



Remediation of a 300 bbl Crude Oil Spill Utilizing Gold Crew®

On March 7, 2001 a release of approximately 300 bbl. (12,600 U.S. gal.) of crude oil occurred at a tank battery in northeast Texas resulting in heavy contamination of the site.



Crude oil released during the spill migrated from the tank battery into an area which was recently cleared and grubbed for a new pasture. This was of particular concern due to the exposed and disturbed soils. There was a tendency for the oil to pool in the locally variable topography, saturating the soil. Crude oil also traveled into an active pasture area which was subsequently isolated and slated for treatment. In addition, the night of the incident there was rainfall of 1.5 inches resulting in water/oil saturated conditions within the soil.

It was decided to utilize "in-situ burning" to remove much of the oil floating on the water contained in the various pools and pockets in the disturbed area. After the burning took place, a vacuum truck was employed to recover any remaining free oil (pooled or floating) within the area. Then a track-hoe was employed to mix, blend and homogenize the soil to an approximate depth of 18 inches, and at the same time provide a uniform grade to the site. Abundant oil was observed leaching from the soil as it was being worked and turned. Because of the very high levels of contamination, no initial soil samples were taken at the outset of the cleanup.

A 3% solution of Gold Crew was then mixed in a 120 bbl (5,040 gal.) transport vessel and sprayed evenly over the impacted areas of the site.



Then the site was left to undergo “enhanced natural attenuation” and visually monitored. Photos below were taken on June 17, 2001 approximately three months after treatment.



Photos were again taken after approximately one year post-treatment on May 29, 2002. A full vegetative cover is indicative of satisfactory remediation of the pasture area.



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