



**D&B ENGINEERS
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Landfill Development and Closure

SERVICES INCLUDE:

- Site Identification and Selection*
- Environmental Impacts Review and Permitting*
- Hydrogeologic Investigation and Assessment*
- Liner and Leachate Collection and Treatment Designs*
- Gas Venting and Monitoring Plans*
- Construction Phase Services*
- Closure Design and Capping*



D&B Engineers and Architects, P.C. (D&B) has successfully completed assignments covering all aspects of siting, permitting, designing, constructing, operations monitoring, remediation, and landfill closure. Our landfill project experience includes municipal solid waste, hazardous waste, incinerator ash, coal ash, construction and demolition wastes, asbestos, sludge, and bulky wastes.

D&B utilizes a multi-phased and systematic approach to identifying a landfill site, as this has become the most difficult component of the landfill permitting process. This approach, which D&B has successfully applied to many projects, involves a comprehensive evaluation procedure utilizing multiple screening criteria, comparative evaluation analyses, sensitivity analyses and ranking.

Due to D&B's extensive involvement in hazardous and non-hazardous waste landfill siting, permitting and closure, the firm has substantial coordination and negotiation experience with regulatory agencies, leading to the issuance of permits for D&B's projects.

D&B has designed site hydrogeologic investigation plans for state and federal regulatory agency approval, directed all aspects of field investigations, and prepared site hydrogeologic investigation reports. These services have included construction and observation of monitoring wells, investigation by geophysical techniques, soil sampling, geotechnical analyses and in situ permeability testing.

The firm has also designed double-composite liner and leachate control systems, which has included evaluations of alternate liner designs, leachate treatment systems, leachate treatability analyses, and remedial liner design review for a variety of waste types.

D&B's staff have completed numerous assignments related to the control and recovery of landfill gas, gas monitoring programs, ambient air quality and landfill gas analyses, passive and active methane gas collection and venting, gas flaring, methane recovery, and power generation.

D&B's landfill closure services include site investigations; drilling; groundwater sampling; slope stability and settlement assessments; odor control; storm water management; odor abatement; cap design; and wetlands restoration.

The soundness of D&B's landfill work is demonstrated by our client's success in prevailing when landfill projects have been opposed through legal action. These challenges rely upon efforts by opponents to discredit the site selection, hydrogeologic investigation, environmental impact analyses, and landfill design. D&B's work has withstood such challenges on numerous occasions and our staff is experienced in participating in these processes as expert witnesses on behalf of our clients.