

## **November 2011 Update**

### **Replacement of the Existing Water Siphons between Brooklyn and Staten Island “Siphon Project”**

Please find below a summary of completed and projected work related to the “Replacement of the Existing Water Siphons between Brooklyn and Staten Island” project (“Siphon Project”). The New York City Economic Development Corporation (EDC) is administering the project, which is being funded by the New York City Department of Environmental Protection (DEP) and the Port Authority of New York & New Jersey (PANYNJ).

Major components of the project include the following:

- use of a tunnel boring machine (TBM) to install a new 72” water siphon
- installation of land piping (new water mains and sewers) in Staten Island and Brooklyn using open cut and microtunneling techniques
- construction of a new “green building” chlorination station in Staten Island
- implementation of an extensive community outreach program, including development of informational materials and ongoing liaison with residents, businesses and other stakeholders

Initial work has focused on project mobilization and site preparation (Staten Island), collection of baseline data, coordination with ConEdison and National Grid regarding relocation of gas and electric lines in advance of construction and application for permits. Construction began in August 2011 with the start of work on the shaft in Staten Island, where the TBM will begin tunneling operations; work on the Brooklyn shaft is scheduled to begin in January 2012.

#### **Work Completed in October**

- Continuation of construction of the slurry wall for the Staten Island shaft, including excavation, assembly and installation of slurry wall panels and concrete placement. To date, 19 of the 32 slurry wall panels have been installed. This work has required brief (5-10 minutes) closures of Front Street in order to move the assembled panels from the project yard (located on the east side of Front Street) across the street to the shaft site. These closures are expected to continue until late November, when construction of the slurry wall will be completed.
- Collection of baseline data (noise, vibrations, groundwater levels) in Staten Island and Brooklyn
- Continuation of construction of the TBM (scheduled for delivery in January 2012)
- Continuation of design work related to construction of the slurry wall for the Brooklyn shaft, which will be located within Shore Road Park (just south of 83<sup>rd</sup> Street opposite Fort Hamilton High School), including coordination with the New York City Department of Parks and Recreation
- Continuation of preparatory work (drawings, permit applications and other submittals) prior to initiation of land piping activities in Staten Island
- Community outreach activities, including distribution of informational materials; meetings with Brooklyn Community Board #10 and Staten Island Community Board #1’s Waterfront Committee; and liaison with residents, businesses and stakeholders in the project area

## Work Projected for November

- Completion of construction of the slurry wall for the Staten Island shaft and installation of dewatering wells within the starter trench for the TBM
- Continuation of TBM construction
- Continuation of design work related to construction of the slurry wall for the Brooklyn shaft
- Project mobilization and site preparation, including tree removal and pruning, as needed, at the Brooklyn shaft site
- Initiation of land piping activities in Staten Island, including work related to:
  - relocation of two (2) small sections of a gas line in Victory Boulevard, between Bay Street and Murray Hulbert Avenue, to accommodate construction of the jacking pits [**NOTE:** This work, which was originally anticipated for October, has been rescheduled to begin in early November, due to National Grid's revision of its plans.]
  - construction of two (2) jacking pits in advance of microtunneling activities to install a new water main beneath the Staten Island Railroad (SIRR) tracks at Victory Boulevard
  - guniting (spraying concrete) sections of an existing 72" sewer beneath Victory Boulevard, between the SIRR and Murray Hulbert Avenue, to strengthen the existing pipe; another section of pipe will be replaced (work anticipated to be done in late December/early January)
- Continuation of community outreach program, including meetings with Staten Island Community Board #1's Waterfront Committee and residents of Bay Street Landing; preparation and distribution of informational materials (Project Update, construction notices, web site, etc.); and ongoing liaison with residents, businesses and other interested stakeholders and constituencies

For additional information concerning these activities or other aspects of the Siphon construction project, please contact:

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Or visit the project website at:

<http://www.nycedc.com/ProjectsOpportunities/CurrentProjects/Citywide/Siphon/Pages/Siphon.aspx>

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### NOTE:

Recent construction photos follow.

## Construction of Staten Island Slurry Wall



Transport of slurry wall panel across Front Street; panel is filled with concrete following placement at shaft site

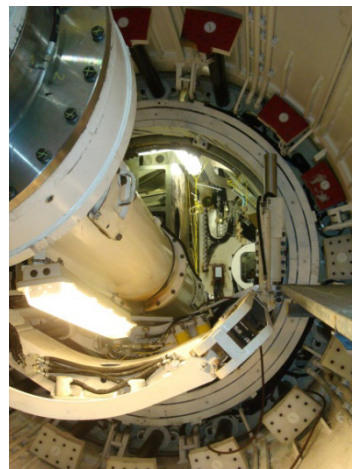


Equipment used to recycle slurry material for reuse during installation of panels

## Fabrication of TBM



Shield (side view)



Shield (inner view)