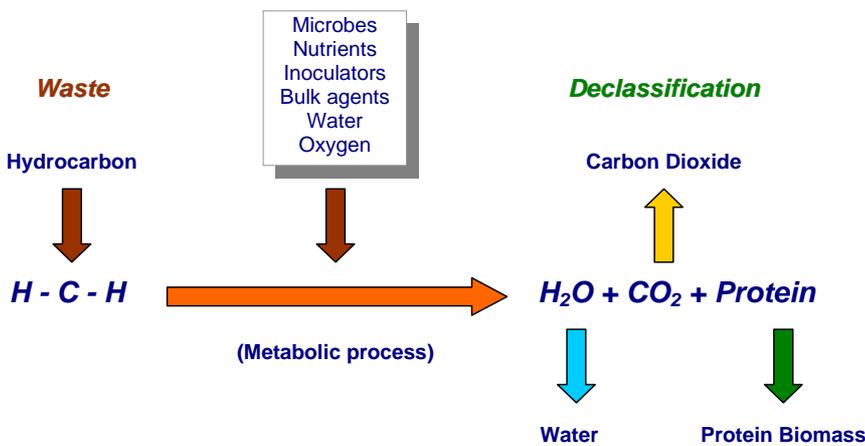


Bioremediation of oily solids

Environmental Remedies (ERCO) a sister company of G-force Consulting Engineers BV was established in March 2000 for the purpose of completing the process of oily waste treatment through decommissioning the solids waste removed from the liquid waste treated in G-force Plants.

Regulations under USEPA

ERCO is unique in that it specializes only in the treatment of oily "solids" waste utilizing the method of Compost Bioremediation. This method allows for the decommissioning of oily solids through a natural process of hydrocarbon decomposition by microbial action. The finished product, after the removal of oil, is a commercial grade product if declassified under the USEPA 503 Rule. By meeting this USEPA specification the compost material can be bagged and market through the Agriculture and Ornamental Horticulture business sectors.



The process

Composting of oily solids requires approximately 4 months to reach declassification. Oily waste solids having an oil content in the range of 5% to 50% are suitable for composting. This is similar to a farming operation where rows are laid

out and tended to throughout the oil decomposition period to insure optimum microbial activity. This involves row building, the addition of nutrients and most importantly periodic watering and the daily induction of oxygen by custom designed equipment. Recording keeping is paramount to track all incoming oily waste and outgoing treated compost to comply with audits and regional environmental regulations. This also involves analytical and field laboratory testing to benchmark initial and final oil content and trace element measurements required for closure. ERCO provide the know-how, the specialized equipment and/or the full services to operate the Waste Facility handling all composting requirements at a fixed rate per m^3 .

Please contact us for technical details involving the complete process, the required equipment and the full turnkey services provided.



$$\text{Free Pore Space (FPS)} = 100 (1 - \text{BD}/\text{SG}) \times \text{Dry Mass}$$

BD = Bulk Density & SG = Specific Gravity

Maximum Oxygen consumption (equated to maximum microbial activity) in a composting operation occur at approximately 65% moisture and a FPS of 30%

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