

## Description

Reverse Osmosis is a leachates treatment process based on semi-permeable membranes with an operating pressure higher than the osmotic pressure.

A prefiltration process, placed upstream of the membranes, is adapted to each type of leachates : sand filter, cartridge filter or physicochemical treatment.

Depending on the treated effluent norms to reach, several stages of membranes can be used.

This process is different in its rapidity of starting up and in its large panel of treatment possibilities.

### Facility:

- Filtration equipment in container
- Reagents storage in tanks or containers
- On site cleaning
- Entirely automated operations

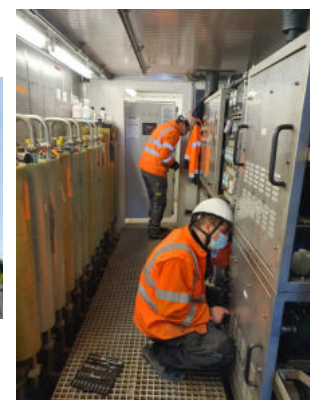
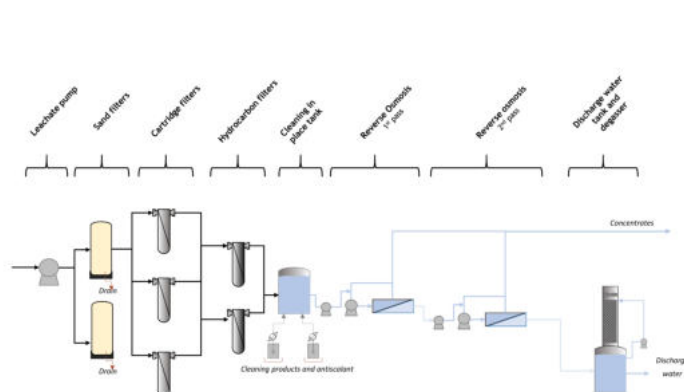
### Adaptation to LF for non-hazardous waste:

The process is very modular and adapt therefore easily to variations in quantity or quality of the leachates influent. The addition or removal of a stage/loop of membranes or of a pretreatment process allows indeed to follow this evolution.

The main leachates parameters such as the temperature, the pH and the conductivity are continuously monitored by an automaton regulating in real time the pressure and flow rates. The drift of one of the parameters causes the automatic shutdown of the process.

In case of emergency, the facility might be transported, installed and started up within a week.

## Flow sheet



## Advantages

- ▶ Quality of the treatment
- ▶ Rapidity of intervention
- ▶ Compact facilities

## Focus

- ▶ Large stock of equipment for a rapid adaptation
- ▶ Support with concentrates management
- ▶ Pre-treatments adaptation