AUSTIN T. QUICK, P.E.

Education

BS – Civil Engineering (Environmental), University of Kansas, 2016
BS – Atmospheric Science, University of Kansas, 2011

Professional Licenses

Professional Engineer – Kansas, Mississippi

Specialty Certifications

40-Hour Health and Safety Training

Professional Affiliations

Solid Waste Association of North America
SWANA – Vice President Sunflower Chapter

Professional Experience

As a Project Manager, Austin Quick is responsible for communicating with our clients to ensure we clearly understand their environmental and engineering challenges and working with our technical staff in the Overland Park, KS office to design and develop solutions to address them. He has been in the environmental consulting industry since 2016 and has worked closely with clients across multiple sectors, including waste management, oil and gas, mining and extraction, manufacturing, government, and real estate/finance/insurance. Since joining SCS, he has had the opportunity to contribute to solid waste management, landfills and landfill infrastructure, facility design, environmental compliance, and stormwater management projects for both municipal and private clients.

Austin performs a variety of technical services, including landfill and landfill infrastructure design/permitting, riparian stream bank stabilization, industrial site development/permitting, quarry engineering/permitting, anti-degradation studies, stormwater infrastructure and BMP design, SWPPP/SPCC Plan preparation and certification, odor remediation, floodplain permitting, air permitting and construction quality assurance (CQA). Facility experience includes included active and closed landfills, midstream oil and gas facilities, limestone surface mines, asphalt and concrete manufacturing plants, chemical manufacturing facilities, automotive manufacturing facilities, and support facilities (e.g., roadways, buildings, stormwater, utilities).

Other project experience includes rate studies, due diligence investigations, compliance audits, air dispersion modeling, groundwater transport modeling, EPCRA Section 312/313 reporting, hazardous waste compliance, environmental site assessments, leaking underground storage tank (LUST) site remediation, and surveying projects.

Civil Engineering

Streambank Stabilization and Exposure Mitigation Projects, Private Utility Company, Central USA. Project Engineer responsible for the design and permitting of numerous streambank stabilization and pipeline exposure mitigation projects for refined petroleum and natural gas pipelines across 12 states in the central US. Responsibilities included preliminary site analysis, engineering design, preparation, and review of construction plans, floodplain, stormwater, and environmental permitting, preparation of construction cost estimates, construction oversight, and construction staking/surveying.

Culvert Design and Permitting Private Quarry, Bonner Springs, KS. Project Manager responsible for the design and permitting of a concrete culvert structure to allow for the passage of quarry equipment and haul trucks across an on-site stream. The project included streambank design for widening the channel upstream and downstream of the proposed structure, local/state/federal permitting efforts for channel modification and floodway analysis, preparation of a construction SWPPP/WQPP, and construction monitoring.

Industrial Site Development, Private Manufacturer, Pittsburg, KS. Project Manager responsible for preparing site development plans and a FEMA Letter of Map Amendment (LOMA) for a new manufacturing facility in Pittsburg, KS. A portion of the building footprint was located in the 100-year floodplain, and it was successfully demonstrated through the LOMA process that this region was above the 100-year base flood elevation, allowing the developer to optimize the open space available on the parcel.

Asphalt Plant Redesign and Permitting, Private Company, Kansas City, KS. Project Manager responsible for the design and permitting of a major asphalt plant overhaul at an existing plant in Kansas City, KS. Mr. Quick prepared the civil design plans and led the permitting coordination effort with the local government of a team consisting of geotechnical, structural, electrical engineers, plant manufacturers, architects, surveyors, and owner. Mr. Quick additionally represented the owner during public hearings and obtained air, stormwater/spill prevention, AST, land disturbance, utility, building, and occupation permits.

Asphalt Plant Design and Permitting, Private Company, Kansas City, KS. Project Manager responsible for the design and permitting of a new asphalt plant in Kansas City, KS. Mr. Quick prepared the civil design plans and led the permitting coordination effort. The grade of the pre-developed site was located several feet below the 100-year base flood elevation of the Kansas River, and a LOMR-F was obtained from FEMA to allow the owner to place compacted fill in this area to bring the base elevation of the plant above the floodplain. Mr. Quick additionally represented the owner during public hearings and obtained air, stormwater/spill prevention, land disturbance, utility, building, driveway, access, and occupation permits.

Stormwater Drainage Improvements, Private Apartment Complex, Overland Park, KS. Project Manager responsible for the design of stormwater drainage improvements for a failing parking lot. The client disclosed that frequent repaving of a low-lying area had been required due to poor drainage. The project approach included a geotechnical and historical investigation of the site to determine the root cause of the failure and provide an engineering design and construction documents based on the findings.

