

**Situation:**

After a petroleum research facility closure in Littleton, Colorado, the structures were demolished to make space for a residential complex. Post-demolition efforts found previously undiscovered piping trenches and buried debris that contained asbestos. Subsurface contamination was identified as containing petroleum, acetone and other hydrocarbons.

**Problem:**

There was contamination from underground fuel storage tanks leaked over many years. Originally thought to be half of what was ultimately discovered, petroleum contamination permeated 20,800 cubic yards of soil and acetone contaminated nearly 3,000 cubic yards. Polluted soil, located 20-30 feet below the surface, was 5-15 feet thick with uncontaminated soil on top. The owners were experiencing a time crunch to turn the property over to investors. Additional contamination jeopardized their need for a fast-track cleanup.

**Solution:**

BELFOR Environmental's Asbestos and HazMat divisions worked together providing a fixed-bid unit-price abatement and decontamination effort to bring the project in on time and within budget. The fixed bid process supplied by BELFOR Environmental meant no change orders and no out of scope conditions.

Based on their understanding of asbestos challenges, the Colorado regulatory agencies and EPA allowed them to perform open-air abatement, speeding up the process. Asbestos teams set up wind fences to isolate work areas and misting along contamination lines. They followed up saturating the ground with fire hoses a foot deep before removal of substances. Finally, end-dumps were used to wrap, seal and dispose of 2,500 cubic yards of asbestos contaminated soil.





## BELFOR Environmental's Asbestos And HazMat Teams Work Together And Remediate Contamination On A Former Oil Site



Concurrently, HazMat teams excavated and staged clean overburden from the hydrocarbon-contaminated areas. They removed the petroleum and acetone contaminated soil at depth. BELFOR Environmental returned the clean soil to the excavation site following removal of the contaminated soils and graded the entire site. The HazMat team disposed of 20,800 cubic yards of soil and 90,000 cubic yards of overburden was removed and replaced - all within the original 30-day schedule.



### **Result:**

Despite discovering nearly twice as much contamination as originally predicted, BELFOR Environmental was able to complete work eight days ahead of schedule with zero change orders introduced to the client.

# CASE STUDY