

# WATER DESIGN-BUILD COUNCIL

Facilitating productive and collaborative relationships  
between service providers and owners

## WDBC DESIGN-BUILD PROJECT SPOTLIGHT

### U.S. Navy Wastewater Treatment Plant Upgrade, Indian Head, MD



**Contract Scope:** Wastewater

**Start & End Year:** July 2009 – July 2011

**Size (MGD):** .5 MGD upgrade

**Design & Construction Value:**

\$13,290,696

#### PROJECT OVERVIEW

The Maryland Department of the Environment began working toward a cleaner Chesapeake Bay by breaking ground to construct an upgrade to the Indian Head Wastewater Treatment Plant. They chose Haskell to upgrade and expand their existing .5 MGD sewage treatment plant to reuse quality effluent meeting the requirements of the Chesapeake Bay Restoration Act.

The plant design included enhanced nutrient reduction technology that delivered dramatically reduced levels of nitrogen and phosphorus from being discharged into the Chesapeake Bay from that region. Excess nutrients, like nitrogen and phosphorus, degrade water quality, which negatively impact the ecology of the Bay and its tributaries.

The Indian Head Wastewater Treatment Plant Upgrade is a USGBC LEED Silver Certified facility - One of the first in the nation.

#### PROBLEM

This project was done on an active facility on an active military base. Throughout the upgrades, there could be no disruptions to the plant's current usage. The site of the military base, Indian Head, Maryland, also housed its number of unforeseen circumstances. The jobsite was hit with a flood, hurricane and earthquake. All which did not affect the timeliness of the schedule or the outcome of the project. Another problem was discovering that the filter backwash had not been accounted for in the total flow values defined by the Navy's design criteria.

#### SOLUTION

Upon learning about the unaccounted filter backwash, Haskell immediately developed solutions to address this issue in the most cost effective manner. After presenting potential solutions, the



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owner directed us to increase the size of the SBRs, which resulted in an increase in contract value and extended the completion date by two months.

## RESULTS

The Indian Head Wastewater Treatment Plant upgrade has removed an estimated 22,842 lbs. of nitrogen, annually, that would have been discharged directly from the plant into Mattawomen Creek, the Potomac River and ultimately the Chesapeake Bay. We're proud to have a part in helping the state preserve the local environment and make Maryland a cleaner, safer place to live.

## TESTIMONIALS

*"Haskell was an outstanding contractor. Extremely safe job site, excellent quality control, very well managed. Haskell truly raised the bar."*

- **Joshua M Carnahan, LT, CEC, USN, NAVFAC  
Construction Manager, NAVFAC Washington**

## MEMBER INFORMATION

### Haskell

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*Haskell was founded in 1965 by Preston Haskell and has grown today to over 600 employees in offices throughout the United States and Mexico. The Water Division of Haskell has been completing Design-Build Water and Wastewater projects for over 10 years. The Water Division has earned a reputation of excellence in the delivery of water and wastewater related projects through design-build. We apply deep understanding and an extensive breadth of resources to tackle even the most complex projects. With a single point of responsibility, we break through the complications and provide you with a clearly better solution that fits your community's unique needs.*



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