Stormwater Pond Siltation Investigation, Private Insurance Agency, Kansas City, KS. Project Engineer responsible for determining the cause of a rapidly degrading subdivision stormwater pond caused by sediment transport. A report of findings was prepared for the client based on site observations and hydrologic/hydraulic analyses of the drainage basin.

Sanitary Lagoon Capacity Evaluation, Private Manufacturer, Beatrice, Nebraska. Project Engineer responsible for evaluating an existing sanitary lagoon that was near capacity to determine if additional lavatories could be added to the system. The evaluation included developing a water budget based on the existing system and conducting a capacity analysis based on the expected additional wastewater generated by the building addition. An evaluation report with recommendations was provided to the client.

Landfill Design and Construction Quality Assurance

Landfill Master Planning. Lawrence, KS. Project Engineer/Manager responsible for modeling the 15-year projection of landfill life and capital projects, including cell construction, leachate and stormwater infrastructure improvements, and landfill closure projects.

C&D Cover Variance Request, City of Chanute Landfill, KS. Project Manager responsible for engineering analysis and permitting to request a variance to allow for the beneficial use of dried lime sludge as an alternative cover material for a C&D Landfill.

Cell E Construction, Private Landfill, KS. Project Manager responsible for coordinating construction quality assurance efforts for the construction of a 24-acre MSW cell. Responsibilities included training and scheduling field technicians, review of field documentation, and preparation of the CQA report.

Black Oak Recycling and Disposal Facility Expansion, Hartville, MO. Project Engineer responsible for working with a team of engineers and geologists to prepare and submit a horizontal MSW landfill expansion permit application. Responsibilities included design, oversight, and review of engineering design and analysis, and preparation of an engineering report.

Cells 7A and 7B Construction, City of St. Joseph Landfill, MO. Project Manager responsible for the construction quality assurance oversight and review for two adjacent MSW Cells, and preparation of the CQA reports.

Leachate Pond Cover Permitting, Black Oak Recycling and Disposal Facility, Hartville, MO. Project Engineer responsible for assisting in the civil design, permitting, and reviewing construction quality assurance documentation for a geomembrane leachate pond cover system, haul road reconfiguration, and leachate piping.

Transfer Station Permitting, Harrisonville, MO. Project Engineer responsible for the design and permitting of a new transfer station facility. Tasks included site layout design, preparation of permit drawings, traffic analysis, and hydrological study.

Biennial Airspace Estimate Report, City of St. Joseph Landfill, MO. Project Engineer responsible for airspace volume analysis and preparation of multiple biennial airspace reports.

Landfill Base Grade Redesign, McPherson, KS. Project Engineer responsible for redesigning of the permitted base grades, leachate, and stormwater infrastructure for a portion of the permitted MSW waste footprint.

C&D Landfill Expansion, McPherson, KS. Project Engineer responsible for the design and permitting of a construction and demolition landfill expansion.

Bottom Liner Permit Modification, Lawrence, KS. Project Engineer responsible for the engineering analysis and equivalency demonstration of a proposed bottom liner system for an MSW landfill which

replaced the standard 2-feet of compacted soil with a geosynthetic clay liner. The proposed liner system was approved for use on a piggyback slope on a pre-subtitle D waste mass. of GCL in place of 2 feet of compacted soil.

Leachate Infrastructure Expansion, Lawrence, KS. Project Engineer responsible for the design of a leachate pond and leachate collection piping, manholes, and valves prior to construction of a new MSW cell.

C&D Landfill Redesign, Olathe, KS. Project Engineer responsible for the redesign of an existing permitted C&D landfill. The phasing, base grades, final elevations, stormwater management, contact water extraction system, and bottom liner configuration were modified to better align with the client's operational and financial needs.

Borrow Soil Analysis and Liner Test Pad, City of St. Joseph Sanitary Landfill, Missouri. Project Engineer responsible for performing the engineering analysis and construction oversight for a soil borrow analysis and Boutwell in-situ permeability test on a compacted liner test pad.

City of St. Joseph, Missouri, Landfill Tipping Fee Rate Study. Project Engineer responsible for preparing a pro forma model to evaluate the landfill's finances. The objective of the project was to propose a 20-year tipping fee adjustment schedule based on revenue generated from waste and capital and O&M expenses.

Cell 2 Construction, City of Chanute Landfill, KS. Project Engineer responsible for the construction quality assurance oversight of the compacted clay, geosynthetics, and drainage layer components for a 10-acre MSW cell.

CCR Landfill Closure Construction, Kansas City, KS. Project Engineer responsible for the construction quality assurance oversight of the compacted clay and vegetative soil components for a CCR landfill closure project.

Landfill Gas Management

GCCS Design and Installation, Lawrence, KS. Project engineer responsible for the design and construction of over 100 vertical extraction wells, piping/sump infrastructure, and horizontal collection lines. This project included a large initial design and construction phase and several subsequent expansion phases.

