

Sustainable Water Management at the Hartsfield Jackson Atlanta International Airport

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Abstract. The 2013 Water Management Plan for Hartsfield Jackson Atlanta International (ATL) Airport is the first comprehensive water management plan for the ATL Airport. Directed by City of Atlanta Department of Aviation's Asset Management and Sustainability (AMS) Division, the information obtained for this plan was used to develop water conservation strategies for reaching the potable water reduction goal set in ATL's Sustainability Management Plan. The plan includes a comprehensive water audit, a distribution system evaluation, and an overview of stormwater management plan. The water audit included a detailed survey and personnel interview that documented end-user water use and plumbing fixtures at each of the terminal and support facilities with the airport property boundary, including an audit of ATL's new rental car center with recycled cash wash system. A spreadsheet-based on model was developed to estimate water savings based on conservation strategies. In addition to the audit, a distribution system model was developed to evaluate the adequacy of the water distribution system to provide future supplies. The stormwater management overview focused on evaluating the potential to implement green infrastructure and to maximize the potential to recharge the Flint River basin. This presentation will discuss the audit and planning process, results, recommendations and various projects that are being implemented at ATL following the completion of the plan in 2013.