

Brian A. Voss, P.E.

Vice President



24 YEARS EXPERIENCE

EDUCATION

B.S., Environmental Engineering, Humboldt State University, 1997

Versatile, creative and accomplished Professional Engineer and Program/Project Manager with over 24 years of experience in the environmental, civil, and process engineering fields. Proven track record for managing a variety of projects, including large-scale remediation and construction and capital improvements projects, on time and within budget. Excellent writer that has authored or provided technical review for hundreds of work plans, reports, bid packages, specifications and other documents. Strong interpersonal, leadership, motivational, resource management, problem solving and technical skills.

REPRESENTATIVE PROJECT EXPERIENCE

Irving Park Street Station Former Manufactured Gas Plant, The Peoples Gas Light and Coke Company, Chicago, IL

The Irving Park Street Station is an Illinois EPA Site Remediation Program site that operates as an industrial shop facility. Completed development, implementation, and reporting for comprehensive site investigation activities and design/implementation of remedial actions consisting of soil excavation and installation of an asphalt cover system for remaining impacted soil. Perimeter real-time and time-averaged air monitoring activities were conducted to protect on-site workers at the active shop facility as well as neighboring commercial and residential properties adjoining the site. Additional activities at the site that were designed and constructed included upgrading and repair of outdoor lighting, parkway restoration, decorative iron and chain link fencing, automated gates, guardrail, pavement, utilities, landscaping, and security systems, including infra-red, shaker cables, and key card access systems. Mr. Voss' responsibilities included overall project coordination, financial tracking, subcontractor procurement and management, staffing, permitting, reporting, and design of the various project elements. After soil removal was completed, residual impacts were managed using institutional and engineering controls and a No Further Remediation letter was issued by Illinois EPA.

Underground Utility Design, ComEd, Chicago and Cook, Lake, and DuPage Counties, IL

Managed design and engineer-of-record for dozens of civil design projects for electrical distribution engineering projects under system modernization and NERC line clearance compliance programs. Most projects were located within Chicago and surrounding suburbs in densely populated, urban locations, requiring development of traffic control plans and coordination with other utilities in the right-of-way and either Chicago or Illinois Department of Transportation. Coordinated civil designs with electrical design engineers and contractors to optimize feasibility, minimize construction costs, and limit utility customer impacts and community disruption. Provided construction support to contractors as needed during construction of improvements.

EXPERTISE

Site Investigation and Remediation for HTRW Sites

Interdisciplinary Engineering Design Supervision, including Preparation of Plans, Specifications and Other Contract Documents

Construction Cost Estimating

Construction Supervision

Project/Program Management

Environmental Compliance, including SPCC and SWPPP

Site Civil Design

Water/Wastewater Permitting and Treatment

REGISTRATIONS

Professional Engineer

- IL 062056805
- SC 38982
- WI 48554 - 6

CERTIFICATIONS

40-Hour OSHA HAZWOPER, Occupational Safety & Health Administration

Annual 8-Hour HAZWOPER Refresher

10-hour Construction Safety, Occupational Safety & Health Administration

30-Hour OSHA Construction Safety, Occupational Safety & Health Administration

Adult First Aid with CPR/AED/BBP, MEDIC First Aid

Asbestos Awareness

First Aid/CPR and Bloodborne Pathogen



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Phase I and II Environmental Site Assessments, City of Rock Island, IL

Gold Wave completed Phase I and II ESAs for a currently vacant former industrial/commercial parcel located at 2425 5th Avenue and owned by the City of Rock Island. Soil and groundwater impacts required delineation and soil gas sampling was completed in advance of enrolling the property into the Illinois EPA Site Remediation Program and to facilitate development and evaluation of remedial strategies for the property. As part of the Phase II ESA deliverable, Gold Wave provided the City with Engineer's Estimates of Cost for implementation of remedial alternatives.

Mississippi River Gateway Initiative Soil Investigation, Army Corps of Engineers, East St. Louis, IL

Project involved multi-agency investigation of lead impacts in surface soil at over 200 properties located throughout East St. Louis, Illinois. Eleven former industrial properties were identified as potential emission sources for area-wide lead impacts to surrounding neighborhoods via deposition. Each former industrial site was investigated as well as dozens of residential properties in the vicinity of the potential source properties for evidence of surface soil lead impacts. Duties included development of work plans, direction of field activities, public relations, and preparation of the Site Characterization Report summarizing the investigation findings and recommendations for cleanup activities.

Design/Construction of Rail Tanker Containment, Clorox (Hidden Valley), Wheeling, IL

Responsible for design and construction of a concrete containment system to comply with federal spill prevention (SPCC) requirements for a rail spur that normally holds three 30,000-gallon rail tank cars used to store soybean oil for the food plant operations. Project also included design and construction of: an oil-water separator and sump system to treat storm water exiting the containment structure; the rail turnout from the lead track to the spur and rail approach to the containment structure; adjacent miscellaneous concrete work, including a retaining wall, truck driveway, and dock, curb, gutter and sidewalk; and storm sewer and structures. An employee training program was developed, an O&M Manual for the system was prepared, and the facility SPCC Plan was revised.

