

Refinery expansion aided by filtration and stormwater runoff system



Dewatered water was pumped into the LakeTank to hold for filtration.



The LakeTank required a much smaller footprint than equivalent liquid storage in frac tanks, and allows vacuum trucks to siphon off any oil.



Key contractors and Rain for Rent collaborated every step of the way to provide an engineered and effective filtration system.

Upgrades to an Eastern U.S. oil refinery required excavation for a new crude transfer pipeline. The possibility of stormwater runoff combined with below grade construction in a long dormant section of the refinery required a dewatering system to extract, store, treat, filter and discharge during construction.

Rain for Rent provided all of the equipment needed and engineered a plan for the stormwater pollution prevention and dewatering filtration needs. This allowed the refinery to have more efficient communication and deployment working with a single company. Twelve pumps, miles of hose, 35 frac tanks, one LakeTank™, manifolds, vacuum boxes and two dedicated filtration units were used to treat water during construction.

Because construction continued during the rainy summer season, a scalable filtration system was needed. Strategic use of the LakeTank allowed for oil to rise along the large surface area and be siphoned off by a vacuum truck for proper disposal. Additional filtration measures were taken by outfitting BF1000 filtration units with oil absorbing bags to handle high-flow filtration needs.

Due to the safety record and success, the refinery has since chosen Rain for Rent to provide liquid handling equipment for planned upgrades and expansions in 2014.



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