

CONTAMINATED SOILS AND BROWNFIELDS REDEVELOPMENT IMPLICATIONS FOR STORMWATER INFILTRATION



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Abstract

Redevelopment opportunities abound throughout the Twin Cities metropolitan area. New challenges have arisen for developers when it comes to stormwater treatment. The challenges include increased local, state, and EPA guidance and regulations on urban stormwater management for on-site stormwater handling to mimic natural hydrology, including infiltration, recharging aquifers and reducing surface water runoff to impaired lakes, streams, and wetlands. In order to assist developers and the community in achieving these goals, the MPCA is working with researchers, regulators and stakeholders to find innovative solutions to the design demands of contaminated sites.

This presentation will cover challenges of contaminated site management when redevelopment plans aim to minimize offsite disposal of contaminated soils while maximizing stormwater infiltration. This challenge is coupled by regulatory concerns when contaminated soil and groundwater exist on parcels nearby the infiltration system. The MPCA is working with the EPA and researchers to develop guidance documents targeted to the remediation and redevelopment industry to further assist those working to minimize offsite stormwater treatment.

Biography

Minnesota Pollution Control Agency (MPCA) in St. Paul. In her roll at the MPCA, she performs technical reviews of petroleum release investigations, corrective actions and brownfields redevelopment projects. She is the Green and Sustainable Remediation and Redevelopment (GSR²) Coordinator and Brownfields Stormwater Liaison for the MPCA's Remediation Division. In this roll, she is working with internal colleagues in developing stormwater infiltration guidance on brownfields redevelopment sites. She earned a Bachelor's degree in Geology from North Dakota State University in 1998 and spent 9 years in the environmental consulting industry in Colorado and Minnesota until joining the MPCA in 2007.