

January 2017 Update

Replacement of the Existing Water Siphons between Brooklyn and Staten Island "Siphon Project"

A number of major milestones were reached in 2016! Principal among these were the abandonment of the two existing siphons, which allowed the Army Corps of Engineers to complete dredging; pressurization, chlorination and activation of the new siphon; and installation of the green "living" roof and walls on the new chlorination station that is currently under construction.

Background Information

The New York City Economic Development Corporation (EDC) is administering the Siphon 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 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

Work During December 2016

- Continuation of preparatory work (drawings, permit applications and other submittals) in support of land piping and chlorination building activities in Staten Island and Brooklyn
- Continuation of activities related to construction of shaft access chambers in Brooklyn and Staten Island, including installation of precast planks
- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment within the building, the green "living" roof and walls, and the irrigation system for the roof
- Community outreach activities, including coordination with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals; preparation and distribution of informational materials (Project Update, etc.); updating of the project web site; and ongoing liaison with residents, businesses, and other interested stakeholders and constituencies

Work Projected for January 2017

- Continuation of preparatory work (drawings, permit applications and other submittals) in support of land piping and chlorination building activities in Staten Island and Brooklyn

- Continuation of activities related to construction of shaft access chambers in Brooklyn and Staten Island
- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment within the building, the irrigation system for the roof, and perimeter fencing
- Continuation of land piping work in Staten Island, including:
 - Installation of 18" sewer at the Staten Island Shaft Site and along Front Street in the vicinity of the Staten Island Shaft Site
 - Installation of 48" sewer outfall on Front Street in the vicinity of the Staten Island Shaft Site [**NOTE:** This work may require **intermittent** closure of Front Street, between Wave and Hannah Streets, to vehicular and pedestrian traffic.]
 - Demolition and abandonment of the venturi chamber on Victory Boulevard in the vicinity of Lyons Pool
- Continuation of land piping work in Brooklyn, including:
 - Demolition and abandonment of two existing venturi chambers on the west side of Shore Road, at 79th and 86th Streets
- Continuation of community outreach program, including coordination and meetings with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals, as needed; preparation and distribution of informational materials (Project Update, Construction Notices, etc.); updating of project web site; and ongoing liaison with residents, businesses and other interested stakeholders and constituencies

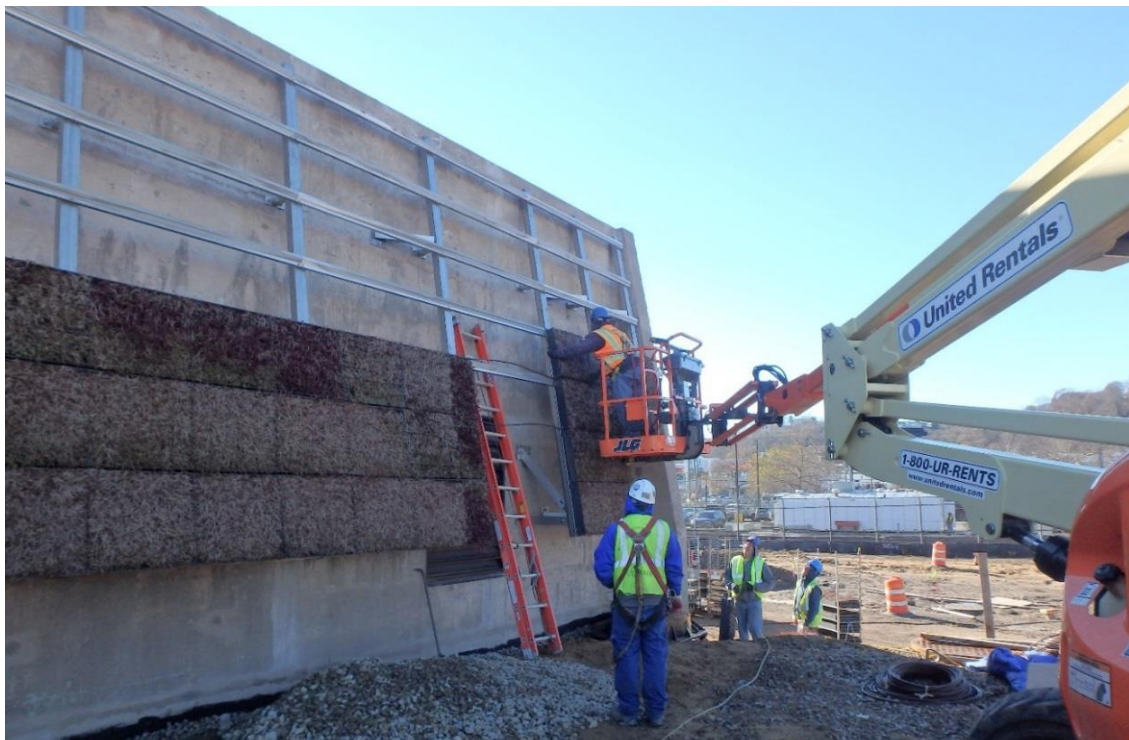
For additional information concerning these activities or other aspects of the Siphon construction project, please contact:

