

Professional Record

Professional Synopsis:

Mr. Scheer has seventeen years of design and project management experience working on the siting, design, permitting, and construction of municipal and industrial landfill containment cells and closures.

In North Carolina and Virginia, he has served as the lead design engineer and project manager for numerous lined Subtitle D municipal solid waste (MSW) landfills including facilities in Davidson County, High Point, Johnston County, Roanoke, and Robeson County as well as for a number of private MSW, industrial, and construction and demolition debris (C&D) facilities. He has also worked on landfill closures in Davidson County, Halifax County, Johnston County, Rutherford County, and Scotland County. Typical project design and permitting experience on each facility included the design of facility components (containment design, stormwater analyses, geotechnical evaluations, and site layout and phasing), preparation of permit documents and coordination/interface with regulatory agencies, and the coordination/supervision of staff engineers and civil designers/draftsmen. Typical project construction experience included the preparation of bid and construction issue documents (specifications, CQA manuals, drawings, bid forms, etc.), managing construction, and preparation of CQA reports.

Mr. Scheer routinely performs construction and operations cost estimates and economic forecasts/financial analyses for both public and private clients.

Mr. Scheer has performed eighteen alternative liner evaluations throughout the southeast and has significant experience with the design and construction of piggyback (over waste) liner systems.

In South Carolina, Mr. Scheer worked on the remedial design for a Superfund site involving the redesign of a cover system on an old municipal landfill and the development of a plan to consolidate and cap several areas of old waste. This successful project followed EPA's presumptive remedy for remediation of old MSW landfills.

In Tennessee, Mr. Scheer was actively involved in a successful site suitability study for an industrial paper sludge landfill. This site has karst geology and required an extensive boring and geophysical program to define potential sinkholes. Mr. Scheer also designed a final closure and has evaluated slope failures within the waste at the existing landfill at this site. Also in Tennessee, Mr. Scheer designed and provided field supervision on a fast-track (1.5 months from design to project completion) remedial closure of a 6 acre inactive industrial waste site.

Mr. Scheer performed and evaluated a series of magnetometer surveys which located buried drums and metal debris within an old industrial landfill in the Northeastern United States. The drums and debris were subsequently removed from the waste.

Pieter K. Scheer, P.E. Principal, Senior Engineer

Academic Credentials:

B.S. Civil Engineering, 1990
North Carolina State University, Raleigh
M.S. Civil Engineering, 1992
North Carolina State University, Raleigh

Duties:

1996 - present - Board Member

Professional Credentials:

Professional Engineer - North Carolina, Virginia
40 Hour Health and Safety Training (29CFR1910)

Employment Record:

1994-present - Richardson Smith Gardner & Associates
(formerly G.N. Richardson & Associates, Inc.)
1993-1994 - Harding Lawson Associates
1992-1993 - Hazen & Sawyer, P.C.

Principal Areas of Expertise:

Landfill Containment and Closure Design
Geotechnical Engineering
Construction Management
Construction Quality Assurance (CQA)

Professional Activities:

American Society of Civil Engineers
American Society for Testing and Materials
Solid Waste Association of North America

Selected Publications & Presentations:

Richardson, G.N., and Scheer, P.K. (2003), "Design of Geomembrane Protective Rainsheets", *GFR*, Sept., 2003, pp. 16-19.

Richardson, G.N., Mills, G.G., and Scheer, P.K. (2004), "Geocomposite Drains in Paper-Pulp Landfill Covers", *GFR*, June, 2004, pp. 32-35.

Richardson, G.N., and Scheer, P.K. (2006), "The Enhancement of Interface Shear Strength Between Two Nonwoven Geotextiles", *Geosynthetics*, April-May, 2006, pp. 10-16.

Richardson, G.N., Smith, S.A., and Scheer, P.K., (2008), "Active Gas Control: An Unreliable Aid to Veneer Stability", Proceedings from the First Pan American Geosynthetics Conference, 2-5 March 2008, Cancun, Mexico.

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