

under the surface

MARINE ENGINEERING & CONSTRUCTION EXPERTS



The Castle Group
Innovation in action

W.J. Castle P.E. & Associates
Hydro-Marine Construction
Simplified Bridge Systems

Official Newsletter of The Castle Group: Volume 5



CASTLE Helps Revitalize Philadelphia's Race Street Pier

Driving over the Benjamin Franklin Bridge, you can't help but notice the transformation going on below. In an ongoing effort to reconnect the City to the River, the Delaware River Waterfront Corporation (DRWC) and the City of Philadelphia have chosen to revitalize Race Street Pier, formerly known as Pier 11. Built circa 1900 at the foot of the Benjamin Franklin Bridge, Race Street Pier was once used by national and international steamships carrying fruit, salt, and cargo. After years of decay and vacancy, Race Street Pier is now being reconstructed as a one-acre public park for residents and tourists. Joseph Forkin, Vice President of Operations and Development at the DRWC says the revitalized pier will "now bring a new look at

public design along the waterfront, as well as a new way to reuse old industrial piers within the context of first-class public realm design."

"We're excited to be playing such a crucial role in the revitalization of the Delaware River waterfront."

- Melissa Stein:

Marketing Coordinator, The Castle Group

Starting in April 2009, W.J. Castle & Associates, P.C. (CASTLE) and Hydro-Marine Construction (HYDRO) have been

Castle Family Offers a Helping Hand



While many families take the last few weeks of August to vacation and enjoy what's left of summer, this year's Castle family vacation looked quite different. Janet Castle, President of Hydro-Marine Construction, along with her two sons Alex and Liam, spent one week in Granada, Nicaragua to help teenagers in need.

Janet, Alex and Liam traveled August 14-21 with First Presbyterian Church of Mount Holly, New Jersey in partnership with Vida Joven (Young Life) Ministries. The purpose of the trip was to help the Nicaraguan youth who have been affected by wars, natural disasters and other socioeconomic problems. Young Life ministers to the youth of Nicaragua through the use of clubs, camps, and sports. "Change a teen's life now and you can change the rest of their lives," says Janet. "It will impact their friends, families and community both now and in the future." To find out more about Young Life Ministries, visit www.younglife.org

CONTINUED PAGE 3

Highlighting Construction Projects



Poughkeepsie, NY
Project: Substructure Repairs for Walkway over the Hudson (Poughkeepsie-Highland Railroad Bridge)

Client: Walkway over the Hudson State Historical Park

Description: Hydro-Marine is completing underwater repairs of piers # 2 and #3 of the historic Poughkeepsie-Highland Railroad Bridge in 40-50ft water depth on the Hudson River. Stay tuned for more details on this project in upcoming Newsletters.



Riegelsville, PA
Project: Riegelsville Toll-Supported Bridge Rehabilitation-CN TS-445A, Capital Project No. 0442A

Client: Delaware Joint Toll Bridge Commission

Description: Working with J.C. Lindstrom Co., Inc., Hydro-Marine Construction is assisting with the barge operations and crew to erect and demolish the superstructure of the Riegelsville Toll-Supported Bridge.

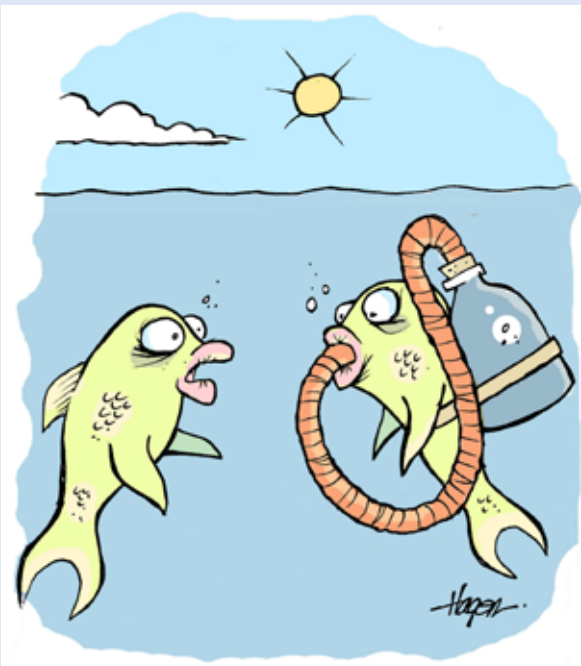


Philadelphia, PA on the Delaware River

Project: Pier 11 (Race Street Pier) Substructure Rehabilitation

Client: Delaware River Waterfront Corporation

Description: WJ Castle and Hydro-Marine Construction are rehabilitating the existing pier structure and strengthening it to support the proposed public park with decks, walkways, trees, etc. as a part of the plan to revitalize the Delaware River Waterfront.



NOW REMEMBER, YOU HAVE ENOUGH WATER FOR HALF AN HOUR, THEN YOU'LL HAVE TO COME DOWN.

