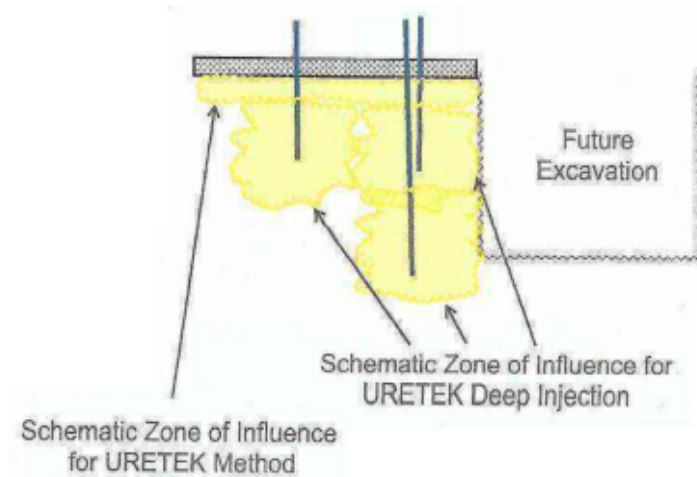


# ORNL – CSB-110 Renovation

## Oak Ridge, TN



### Project Challenges

- Renovation design included two new columns and a new sump pit.
- Excavation was through a tie slab that provided lateral support for adjacent wall, so GC needed to leave as much slab intact as possible.
- Stone supporting materials.

### Solution

- Stabilize supporting materials to facilitate minimal-layback excavation.
- Use the **URETEK Deep Injection® Process** to lock together stone fill materials adjacent to the excavation.
- Use the **URETEK Method** to lock materials directly below slab to minimize possibility of slab being undermined.

### Support

- Provided three iterations of injection plans and budget estimates.
- Met all construction requirements associated with working in secured DOE facility – background checks, rigorous safety planning, etc.

### Outcome

- **Fast:** Work performed in 1.5 days.
- **Supporting Materials Locked Together.** Contractor was able to complete excavation with only minimal slab demolition, and without undermining or destabilizing the slabs that were left.