

# Case Study



## Site Description – Diesel fuel spill under railyard tracks

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**Site Location:** Fort Wayne, Indiana

**Site Description:** A diesel fuel spill located under the railroad tracks in a busy railyard. The scope of the project was to treat the contaminated soil and the groundwater located under the tracks without disrupting the train traffic. Because of the busy train and road traffic digging up and treating the diesel fuel spill was not a treatment option.

**Contaminant:** Diesel fuel



**Photo 1** 10 injections points allowed us to introduce the product with minimal disruptions to trains and road traffic.

**Recommended Treatment Method (in-situ):** The area contained mostly gravel and hard soil surface along with some grassy patches.

To treat the area we developed a matrix that contained 10 injection points. Each of the sites had vertical holes drilled and PVC pipes were put into the hole. The 10 injection points allowed us to use pressure injection and gravity feeds to add microbes to the area.

The Oppenheimer Formula III was introduced into these sites in a slurry form. The slurry was made by mixing the formula with the BioCatalyst, no other products were used.

The weather conditions during treatments were mostly raining with temperatures consistently in the mid 50's. After treatment the injection points were cutoff at ground level. This allowed us to monitor the groundwater as well as allow us to re-treat potential hot spots if they arose.



**Photograph 2** Injection points within 4 feet of train tracks as trains pass by.

**Goal:** The goal of the program is to cleanup the sludge pond to allow the local community to be able to farm the land.

**Outcome:** Over a 6 month period the area affected by the diesel fuel spill was cleaned up to levels as determined by the state environmental regulations.



**Photograph 3** After treatment the injection points were left in place but cut off at ground level.