

SCOPE OF PROJECT

Loess Hills Regional Landfill, owned and operated by Iowa Waste Systems, Inc., increased tonnage accepted over the prior and expected the trend to continue. With declining remaining capacity determined by the annual airspace analysis performed by BARKER LEMAR, additional cell capacity was needed through cell construction. BARKER LEMAR was retained to oversee and perform several tasks in the next phase of landfill cell construction. This included project coordination, survey, leachate system installation, CQA, and as-built documentation.



IMPLEMENTATION

Construction of a 2.4 acre cell was initiated in June 2004. The client hired a contractor to perform dirt work activities. BARKER LEMAR performed construction surveys as needed for the contractor. BARKER LEMAR was on site during construction activities for observation and to perform nuclear density testing as required by IDNR (Iowa Department of Natural Resources). Upon preparation of the two-foot compacted clay liner, BARKER LEMAR coordinated with the liner company to install 60 mil HDPE and geocomposite fabric. BARKER LEMAR was responsible for the connection of the Cell C leachate lateral to the existing leachate header. Construction observation reports, photos, and surveys were summarized and submitted to IDNR for final approval and cell implementation.



SERVICES

Initial design and permitting; global positioning system (GPS) survey for construction staking and as-built documentation; liner system installation coordination and oversight; leachate system construction, including pipe welding and placement; construction CQA; as-built documentation.

TIMELINE

Project Start Date: June 2004
Project Completed: August 2004