MARK R. HUBER, PE

Education

B.S., Civil Engineering, Iowa State University, 1989

Professional Licenses

Professional Engineer, Wisconsin and Iowa

Professional Experience

Mr. Huber has 23 years of consulting experience in civil and environmental engineering. He specializes in urban redevelopment projects with a technical expertise in brownfield redevelopment, civil site design, and stormwater management. With a dual background in civil and environmental engineering, Mark is able to take urban redevelopment projects from initial site assessment through construction. Mark is adept at explaining complex issues in easy to understand language. His experience working on a variety of complex urban projects allows him to quickly identify key issues and develop smart, simple solutions that save clients time and money. Mark is an excellent communicator, which helps him bridge the gap between client goals and regulatory requirements. Mark is always excited about helping clients in creative ways with responsive customer service.

Solid Waste Management

Involved with a removal action to remediate a closed landfill containing various laboratory wastes at Ames Laboratory Chemical Disposal Site in Ames, Iowa. A Removal Site Evaluation, Engineering Evaluation/ Cost Analysis (EE/CA), and design documents were prepared to support the removal action.

Evaluated alternative methods for disposing of ash generated from a coal power generating facility in Iowa. Alternatives included filling a ravine, expanding an existing ash landfill, filling a wetland, and expanding an existing ash sluice pond. Project involved evaluating alternatives and developing detailed cost estimates.

Evaluated two existing sluice ponds in Iowa and Wisconsin to determine if the pond capacities could be reduced to facilitate expansion of on-site coal storage areas. Hydraulic and particle settling calculations were used to demonstrate to the state agencies that the ponds would operate as designed, even if a portion of the ponds were filled. Both projects were approved by the state agencies.

Oversaw the removal and disposal of approximately 1,000,000 tons of thorium-contaminated soil from an abandoned manufacturing facility located in residential area at the Kerr-McGee Rare Earth Facility in West Chicago, Illinois. The project involved design of a rail load-out facility, soil screening facility, on-site wastewater treatment facility, building decommissioning plans, utility relocation, and excavation plans.

Directed the removal of over 20,000 buried drums containing a mixture of hazardous wastes, construction of a vertical cutoff wall, landfill cover, groundwater collection trench, and groundwater treatment system at the Fort Wayne Reduction Facility in Fort Wayne, Indiana. This project was completed under CERCLA regulations.

Coordinated decommissioning of a 40-acre radioactive and hazardous waste landfill at the Hartley and Hartley Landfill in Bay County, Michigan. The project included the design of an interim groundwater treatment system, which included metals precipitation, air stripping, granular activated carbon, and sand filtration. The project also involved final cover maintenance and evaluation of final cover improvements. The project was conducted in accordance with Nuclear Regulatory Commission regulations.

Managed a CERCLA project, which included the design and operation of a groundwater treatment system for two springs adjacent to a closed industrial landfill at Tri-City Industrial Disposal Facility in Bullit County, Kentucky. Special structures were designed to intercept water discharging from the springs. The spring water was treated with granular activated carbon before it was returned to the watershed.

Evaluated the design and installation of a final cover and leachate extraction system in order to meet RCRA requirements at the US Ecology Hazardous Waste Management Facility in Sheffield, Illinois.

Prepared construction drawings, specifications, and bidding documents for the construction of a composite liner system at the Superior Emerald Park Landfill in Muskego, Wisconsin. The liner consisted of a gradient control system, clay, geomembrane, and a leachate collection system. The project also included construction observation and preparation of a construction documentation report.

Coordinated the construction of a final cover system and gas collection system at Superior Valley Meadows Landfill in Fort Atkinson, Wisconsin. The cover consisted of a clay cap, geomembrane, drainage layer, rooting zone, and topsoil. A construction documentation report was also prepared.

Prepared a feasibility report for a horizontal expansion of Superior Cranberry Creek Landfill, a municipal solid waste landfill, in Wisconsin Rapids, Wisconsin. The landfill expansion is located near surface water bodies and wetlands, which involved navigability issues, surface water balancing, and practicable alternative wetland analysis.

