

SPENCER J. LABELLE, CPESC

Education

B.S., Environmental and Ecological Engineering, Purdue University, 2015
Minor in Natural Resource and Environmental Science

Professional Licenses

Certified Professional in Erosion and Sediment Control

Specialty Certifications

OSHA 40-Hour HAZWOPER Training and 8-hour Refreshers

Troxler Nuclear Gauge Safety plus HAZMAT Technician Certified

American Red Cross First Aid and CPR Certified



Professional Experience

Mr. LaBelle serves as a Project Professional in the Chicagoland office. He has diverse experience in civil/environmental consulting for municipal solid waste management, coal combustion residual (CCR) management for electric utilities, regulatory compliance, due diligence (Phase 1/2 ESA), storm water and erosion control management systems, and site development. Notable projects that Mr. LaBelle has been involved in are described below.

Municipal Solid Waste Engineering

Baylis, Illinois, Landfill Expansion Design. Assisted with the design of a storm water management system for a vertical and horizontal landfill expansion including terrace berms, letdown structures, drainage swales, and sedimentation basins. HydroCAD storm water modeling software was used to prepare a hydrologic model and simulation of the existing landfill and the proposed vertical and horizontal landfill expansion to demonstrate enhanced storm water management for the entire facility.

Austin, Texas, Storm Water Management System Improvement Design. Assisted with the design of a storm water management system improvements for a multiple landfill facility. Storm water management improvements consisted of redesigning multiple diversion and detention facilities to accommodate increased storm water flow volumes. A hydrologic model and construction-level drawing set provided the foundation for construction implementation of the storm water management improvements.

Davis Junction, Illinois, Landfill Expansion Design. Assisted with the design of a the storm water management system and leachate collection system design for a vertical and horizontal landfill expansion. HydroCAD storm water modeling software was used to prepare a hydrologic model and simulation of the existing landfill and the proposed vertical and horizontal landfill expansion to demonstrate enhanced storm water management for the entire facility. The leachate collection system design consisted of hydraulic and structural calculations to demonstrate design appropriateness. Hydrologic Evaluation of Landfill Performance (HELP) software was used to demonstrate the leachate collection system design exceeded applicable state and federal regulations.

Westwego, Louisiana, Landfill Permit Renewal and Modification. Assisted with a permit modification for a multiple landfill facility consisting of pre and post Subtitle D units. Reviewed and compiled historical documentation for landfill management systems including storm water, leachate, landfill gas, and slope stability. Prepared operations and maintenance plans to comply with state and federal regulations. Prepared the facilities' first comprehensive geological cross-section drawing package to display all borings, monitoring wells, and probes logged over multiple decades.

Webb County, Texas, Greenfield Landfill Design. Assisted with the design of a storm water management system for a new municipal solid waste landfill. HydroCAD storm water modeling software was used to prepare a hydrologic model and simulation of a regional watershed to evaluate existing greenfield conditions and the proposed landfill development. The regional watershed evaluation was used to determine allowable discharge rates and volumes from landfill storm water management systems and informed the design of outlet structures and outfalls. A floodplain analysis of each outlet structure was completed to minimize impacts to the floodplain and determine hydraulic capacities under dynamic tailwater conditions.

Zion, Illinois, Landfill Expansion Design. Assisted with the design of a the storm water management system for a vertical and horizontal landfill expansion including terrace berms, letdown structures, drainage swales, and a new sedimentation basin. HydroCAD storm water modeling software was used to prepare a hydrologic model and simulation of the existing landfill and the proposed vertical and horizontal landfill expansion to demonstrate enhanced storm water management for the entire facility. Storm water management system design was prepared in compliance with local watershed development ordinance with regional-specific watershed design standards.

Chicago, Illinois, Municipal Solid Waste Transfer Station Construction Oversight. Assisted with construction oversight for the development of a new municipal solid waste transfer station including concrete placement. Conducted routine inspections of all erosion and sediment control structures in accordance with the site's National Pollutant Discharge Elimination System (NPDES) Construction Permit and implemented erosion and sediment control improvements to accommodate complex site conditions.

Electric Utilities Engineering

Newburgh, New York, Premature CCR Landfill Closure Design - Closure Turf (Synthetic Cover). Assisted with the design of a storm water management system design to support a premature closure design for a CCR Landfill that was no longer required after the generating station converted to natural gas. Assisted with the development of a the storm water management system design in accordance with the state development ordinance.

Dagsboro, Delaware, Landfill Expansion Permitting and Associated Services. Assisted with the development of a permit application to expand an existing CCR landfill by 28 acres, which will extend the energy center's operating life by approximately 50 years. Design includes leachate collection system, storm water management, geotechnical stability, and liner evaluations. Application and associated plans include updated Operating Plans, Environmental Monitoring Plan, Sediment and Stormwater Management Plan, Stormwater Pollution Prevention Plan (SWPPP), and Fugitive Dust Plan.

St. Marys, Kansas, Flue Gas Desulfurization (FGD) Landfill Leachate Pond Redesign. Assisted with the redesign of a leachate pond that had been designed by others but failed after construction due to hydrostatic uplift. Services included the redevelopment of the liquid storage method, ballast countermeasures, and a non-conventional lining system that used stranded geosynthetic assets to minimize construction costs.