Sangamon Street Right-of-Way Remediation and Reconstruction, BNSF Railway, Chicago, IL

Managed design and construction of soil remediation and right-of-way reconstruction for 5 city blocks along South Sangamon Street. Design included demolition of facilities in the public way (including inactive railways), earthwork, reconstruction of pavement and sidewalks, construction of an asphalt bike/pedestrian path, traffic control plans, and revegetation. Removal of 2 feet of lead- and arsenic-impacted soil was conducted across the entire site, as well as stabilization of three limited areas of soil that was characteristically hazardous for TCLP lead to render the soil nonhazardous. Interfaced and coordinated designs and construction with City of Chicago departments, utility owners, U.S. EPA, and local community groups. Construction was completed ahead of schedule over a 3-month period. Construction costs exceeded \$600k and overall project value was >\$1MM

Diesel Fuel Pipeline Design, Union Pacific Railway, Chicago, IL

Managed preparation of design and specifications for an approximately ½-mile long, double-walled piping system connecting tanker truck unloading station to aboveground storage tanks used for refueling locomotives at Chicago's Ogilvie Station. The piping system was designed to be mounted along an elevated railway, and ancillary designs were also prepared for a concrete truck containment pad, pump house equipment upgrades, and piping leak detection.

Water Control Work Plan, Joliet Combined Sewer Overflow Long-Term Control Plan, Joliet, IL

Prepared work plan for management of water generated from storm water runoff and excavation of drop shafts; tunnel under the Des Plaines River; and other structures, including large-diameter sewer lines, concrete structures, a screening facility, and pump/lift stations.

MGP Site Remediation Wastewater Treatment Design, South Jersey Gas, Multiple Locations, NJ

Responsible for design of water treatment systems for two former MGP sites (Atlantic City and Woolwich Township) and a feasibility study to evaluate groundwater treatment options for remediation at Salem former MGP site. Groundwater at the sites is impacted by VOCs, SVOCs, metals, cyanide, and other constituents. For the Salem site, prepared cost estimate and evaluation of implementability and effectiveness for previous 90% design of an in-situ



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funnel-and-gate type system design. Based on hydrogeologic limitations and implementability concerns for the funnel-and-gate system, developed preliminary and intermediate (60%) design of an alternate groundwater pump-and-treat system, including a process and instrumentation diagram, site layout, and general arrangement drawing for the pump-and-treat system. In addition to producing the preliminary design, prepared cost estimate for installation, operation, and maintenance of the system, as well as an evaluation of the implementability and effectiveness. For the Atlantic City and Woolwich Township sites, prepared water treatment system designs for sediment dewatering, groundwater extraction, and storm water to treat VOCs, SVOCs, and metals impacts, including procurement of Treatment Works Approvals (TWAs) from NJDEP. Prepared contaminated sediment dredging design, including predesign investigation and dewatering and treatability studies, for the Atlantic City site. Prepared bid package, including plans and specifications, as well as contractor proposal/bid reviews for Woolwich Township site.

CERCLA Remedial Design/Remedial Action for Moss-American Former Wood Treating Facility, Kerr-McGee Chemical Corporation, Milwaukee, WI

Superfund project that entailed supplemental predesign site investigation, remedial design, pilot testing and treatability studies, and remedial action at former wood-treating facility. Media contaminated with BTEX and PAHs included soil, groundwater, and sediment along 5 miles of the Little Menomonee River. Soil remedy consisted of treating 100,000 tons of contaminated soil via thermal desorption and a field-scale pilot study for landfarming of contaminated soil. Groundwater remediation activities included design, installation, and operation of a funnel-and-gate system for biological groundwater treatment. River remedy was a combination of constructing approximately 3 miles of new river channel, capping and limited excavation of contaminated sediment along the former channel, and dredging of sediment in areas not rerouted. Duties included supervision for all activities associated with the design and implementation of soil, groundwater, and sediment remedies; agency interfacing; and preparation of submittals, including work plans, remedial designs, monitoring reports, quality assurance project plans, and various other technical memoranda.

API-653 Storage Tank Inspection Evaluations, Phthalic Anhydride Plant, Koppers, Inc., Stickney, IL

Completed evaluation for 96 storage tanks ranging in capacity of thousands to millions of gallons for a chemical plant that converts various crude tars into liquid pitch and other liquid products such as creosote, refined tars, chemical oils, and various grades of coal tar pitch. The facility was deficient in completing internal inspections for the storage tanks, and in preparation for an audit by U.S. EPA Region V, Mr. Voss completed determinations of the inspection deadlines for tanks in order to develop a tank inspection schedule by prioritizing the tanks for which the inspections were overdue and/or the previous tank inspection results indicated the tank integrity may not meet the minimum requirements under the American Petroleum Institute 653 standard.

Security System Design, Wilmette Water Treatment Plant, Village of Wilmette, IL

Managed design, including preparation of plans and specifications, for the installation of a new security system for a water treatment plant serving approximately 100,000 persons. Security system components included a zone perimeter infrared detector system, limit switches for hatches on the in-process and treated water basins, facility lighting, and a CCTV camera system. All system components were integrated to be centrally monitored and computer controlled.

Storm Sewer System Design, Clean Harbors, Chicago Cook, IL

Provided senior technical review and construction cost estimating for sewer system at Clean Harbor's approximately 12-acre former hazardous waste treatment facility located on Lake Calumet. Storm sewer system design included a lift station, sewers and force mains, inlets, manholes/catch basins, drainage/infiltration swales, and outfall structures.

Industrial Wastewater Pretreatment System Design, The Clorox Company, Wheeling, IL

Managed redesign of this facility's 50,000-gallon-per-day wastewater treatment system, including all systems and equipment required to facilitate use of a dissolved air floatation (DAF) unit. Design elements included: wastewater lift station; installation of a rotating drum screen; reconfiguration of four existing 8,000-gallon wastewater storage tanks with a recirculation and pH balancing system; chemical unloading, storage, makeup, and feed systems; catwalk and mezzanine reconfiguration; constant head mixing tank to feed the DAF unit; solids transferring; electrical loads and power distribution; and oversight during installation and shakedown/startup of the system.

