Silar Services Inc.

Former MGP Site, Southeast, USA

In-Situ Soil Stabilization and River Sediment Remediation

Client: Confidential

This former Manufactured Gas Plant (MGP) operated from 1925 to 1952, manufacturing gas via the water gas/carbureted water gas processes using coal and coke throughout most of the operating history. SSi completed the Supplemental Remedial Investigation and developed the Remedial Action Plan (RAP). The RAP was submitted to North Carolina Department of Natural Resources (now Department of Environmental Quality or NCDEQ) and approved in 2012. MGP-impacted soils were identified within the former MGP foot print as well as in an adjacent wetland area. In addition, dense non-aqueous phase liquid (DNAPL) was found to have migrated to sediments in the adjacent Neuse River via a historic storm sewer pipe. An Interim Remedial Measure was implemented to seal off the storm sewer and install a barrier wall to collect DNAPL and prevent continued migration. SSi completed the design for on-site, in-situ soil stabilization (ISS). The design included construction of a cell adjacent to the ISS area into which excavated wetlands soils and sediments from the Neuse River could be placed for treatment by ISS. SSi also managed the Remedial Action (RA) on behalf of the client. The remedial action was completed in February 2015 on schedule and under budget. SSi is currently performing operation and maintenance (O&M) activities at the Site.

Project Highlights

- Evaluation of MGP-impacts within the Neuse River.
- Wetlands delineation and permitting.
- Coordinated Neuse River work to abide by the requirements of North Carolina Wildlife Resources Commission moratorium to protect anadromous fish.
- Over 61,000 cubic yards of MGP-impacted soils were treated in place using ISS technology.
- Over 1,400 cubic yards of MGP-impacted sediments were excavated and placed in a constructed cell adjacent to the ISS monolith and treat using in-situ solidification technology.
- Implemented and maintained 24/7 continuous air monitoring throughout the project duration.
- Turn-key services provided including remedial investigation, remedial design, permitting, remedial construction management, and remedial action reporting.
- Prepared institutional controls.
- Performing O&M activities including groundwater monitoring and DNAPL collection.