Lawrence, Kansas, CCR Landfill Redesign. Assisted with the complete landfill re-design of the remaining cells of a CCR Landfill which had not received CCR prior to implementation of the CCR Rule. Redesign included modifying the cell layout, providing a uniform herringbone cell configuration, modifying the final cover grades and storm water management approach, revising the bottom liner and final cover configurations to incorporate geosynthetics, and the completion of calculations to support the leachate collection system, slope stability, and storm water management system analyses for permit approval.

Multiple Facilities, Kansas, CCR Rule Compliance Evaluations and Documentation. Provided comprehensive facility reviews and developed numerous documents in advance of CCR Rule implementation. Completed applicable storm water analyses and identified appropriate site improvements for implementation. Developed impoundment evaluations and Run-On/Run-Off Control Plans in accordance with the CCR Rule.

Environmental Compliance Services

East Dundee, Illinois, Compost Facility Design and Permitting. Served as the Construction Quality Assurance (CQA) officer for the construction of the largest landscape waste composting facility in Illinois, providing a sustainable market solution for Chicago's organic waste stream. CQA services included construction oversight of the placement of low-permeable fill, confirmation of appropriate compaction and moisture content using a Troxler Nuclear Density Gauge, and securing Shelby Tube samples for measurements of hydraulic conductivity. Also served as the sediment and erosion control inspector to maintain compliance with the State-authorized NPDES construction permit.

West Chicago, Illinois, Comprehensive SWPPP and SPCC Plan Services. Developed a SWPPP and Spill Prevention, Control, and Countermeasures (SPCC) Plan for a general aviation airport in the Chicagoland area. In support of the SWPPP and SPCC Plan, annual training seminars for all tenants and on-site inspections were completed to ensure plan consistency and compliance with local and state regulations. Services also included quarterly visual observation of discharges and emergency spill response coordination and reporting.

West Chicago, Illinois, Annual Dam Inspection. Assisted with the completion of annual inspections of two (2) dams permitted through the Illinois Department of Natural Resources (IDNR) on behalf of a general aviation airport in the Chicagoland area. Annual inspections consisted of dam stability evaluations, maintenance recommendations, and reporting to the IDNR.

West Chicago, Illinois, Tier II Reporting Services. Prepared Tier II reporting to the Illinois Emergency Management Agency (IEMA) and the Local Emergency Planning Commission (LEPC) on behalf of a general aviation airport in the Chicagoland area. Tier II reporting was prepared in accordance with the Emergency Planning and Community Right-to-Know Act (EPCRA).

West Chicago, Illinois, Underground Storage Tank Oversight and Reporting Services. Coordinated the removal of multiple underground storage tanks at property owned and operated by a general aviation airport in the Chicagoland area. Removal required coordination with multiple subcontractors and agencies including the Illinois Office of the State Fire Marshal (OSFM) and the Illinois Environmental Protection Agency (IEPA).

Rockford, Illinois, Comprehensive SWPPP and SPCC Plan Services. Assisted with the development of a SWPPP and SPCC Plan for an international airport in Illinois. SWPPP and SPCC Plan development required successful coordination with hundreds of aviation tenants, manufacturers, and industries on property leased by the client. In support of the SWPPP and SPCC Plan, on-site inspections on all tenants were completed to ensure plan consistency and compliance with local and state regulations.

of all tenant and commercial aviation facilities. Services also included quarterly visual observation of discharges, benchmark monitoring, and emergency spill response coordination and reporting.

Multiple Fleet Facilities, Wisconsin, Comprehensive SWPPP and SPCC Plan Services. Assisted with the development of multiple SWPPPs and SPCC Plans for a fleet of petroleum distribution facilities in Wisconsin. Services also included the preparation of a corporate training module and master planning to aid expansion efforts.

Multiple Fleet Facilities, Illinois, Comprehensive SWPPP and SPCC Plan Services. Assisted with the development of multiple SWPPPs and SPCC Plans for a fleet of ready-mix concrete facilities in Illinois. Services also included corporate training sessions and emergency spill response coordination and reporting.

Ottawa, Illinois, Storm Water Master Planning and Comprehensive SWPPP Services. Assisted with the development of a storm water master plan to minimize localized flooding and enhance transportation routes at a mulch processing yard in Illinois. Site-specific sediment and erosion control systems were designed to collect mobilized mulch and sediments and reduce maintenance frequency of existing collection systems. In addition, a SWPPP was prepared and reviewed annually to ensure plan consistency with dynamic site conditions.

Joliet, Illinois, Hazardous Waste and Asbestos Audit. Assisted a Certified Industrial Hygienist (CIH) with a comprehensive hazardous waste and asbestos audit of a former steel distribution facility. Audit consisted of quantification and reporting of on-site hazardous waste and asbestos to facilitate a real estate transaction.

Multiple Facilities, United States, Due Diligence. Assisted with preparation of Phase 1 Environmental Site Assessments for various real estate transactions and property redevelopment.

Geographic Information System (GIS) Mapping

Multiple Confidential Clients, Illinois and Indiana, Site Search. Assisted with the development of an analysis, report, and presentation materials using GIS to evaluate thousands of parcels and identify suitable properties for the siting and development of municipal solid waste transfer stations. Analysis served as a tool for clients to evaluate market expansion and implementation feasibility, and to advance communication and coordination with local contacts.

Multiple Confidential Clients, Illinois and Indiana, Fatal Flaw Analysis. Assisted with the development of an analysis and report using GIS to evaluate specific parcels and properties in relation to state and local requirements for siting and development of municipal solid waste transfer and disposal facilities. Analysis served as a tool for clients to evaluate properties and portions of properties that fall outside of regulatory setbacks and potential constraints prior to moving forward with siting.