Anita Wright, Community Liaison
 Helen Neuhaus & Associates Inc.
 355 Front Street
 Staten Island, NY 10304
 (646) 823-6588 [cell phone]

Or visit the project website at: <http://www.nycedc.com/project/replacement-anchorage-channel-water-siphons>. See website for video illustrating the process by which the 110-ton, 300-foot long TBM drilled a distance of nearly two (2) miles, 100 feet beneath New York Harbor.



Newly installed Green Roof on top of Chlorination Station.
Plants are a variety of Sedum, also known as Stonecrop.



Installation of "living wall" panels on side of Chlorination Station



Installation of Precast Plank atop Staten Island Shaft

February 2017 Update

Replacement of the Existing Water Siphons between Brooklyn and Staten Island "Siphon Project"

A number of major milestones were reached in 2016! Principal among these were the abandonment of the two existing siphons, which allowed the Army Corps of Engineers to complete dredging; pressurization, chlorination and activation of the new siphon; and installation of the green "living" roof and walls on the new chlorination station that is currently under construction.

Background Information

The New York City Economic Development Corporation (EDC) is administering the Siphon 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 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

Work During January 2017

- Continuation of preparatory work (drawings, permit applications and other submittals) in support of land piping and chlorination building activities in Staten Island and Brooklyn
- Continuation of activities related to construction of shaft access chambers in Brooklyn and Staten Island
- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment within the building, perimeter fencing, and installation of the irrigation system for the roof
- Community outreach activities, including coordination with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals; preparation and distribution of informational materials (Project Update, etc.); updating of the project web site; and ongoing liaison with residents, businesses, and other interested stakeholders and constituencies

Work Projected for February 2017

- Continuation of preparatory work (drawings, permit applications and other submittals) in support of land piping and chlorination building activities in Staten Island and Brooklyn
- Continuation of activities related to construction of shaft access chambers in Brooklyn and Staten Island

- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment within the building, perimeter fencing, and installation of the irrigation system for the roof
- Continuation of land piping work in Staten Island, including:
 - Installation of 18" sewer at the Staten Island Shaft Site and along Front Street in the vicinity of the Staten Island Shaft Site
 - Installation of 48" sewer outfall on Front Street in the vicinity of the Staten Island Shaft Site [**NOTE:** This work may require **intermittent** closure of Front Street, between Wave and Hannah Streets, to vehicular and pedestrian traffic.]
 - Demolition and abandonment of the venturi chamber on Victory Boulevard in the vicinity of Lyons Pool
- Continuation of land piping work in Brooklyn, including:
 - Demolition and abandonment of two existing venturi chambers on the west side of Shore Road, at 79th and 86th Streets
- Continuation of community outreach program, including coordination and meetings with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals, as needed; preparation and distribution of informational materials (Project Update, Construction Notices, etc.); updating of project web site; and ongoing liaison with residents, businesses and other interested stakeholders and constituencies

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Or visit the project website at: <http://www.nycedc.com/project/replacement-anchorage-channel-water-siphons>. See website for video illustrating the process by which the 110-ton, 300-foot long TBM drilled a distance of nearly two (2) miles, 100 feet beneath New York Harbor.