LFG GCCS Expansion, Bowling Green, MO. Project Engineer responsible for the design of 50 new gas wells, a new blower flare skid station, an air compressor, and miles of new condensate lines, air lines, and gas lines.

LFG GCCS Expansion, Sedalia, MO. Project Engineer responsible for the design and quality control oversight of a 25-well gas system expansion.

Odor Studies

Odor Characterization Study, Private Automotive Manufacturing Facility, Missouri. Project Manager responsible for the planning and coordination of an odor characterization study. The objective of the study was to determine the frequency, intensity, duration, and offensiveness of potential odors associated with the manufacturing facility. The observers were screened and trained to collect observations on a rotating schedule of monitoring locations using Nasal Ranger field olfactometers and anemometers. The data was compiled, summarized, and presented to the client for use in a broader odor evaluation.

Odor Investigation Study, Kansas. Project Engineer responsible for conducting an odor investigation study as part of a multi-entity task force to address nuisance odors from a landfill. Mr. Quick reviewed citizen-compliant data and meteorological observations to serve as the groundwork for developing a two-phase field study, which consisted of multiple teams of odor observers with Nasal Ranger field olfactometers collecting data at select locations around the landfill. Mr. Quick also developed a qualitative odor air dispersion model to assess potential landfill odors and other possible sources of odor in the vicinity.

Odor Investigation, Kansas. Project Engineer responsible for determining the cause of nuisance odors originating from a leachate pond at a landfill in Kansas. Mr. Quick collected odor and meteorological field observations and leachate samples for odor panel laboratory analysis, evaluated the existing leachate infrastructure, and provided a conclusion and recommendations to the client.

Environmental

Quarry Planning and Permitting, Private Company, Midwest USA. Project Manager responsible for the site development and permitting of numerous limestone and sand surface mines in the Midwest for new quarries and expansions. Engineering design and analysis included site layout, stormwater management, reclamation grading, line-of-sight analysis, reserve estimates, and traffic safety. Mr. Quick was also responsible for preparing antidegradation studies, SWPPPs, SPCC Plans, securing NPDES permits, floodplain analysis, and attending public meetings.

Environmental Permitting Compliance, Private Manufacturer, USA. Project Manager responsible for providing environmental compliance services for a concrete additives manufacturer with facilities located throughout the US. Services provided included SWPPP/SPCC Plan preparation, NPDES permitting, EPCRA Section 312/313 reporting, air permitting applicability assessment, and tank registration.

Environmental Permitting Compliance, Private Batch Plants, Midwest USA. Project Manager responsible for providing environmental compliance services for a client with multiple concrete batch plants located in the Midwest. Services provided included SWPPP/SPCC Plan preparation, NPDES permitting and reporting, air construction/operation permitting and EIQ reporting, and EPCRA Section 311/312 reporting.

Air and Hazardous Waste Permitting, Private Manufacturer, Kansas City, KS. Project Manager responsible for permitting a spray application/banking operation and emergency generator, and hazardous waste generator permitting for an automotive parts manufacturer in Kansas City, KS.

Plume Stability Analysis, Blue River Golf Course, Kansas City, MO. Project Engineer responsible for preparing a plume stability analysis of a subsurface contamination plume at an underground storage tank remediation site using the MDNR-preferred Ricker method.

Leaking Underground Storage Tank (LUST) Tier II, City of Dubuque, Iowa. Project Engineer responsible for preparing and submitting a LUST Tier II report for a removed leaking tank in Dubuque. Observed and documented the development of groundwater monitoring wells and remaining soil contamination, developed a soil and groundwater contaminant transport model, and prepared site drawings and documents for the report submitted to the state.

Groundwater Contaminant Transport Model, Private Landfill, Bowling Green, MO. Project Engineer responsible for developing a groundwater flow and contaminant transport model for a proposed landfill expansion. The objective of this study was to demonstrate that the proposed monitoring well spacing would adequately detect the presence of a potential contaminant plume from the landfill.

Groundwater Contaminant Transport Model, Private Company, Lyons, KS. Project Engineer responsible for developing a groundwater flow and contaminant transport model for a salt production facility. The objective of this project was to determine the extent of groundwater contamination and evaluate the effectiveness of extraction wells.

Publications and Presentations

Quick, A.Q., Burns, K., "Leachate Pond Cover Systems," Solid Waste Association of North America, Kansas Sunflower Chapter Conference, Mulvane, KS, October 2023.

Quick, A.Q., James, L., "Evaluating and Controlling Landfill Odors and Other Advancements in Landfill Technologies," Midwest Air and Waste Management Association Conference, Overland Park, KS, February 2018. Missouri Waste Control Coalition Conference, Osage Beach, MO, July 2018, Solid Waste Association of North America, Kansas Sunflower Chapter Conference, Mulvane, KS, October 2018.