

# Bulldog Environmental Services

DEGRADATION OF CRUDE OIL SPILL TPH USING OILIMINATOR MICROBES  
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The charts below depict a 30-Day time span of a 3,000 Barrel Crude Oil Spill that was bioremediated using Oilinator Microbial Solution. Crude oil soil saturation varied from 1 to 6.75 feet below the surface throughout the spill area. Equipment used included hand tillers, hand augars, deep injection probes, tractor with 72" tiller attachment, and various spraying equipment. Sample collection areas for this study were determined by the most extensively impacted soils.

**Depths of Contamination by Sample Site:**

Site 1 – 5 Feet (Samples collected at a depth of 5 feet)

Site 2 – 6.75 Feet (Samples collected at a depth of 6 feet)

Site 3 – 1 Foot (Samples collected at a depth of 1 foot)

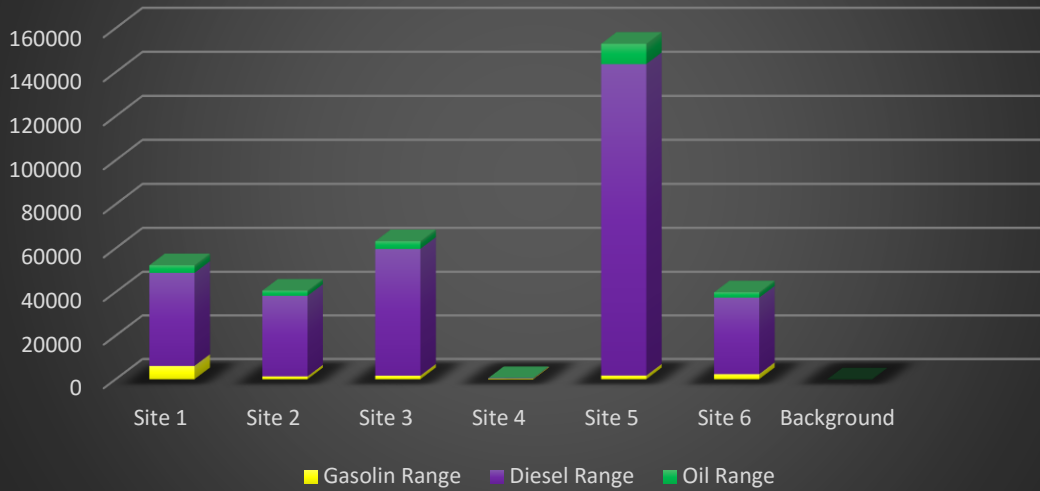
Site 4 – 1 Foot (Samples collected at a depth of 1 foot)

Site 5 – 4.5 Feet (Samples collected at a depth of 4 feet)

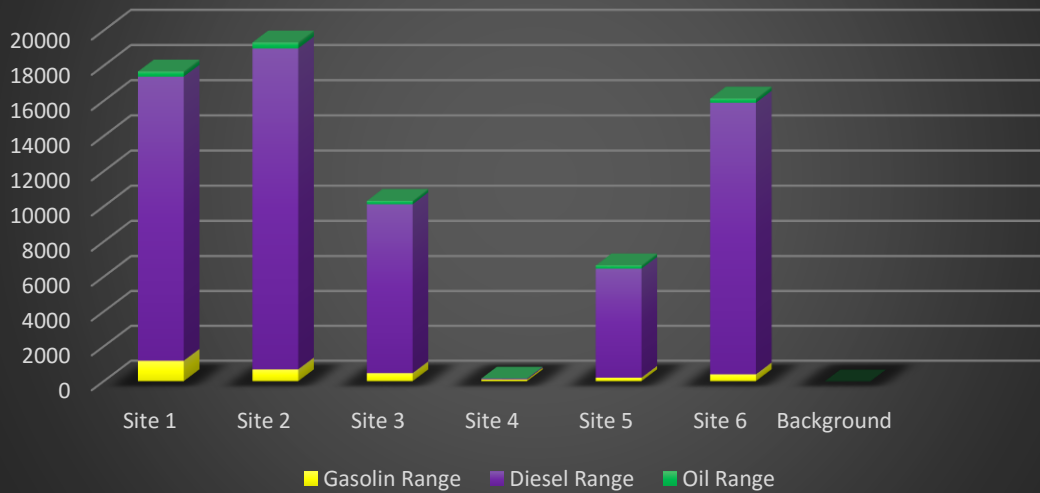
Site 6 – 6 Feet (Samples collected at a depth of 6 feet)

A total of 550 gallons of concentrated Oilinator diluted with 4,950 gallons of water was applied to the 1 acre area that was impacted from the the crude oil release. This formula was divided by average depth of contamination and surface area of contamination.

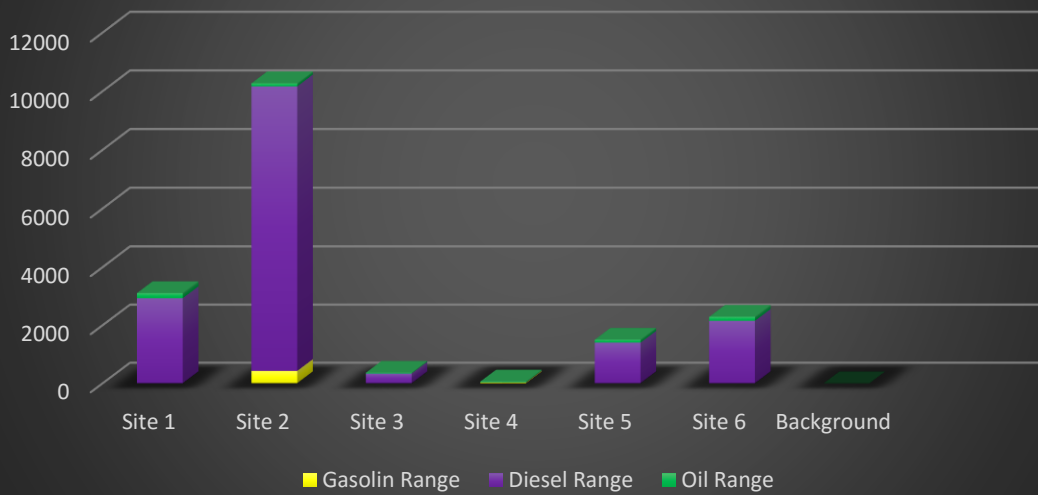
## Degradation of Crude Oil Spill TPH - Initial Bioremediation Using Oiliminitor



## Degradation of Crude Oil Spill TPH - 10 Days Bioremediation Using Oiliminitor



## Degradation of Crude Oil Spill TPH - 20 Days Bioremediation Using Oiliminitor



## Degradation of Crude Oil Spill TPH - 30 Days Bioremediation Using Oiliminitor

