

SCOPE OF PROJECT

With the impending new Chapter 113 rules, the Audubon County Solid Waste Management Commission decided to stop accepting waste at the Audubon County Sanitary Landfill and proceed with the required closure construction. However, since the facility had not reached the final design elevations (due to its closing), the closure plan required modification prior to proceeding with closure construction.



BARKER LEMAR was retained to make the design modifications and to provide letting and construction services for the closure project.

IMPLEMENTATION

BARKER LEMAR reviewed the original closure plans and determined that the revised drainage system would be similar to the original design, and that the flatter slopes in some areas may allow reducing the number of terrace structures. However, it was decided to bid the project with multiple bid alternates, including the terrace structures, to allow the client to weigh the risks (erosion potential) and the rewards (cost savings).



Bid documents were prepared by **BARKER LEMAR**, a pre-bid meeting held, and a letting was conducted in the winter of 2007-08. Following the letting, the client decided not to construct the terraces, as they felt the cost savings outweighed the risk. The contract was then awarded in the spring of 2008; the contractor proceeded with work and completed it by September 2008.



As part of the construction quality control and assurance (QC&A) services, **BARKER LEMAR** provided a QC&A inspector in the field for all critical construction phases. The inspector is responsible for documenting construction progress, conducting or overseeing field testing, and the measurement and tracking of constructed quantities. The construction administration services included frequent construction progress meetings, coordination with and between the client and contractor, review of shop drawings, pay requests, and change order requests, communicating with the IDNR, and preparation of the construction certification report.

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**LANDFILL CLOSURE CONSTRUCTION -
AUDUBON COUNTY SANITARY LANDFILL -
AUDUBON, IOWA**

SERVICES

Initial design and permitting; bid document preparation; letting services; global positioning system (GPS) survey for construction staking; construction administration; QC&A; preparation of the construction certification report.

TIMELINE

Project Start Date: November 2007

Project Completed: October 2008