

# NASHUA WOOD TREATMENT PLANT

Site Remediation Design  
New Hampshire

## Client:

Beazer East

## Contract Value:

\$300,000

## Performance Period:

1998—Present

## Technical Areas:

- Remediation
- Civil Design
- Geotechnical Engineering, Geology, and Hydrogeology

## Successes:

A cost-effective barrier wall provided sufficient creosote migration control, allowing the less effective pumping system to be turned off

Payback period for the wall amounted to two to three years



## BACKGROUND

SES staff was responsible for the design of a 650 foot long steel sheet pile wall along the banks of the Merrimack River, New Hampshire. The wall is approximately 40 feet deep and is intended to minimize the migration of creosote from the upland area into the Merrimack River and river sediments.

## SES ROLE

Work SES staff members conducted or supervised includes:

- River scour calculation to determine the location and depth of the wall
- Wall stability calculations
- Sheet pile evaluations and selection based on structural and seepage control considerations
- Groundwater flow modeling and flow net evaluations
- Geotechnical site investigations and preparation of construction drawings and specifications

Currently, SES is providing assistance with further site characterization, review of the performance of the barrier wall, and development of increased supplemental containment along the riverbank.



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