

REMEDIAL SYSTEM INSTALLATION

Site Information

Croton-on-Hudson, NY
Harmon Lagoon

Client Information

Metro North Commuter
Railroad Company

Project Highlights

- The Harmon yard has been utilized for maintenance services for over 100 years.
- The site is a listed NY State Inactive Hazardous Waste Site.
- EnviroTrac installed three separate remedial systems utilizing soil vapor extraction, air injection, and LNAPL skimming technologies.
- A programmable logic controller system was installed to facilitate remote monitoring and operation.
- EnviroTrac currently provides operation and maintenance services for the systems.
- Through valued engineering, EnviroTrac saved the client over \$150,000.



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EnviroTrac was the winner of this competitive bid opportunity in 2001. The Metro-North Commuter Railroad (Metro-North), as the owner, hired LMS Engineering, Pearl River, NY as the design engineer and construction management firm. EnviroTrac was awarded the contract to construct and operate a remediation system at the Croton-on-Hudson Harmon yard location.

The site is the largest facility operated by Metro-North. It has functioned as the primary diesel and electrical maintenance and marshaling yard for over 100 years and previously included a coal burning power and steam generation facility. Site contaminants include combustible gases, PCBs, volatile and semi-volatile organic compounds. The area of concern has been designated as a New York State Inactive Hazardous Waste Disposal Site.

The system included the installation of over 70 remediation wells as part of a design that included three separate systems to recover LNAPL hydrocarbons and remediate soil and groundwater. Soil Vapor Extraction, air injection, and active LNAPL skimming systems comprised the technologies used in the system design. A programmable logic control system was installed so that operating conditions could be monitored and controlled remotely. The system was completed and started up in April 2002. EnviroTrac is currently in the operation and maintenance phase of the project. Additional work to be performed includes the installation of an impermeable barrier to prevent the off-site migration of contaminants.

Through valued engineering, EnviroTrac was able to save Metro-North over \$150,000. Modifications to the existing design including shed construction, equipment sizing, and piping layouts were among some of the cost saving initiatives.

