Construction Quality Assurance

Ensuring proper operations - now and into the future

Proper construction with the owner’s interest in mind

Cornerstone Environmental Group complements its facility design and permitting expertise with construction quality assurance (CQA) services. Our CQA teams provide oversight, construction monitoring, and engineering certification on all aspects of solid waste facility construction, including landfill baseliner with recompacted soil and geosynthetic materials, landfill gas and leachate management systems, final covers, and waste transfer stations. We also verify that installation of temporary management systems and controls is completed in compliance with applicable permits or regulatory guidance.

As the owner’s on-site representative, we serve as a central point of communication, coordinating between earthwork contractors, geosynthetic installers, surveyors, and testing laboratories.

In the field, our technicians and construction monitors document construction and guide construction to verify that the site’s environmental and control features function properly upon completion.

Our CQA technicians also monitor contractor operations, manage geosynthetic material testing programs, conduct density testing of soil and clay liners, and prepare sampling programs for borrow areas to determine that the proposed material will meet the project specifications.

What Sets Cornerstone Apart?

• Superior staff with a focus on clients – Cornerstone’s fundamental strength is its people, who share a philosophy rooted in providing superior service to our clients and facilitating the completion of construction projects on time and under budget.

• Landfill design expertise – With a long history of landfill design, our staff understands the individual components of landfill construction, and has developed proficiency in CQA tasks through a continual cycle of design, construction, and refinement.

• Thirty years of solid waste regulatory knowledge – Our staff’s participation with regulatory agencies in the development of solid waste regulation gives us comprehensive understanding of the reason for construction requirements and experience in ensuring a facility will perform without incident once completed.

• Excellent health and safety record – We follow stringent health and safety procedures and are proud of our incident-free record in the field.
CQA Services Provided

• Construction management and construction administration
• Construction monitors for oversight of materials installation
• Submittal review and management (shop drawings, quantity, payment, laboratory testing results)
• Test methods approval and observation
• Review of field and laboratory geotechnical and geosynthetic QA/QC
• Routine monitoring of contractor’s sediment and erosion control practices
• Review of contractor’s Health and Safety Plan
• Preparation of a Health and Safety Plan for on-site Cornerstone personnel
• Review of contractor’s work schedule
• Field testing and observation of the geomembrane
• Preparation of construction certification reports

Recent Cornerstone Experience

Cornerstone prides itself on establishing close and productive relationships with our clients. In the past two years, Cornerstone has provided CQA Services in 13 states on 18 landfill cell construction projects totaling more than 120 acres and on 29 landfill gas (LFG) construction projects, including nearly 500 gas wells and more than 6 miles of piping. A few recent examples of our CQA assignments include:

Orange County Department of Public Works (NY) – Construction support services, including management, oversight, and certification of a 675-ton per day transfer station materials recovery facility (MRF) that includes a 15,000 square foot (sq ft) transfer station building, and an 8,000 sq ft recyclables handling pavilion.

Westside Transload LLC (NJ) – CQA and certification services for a construction and demolition (C&D) waste transfer-by-rail facility, including a 1,200-ton per day rail access C&D waste transfer/materials recovery building, a scale house office building, and a recycling facility.

City of Riverview, Riverview Land Preserve (MI) – CQA Services for two phases of composite lined landfill cell construction, totaling 32 acres and two phases of LFG system expansion consisting of 56 gas wells.

Republic Services, Inc., County Line Landfill (IN) – CQA Services for construction of a 7.1 acre composite lined landfill cell and LFG system expansion including 30 gas wells and over 12,000 feet of piping.

Republic Services, Inc., Apache Junction Landfill (AZ) – CQA and certification services for two phases of composite lined landfill cell construction totaling 11.5 acres and LFG system expansion consisting of a portable flare station, 14 gas wells and 4,000 feet of piping.

For more information:
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