March 2017 Update

Replacement of the Existing Water Siphons between Brooklyn and Staten Island "Siphon Project"

A number of major milestones were reached in 2016! Principal among these were the abandonment of the two existing siphons, which allowed the Army Corps of Engineers to complete dredging; pressurization, chlorination and activation of the new siphon; and installation of the green "living" roof and walls on the new chlorination station that is currently under construction. Work during the upcoming months will focus on abandonment of the chambers in Staten Island and Brooklyn that were part of the original siphons and completion of the chlorination station this spring.

Background Information

The New York City Economic Development Corporation (EDC) is administering the Siphon 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 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

Work During February 2017

- Continuation of preparatory work (drawings, permit applications and other submittals) in support of land piping and chlorination building activities in Staten Island and Brooklyn
- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment within the building, perimeter fencing, and installation of the irrigation system for the roof
- Community outreach activities, including coordination with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals; preparation and distribution of informational materials (Project Update, etc.); updating of the project web site; and ongoing liaison with residents, businesses, and other interested stakeholders and constituencies

Work Projected for March 2017

- Continuation of preparatory work (drawings, permit applications and other submittals) in support of land piping and chlorination building activities in Staten Island and Brooklyn

- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment within the building, perimeter fencing, installation of the irrigation system for the roof and planning for the communication system between the existing Richmond Chlorination Station and the new Siphon Chlorination Station
- Continuation of land piping work in Staten Island, including:
 - Installation of 18" sewer at the Staten Island Shaft Site and along Front Street in the vicinity of the Staten Island Shaft Site
 - Installation of 48" sewer outfall on Front Street in the vicinity of the Staten Island Shaft Site [**NOTE:** This work may require intermittent closure of Front Street, between Wave and Hannah Streets, to vehicular and pedestrian traffic.]
 - Demolition and abandonment of the venturi chamber on Victory Boulevard in the vicinity of Lyons Pool
- Continuation of land piping work in Brooklyn, including:
 - Demolition and abandonment of two existing venturi chambers on the west side of Shore Road, at 79th and 86th Streets
- Continuation of community outreach program, including coordination and meetings with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals, as needed; preparation and distribution of informational materials (Project Update, Construction Notices, etc.); updating of project web site; and ongoing liaison with residents, businesses and other interested stakeholders and constituencies

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April 2017 Update

Replacement of the Existing Water Siphons between Brooklyn and Staten Island "Siphon Project"

The Siphon Project is nearing completion! Work during the upcoming months will focus on abandonment of the chambers in Staten Island and Brooklyn that were part of the original siphons, completion of the chlorination station and restoration of the Staten Island and Brooklyn shaft sites.

Background Information

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- 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

Work During March 2017

- Continuation of preparatory work (drawings, permit applications and other submittals) in support of land piping and chlorination building activities in Staten Island and Brooklyn
- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment within the building, perimeter fencing, installation of the irrigation system for the roof and planning for and installation of the communication system between the existing Richmond Chlorination Station and the new Siphon Chlorination Station
- Community outreach activities, including coordination with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals; preparation and distribution of informational materials (Project Update, etc.); updating of the project web site; and ongoing liaison with residents, businesses, and other interested stakeholders and constituencies

Work Projected for April 2017

- Continuation of preparatory work (drawings, permit applications and other submittals) in support of land piping and chlorination building activities in Staten Island and Brooklyn
- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment within the building, perimeter fencing, installation of the irrigation system for the roof and testing of equipment

- Continuation of land piping work in Staten Island, including:
 - Installation of 18" sewer at the Staten Island Shaft Site and along Front Street in the vicinity of the Staten Island Shaft Site
 - Installation of 48" sewer outfall on Front Street in the vicinity of the Staten Island Shaft Site [**NOTE:** This work may require intermittent closure of Front Street, between Wave and Hannah Streets, to vehicular and pedestrian traffic.]
 - Demolition and abandonment of the venturi chamber on Victory Boulevard in the vicinity of Lyons Pool
- Continuation of land piping work in Brooklyn, including:
 - Demolition and abandonment of two existing venturi chambers on the west side of Shore Road, at 79th and 86th Streets
- Restoration of Brooklyn and Staten Island Shaft Sites, including restoration of Shore Road Park
- Continuation of community outreach program, including coordination and meetings with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals, as needed; preparation and distribution of informational materials (Project Update, Construction Notices, etc.); updating of project web site; and ongoing liaison with residents, businesses and other interested stakeholders and constituencies

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May 2017 Update

Replacement of the Existing Water Siphons between Brooklyn and Staten Island "Siphon Project"

The Siphon Project is nearing completion! Abandonment of the chambers in Staten Island and Brooklyn that were part of the original siphons was completed last month, and work continues on the chlorination station. Upcoming work will focus on restoration of the Staten Island and Brooklyn shaft sites and remaining land piping work in Staten Island.

