

PROCESS OF SLUDGE AND EFFLUENT TREATMENT

Thanks to specific equipment and adapted methodologies, **EMO** is fully competent to answer your needs and to offer solutions in conformity to local regulations laws for municipal and industrial effluent & sludge treatment (food processing industry, metallurgy, stationery shops, paper mill).



Raw sludge

Flocculated sludge

Thickened sludge

Dewatered sludge



The **Process and Engineering department of EMO** does rely on its know-how and its experience in sludge and effluent treatment to assist you in:

- ✦ Sludge and effluent characteristics determination
- ✦ Process stream definition, equipment type selection through pilot tests completed in laboratory
- ✦ Determination of the process efficiency and definition of the relevant process performance warranty
- ✦ General arrangement & installation design of the effluent / sludge treatment building
- ✦ Carrying tests on site



Effluent treatment



Sludge flocculation



Drying tests on dewatered sludge

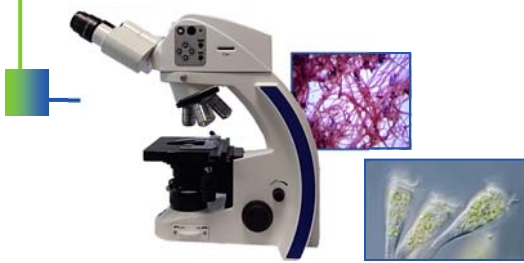


Dewatering tests



Characterization and conditioning of sludge

Sludge microscopic observation :
Micro organism and proliferation of filamentous bacteria determination



Sludge and effluents conditioning

Chemical products are tested to determine the best possible process stream and equipment selection.



Tests in laboratory

SETTLING

Study of sludge settling speed.



FLOTATION

Flotation tests to simulate one flotation unit



THICKENING



Thickening cell to simulate one gravity belt thickener

DEWATERING



Compacting cell lab tests are done in our laboratory to determine the limit dryness with any kind of sludge.

GRANULOMETRIC STUDY OF SANDS



Pilot units

GRAVITY BELT THICKENER



BELT FILTER PRESS

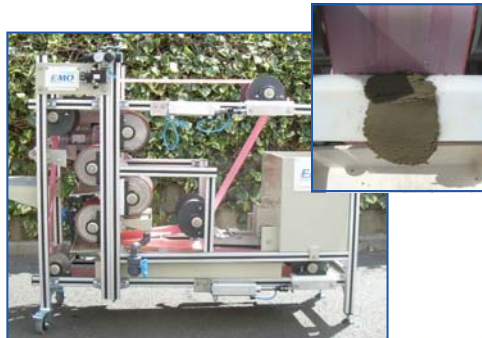


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