LEAN ON US

expertise for today’s manufacturers
Manufacturers often face challenges as diverse as the industry itself: pricing pressures and global competition, business complexities, and delivery of product to market and customer.

To stay focused on the primary objectives of production efficiency and increasing market share, manufacturers need a partner with expertise in a complete scope of engineering and environmental services to assist with challenges ranging from selecting or acquiring a new site for development to maintaining compliance in today’s regulatory environment.

CEC starts with a commitment to understanding the specific needs of manufacturers and then applies sound science and practical engineering to help clients successfully acquire, develop, operate, and manage their facility assets. Using a multidisciplinary approach, CEC has developed an extensive portfolio of industrial real estate and facility-related expertise.

*Civil & Environmental Consultants, Inc. (CEC) provides comprehensive market-oriented consulting services that advance the strategic business objectives of our clients. CEC is recognized for its innovative design solutions and integrated expertise in air quality, civil engineering, ecological sciences, environmental engineering and sciences, survey/geospatial, waste management, and water resources.*
THE CEC ADVANTAGE

What sets CEC apart is that we put ourselves in our clients’ shoes and make recommendations from their strategic vantage point. These are the real differentiators:

Cradle to Grave Services
With multiple disciplines in-house, CEC is able to work with manufacturers at every stage of an operation’s lifecycle—from site selection to decommissioning—creating an opportunity to build in-depth knowledge of the operation and a long-term commitment to client success.

Asset and Information Management
Integrating web and mobile applications creates a centralized, streamlined method for collecting, organizing, maintaining, and reporting on large, even massive data sets. Information on environmental status, health and safety programs, and infrastructure is easily accessible by multiple users through a single user interface, and updates occur universally and in real time.

Direct Industry Experience
CEC understands the manufacturing business from the inside and can complement a facility’s existing staff. Having previously worked for the owner’s side, senior consultants combine past experience and established regulatory relationships with strong technical knowledge to tailor CEC resources to best serve project and client needs.

Cost-Effective Solutions
Today’s manufacturers face cost pressures at every step of an operation. With a focus on advancing client interests, while also considering agency objectives, CEC has developed innovative approaches to corrective actions that not only obtained regulatory approval but also saved clients millions of dollars.
COMPLIANCE AND OPERATIONS SUPPORT

Maintaining operations and compliance
CEC actively monitors the complex and changing regulatory environment to support manufacturers as they record, report, and retain compliance and maintenance standards. Upstream and downstream links in your supply chain may require conformance with ISO or other industry specifications while internal policies and procedures are met. CEC can take on the paperwork, enabling businesses to focus on producing goods profitably and efficiently.

Evolving requirements and BMPs prompt operators to implement modifications and controls. CEC solutions reduce risk, maintain compliance, and facilitate continued operations. CEC water resources professionals provide turnkey industrial wastewater treatment and compliance services and also determine appropriate technologies by conducting bench- and pilot-scale tests in-house or on site.

Enabling new or expanded operations
When demand dictates that operations must grow, or when improvements in processes and technologies require new equipment and renovations, CEC assists with site development and facility expansions by providing site selection and characterization, cost-effective designs, permitting, and construction-related services. Geotechnical engineers evaluate the feasibility of supporting heavy equipment by investigating soil and bedrock characteristics.

CEC analyzes incoming water quality and the performance characteristics of facility equipment to develop water treatment processes that ensure the precise water quality required for a range of processes and applications. As water resources become increasingly stressed, CEC examines the inlet and outlet balance of the entire facility to develop tailored incoming water treatment and recycling programs.
FACILITY AND ASSET MANAGEMENT SUPPORT

Strengthening real estate portfolios
CEC understands the connection between the manufacturing industry and brownfield redevelopment and its impact on local economies. Corporate facility and asset managers and real estate portfolio managers rely on CEC’s ability to navigate zoning, geotechnical, logistical, and regulatory criteria for the development and management of brownfield sites, in addition to existing or greenfield sites.

Due diligence, site selection, environmental assessments, and engineering services support strategic property acquisitions, as well as the ongoing management of property assets, including disposition and decommissioning. CEC has performed environmental assessments for multiple facilities as part of corporate acquisitions/divestitures, investments, or financing applications.

Transitioning to closure
If the time comes to cease operations or demolish a facility, CEC will assess the nature and extent of contamination and recommend either containing it or remediating the impaired site to commercial and industrial standards, reducing legacy liabilities. CEC has in-depth experience in each phase of site rehabilitation and demolition and works with clients to remediate and rehabilitate active production or idle legacy sites.

Projects begin with developing a concrete understanding of client objectives and designing the best strategy to achieve client goals within the limits of governing regulatory programs. CEC site planners and civil engineers evaluate options to achieve the highest and best use possible for assets, even encouraging repurposing facilities and recommending potential alternative uses to generate revenue.
Air
- Air Emissions Testing
- Construction and Operational Air Permitting
- Perimeter Ambient Air Monitoring
- Dispersion Modeling
- Odor Evaluations
- New Source Review/Prevention of Significant Deterioration Analyses
- Emission Inventories and Characterization
- Fugitive Emissions Studies and Control Programs

Engineering/Site Development
- ALTA/ACSM Surveys
- Land Planning and Site Evaluations
- Geotechnical Analyses
- Cadastral (Land Title) and Mortgage Surveys
- Landscape Architecture and Master Planning
- Sustainable Landscape/Infrastructure Planning
- Regulatory and Land Development Permitting
- Erosion and Sedimentation Control
- Subsurface Investigation, Testing, and Stabilization
- Foundation Analysis and Design
- Slope Stabilization and Retaining Wall Design
- Green (Vegetated) Roof Design
- Structural Condition Assessment and Design
- Construction QA/QC Monitoring and Inspections
- International Building Code (IBC) Special Inspections
- Building System Analysis and Maintenance Design
- LEED® Preliminary Assessment and Existing Building O&M
- Parking Lot/Pavement Analysis, Maintenance, and Rehabilitation

Environmental Health & Safety
- Phase I & II Environmental Assessments
- Environmental Liability Cost Estimates
- Operational Compliance Evaluations and Liability Cost Estimates
- Human Health and Ecological Risk Assessments
- Property Condition Assessments (PCAs)
- Health & Safety Plan Preparation
- Remedial Design and Implementation
- Environmental Compliance Audits and Regulatory Reporting
- ISO 14001 Audits
- Groundwater Assessment, Monitoring, Remediation, and Modeling
- RCRA, CERCLA, and State Voluntary Program Implementation
- Site Characterization
- Spill Prevention Control and Countermeasures (SPCC) Plans
- Transformer Inspections
- Hazardous Chemical Inventory and Toxic Chemical Release Inventory Reporting

Waste Management
- Waste Characterization, Management, and Reporting
- Hazardous and Regulated Material Surveys and Management
- Universal Waste Surveys and Management
- On-site Waste Disposal Facility Design and Permitting
- Facility Construction Management and Quality Assurance
- Facility Decommissioning and Demolition Planning and Permitting
- Storage Tank Inspections, Design, and Installation

Water/Wastewater
- Stormwater Management/BMP Design
- Stormwater Pollution Prevention Plans (SWPPP)
- NPDES Design and Permitting
- Water and Wastewater Permitting
- Water and Wastewater Treatment Design
- Water Treatment System Installation
- Industrial Process and Wastewater Treatment Technologies
- Treatment System Evaluation, Selection, and Specification
- Treatability Testing