Background Information

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Major components of the project include the following:

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- 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

Work During April 2017

- Continuation of preparatory work (drawings, permit applications and other submittals) in support of land piping and chlorination building activities in Staten Island and Brooklyn
- Continuation of work in support of construction of the new chlorination station, including installation of equipment within the existing Richmond Chlorination Station to facilitate communication with the Siphon Chlorination Station
- Continuation of land piping work in Staten Island, including:
 - Demolition and abandonment of the venturi chamber on Victory Boulevard in the vicinity of Lyons Pool
- Continuation of land piping work in Brooklyn, including:
 - Demolition and abandonment of two existing venturi chambers on the west side of Shore Road, at 79th and 86th Streets
- Cleanup of Brooklyn Shaft Site in preparation for restoration of Shore Road Park
- Community outreach activities, including coordination with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals; preparation and distribution of informational materials (Project Update, etc.); updating of the project web site; and ongoing liaison with residents, businesses, and other interested stakeholders and constituencies

Work Projected for May 2017

- Continuation of preparatory work (drawings, permit applications and other submittals) in support of land piping and chlorination building activities in Staten Island and Brooklyn
- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment within the building and testing of equipment
- Continuation of land piping work in Staten Island, including:
 - Installation of sewer drainage within the Staten Island Shaft Site and 18" sewer along Front Street in the vicinity of the Staten Island Shaft Site
 - Installation of 48" sewer outfall on Front Street in the vicinity of the Staten Island Shaft Site [**NOTE:** This work may require **intermittent** closure of Front Street, between Wave and Hannah Streets, to vehicular and pedestrian traffic.]
- Continuation of cleanup of Brooklyn Shaft Site in preparation for restoration of Shore Road Park
- Continuation of community outreach program, including coordination and meetings with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals, as needed; preparation and distribution of informational materials (Project Update, Construction Notices, etc.); updating of project web site; and ongoing liaison with residents, businesses and other interested stakeholders and constituencies

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June 2017 Update

Replacement of the Existing Water Siphons between Brooklyn and Staten Island "Siphon Project"

The Siphon Project is nearing completion! Abandonment of the chambers in Staten Island and Brooklyn that were part of the original siphons was completed last month, and work continues on the chlorination station. Upcoming work will focus on restoration of the Staten Island and Brooklyn shaft sites, along with remaining land piping work in Staten Island.

Background Information

The New York City Economic Development Corporation (EDC) is administering the Siphon 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 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

Work During May 2017

- Continuation of preparatory work (drawings, permit applications and other submittals) in support of land piping and chlorination building activities in Staten Island and Brooklyn
- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment and testing of equipment
- Continuation of land piping work in Staten Island, including:
 - Installation of sewer drainage within the Staten Island Shaft Site and an 18" sewer along Front Street in the vicinity of the Staten Island Shaft Site
- Continuation of cleanup of Brooklyn Shaft Site in preparation for restoration of Shore Road Park
- Initial restoration of Shore Road Park, including installation of formwork for walkway
- Community outreach activities, including coordination with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals; preparation and distribution of informational materials (Project Update, etc.); updating of the project web site; and ongoing liaison with residents, businesses, and other interested stakeholders and constituencies

Work Projected for June 2017

- Continuation of preparatory work (drawings, permit applications and other submittals) in support of land piping and chlorination building activities in Staten Island and Brooklyn

- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment within the building and testing of equipment
- Continuation of land piping work in Staten Island, including:
 - Installation of sewer drainage within the Staten Island Shaft Site
 - Installation of a 48" sewer outfall on Front Street in the vicinity of the Staten Island Shaft Site [**NOTE:** This work may require **intermittent** closure of Front Street, between Wave and Hannah Streets, to vehicular and pedestrian traffic.]
- Continuation of cleanup of Brooklyn Shaft Site in preparation for restoration of Shore Road Park
- Continuation of restoration of Shore Road Park, including installation of walkway and landscaping
- Continuation of community outreach program, including coordination and meetings with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals, as needed; preparation and distribution of informational materials (Project Update, Construction Notices, etc.); updating of project web site; and ongoing liaison with residents, businesses and other interested stakeholders and constituencies

