



# PROFESSIONAL PROFILE



## Lori E. Riker, PE

### Principal Engineer

#### EXPERIENCE SUMMARY

Ms. Riker has over twenty-eight years of environmental and civil engineering experience: Roux (July 2023-Present), Benchmark Civil/Environmental Engineering & Geology, PLLC (May 2003-July 2023), Malcolm Pirnie, Inc. (November 1996-May 2002), and ENVIRON Corporation (February 1995-October 1996).

#### TECHNICAL SPECIALTIES

Ms. Riker’s experience has focused on industrial regulatory compliance assistance; Phase I environmental site assessments; Phase II investigations; remedial investigations and alternative analyses under various state and federal cleanup programs; detailed wastewater and industrial process design; and construction administration.

Ms. Riker’s regulatory compliance experience consists of petroleum bulk storage (PBS) and chemical bulk storage (CBS) auditing and the associated spill prevention reporting; Emergency Planning and Community Right-to-Know Act (EPCRA) Tier II and Toxic Release Inventory (Form R) reporting; air permitting (Title V, State facility, air facility registrations), compliance reporting, and emission statement preparation; storm water permitting, reporting, Storm Water Pollution Prevention Plans (SWPPPs), and Best Management Practices (BMP) Plans; State Environmental Quality Review Act (SEQRA) environmental assessment forms (EAFs); industrial wastewater design and pretreatment permitting; and hazardous waste auditing, annual reporting, and reduction plans.

#### REPRESENTATIVE PROJECTS

- Currently serving as environmental consultant for two western NY pharmaceutical manufacturers. Providing on-going wastewater compliance assistance; and developed and updated Spill Prevention Control and Countermeasure (SPCC)/Hazardous Waste Contingency Plan, air emissions permits, Hazardous Waste Reduction Plans, EPCRA reporting, and annual hazardous waste reporting. Assisted with wastewater treatment plant expansion, including sequencing batch reactors and UV disinfection, and NYSDEC State Pollutant Discharge Elimination System (SPDES) permit modifications for increased flow and new cooling tower water treatment chemicals.
- Currently serving as adjunct environmental compliance specialist for a vacuum and heat transfer equipment manufacturer, food manufacturer, scrap metal recycling facility, specialty chemical manufacturer, medical equipment manufacturer, and other industrial facilities. Environmental regulatory compliance auditing, sampling, inspecting, permitting, and reporting services including EPCRA Tier II and Form R reports; NYSDEC Multi-Sector General Permit (MSGP) for Storm Water Discharges Associated with Industrial Activity discharge monitoring reports (DMRs) and SWPPPs; PBS/CBS inspections and SPCC Plans/Spill Prevention Report (SPR); solid and hazardous waste management; air permitting; and wastewater pretreatment system assistance.
- Currently serving as a third-party environmental consultant to Delta Sonic Car Wash Systems, Inc. for its NY and PA gasoline stations and lube oil shops. Providing regulatory support for spills and releases. Performing environmental compliance audits focusing on NYSDEC PBS regulations and preparing SPCC Plans and an overall BMP Plan.
- Assisted in the RCRA Corrective Measures Study (CMS) for the Former Bethlehem Steel Site located in Lackawanna, NY. Duties included preparing work plans for Interim Corrective Measures (ICMs); reviewing analytical data obtained for the solid waste management units (SWMUs) and water courses; reviewing reports/assessments prepared by other consultants

#### CONTACT INFORMATION

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#### EDUCATION

BASc, Civil Engineering,  
University of Waterloo  
MASc, Environmental  
Engineering, University of  
Guelph

#### PROFESSIONAL LICENSES

Professional Engineer, New York

retained by NYSDEC and other agencies; and evaluating numerous slag/fill and groundwater remedial alternatives and recommending a final remedial approach in the CMS Report. Currently performing pre-design investigations prior to remedy implementation.