Recently Featured In

The Castle Group has recently been featured in the following publications:



Philadelphia Business Journal
 July 16, 2010, Page 15



Ocean News & Technology
 August 17, 2010, Web Article



Sea Technology Magazine
 September 2010, Page 54



Hopatcong Patch
 September 30, 2010, Web Article



Inland Port Magazine
 September/October 2010
 Page 28



Underwater Magazine
 November/December 2010
 Page 54

To see these articles in electronic format, please visit www.wjcastlegroup.com/news-pressreleases.html

CASTLE HELPS REVITALIZE Philadelphia's Race Street Pier

Continued from Cover



busily working on the Race Street Pier rehabilitation. "This project is much different from previous CASTLE projects. Typically, our rehabilitation projects are for the purpose of a structure regaining its original function. The Race Street Pier rehabilitation is unique in that the function of the structure will be changing completely," says Richard Parisi, P.E. of The Castle Group.

In the first stage of the project, CASTLE performed an inspection of the entire 80' x 540' pier, both above and below the water's surface. Surprisingly, CASTLE divers discovered the overall condition of the 100 plus year old pier was not as bad as they had expected. Some of the findings included deteriorated steel trusses, timber splitting among the piles, and spalling on the concrete decks which needed patching.

After CASTLE's rehabilitation design was submitted, HYDRO bid on the construction portion of the project, was the low bidder, and was awarded the project. The preliminary steps included cleaning the debris from the pier and demolishing the unused fender system. Once these were completed, HYDRO then rehabilitated the steel support trusses, timber piles, pile caps, and concrete decks, followed by prep work for the upcoming landscaping.

Civil engineers Langan Engineering & Environmental Services and landscape architects James Corner Field Operations were contracted by DRWC and the City of Philadelphia for park designs and planning. CASTLE helped with the pier structure modification in order to accommodate the park designs. This included designing the support in the deck for 12 tree boxes, reshaping of the decking and pier nose, and the support for the edges of the pier for the walkway pavers. HYDRO's rehab of the pier is predicted to be completed in late 2010 with the landscaping and paving to be completed in 2011.

"The Castle Group has worked with the Delaware River Waterfront Corporation on a number of projects to rehabilitate structures along the Delaware River in recent years," says Melissa Stein, Marketing Coordinator for The Castle Group. "We're excited to be playing such a crucial role in the revitalization of the Delaware River waterfront. The transformation of Race Street Pier into a public park is a project that will give life to the City of Philadelphia and impact residents and tourists for years to come."

4 Questions WITH Hank Katkow



Tell us about your position at The Castle Group.

As a project manager I have the best of all positions. I see the project from start to finish. Everyone at Castle knows what projects we have on the books but I get to see the whole thing come together. To a small degree, I'm involved in which projects we go after and the bidding process. When we are awarded a project, I'm directly involved in how we proceed, from ordering materials to scheduling and finally to performing the job. Anyone in construction will tell you that the best part of the job is to see a project go from lines on paper to something real in or on the ground.

What has been your favorite Castle Group project to supervise?

My favorite project to date has been the rebuilding of a dock at a large corporation in Pennsylvania. It was such a diverse project that you had to be thinking about your next move constantly. In the beginning there was a lot of diving for debris removal. After debris removal, the actual rebuilding of the dock was pretty complicated. It wasn't a "cookie cutter" repair. We refined our installation method and used the Hydro-Brace, W.J. Castle's patented steel H-pile repair system. We also had to be creative with our material handling under the docks themselves. It was a challenge and I had a great group of people working with me to make it happen.

What is the biggest challenge facing your industry right now?

Like most businesses, the economy has been a challenge. Budget cuts often impact the projects that municipalities would like to perform. With fewer projects out there, everyone is bidding and it is a very competitive market. Environmental issue concerns and stricter governing laws are also changing the way firms in our industry run their businesses.

What do you do when you are not at The Castle Group?

In the summer months my wife and I go down to the boat in West Wildwood, NJ. It's a great distraction from the hustle and bustle of everyday life for Loretta and me. We also make wine as a hobby; we call it "Dog Gone Wine." Even though the grapes do all the real work, there is a lot more prep work than most people realize. Sanitizing all the glass used in the fermenting process and the bottling is very time consuming and cannot be skimped on. I also enjoy just hanging out with my wife and Kip, our black lab.



company *News*

We would like to introduce the newest members of The Castle Group Team:



Roger Weber, P.E.
Senior Engineer



Marianne Schoeffling
HR/Contracts Coordinator



Steve Gardner, EIT
Engineer

Castle Takes First-Place at Sheetz-Pepsi Golf Tournament



The Castle Group entered as a corporate team at Penn State Altoona Advisory Board 26th Annual Sheetz-Pepsi Golf Tournament at Park Hill Country Club on June 9, 2010. The tournament format was the best ball of the foursome with

full handicap. The Castle Group's Team, headed by Richard Lloyd of Altoona, PA, cousin of The Castle Group's Bill Castle, battled against other corporate teams and individuals and took first place honors. The Castle team was awarded the Sheetz-Pepsi Golf Tournament Trophy at the Award Program at Penn State Altoona. Congratulations on a great golf outing by all to help support PSU Altoona!



The Castle Group
Innovation in Action
Tynddol Building
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