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Grading of Brooklyn Shaft Site in Preparation for Restoration of Shore Road Park



Installation of 18" Sewer along Front Street, vicinity of Richmond Chlorination Station
(top and bottom photos)





Chlorination Station Shows New Growth

July 2017 Update

Replacement of the Existing Water Siphons between Brooklyn and Staten Island "Siphon Project"

The Siphon Project is nearing completion! Abandonment of the chambers in Staten Island and Brooklyn that were part of the original siphons has been completed and work continues on the chlorination station. Current work is focusing on restoration of the Staten Island and Brooklyn shaft sites, along with remaining land piping work in Staten Island.

Background Information

The New York City Economic Development Corporation (EDC) is administering the Siphon 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).

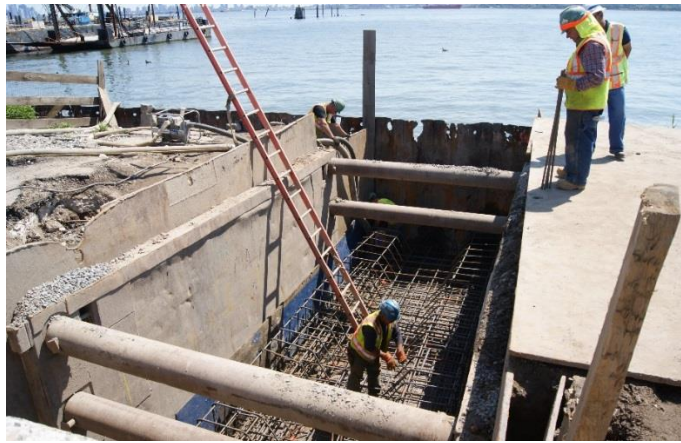
Major components of the project include the following:

- use of a 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

Work During June 2017

- Continuation of preparatory work (drawings, permit applications and other submittals) in support of land piping and chlorination building activities in Staten Island and Brooklyn
- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment
- Continuation of land piping work in Staten Island, including:
 - Installation of sewer drainage within the Staten Island Shaft Site
 - Installation of a 48" sewer outfall on Front Street in the vicinity of the Staten Island Shaft Site (see photos below)





- Continuation of cleanup of Brooklyn Shaft Site in preparation for restoration of Shore Road Park
- Continuation of restoration of Shore Road Park, including installation of walkway and grading
- Community outreach activities, including coordination with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals; preparation and distribution of informational materials (Project Update, etc.); updating of the project web site; and ongoing liaison with residents, businesses, and other interested stakeholders and constituencies

Work Projected for July 2017

- Continuation of preparatory work (drawings, permit applications and other submittals) in support of land piping and chlorination building activities in Staten Island and Brooklyn
- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment, testing of equipment and grading
- Continuation of land piping work in Staten Island, including:
 - Installation of sewer drainage within the Staten Island Shaft Site
 - Installation of a 48" sewer outfall on Front Street in the vicinity of the Staten Island Shaft Site
- Continuation of cleanup of Brooklyn Shaft Site in preparation for restoration of Shore Road Park
- Continuation of restoration of Shore Road Park, including installation of walkway and grading
- Continuation of community outreach program, including coordination and meetings with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals, as needed; preparation and distribution of informational materials (Project Update, Construction Notices, etc.); updating of project web site; and ongoing liaison with residents, businesses and other interested stakeholders and constituencies

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August 2017 Update

Replacement of the Existing Water Siphons between Brooklyn and Staten Island "Siphon Project"

The Siphon Project is nearing completion! Abandonment of the chambers in Staten Island and Brooklyn that were part of the original siphons has been completed and work continues on the chlorination station, with testing of the new facility expected to begin in late summer or early fall. Current work is focusing on restoration of the Staten Island and Brooklyn shaft sites, along with remaining land piping work in Staten Island.

