

In-Situ Grouting Project - WAG7 Oak Ridge National Laboratory Oak Ridge, Tennessee

to the Core.
Integrity



In Situ Grouting Project at Trench 5 & Trench 7 within the Waste Area Grouping (WAG) 7, Oak Ridge National Laboratory, Oak Ridge, Tennessee

**Contract Value:
\$4.4 Million**

**Start Date:
January 2005
End Date:
April 2006**

**Project Reference:
Rick Dearholt
(865) 425-7123
BJC Contract No.
23900-SC-OR349**

Miller supplied labor, supervisory personnel, materials and equipment to perform the in-situ grouting of trenches 5 and 7 along with seven (7) HRE fuel wells located within WAG7. The in-situ grouting consisted of driving designed sleeve pipes at a 20° angle in the soil surrounding the trench and vertical within the trench. Observation pipes, pressure grouting through the sleeve pipes and conducting hydraulic conductivity test upon completion of the grouting were also completed. The gravel within the trenches was grouted with a cement/bentonite grout and the soil surrounding the trench was grouted with a polyacrylamide grout.



Before any driving or grouting activities commenced on the trenches, a construction verification trench (CVT) was constructed that confirmed the driving and grouting would accomplish the specified isolation goal. The CVT was completed in a similar manner as the trenches. Upon completion of the grouting activities, the CVT was excavated and confirmed the procedures worked. After verification, the trenches and the HRE wells were successfully grouted.



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