



# PROJECT HIGHLIGHT

## PRECISION REMEDIATION OF FORMER MGP SITE AT PASSAIC SUBSTATION EFFICIENT CLEANUP: REMEDIATION & ENGINEERING CONTROLS

**LOCATION:** PASSAIC, NJ

**PROJECT:** REMEDIATION OF A FORMER MANUFACTURED GAS PLANT (MGP)

**CONTAMINATION:** PAHS, VOCS, HEAVY METALS

**PROJECT DURATION:** ONE YEAR AND 1 MONTH WITH PLANNING AND ENGINEERING DESIGN CHANGES, 3 MONTHS EXECUTION

**PROJECT VALUE:** \$1,400,000

### PROJECT OVERVIEW

In Passaic, NJ, a former Manufactured Gas Plant (MGP) site, now an active 64 kV electric substation, required surgical remediation and the installation of engineering controls. The project involved addressing contamination typical of MGP sites, including PAHs, volatile organics, and metals from historic fill. Key services included precise excavation, geosynthetic liner installation, impervious cap construction, asphalt paving, backfilling, and site restoration. The site posed significant challenges due to the active substation as well as limited space, complex utility infrastructure, and material management constraints. Cascade overcame these obstacles by employing a hybrid excavation approach and collaborating with engineers to modify the design for greater durability. The project was completed in 13 months, including planning, design revisions, and a 3-month execution phase, with a total value of \$1.4 million.



### RESULTS

Cascade successfully completed remediation and engineering controls at the Passaic, NJ, MGP site within the adjusted timeline. Our hybrid excavation (mechanical and soft-dig) allowed safe work around utilities and the grounding grid. Collaboration with the design engineer and liner manufacturer ensured durable impervious caps, while a structural engineer facilitated safe installations on a challenging slope and retaining wall.



EXCELLENCE ON EVERY LEVEL™

425-527-9700 | [www.cascade-env.com](http://www.cascade-env.com)

Nationwide Office Locations | Headquartered in Washington