Background Information

The New York City Economic Development Corporation (EDC) is administering the Siphon 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 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

Work During July 2017

- Continuation of preparatory work (drawings, permit applications and other submittals) in support of land piping and chlorination building activities in Staten Island and Brooklyn
- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment, fencing, grading of the site and installation of curbs
- Continuation of land piping work in Staten Island, including:
 - Installation of sewer drainage within the Staten Island Shaft Site
 - Installation of a 48" sewer outfall on Front Street in the vicinity of the Staten Island Shaft Site
- Continuation of cleanup of the Brooklyn Shaft Site in preparation for restoration of Shore Road Park
- Continuation of restoration of Shore Road Park, including installation of walkway and grading
- Community outreach activities, including coordination with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals; preparation and distribution of informational materials (Project Update, etc.); updating of the project web site; and ongoing liaison with residents, businesses, and other interested stakeholders and constituencies

Work Projected for August 2017

- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment, fencing, installation of Con Edison electrical feed, testing of equipment and grading
- Continuation of land piping work in Staten Island, including:
 - Installation of a 48" sewer outfall on Front Street in the vicinity of the Staten Island Shaft Site
- Continuation of cleanup of the Brooklyn Shaft Site in preparation for restoration of Shore Road Park
- Continuation of restoration of Shore Road Park, including installation of walkway and grading
- Restoration of Front Street in the vicinity of the Staten Island Shaft Site
- Continuation of community outreach program, including coordination and meetings with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals, as needed; preparation and distribution of informational materials (Project Update, Construction Notices, etc.); updating of project web site; and ongoing liaison with residents, businesses and other interested stakeholders and constituencies

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September 2017 Update

Replacement of the Existing Water Siphons between Brooklyn and Staten Island "Siphon Project"

The Siphon Project is nearing completion! Abandonment of the chambers in Staten Island and Brooklyn that were part of the original siphons has been completed and work continues on the chlorination station, with testing of the new facility expected to begin in early fall. Current work is focusing on restoration of the Staten Island and Brooklyn shaft sites, along with remaining land piping work in Staten Island and completion of the chlorination station.

Background Information

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Major components of the project include the following:

- use of a 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

Work During August 2017

- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment, fencing, grading of the site and installation of curbs
- Community outreach activities, including coordination with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals; preparation and distribution of informational materials (Project Update, etc.); updating of the project web site; and ongoing liaison with residents, businesses, and other interested stakeholders and constituencies

Work Projected for September 2017

- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment, fencing, installation of Con Edison electrical feed, testing of equipment, grading and landscaping
- Continuation of land piping work in Staten Island, including:
 - Completion of installation of a 48" sewer outfall on Front Street in the vicinity of the Staten Island Shaft Site
- Restoration of Front Street in the vicinity of the Staten Island Shaft Site

- Miscellaneous work on the water distribution system in the vicinity of new land piping in Brooklyn and Staten Island (including chambers, manholes and hydrants)
- Continuation of cleanup of the Brooklyn Shaft Site in preparation for restoration of Shore Road Park
- Continuation of restoration of Shore Road Park, including grading, installation of walkway, replacement of lighting and landscaping
- Continuation of community outreach program, including coordination and meetings with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals, as needed; preparation and distribution of informational materials (Project Update, Construction Notices, etc.); updating of project web site; 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:

Anita Wright, Community Liaison
Helen Neuhaus & Associates Inc.
355 Front Street
Staten Island, NY 10304
(646) 823-6588 [cell phone]

Or visit the project website at: <http://www.nycedc.com/project/replacement-anchorage-channel-water-siphons>. See website for video illustrating the process by which the 110-ton, 300-foot long TBM drilled a distance of nearly two (2) miles, 100 feet beneath New York Harbor.

October 2017 Update

Replacement of the Existing Water Siphons between Brooklyn and Staten Island "Siphon Project"

The majority of work on the Siphon Project is expected to approach completion by the end of the year. The chambers in Staten Island and Brooklyn that were part of the original siphons have been abandoned as planned, and work continues on the chlorination station, with testing of the new facility expected to begin in early fall. Current work is focusing on restoration of the Staten Island and Brooklyn shaft sites, along with remaining land piping work in both boroughs and completion of the chlorination station.