- Managing numerous successful NYSDEC BCP projects for former steel plant sites and industrial/commercial properties in western NY. Prepared Remedial Investigation (RI) Work Plans, RI/Alternative Analysis (AA) Reports, Interim Remedial Measures (IRM) Work Plans, and Remedial Action Work Plans (RAWPs); managed implementation of remedial actions; and prepared Final Engineering Reports (FERs) and Site Management Plans (SMPs). Conducting post-Certificate of Completion (COC) annual site inspections and Periodic Review Reports. Contaminants of concern primarily include petroleum, chlorinated solvents, heavy metals, and emerging contaminants.
- Providing/managing on-going environmental compliance assistance to scrap metal recycling facilities in NY and PA including permitting, sampling, inspection, and reporting requirements under the MSGP for Storm Water Associated with Industrial Activity and SPDES Permits; PBS inspections and preparing SPCC Plans; EPCRA Tier II reporting; preparing landfill disposal applications; preparing water treatment chemical notifications; hazardous waste annual reporting; and air permitting modifications and compliance reporting.
- Currently serving as a third-party environmental consultant to Delta Sonic Car Wash Systems, Inc. for its NY and PA gasoline stations and lube oil shops. Providing regulatory support for spills and releases. Performing environmental compliance audits focusing on NYSDEC PBS regulations and preparing SPCC Plans and an overall BMP Plan.
- Providing/managing on-going environmental compliance assistance to industrial facilities including air permit applications and modifications; SPDES/NPDES storm water permitting, BMP Plan/SWPPP preparation, compliance monitoring, and DMR preparation; PBS and CBS applications for tank registration under NYSDEC's bulk storage programs and associated SPCC Plans and SPRs; water withdrawal and sewer metering reports; PBS registration, SPCC Plan preparation, and tank inspection; and annual hazardous waste reporting.
- Assisting with Site Plan approval application, SEQRA EAF, SWPPP/NOI, and Erosion and Sediment Control (ESC) Plan support for multiple photovoltaic solar array installations across New York State.
- Performing environmental regulatory compliance audits for numerous active industrial facilities including research and

interpretation of federal, state, and local environmental regulations and preparing reports to summarize the findings and prioritize corrective measures. Assisting clients with voluntary disclosure under USEPA's Small Business Compliance Policy.

- Assisted with permitting and design of facilities for storage and handling compressed gas in accordance with the NYS Fire Code, and prepared Emergency Action Plans, Fire Prevention Plans, and Hazardous Materials Management Plans required of NFPA 55.
- Provided environmental compliance assistance to NOCO Energy Corp. for its major petroleum distribution terminal and warehouse in Tonawanda, NY and multiple retail gasoline stations in NY and VT. Specific projects included storm water permitting and preparation of a SWPPP; preparation of SPCC Plans and SPR; Title V air permitting assistance and emission statement preparation; EPCRA Form R reporting; review of and recommendations for updating the USCG Facility Response Plan; and permitting and conceptual design for upgrades to a PBS warehouse facility.

#### PROFESSIONAL AFFILIATIONS

Air and Waste Management Association, Niagara Frontier Section Board Member (Education Director)

#### PROFESSIONAL TRAININGS

Certified OSHA 40-Hour Hazardous Waste Site Training

#### PRESENTATIONS

Dooley, M. and Riker, L.E. "Adapting a Remedy to Achieve Site Closure for a Challenging, Century-Old, New York Brownfield Site," presented as a poster at the Twelfth International Conference on the Remediation of Chlorinated and Recalcitrant Compounds (Battelle Conference), Palm Springs, CA. May 22-26, 2022.

Riker, L.E. and Miller, A. "A Remedy to Achieve Site Closure: Fast and Permanent Remedy Replaces Pump and Treat System," presented as a webinar hosted by Regenesys. March 30, 2022.

Riker, L.E. and Dooley, M. "Achieving Remedial Goals at Challenging Sites in WNY," presented at the Air & Waste Management Association, Niagara Frontier Section, Annual Enrichment Seminar. June 9, 2021.

Riker, L.E. and McManus, A.C. "Energize Your Business," presented at the Fall Seminar of the New York Water Environment Association, Genesee Valley Chapter, Industrial Issues Committee, Webster, NY. November 1, 2001.

Riker, L.E., McManus, A.C., and Sanders, L. A. "Life after Registration: Integrating Environmental Management Systems into Business and Operating Cultures," Proceedings, 94th Annual Conference and Exhibition of the Air & Waste Management Association, Orlando, FL. June 26, 2001.



Riker, L.E., McManus, K.R., Kreuz, D.E., and Mistretta, M.V. "Trash to Treasure: Revitalization of Buffalo's Waterfront," presented at a Conference of the New York State Society of Professional Engineers, Erie/Niagara Chapter, Environmental Affairs Committee, Buffalo, NY. January 10, 2001.

Secker, L.E., Zytner, R.G., and Stiver, W.H., School of Engineering, University of Guelph, Guelph, Ontario. "Soil Remediation using Supercritical Fluid Extraction," presented at the 49<sup>th</sup> Annual

Purdue Industrial Waste Conference, Purdue University, West Lafayette, IN. May 9-11, 1994.

Secker, L.E., Zytner, R.G., and Stiver, W.H., School of Engineering, University of Guelph, Guelph, Ontario. "Supercritical Fluid Extraction for Large-Scale Soil Remediation," presented as a poster at the 1993 Technology Transfer Conference, Ontario Ministry of Environment and Energy, Toronto, Canada. November 22-23, 1993.