Performed design and construction oversight at Superior Cranberry Creek Landfill, a rail solid waste transfer station in Wisconsin Rapids, Wisconsin. An elevated platform was constructed adjacent to a rail spur to facilitate transfer of waste from rail cars to a landfill.

Coordinated installation of eight gas extraction wells and lateral and header piping at Superior Cranberry Creek Landfill in Wisconsin Rapids, Wisconsin.

Involved with the design of a leachate treatment system to remove PCBs at the Waste Management Metro Landfill in Franklin, Wisconsin. The treatment system consisted of clarification, sludge dewatering, granular media filtration, bag filtration, and carbon adsorption.

Managed a project that involved design and construction of a granular composite liner for an ash disposal facility in Wisconsin. Work included preparation of drawings, specifications, bidding documents, and construction documentation.

Brownfield Redevelopment

Directed project for an ownership transfer of a former dairy property in Madison, Wisconsin. Project involved developing a Phase 2 environmental site assessment, preliminary civil engineering site design evaluation, and exploration of brownfield redevelopment grant funds.

Managed the installation of a parking lot over the former landfill Meyer Place Fill Area in Cudahy, Wisconsin. Project involved site investigation, requesting an exemption from WDNR to build on a landfill, capping and vapor barrier design, and construction assistance.

Coordinated and served as project manager for the site investigation and remediation of an abandoned industrial facility at the Cudahy Business Park in Cudahy, Wisconsin. Remediation included removal and disposal of petroleum-impacted soils and PCB-impacted concrete. Groundwater remediation included site capping and natural attenuation of chlorinated solvents.

Performed site investigation and remediation of a former landfill. The site was redeveloped as the Department of Revenue building in Madison, Wisconsin. A soil management plan was developed to provide specific guidance on how to manage impacted soils encountered during redevelopment of the site.

Designed a retail/residential mixed-use development on a former manufacturing facility in Kenosha, Wisconsin. Engineering work included contaminated material handling, site grading, stormwater management, utilities, geotechnical investigation, and pavement design.

Served as senior engineer for redevelopment of an oil terminal into a joist manufacturing facility, 84 Lumber, in McFarland, Wisconsin. Project included remediation design, material management, regulatory negotiations, and brownfield grant award.

Involved in design of an office park development on a former brownfield located at 660 John Nolen Drive in Madison, Wisconsin. Engineering work included brownfield grant award, site closure, contaminated material handling, site grading, stormwater management, utilities, and geotechnical investigation.

Involved in the design of a treatment system to remove agricultural chemicals from groundwater. The treatment system included bag filtration and carbon adsorption at Cottage Grove Cooperative in Cottage Grove, Wisconsin. The project also included the design of a 3,000-foot gravity sewer in order to discharge the treated water to the nearest surface water body.

Coordinated the excavation and landspreading of over 12,000 cubic yards of agricultural-contaminated soil for the Danco-Prairie Cooperative in DeForest, Wisconsin. The project also included the design, construction, and operation of a groundwater extraction and treatment system. The cleanup of this brownfield site paved the way for the construction of the Village of

DeForest public safety building. Soil and groundwater remediation activities were carefully coordinated with the new building construction.

General Civil Engineering

Served as project manager for the Edgewater Hotel Redevelopment, a high profile hotel redevelopment adjacent to Lake Mendota in Madison, Wisconsin. The project involved surveying, preparation of civil site design drawings, and preparation of stormwater management calculations to support the hotel redevelopment bid.

Electric Utilities

Received Iowa Department of Natural Resources approval to use fly ash as a micronutrient on corn and soybean fields. Also coordinated all pilot testing and permitting activities.

Obtained environmental permitting for construction of a new cogeneration facility in Wisconsin. The project also included environmental assessment of the property, stormwater management, and related water resource and dewatering activities.