Background Information

The New York City Economic Development Corporation (EDC) is administering the Siphon 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 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

Work During September 2017

- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment, fencing, grading of the site and installation of curbs
- Miscellaneous work on the water distribution system in the vicinity of new land piping in Staten Island (including chambers, manholes and hydrants)
- Continuation of cleanup at the Brooklyn Shaft Site
- Continuation of restoration of Shore Road Park, including grading and installation of walkway and benches
- Community outreach activities, including coordination with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals; preparation and distribution of informational materials (Project Update, Construction Notices, etc.); updating of the project web site; and ongoing liaison with residents, businesses, and other interested stakeholders and constituencies

Work Projected for October 2017

- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment, waterproofing, fencing, installation of Con Edison electrical feed, testing of equipment, grading and landscaping
- Continuation of land piping work in Staten Island, including:
 - Completion of installation of a 48" sewer outfall on Front Street in the vicinity of the Staten Island Shaft Site
- Restoration of Front Street in the vicinity of the Staten Island Shaft Site, including installation of curbs, sidewalks and permanent pavement
- Preparatory work for the Staten Island Half Marathon on Front Street adjacent to the project site, including temporary resurfacing of the pavement and filling of potholes
- Miscellaneous work on the water distribution system in the vicinity of new land piping in Brooklyn and Staten Island (including chambers, manholes and hydrants)
- Continuation of cleanup at the Brooklyn Shaft Site
- Continuation of restoration of Shore Road Park, including grading, installation of walkway and benches, replacement of lighting and landscaping
- Continuation of community outreach program, including coordination and meetings with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals, as needed; preparation and distribution of informational materials (Project Update, Construction Notices, etc.); updating of project web site; and ongoing liaison with residents, businesses and other interested stakeholders and constituencies

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November 2017 Update

Replacement of the Existing Water Siphons between Brooklyn and Staten Island "Siphon Project"

The majority of work on the Siphon Project is expected to approach completion by the end of the year. The chambers in Staten Island and Brooklyn that were part of the original siphons have been abandoned as planned, and work continues on the chlorination station, with testing of the new facility expected to begin this fall. Current work is focusing on restoration of the Staten Island and Brooklyn shaft sites, along with remaining land piping work in both boroughs and completion of the chlorination station.

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- 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

Work During October 2017

- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment, waterproofing, fencing, preparation for installation of Con Edison electrical feed, grading of the site and installation of curbs
- Miscellaneous work on the water distribution system in the vicinity of new land piping in Staten Island (including chambers, manholes and hydrants)
- Continuation of cleanup at the Brooklyn Shaft Site
- Continuation of restoration of Shore Road Park, including grading and installation of walkway and benches
- Community outreach activities, including coordination with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals; preparation and distribution of informational materials (Project Update, Construction Notices, etc.); updating of the project web site; and ongoing liaison with residents, businesses, and other interested stakeholders and constituencies

Work Projected for November 2017

- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment, waterproofing, fencing, installation of Con Edison electrical feed, testing of equipment, grading and landscaping
- Continuation of land piping work in Staten Island, including:
 - Completion of installation of a 48" sewer outfall on Front Street in the vicinity of the Staten Island Shaft Site
- Restoration of Front Street in the vicinity of the Staten Island Shaft Site, including installation of curbs, sidewalks and permanent pavement
- Miscellaneous work on the water distribution system in the vicinity of new land piping in Brooklyn and Staten Island (including chambers, manholes and hydrants)
- Continuation of cleanup at the Brooklyn Shaft Site
- Continuation of restoration of Shore Road Park, including grading, installation of walkway and benches, replacement of lighting and landscaping
- Continuation of community outreach program, including coordination and meetings with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals, as needed; preparation and distribution of informational materials (Project Update, Construction Notices, etc.); updating of project web site; and ongoing liaison with residents, businesses and other interested stakeholders and constituencies

