



CASE HISTORY

Hazardous waste was reduced from 10,200 bbls to under 100 bbls with 98% of sludge being recoverable hydrocarbon after a floating roof tank was chemically cleaned

| Project Overview | |
|-------------------|--|
| Tank Size | 244 ft. (74 m) diameter |
| Tank Design | External floating roof |
| Service | Heavy Crude Oil/Sludge |
| Sludge Volume | 17,000 barrels (2,702 m ³) |
| % Oil Recovered | 98.8% |
| % Waste reduction | 99.1% <100 BBL (15 m ³) |



Results Achieved

Over 98% of sludge volume was salvaged as recoverable hydrocarbon

Hazardous waste reduced from 10,200 bbls (1,621 m³) to less than 100 bbls (15 m³)

A large Gulf Coast pipeline company in the United States had a large floating roof tank that required cleaning.

The company had been pumping debris/sludge from previously cleaned surrounding tanks, into this tank. The exact contents of the tank were unknown, but were expected to contain paraffin, asphalt, and production sand. Approximately 10,000 bbls (1,589 m³) of sludge was expected.

The sludge removal was done by using roof-mounted circulation tools that carried a proprietary chemical package (FQE[®] Solvent-H) and cutter stock to facilitate the dissolution of the recoverable solids and oil. Over 98% of the sludge volume was salvaged as recoverable hydrocarbon. The tank was washed and degassed using FQE LEL-V leaving the tank clean and vapor free. The insoluble bottoms were processed as non-hazardous solids for landfill application. The volume of hazardous waste was reduced from a projected 10,200 bbls (1,621 m³) to less than 100 bbls (15 m³) of non-hazardous waste.

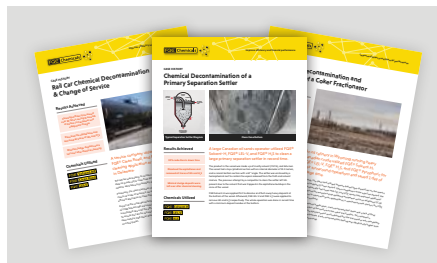
Chemicals Utilized

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Contact us

Head Office

Deer Park, Texas

4820 Railroad Street
Deer Park, Texas 77536

+1 (281) 476-9249

Calgary, Alberta

Suncor Energy Centre, West Tower
#5100 – 150 6th Ave SW
Calgary, Alberta T2P 3Y7

+1 (403) 538-3050

Perth, Western Australia

14 Cocos Drive
Bibra Lake, Perth, WA 6163

Office: 08 9434 3919

Intl: +61 8 9434 3919