



# Solids

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# Solids

Sludges and soils, which count with completely different physical-chemical characteristics, are included in this group of schemes.

A sludge, also called mud, is defined as a semisolid residue which is produced, decanted or settled during a water treatment. They are generated in the septic tank of houses, shopping malls, offices or industries, or produced in a water treatment plant, as well as control units of atmospheric emissions.

A soil is the uppermost layer of Earth's crust, which results of the decomposition of rocks by sudden temperature

changes and by the action of the water, wind and living beings. The chemical composition and physical structure of the soil at a certain location are determined by the type of geological material that originates, by the vegetal cover, by the time that weathering has acted, by topography and by artificial changes resulting from human activities.

The study of physical-chemical and microbiological parameters in this matrix allows evaluating its quality, conservation and proper management.

## Soils: Physical-chemical

[ref. 990017]



Round I
<p>Week 43 23<sup>th</sup> October 2023</p>
<p>Arsenic Cadmium Calcium Chromium Conductivity at 20°C Copper Iron Lead Magnesium Manganese Mercury Nickel pH Potassium Sodium Total phosphorus Zinc</p>

Metals will be determined as "total metals"

## Sludges: Physical-chemical

[ref. 990013]



Round I	Round II
<p>Week 13 27<sup>th</sup> March 2023</p>	<p>Week 36 4<sup>th</sup> September 2023</p>
<p>Arsenic Cadmium Chromium Copper Iron Kjeldahl nitrogen Lead Manganese Mercury Nickel pH Zinc</p>	<p>Aluminium Cadmium Chromium Conductivity at 20°C Copper Lead Mercury Nickel Total organic matter Total phosphorus Zinc</p>

Metals will be determined as "total metals"

## Sludges: Microbiology

[ref. 990027]

Round I
<p>Week 10 6<sup>th</sup> March 2023</p>
<p><i>Clostridium perfringens</i> Enterococci <i>Escherichia coli</i> Faecal coliforms <b>New</b> <i>Salmonella spp.</i> Total coliforms</p>

Round not included in our accreditation by ENAC

## Solids in Wastewater

[ref. 990016]



Round I	Round II
<p>Week 8 20<sup>th</sup> February 2023</p>	<p>Week 20 15<sup>th</sup> May 2023</p>
<p>Dissolved solids at 105°C* Fixed suspended solids* Fixed total solids* Settleable solids* Suspended solids Total solids at 105°C* Volatile suspended solids* Volatile total solids*</p>	<p>Dissolved solids at 105°C* Fixed suspended solids* Fixed total solids* Settleable solids* Suspended solids Total solids at 105°C* Volatile suspended solids* Volatile total solids*</p>

\* Parameter not included in our accreditation by ENAC