

# Solid Waste Services

## Technical expertise and focus on clients

### Comprehensive solid waste services

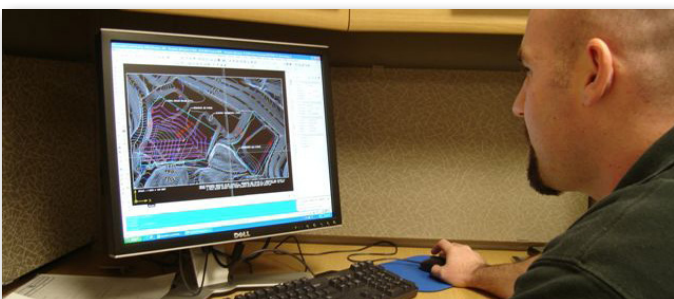
Cornerstone Environmental Group, LLC is an engineering consulting and field service firm that specializes in providing solid waste services to public and private clients around the nation. The firm is founded by industry leaders who have helped to develop and shape solid waste technology over the past 30 years. We are using our years of solid waste experience as a springboard to help our clients take advantage of exciting new technologies that are showing great promise for the future.

Cornerstone has been in the forefront of the move towards comprehensive planning necessary to operate and support solid waste facilities in an efficient and environmentally compliant manner, while accommodating future growth. We continue to expand our capabilities to adapt to solid waste regulatory and technology changes, adding significant air quality, materials recovery, and alternative energy expertise to our team.

Our years of landfill and materials recovery experience give us proficiency with all aspects of design and engineering, construction, and operations. Well known for our expertise in biogas/landfill gas collection and control systems (GCCS), Cornerstone engineers provide a consistent, performancebased approach to biogas control and utilization as well as all aspects of landfill operations.

### What sets Cornerstone apart?

- Solid waste specialization – Not a sideline or add-on, solid waste has been the foundation of our business since its inception, giving us a deeper understanding of how to improve our clients' businesses.
- Proficiency with all aspects of solid waste facility design and engineering – Our nationally known solid waste industry leaders provide expertise in feasibility analysis, site characterization, facility design and permitting, facility operations and construction management.
- Incorporating innovative elements – Cornerstone designs elements that maximize facility space and optimize the location and configuration of site features, while saving space for future facilities.
- Client focus – We listen to our clients' needs and objectives and seek to thoroughly understand the daily and long-term challenges that owners and operators face.
- Nationwide presence – While offering perspective and knowledge of local business and regulatory issues, we also incorporate successful regional, national, and international solutions.
- Providing sound yet balanced business and technical solutions – The work we do provides our clients with technical solutions that also improve their overall business standing.



## Solid Waste Services

### Landfill Design and Engineering

- Master planning and permitting
- Leachate and environmental control system design
- Hydrogeological services
- Baseline and cover design
- Infrastructure design and engineering
- Construction-related services
- Operations consulting

### Site and Civil Design

- Site engineering and design
- Surface water management design
- Environmental engineering

### Air Quality

- Air permitting and permit compliance support
- Greenhouse gas support services

### Biogas

- Biogas engineering, control system design and phasing plans
- Beneficial-use feasibility studies and design
- Biogas-to-energy projects
- Pipeline, compressor station, and electric power station design

### Transfer, Recycling, and Processing Facilities

- Solid waste management planning
- Facility planning
- Permitting
- Design
- Construction services
- Existing facility review

### Operations and Maintenance

- Biogas collection and control and leachate collection system O&M
- Leachate sampling
- Post-closure O&M, monitoring, inspections, and reporting
- Training of site personnel
- Construction Management
- Small construction project capability

## Recent Cornerstone Experience

Cornerstone prides itself on establishing close and productive relationships with our clients. A few recent examples of projects representing our broad range of solid waste services include:

**Ocean County Landfill (NJ)** – All core landfill and mission critical engineering services for this 300-acre private landfill since the 1980s, including designing and negotiating three major permit modifications and providing continued waste operations consulting.

**City of Tucson/Lizard Rock Designs (AZ)** – Sizing evaluation, civil design, and permitting of a new entrance facilities/administrative office campus at the Los Reales Landfill site, including recycling facilities and a transfer station for residential self-haul and small commercial waste.

**Solid Waste Authority of Central Ohio (OH)** – Title V, NSPS, and NESHAPs compliance reporting and permit application preparation, multi-facility carbon footprint analyses, carbon credit calculations/assistance, synthetic minor permit to install application (avoiding PSD major source status).

**Republic Services, Inc., Forest Lawn Landfill (MI)** – Landfill design, solid waste permitting, budget planning, CQA, air quality permitting, and compliance services, including plans and specifications for cells, final cover systems, and expansion of biogas collection system; LFG migration and system expansion permitting and compliance; GCCS Design Plan for NSPS compliance; lateral expansion permit application.

**LEMCOR, Inc. (NJ)** – Design, solid waste permitting, air quality permitting, site plan approval, and on-site utility design, stormwater controls, and vehicle corridors for a 2,800 MSW transfer facility, including transfer, maintenance, and office buildings.

**IESI-Seneca Meadows, Inc., Seneca Meadows Landfill (NY)** – Engineering, design, and permitting for one of the largest landfills in the northeastern U.S., including design and permitting for a 14-year expansion, closure of a 26-acre hazardous waste cell, permitting and construction oversight for a 540-acre constructed wetland, a major mining permit, and design of several facilities projects.



### For more information contact:

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