

Waste Management

CEC provides engineering and consulting services for the management and disposal of a broad range of wastes, including municipal, construction/demolition, residual, hazardous, gas exploration wastes, and coal combustion residuals.



SITE SELECTION AND CHARACTERIZATION

CEC performs “fatal flaw” analysis and related studies that identify potential conflicts with regulatory criteria and existing environmental liabilities. Services include evaluation of the following criteria:

- Permitting Requirements
- Local Planning Issues Such as Access, Zoning, Public Opposition
- Ecological Impacts
- Geotechnical and Hydrogeologic Investigations
- Environmental Liability Issues
- Environmental and Operational Due Diligence
- Operations Optimization

DESIGN AND PERMITTING

Designs are prepared to satisfy regulatory requirements and owner/operator preferences. CEC’s services include:

- Waste Disposal Facility Design and Permitting
- Waste Processing/Recycling Facility Design and Permitting
- Transfer Station Design and Permitting
- Leachate Treatment Design and Management
- Landfill Gas-to-Energy Design and Permitting
- Landfill Gas Management System and Permitting
- Erosion and Sedimentation Control Plans, Stormwater Plans
- Geotechnical and Soils Investigations
- Gas Management System Design
- NPDES Permitting and Monitoring
- Groundwater Monitoring System Design
- Wetlands Delineation and Mitigation
- Hydrogeologic Site Investigation
- Risk Assessment/Environmental Impact
- Waste Characterization Studies
- Construction and Operating Costs

GROUNDWATER ASSESSMENT/CORRECTIVE MEASURES

CEC performs a wide range of groundwater investigation services, including complete rate and extent assessments and remedial design incorporating corrective measures. CEC’s groundwater services include:

- Delineation and Analysis of Aquifer Flow Patterns and Quantities
- Groundwater Modeling and Contaminant Transport
- Design, Installation, and Operation of Remediation Systems
- Design of Pumping Wells and Extraction Networks
- Barrier Systems Design Including Slurry Walls and Cutoff Trenches