



## Leachate Forcemain, Automated Pumping System & Storage Tank

*EIL's work eliminated the need for tankers to navigate narrow landfill perimeter roads to reach individual leachate collection points on the landfill.*

*Pipe sizing was optimized to keep flow velocities in the self-cleaning range, minimizing maintenance.*

Client: Waste Management of Illinois, Inc.  
Location: Greene Valley Landfill, Naperville, Illinois

Designed a perimeter leachate pipeline and storage tank system that allowed multiple leachate collection points to pump to a single storage and loadout location.

Designed simple, low cost, but effective control system that operates pumps based on level controls but shuts off pumps if tank reaches high level threshold.

Estimated future leachate generation rates for several scenarios based on historical data, HELP modeling, and evaluating uncertainty of the many input parameters.

Designed a perimeter leachate pipeline and storage tank system that allowed multiple leachate collection points to pump to a single storage and loadout location.

Prepared screening-level cost estimates for capital budgeting process, and detailed construction cost estimate for bidding.

Prepared permit-level and construction-level drawings and permit application.

Performed CQA during construction.