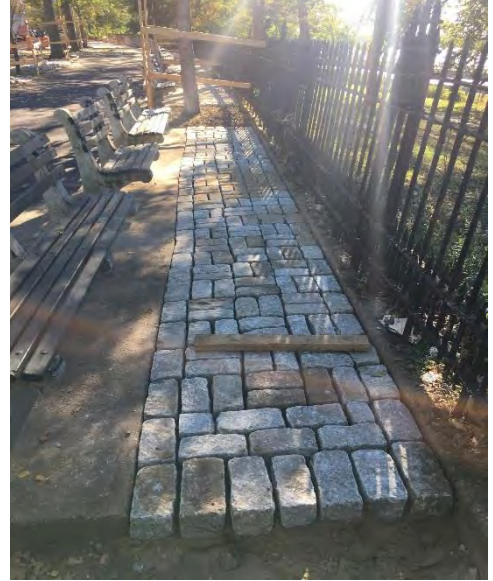
For additional information concerning these activities or other aspects of the Siphon construction project, please contact:

Anita Wright, Community Liaison
Helen Neuhaus & Associates Inc.
355 Front Street
Staten Island, NY 10304
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Installation of hexagon pavers along Shore Road,
between 83rd and 86th Streets



Section of newly installed pavers
along Shore Road



Newly Restored Walking Paths
in Shore Road Park



Installation of new Park Benches and Concrete
Strip along Shore Road, adjacent to
Shore Road Park

December 2017 Update

Replacement of the Existing Water Siphons between Brooklyn and Staten Island "Siphon Project"

The majority of work on the Siphon Project is expected to approach completion by the end of the year. The chambers in Staten Island and Brooklyn that were part of the original siphons have been abandoned as planned, and work continues on the chlorination station, with testing of the new facility anticipated to begin in December. Current work is focusing on restoration of the Staten Island and Brooklyn shaft sites; remaining land piping work in both boroughs; completion of the chlorination station; and restoration of Front Street.

Background Information

The New York City Economic Development Corporation (EDC) is administering the Siphon 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:

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- 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

Work During November 2017

- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment, fencing, preparation for and installation of Con Edison electrical feed, installation of curbs and grading of the site
- Miscellaneous work on the water distribution system in the vicinity of new land piping in Staten Island and Brooklyn (including chambers, manholes and hydrants)
- Continuation of cleanup at the Brooklyn Shaft Site
- Continuation of restoration of Shore Road Park, including grading and installation of walkway and benches
- Restoration of Front Street in the vicinity of the Staten Island Shaft Site, including installation of curbs, sidewalks and permanent pavement
- Restoration of intersection of lower Victory Boulevard and Murray Hulbert Avenue
- Community outreach activities, including coordination with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other

groups and individuals; preparation and distribution of informational materials (Project Update, Construction Notices, etc.); updating of the project web site; and ongoing liaison with residents, businesses, and other interested stakeholders and constituencies

Work Projected for December 2017

- Continuation of work in support of construction of the new chlorination station, including installation of piping and equipment, waterproofing, fencing, installation of Con Edison electrical feed, testing of equipment, grading and landscaping
- Continuation of land piping work in Staten Island, including:
 - Completion of installation of a 48" sewer outfall on Front Street in the vicinity of the Staten Island Shaft Site
- Miscellaneous work on the water distribution system in the vicinity of new land piping in Brooklyn and Staten Island (including chambers, manholes and hydrants)
- Continuation of cleanup at the Brooklyn Shaft Site
- Continuation of restoration of Shore Road Park, including grading, installation of fencing, replacement of lighting and landscaping
- Continuation of restoration of Front Street in the vicinity of the Staten Island Shaft Site and at the intersection of lower Victory Boulevard and Murray Hulbert Avenue, including installation of permanent pavement
- Continuation of community outreach program, including coordination and meetings with Staten Island Community Board #1, Brooklyn Community Board #10, representatives of Fort Hamilton High School, and other groups and individuals, as needed; preparation and distribution of informational materials (Project Update, Construction Notices, etc.); updating of project web site; 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:

Marvis Belfon, Community Liaison
Helen Neuhaus & Associates Inc.
355 Front Street
Staten Island, NY 10304
(212) 532-4175

Or visit the project website at: <http://www.nycedc.com/project/replacement-anchorage-channel-water-siphons>. See website for video illustrating the process by which the 110-ton, 300-foot long TBM drilled a distance of nearly two (2) miles, 100 feet beneath New York Harbor.



Start of Permanent Restoration of Front Street
(looking north towards Hannah Street)



Chlorination Station nears Completion
(with newly installed fencing, curbs and driveway)