



# Salvage

Pump out 6000 tons of contaminated water from hold of container ship and then remove all containers that had been damaged in a chemical explosion and subsequent fire.

## Year completed

- 2017

## The challenge

- Working in HAZMAT gear due to residual poisonous gases in the hold.
- All surfaces covered with a mixture of palm oil and nails released in the explosion and scattered across the hold
- Containers flattened and warped in the explosion and required individual rigging for removal

## The solution

- Pumping out contaminated water with hydraulic submersible pumps into waiting HAZMAT tankers
- Removal of damaged containers by accessing the hold with rope ladders, climbing gear and creative rigging to lift out by crane and gantry

## The results and benefits

- All contaminated water and cargo removed with no damage to the environment
- No injury to salvage team while working in extremely hazardous environment
- Ship discharged expediently by JF Subtech salvage crew under difficult circumstances and handed to owners for return to service

