



Project Application Profile

Project: Sunflower Army Ammunition Plant, De Soto Kansas
Contractor: Shaw Environmental, Inc.
Engineer: US Army Corps of Engineers
Product Used: Con Cover 180 and Super Seal
Date: March 2000 through February 2001

Sunflower Army Ammunition Plant Stabilization and Disposal of Explosive Contaminated Soils

Under contract to the US Army Corps of Engineers, The IT Group was responsible to provide turnkey design and construction services to execute removal of 5,600 cubic yards



of explosive contaminated soils from building sumps, drainage ditches and settling ponds at SWMU 10/11, a 25-acre site at the Sunflower Army Ammunition Plant (SFAAP). During excavation, Con Cover 180 was used extensively to stabilize exposed ditch excavations and stockpiled soil to prevent dust migration or sediment loss into the nearby creeks during removal.

Applying ConCover 180 to the Contaminated Soils



Unanticipated contamination resulted in a 500% increase in excavation and treatment of explosives contaminated soils. Due to funding constraints, 47,000 tons of Special Waste was stockpiled until funding could be made available. Since funding could be delayed upwards of 2-years, the Army was forced to develop a Long-Term Stockpile Management Plan for the Kansas Department of Health and the Environment (KDHE).

New Waste Concepts Inc

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A primary component of the Stockpile Management Plan was the Army's commitment to apply the New Waste Concepts (NWC) products, Con Cover 180 and Con Cover Super Seal 40 to stabilize the stockpiled soil. Because of the duration, IT and NWC proposed a

Day Pile Staging

Phase 2

Day 1 operation

06/27/00



mix design that would withstand adverse weather for up to two years with minimal maintenance. IT consolidated all the day piles into a single mound, measuring 200' length, 160' width, and 25' depth. Con Cover 180 was applied to the stockpile slope surfaces from the perimeter using the CAPS 900 machine with water cannon spray assembly. Once the Con Cover 180 was applied, the Super Seal 40, an acrylic polymer sealant, was applied to create an outer shell that was water resistant. Inspections

conducted by the Army and KDHE over the next 18 months documented no adverse conditions or non-conformances to the Stockpile Management Plan.

IT and NWC also modified the application of Con Cover to augment revegetation of larger disturbance areas. Simply, Con Cover was diluted, mixed with soil amendments, and applied a seed and mulch tacifier. The material was mixed at reduced concentrations and introduced into a hydroseed mix for application on vulnerable slopes and open areas adversely impacted by wind and surface water runoff. The grass seed germinated within the stable surface coating and was protected until it established in the native soils. IT measured nearly a 100% increase in turf establishment over standard hydroseed applications.

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