

Xinxia (Luke) Zou, P.E.

Senior Technical Engineer

Biography

Mr. Zou is experienced in civil design, remedial design, and geotechnical analyses. He has been instrumental in the permitting of numerous commercial development projects. His work also includes oil and gas site development, landfill remedial design, CCR unit closure, and construction oversight. He is proficient in Civil 3D and provides expertise in HydroCAD, Hydraflow Storm Sewers, and HEC-RAS. He has been a leading role in KEY's technical development in site design and water resources modeling.

Regulatory Experience

- » CCR Regulations
- » NPDES
- » PA Chapter 102 (Erosion & Sediment Control)
- » PA Chapter 105 (Dam Safety & Waterway Management)
- » Local Municipality & Zoning Regulations

Practice Areas

- » Brownfield Remediation/Redevelopment
- » Civil Design
- » Coal Combustion Residuals
- » Construction Oversight
- » Environmental Permitting & Compliance
- » Oil & Gas Services
- » Site Assessment
- » Site Development

Representative Project Examples

Brownfield Remediation: Developed plans to transform former gravel quarry to a clean fill facility. Prepared HEC RAS analysis to determine impact on floodplain. Designed subsurface infiltration system to manage stormwater to achieve a no outflow scenario. Obtained NPDES permit.

Land Development: Led effort to complete the land development application. Designed erosion & sediment control BMPs, storm sewer pipe network, and subsurface stormwater management system. Assisted with preparation of traffic management plan and HOP permit application. NPDES permit issued without comment.

Coal Combustion Residuals (CCR): Developed conceptual closure options for decommissioned coal-fired power plant. Led design of stormwater management system in support of closure of ash pond. Assisted with geotechnical evaluation and slope stability analysis.

Oil & Gas: Designed various well pads and pipelines for ESCGP-2 and ESCGP-3 permitting. Designed erosion and sediment control BMPs. Developed post-construction stormwater management design.



Licenses and Affiliations:

- » Professional Engineer in:
 - » LA
 - » MI
 - » PA
- » HAZWOPER Training

Education and Skills:

- » M.S. Civil & Environmental Engineering, Carnegie Mellon University
- » B.E. Environmental Engineering, Tongji University