



# NaturallyWallace

## Naturally Wallace Consulting Newsletter

Volume 3

September 2011

As we move into the fall season, the team at Naturally Wallace Consulting (NWC) is pleased to present the third edition of our e-newsletter. Our track record of performance in designing and installing large complex engineered wetland systems that work, is highlighted here.

We have much to update you on including projects, technical and applications presentations, articles, and performance data that exemplifies the successful operation of our treatment wetland systems.

Thank you to everyone for your emails and comments on our past editions. We encourage your feedback. Follow NWC on [LinkedIn](#) or contact us anytime at [contact@naturallywallace.com](mailto:contact@naturallywallace.com).

### Project Activity

NWC natural treatment system designs currently under construction include:

- Edmonton International Airport: Treatment of airport deicing
- Long Island MacArthur Airport, Long Island, New York: Treatment of airport deicing
- Cano Limon (Occidental Petroleum in Bogota Colombia): Treatment of produced water
- El Dorado Refinery: Treatment of contaminated groundwater

NWC is also engaged in a research project with the Airport Cooperative Research Board to evaluate treatment of runoff for deicing at airports. The study will review proven and potentially promising emerging technologies for treatment of ADFs and stormwater containing spent ADFs for airport of all sizes and in differing climates.

**In This Issue**  
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**Feature Article:**  
[Industrial Treatment Wetland Systems: A Track Record of Performance](#)



*Treatment Wetland Research Facility in Langenreichenbach, Germany*

Engineering treatment wetlands for complex industrial waste streams involves designing systems that can treat extreme ranges of flows and concentrations in varying climatic and operating conditions.

For example, the inclusion of aeration in treatment wetlands, an approach pioneered by the team at NWC, has greatly advanced the ability of these natural systems to reliably degrade organic chemicals and ammonia.



Installation of Aeration Lines at Edmonton International Airport

[Click here](#) to learn more about our projects.

## New Conference Presentations & Articles

Scott Wallace co-wrote a paper, which was presented by Marty Schmidt, VP at URS, titled, "[Managing Legacy Contaminants at a Former Oil Refinery Site in Wellsville, New York](#)" at the Battelle Bioremediation and Sustainable Environmental Technologies Conference in Reno, Nevada, June 27th - June 30th.

Scott Wallace authored a feature on "[Refined Engineering for Reliable Remediation](#)," which appeared in the May issue of *CE News*.

Scott Wallace presented "[Glycol Treatment at London's Heathrow Airport](#)" at the Wetland Pollutant Dynamics & Control Conference (WETPOL) in Prague, July 3rd - July 8th.

*Airport Business* featured the "[ADF Treatment System: Buffalo Niagara Int'l](#)" by Mark Liner in the June issue.

Scott Wallace wrote an article for the May IWA newsletter titled, "[Design and Performance of the Wetland treatment System at the Buffalo Niagara International Airport.](#)"

The Summer issue of *Environmental Science & Engineering* features, "[Engineering Treatment Wetlands for Various Wastewater Streams](#)" by Mark Liner, P.E., NWC

[Click here](#) to view more conference presentations and feature articles.

This is critical for the design of performance-based wetland systems for the management of produced water from oil wells, treatment of spent deicing fluids at airports, groundwater remediation, and tailings water from gold mines.

By using understood hydraulic and thermodynamic principles grounded in chemical engineering, NWC designers are creating wetland "reactors" that are stable and competitively sized, and that have a superior track record of performance over time.

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