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Highland Tank Pumper Offloading Facility with Storage Tanks and Oil/Water Separator for Gulf Spill Cleanup

Highland Tank Storage Tanks and Oil/Water Separators are designed to work on the Gulf Coast to assist in the cleanup efforts relating to the Deepwater Horizon oil spill disaster.

Highland Tank's Pumper Offloading Facility is designed as a semi permanent receiving center for extensive spill cleanup operations. Highland Tank can rapidly fabricate and deliver these aboveground vertical or horizontal storage tanks and separators required for pier side barge or inland pumper truck offloading and oily water treatment and discharge.

The facility uses the best available aboveground storage tank and oil/water separator technologies. The storage tanks are fabricated at Highland's Stoystown, PA, Manheim, PA, or Greensboro, NC facilities, three of the most advanced facilities in the United States. With our expansive buildings, heavy lift crane capacity, and state-of-the-art welding processes, coating facility, and skilled operators, they are the preferred facilities to mass produce oil and wastewater storage tanks.

The tanks can be of double walled construction or placed in an impervious steel dike area to contain any spilled fuel to comply with the facilities emergency Spill Prevention and Countermeasures (SPCC) Plan. The whole system can be designed to prevent any oil from coming in contact with the surrounding soil and halt the contamination of surface or groundwater.



To properly treat the hydrocarbon-contaminated wastewater that may be offloaded with the oil, Highland Tank can supply a model R-HTC Oil/Water Separator and an Advanced Hydrocarbon Filtration System (AHFS) with Granular Activated Carbon (GAC). This complete system with all sensors and controls can be fabricated at Highland's Friedens, PA facility, one of Highland's newer, specialty facilities.

In operation, the wastewater is pumped from the barge or pumper truck by low-shear, electric progressive cavity pumps to the Pumper/Barge Oil/Water Frac Tank. Gross settling and oil decanting can take place in the Frac Tank.

The wastewater will then be pumped using similar style pumps to the aboveground oil/water separator for removal of free oils and any oily coated solids.

The separator is equipped with a patented Corella® inclined parallel plate coalescer that combines the features of both a flat-plate separator and a corrugated-plate separator into a new, "self-cleaning" design that performs better than traditional plate coalescers.

The Corella® coalesces the oil droplets to improve efficiency and directs the flow of the separated oils to the surface and separated solids to the bottom of the separator. For further treatment, a sectionalized removable Petro-Screen coalescer intercepts minute oil droplets and prevents their discharge. An effluent pump then transports the wastewater through the combination AHFS/GAC filtration system.

This robust system consists of a particulate filter for solids removal, two AHFS cartridge-style filters for additional hydrocarbon removal, and finally, two GAC filtration vessels for final polishing of BTEX and any partially-miscible hydrocarbons. This "belt and suspender" design further minimizes the facility's impact on the environment and assures compliance with the strict environmental discharge requirements of the Gulf coast.

Like all Highland Tank equipment, in light of the Gulf oil spill emergency, we can rapidly field this equipment for the Gulf waters cleanup.

"Highland Tanks and Oil/Water Separators - Cleaning the Gulf, One Drop at a Time!"

Call today for more information or visit us at www.highlandtank.com for complete Wastewater Treatment Systems information. You can also download all of our new catalogs at: <http://www.highlandtank.com/Resources/DocSearch.asp>