

## PROJECT FOR THE RECOVERY OF CRUDE SLOP IN PONDS



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### INTRODUCTION

In all oil extraction sites there are PONDS that accumulate leftovers of crude. These occur during their normal operation of the work or appear due to any sort of incidence during the process.

Each POND in the open air entails a number of problems:

- When it rains, they fill with water, which provokes **polluting spillages**.
- Sometimes the **retaining walls give in**, also leading to such spillages.
- Inadequate waterproofing causes **pollution in aquifers** and adjoining lands.
- There can be **hydro-carburet emanations** of various toxicity levels.
- The crude accumulated in these ponds represents **an objective loss of the product** - that has a significant and important value.

The project focuses on recovering this crude oil by means of our product: **OILFLUX (POND P50)**, separating the water and reintroducing the recovered & dehydrated oil.

This generates considerable benefits for the producing company, at the same time that, **the severe environmental problem caused by the spillage in these ponds is properly addressed.**



## OPERATION

Using **transfer pumps**, the crude + water are mixed in the POND. At this stage, at the pump's entry, the product **OILFLUX (POND P50)** is injected at a ratio of **5% of the volume** of the pumped oil \* (always according to tests carried out in a particular area).

The mix is deposited in tanks featuring **heater**, **agitator** and **drain** to extract the water that will be separated at the bottom of the tanks.

The separated oil will remain in the tank.

The crude that has been recovered is sent to a **receptor deposit** and, right afterwards, it is reintroduced in the circuit that leads to the **multiple**, where the product that comes from various extractions wells is collected.

The water separated from the crude can be treated by means of an electro-chemical process and can then be re-used to clean the tanks, for industrial cleaning, irrigation, etc.

**The amount of water recovered approaches 95% of the total.**

The rate of separation **is continuous**, in terms of the following parameters (according to a test):

- Tank capacity: **40 TM**
- Pumping Rate: **10 TM/h**
- Extraction Rate: **10 TM/h**
- Average time present in deposit: **4 hours**

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\* A previous analysis is necessary for each of them.  
The pumping capacity employed, according to our estimates, is; **10 TM/h. 10 TM/h x 24 h/day x 300 days/year=72.000 T/year.**  
Therefore, just one system has the capacity to treat 7 annual ponds of **10.000 T.**  
However, if we consider the time it takes for the transport of the systems, we must add a margin; we consider that what can actually be treated is **60.000 T/year per system.**



OILFLUX APPLICATION CIRCUIT (POND P50)

