

Project Name

NJDEP Landfill Remediation and Closure Term Contract

Client

NJ Department of Environmental Protection

Services Provided

- Investigation and Design of Landfill Sites
- Preparation of Immediate Environmental Concern (IEC) Studies
- Assistance in the Bidding Process

Project Description

In 2002, NJDEP contracted the services of a Joint Venture of Sadat Associates, Inc. (SAI) and the Louis Berger Group to provide consulting services for the remediation of eight landfill sites throughout the State. In general, the landfills slated for closure are municipal-type landfills of more than 50 acres. The contract design tasks include IEC studies, pre-design planning and investigations, landfill closure recommendations, closure design, permitting, and bid and construction design services.

The term of the contract is five years. The estimated budget of the contract is \$4.6 million over the term of the contract.

Approach

The first assignment of the contract was the preparation of an extensive file review of NJDEP, local municipality and health department files for three landfill sites to determine data gaps and the need for further field investigation to fill these gaps. A draft pre-design planning report was prepared and submitted to the NJDEP for review and approval.

For the second assignment, three IEC reports were also prepared. Under this assignment, the project team performed a file search and file review of existing data to determine the impact of these three landfills on the environment and human health in the surrounding areas. The IEC workplans addressed the potential impact of the landfill leachate, landfill gas, and the soil contamination on the groundwater, surface water, the atmosphere, and the sediment along the surface water bodies that might be impacted by these three sites, and recommended steps to be undertaken to fill data gaps.

The third assignment called for the preparation of a Pre-Design Investigative Report for two landfills. This report evaluated and summarized several components of landfill closure, such as:

- slope stability;
- landfill gas generation analysis;
- settlement analysis;
- material excavation and handling;
- stormwater analysis; and
- grading.



The fourth assignment was to present the recommendations for the final design for two landfills to the NJDEP. This was done to determine the best course for achieving remediation at the site and closing the landfills.

The contract was initially for five years and then extended for an additional two years, which ended in May 2008. SAI was asked to pursue a landfill closure design for one of the landfills recommended in assignment 4.

[Permits](#)

The required permits for the closure of the landfills will be obtained during the upcoming task. Although a final determination of the exact nature of permits required has been made, SAI does anticipate that the following permits, at a minimum, will be required:

- air
- stream encroachment
- soil erosion
- Pinelands Commission approval
- disruption permit
- NJDEP Landfill Closure approval