

Cost Comparison for Crude Sludge Lagoon Cleaning & Oil Recovery

5,000 barrels to be removed

Petromax Sludge Conditioning

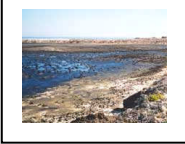
\$ 70.18
per bbl

\$106.47
per bbl

Conventional Method – Water Blasting

\$108,000

\$180,000



6,250 bbls of fluidized sludge to handle for further processing. 20% of **Petromax** water based formula has been hydro blasted into the original 5,000 bbls of sludge. **18 days** required to empty the pit.



12,250 bbls of sludge to handle for further processing. Minimum of 150% water has been hydro blasted into the original 5,000 bbls of sludge. **30 days** required to empty the pit. The amount of water and number of days required for the job may be under estimated but for comparison reasons we used 150%.



Cost of 13 storage tanks plus an additional rental cost of **\$390 per day** thereafter.

\$ 25,910

\$ 180,853



Cost of usage and cleaning 25 storage tanks plus an additional rental cost of **\$750 per day** while in use, plus the increased cost of sludge removal to the centrifuge.



Cost of dewatering **6,250** bbls of sludge (centrifuge). Cake sludge to roll off bins for transport to road base. Recovered oil to process.

\$ 85,750

\$171,500



Cost of dewatering **12,500** bbls of sludge (centrifuge). Cake sludge to roll off bins for transport to road base. Recovered oil to process.



Chemical provided at \$2.50 per gallon of ready-to-use Petromax formula.

\$ 131,250



TOTAL JOB COST

\$ 350,910

\$ 532,353

TOTAL JOB COST



\$ 70.18
per bbl

\$106.47
per bbl

Petromax utilizes a **waste minimization process** that optimizes the sludge handling aspects of the job for **faster and safer removal**. We can expect to dramatically reduce the time required for removal as well as optimize further down stream handling away from the lagoon.

The above comparison focuses solely on time and waste minimization and is not all inclusive of potential Petromax generated savings. This scenario should be applied to a specific work scope (and actual sludge samples) for a more accurate determination of costs. This diagram and specific content is for discussion purpose only.

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