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- ▶ SITE REMEDIATION / IN SITU CHEMICAL OXIDATION
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THE NORFOLK•RAM REPORT

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Focus on Indoor Air Quality

Regulators are focusing increased attention on indoor air quality at residences and buildings located on or near previously contaminated sites. Specifically, regulators are concerned with air quality impacts resulting from historic soil and groundwater contamination.

Of greatest concern are sites previously contaminated with Volatile Organic

Compounds (VOCs) such as petroleum-based products or manufacturing and dry cleaning solvents. If a preferential pathway exists, vapors from residual contamination can seep into nearby structures, impacting air quality.

Known as Vapor Intrusion (VI), this type of indoor air contamination often happens on sites that have been cleaned up prior to enactment of current environmental regulations. VI can be a liability in the sale of the property and in extreme cases pose health risks, but until recently VI has received little attention from regulators.

ASTM International, a recognized leader in testing standards, is now responding to health and environmental concerns by drafting new standards for assessing VI. Once complete, new VI assessment standards could become a

requirement in addition to a standard ASTM Phase I site assessment prior to real estate transactions.

This new standard will have a significant application to Brownfields sites in particular since many are located on former manufacturing sites.

The Environmental Protection Agency has recently produced a draft guidance document regarding VI. The draft document recommends ways to determine whether a preferential pathway exists for VI to occur, and whether there is a potential human health risk (www.epa.gov/correctiveaction/eis/vapor.htm).

If you have questions about Vapor Intrusion, contact Brian V. Moran, P.E., LSP at bmoran@norfolkram.com or 508.478.1276.



Norfolk Ram Attends World's Largest Stormwater Pollution Prevention Conference

Communities across the country are wrestling with how to best manage pollutants in stormwater runoff—the single largest source of ocean, river, lake, and stream pollution. Federal and state permitting requirements further pressure communities to act.



Nationally, and locally many communities are dealing with elevated bacteria levels in streams and lakes that can lead to closure of swimming /recreation areas or shell fishing areas, due to concerns about water-borne illnesses. These closures and elevated bacteria levels frequently lead to more aggressive surface water quality management measures. Stormwater related nutrient pollution (e.g. nitrogen and phosphorous) also impacts coastal and freshwater resources causing algae blooms or other water quality problems.

For the past six years, a national conference known as “StormCon” has been held annually to focus on stormwater related issues. Thousands of municipal and industry leaders, federal agency representatives, engineers, consultants, contractors, and vendors attend to learn about techniques, management strategies, and new technologies to improve community, construction-site, and industrial stormwater pollution prevention efforts. Norfolk Ram’s Mark Bartlett, P.E. attended the sixth annual StormCon, which is billed as the world’s largest stormwater pollution prevention conference.

This year’s StormCon was held in Phoenix, AZ in August, and featured nearly 200 presenters from 30 states and five countries that presented some of the latest information and proven techniques for addressing stormwater concerns. In addition, more than 150 vendors exhibited stormwater-related equipment, products, and services.

Conference presentations and papers documented a wide range of technical, managerial, and technological approaches to solving stormwater problems, as tested and applied by researchers and practitioners across the nation and around the world. Information was presented on:

- **LID, Smart Growth, and Green Infrastructure:** Low-impact development techniques and successful projects
- **Best Management Practices (BMPs):** Examples of structural and nonstructural BMPs being used to achieve water quality goals
- **Construction-Site BMPs:** Implementation of stormwater pollution prevention plans, installation and maintenance of best management practices on construction sites, and preparation of documentation for inspections to meet NPDES requirements
- **Stormwater Program Management:** Public education and outreach, program funding, stormwater utilities, meeting regulatory requirements, and other aspects of program management
- **Research & Testing of BMPs:** Technical methods for testing the effectiveness of best management practices and comparing different BMPs, as well as with stormwater BMPs for specific applications
- **Comprehensive Water-Quality Monitoring:** Monitoring and sampling techniques, water-quality assessment, tracking illicit discharges and pollutant sources, data collection, and inspection practices

Mr. Bartlett also attended the full-day pre-conference workshop on Erosion Control and successfully participated in the full-day certification exam for Certified Professionals in Erosion and Sediment Control (CPESC). For more information on stormwater management or Norfolk Ram’s civil engineering services, please contact Mark Bartlett at mbartlett@norfolkram.com.



Norfolk Ram Employee News

Congratulations to Norfolk Ram Group’s **Katy Konary** who recently passed her Professional Engineering exam and is now a licensed Professional Engineer in the state of Massachusetts.

Ms. Konary has been at Norfolk Ram for three years after graduating with a Master of Science degree and a Bachelor of Science degree in Civil and Environmental Engineering from the University of Massachusetts, Amherst.



While serving as an engineer for Norfolk Ram, she has been involved with feasibility studies, permitting, grant applications, site development, wetlands protection, design and inspection of sewage disposal systems, drinking water sampling, stormwater drainage designs, and water supply development.

Norfolk Ram Group Associate **Joseph Salvetti**, LSP was a presenter at the November 16 seminar, *Real Estate Development from Beginning to End in Massachusetts* which was held at the Holiday Inn Boston – Dedham Hotel and Conference Center.

Mr. Salvetti discussed environmental due diligence and focused on the successful redevelopment of a Brownfields property in Yarmouth Port, MA.

For more information contact jsalvetti@norfolkram.com or visit www.Lorman.com.

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