

PROJECT SNAPSHOT

MGP ISS Project Sets Record for Client Health and Safety Audits

Location: Paulsboro, New Jersey

Service: In-Situ Stabilization, Demolition

Client: Utility Company

Project Duration: 30 field days

Contamination: MGP Residual, LNAPL, DNAPL

Project Value: \$4,500,000

Project Approach

Cascade completed a 16,500 CY In Situ Stabilization (ISS) project at a former Manufactured Gas Plant (MGP) Site, subjacent to an active 45,000 SF warehouse building. The project involved abatement of asbestos containing roof materials, demolition of the warehouse building and segregation and handling of demolition debris and salvage. Following building demolition, 12,000 CYs of overburden soil were excavated and shipped offsite for transportation and disposal. During the course of excavation, Cascade performed subsurface demolition and removal of the former gas holders and other structures. Cascade developed and performed a treatability study and developed an approach to optimize the addition of powdered activated carbon for adsorption of LNAPL in highly impacted areas.

WHAT MAKES THIS PROJECT UNIQUE?

This project was selected by the client's corporate EHS group to be the subject of an extensive, project long health and safety audit. Inspections by the client's team were conducted bi-monthly. All of the inspections resulted in no findings and satisfactory outcome. This was the first time in the client's over 100-year history with the result of no findings or compliance deficiencies.



Project Results

Cascade's treatability study demonstrated that a 30% reduction in the reagent addition successfully treated all the impacted materials. 100% of the quality control sampling and analysis were passing for all performance criteria, for UCS, permeability and leachability (SPLP). Production goals were exceeded for both building demolition and ISS. Consequently, the project was completed 1.5 months ahead of schedule and significantly under budget. Using less reagents sped up the project and saved them overhead costs.

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