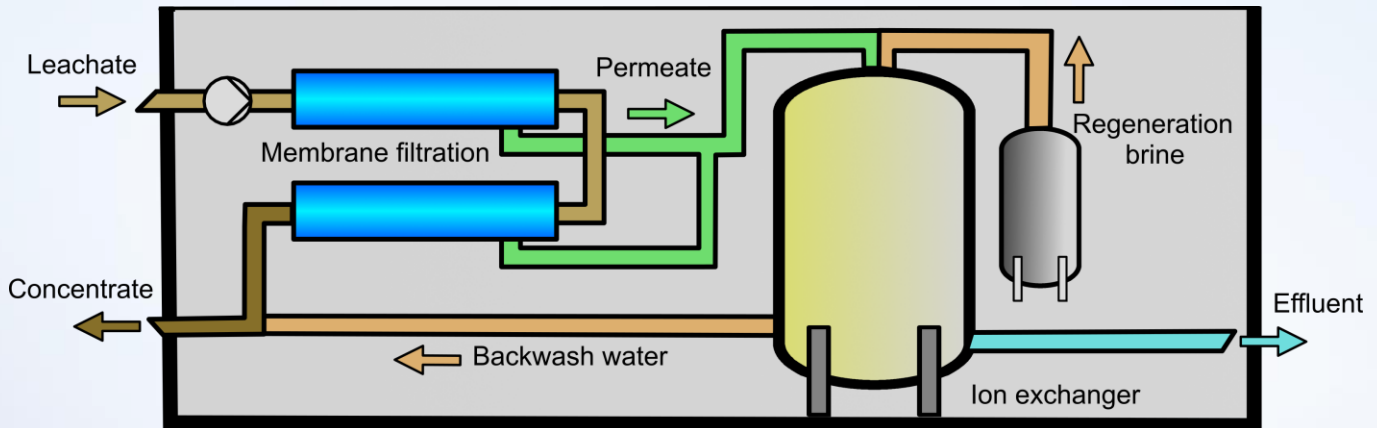


ION EXCHANGERS



PURIFICATION OF PERMEATES FROM REVERSE OSMOSIS PLANTS FOR LANDFILL LEACHATE TREATMENT

The EPA requirements for the treatment of landfill leachate are becoming increasingly stringent.

To further optimize the quality of the permeate from membrane plants (e.g. reverse osmosis), ion exchangers can be used as a **downstream process technology**.

Ion exchangers can be designed for the **specific compounds** from the permeate by using a **suitable resin**.

Typical examples are ammonium NH_4 , nitrate NO_3 or certain metals.

For example, the concentration of **ammonium (NH_4)** can be reduced from <10 mg/L to <5 mg/L.

