



## **BERNIER CONSTRUCTION, INCORPORATED PROJECT SUMMARY**

**Project Title:** Former Newtown MGP Site Remediation

**Location:** Newtown, PA

**Scope:** Excavation under a building for the removal and off-site disposal of MGP-impacted soil and debris; underpinning the building by temporary supports; installation of permanent concrete piers; removal of gas holder, site restoration

Berner Construction was contracted to perform the remediation of the Former Newtown MGP site. The project included the removal of an existing brick gas holder and approximately 1,500 tons of MGP-impacted soil that was located beneath several classrooms attached to a former church.

To remove the brick gas holder and MGP-impacted soil from under the building, the existing structure required underpinning for support during excavation. The existing concrete floors in the classrooms were removed to gain access to the underlying soil.



**Installation of Temporary Supports and  
Permanent Concrete Piers**

The underpinning effort included removing the soil from around the perimeter of the building foundation system, exposing the foundation and footings, and removing soil to the prescribed depth at discrete locations. A temporary support system (cribbing and screw jacks) was installed below the building foundation. A series of concrete foundation piers were installed for permanent building support.

Mini excavators were used to tunnel under the existing concrete foundation providing access to the MGP-impacted soil. Soil was removed from under the building to a central load out area where it was loaded onto transport vehicles for disposal at a local thermal recycling facility. The sequence of excavation, installation of temporary supports, and permanent piers continued until the prescribed limits of excavation had been achieved.

After the MGP-impacted soil was removed, the exterior of the building was backfilled with clean fill. The interior was backfilled using flowable fill and covered by a Liquid Boot® membrane. The classroom has been restored to pre-remedial conditions.



**Excavating Underneath the Classroom**