



Case Study

Conceptual Plans for Landfill Closure and Beneficial Use of Waste

Background

A confidential client/landfill owner needed to prepare landfill closure plans and develop facilities that would beneficially use waste to produce compost, biogas and electricity, and reduce materials going to the landfill.

DEI Scope of Work

DEI was hired to conduct an evaluation of waste material currently being disposed of in the landfill and develop conceptual plans for the beneficial use of the property as well as preliminary designs for landfill closure.

DEI Tasks

DEI was responsible for the following work tasks:

- Evaluate the composition of waste currently being disposed of at the landfill
- Multiple meetings with the client to develop the financial and operational goals and objectives of the project
- Perform an Anaerobic Digestion (AD) and Waste-to-Energy (WTE) preliminary evaluation and prepare plans to be included in the overall conceptual plan for the site
- Prepared conceptual plans for AD, WTE, biogas processing, biogas utilization, maintenance facilities, landfill closure, material processing facilities, barge loading facility, recreational facilities and project integration
- Estimated biogas and electrical generation potential for the project
- Prepared a 3-D model and virtual simulation for the project
- Assisted in preparation of presentations

Results

- DEI prepared and presented its work products to the client within the timeframe required

DEI

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