



FACT SHEET

Manufactured Gas Plant Program

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Clifton Former Manufactured Gas Plant Site
Site #2-43-023
25 and 40 Willow Avenue
Staten Island, NY 10305

November 2011

Construction Begins January 2012 for Remediation of OU-2 (25 Willow Avenue) Parcel of former Manufactured Gas Plant

The public is invited to a Public Availability Session at which the Construction Plan for the remediation of the Operable Unit 2 (OU-2) Parcel of the former Clifton Manufactured Gas Plant (MGP) Site approved by the New York State Department of Environmental Conservation (NYSDEC) will be presented and discussed. The parcel (“Site”) is located at 40 Willow Avenue at its intersection with Bay Street. See map on the insert for site location. National Grid, the site owner, is responsible for remediating the site to a level that is protective of public health and the environment. The remediation is being performed with the oversight of the NYSDEC and the New York State Department of Health (NYSDOH).

**Public Availability Session
December 6, 2011
7-9 p.m.**

**M.L. Lindenmeyer School
191 Vermont Avenue
Staten Island, NY 10305**

NYSDEC invites you to a public availability session at which representatives of the NYSDEC, NYSDOH, National Grid and its contractor will present and discuss the construction plan approved by the NYSDEC for the remediation of this Site. You are encouraged to provide comments at the session.

Summary and Background:

This parcel was the main operating area of the MGP, which began operations around 1857. The Record of Decision calls for demolition of the existing on-site building, excavation of contaminated soil to a depth of about 10 feet or more in some locations, removal of former MGP-related structures which contain MGP tar contamination, installation of subsurface containment walls and installation of tar recovery wells. Following excavation, the Site will be restored to its current elevation using clean soils from off-site sources. Institutional controls will prevent future exposures to residual contamination and restrict the future use of the Site to commercial purposes.

About the NYSDEC's Manufactured Gas Plant Program:

NYSDEC has one of the most aggressive Manufactured Gas Plant (MGP) site investigation and remediation programs in the country. Since the problems associated with the former MGP sites were identified, NYSDEC has been working with all the utilities on a state-wide basis to identify and address the issue of MGP sites for which they may have responsibility. This effort has resulted in approximately 235 sites identified for action by the eight utilities operating in New York State.

Currently NYSDEC has multi-site orders or agreements with six utilities, including National Grid, and several other individual site volunteers, to address 222 MGP sites in New York. Multi-site agreements are under negotiation with a seventh utility and several other responsible parties which have newly-identified sites.

NYSDEC continues to seek to identify any other possible MGP sites throughout the State.

For more information about the NYSDEC's MGP program, visit:
www.dec.ny.gov/chemical/8430.html

Summary of the Construction Activities

Building Demolition:

Demolition of the existing building on the parcel will be the first activity, after abatement by specialized contractors of asbestos, lead and any other potentially harmful materials remaining in the building. The building will be knocked down in phases and the debris removed on covered trucks.

Excavation:

Excavation of contaminated soils and other subsurface materials will be conducted under a Temporary Movable Fabric Enclosure. This tent like structure, which National Grid has used successfully at other former MGP sites, is used to capture vapors from excavation activities and filter the vapors through a vapor management system. The enclosure will be moved from place to place during the excavation phase, moving to its new position after the previously excavated area is covered with clean fill.

A dewatering facility will be operated to remove and process groundwater in the soil that will

have to be removed before the soil can be lifted onto trucks. The treated water will be discharged through a pipe to the sanitary sewer on Bay Street, and will meet regulatory standards for discharge to this system. National Grid successfully operated a similar facility at an MGP site on Long Island Sound. A storm sewer that runs through the parcel will be removed from service to facilitate the excavation and storm water will be rerouted around the Site through temporary piping and pumps. Near the completion of the restoration efforts at the Site, a new and improved sewer will be installed on the property to manage storm water and surface drainage.

Trucks removing excavated soils and subsurface materials (including remnants of former MGP structures) will be loaded under the tent, then covered and cleaned before leaving the Site. It is expected that approximately 60,000 cubic yards of material will be removed from the Site, equivalent to approximately 3,000 truckloads. Trucks leaving the Site will follow a Department of Transportation (DOT) approved route to an out-of-state approved disposal and treatment facility. A similar number of truckloads carrying clean fill will be returned to the Site, also following a DOT-approved route. National Grid has used trucks to remove large amounts of contaminated soil, liquid and debris from this Site during the OU-1 remediation and from other former MGP sites in urban areas without incident. A traffic management plan has been developed with specific routing and specific requirements for driver training, truck covering, decontamination, and routing.

Slurry Wall:

Approximately 600 linear feet of slurry wall will be installed along the southern and eastern perimeter of the parcel to prevent the migration of contaminated groundwater from the Site. The walls will be installed to a depth of approximately 44 feet. A temporary facility will be built on the Site to produce the slurry mix. In addition to the slurry walls, National Grid will also install recovery wells to extract Non Aqueous Phase Liquid (NAPL – primarily coal tar) which exist on-site at levels below the excavation depth.

Surface Cap:

Once these activities are implemented, the remedial construction will be completed with the placement of an engineered cap across the entire parcel. The cap will consist of an impermeable geotechnical fabric over the fill, covered with two feet of clean topsoil.

Supervision, Safety and Long-Term Management:

All of the construction activities will be conducted under the supervision of the NYSDEC and New York State Department of Health (NYSDOH), which have approved plans developed by National Grid and its consultants to control noise, vibration, odors, the emission of harmful materials and to assure worker and community safety. A Community Air Monitoring Plan will be in place throughout the project requiring noise and vibration monitoring, with conservative action levels that cause work to be stopped if specified levels are exceeded. As previously noted, a Traffic Management Plan will specify egress and entrance to the Site, transportation routes, driver training, truck safety and load management requirements.

In addition to remedial construction, National Grid will develop a long-term Site Management Plan to ensure the integrity of the remediation; implement a long-term Operations, Maintenance and Monitoring Plan to maintain the remedial systems; and develop Institutional Controls to limit the future use of the parcel to operations and activities that will not adversely impact any element of the remedy and reflect the remaining conditions on the Site. These controls will include limiting future use to commercial purposes.

Completed Remediation Activities at Operable Unit 1 (40 Willow Avenue):

A remediation of Operable Unit 1 (OU-1) of the former MGP Site was substantially completed in 2010. OU-1 was the Site of the main gas holder and associated facilities. Major remedial activities included the removal of contaminated soils, installation of a concrete barrier to a depth of over 120 feet and the installation of a concrete cap over the former holder area. Pilot testing of wells to extract remaining liquid contaminants is continuing. Previously, a remediation of lead in the surface soils of private properties adjoining the parcel was completed.

FOR MORE INFORMATION

Where to Find Information

Project documents are available at the following locations to help the public to stay informed. These documents include the proposed cleanup plan for the Site, called the “Proposed Remedial Action Plan”, and the Remedial Investigation and Feasibility Study reports.

Staten Island Community Board # 1 One Edgewater Plaza Room 217 Staten Island, NY 10305 Phone #: (718) 981-6900 Hours of Operations: By appointment	NYSDEC Region 2 1 Hunters Point Plaza 47-40 21 st Street Long Island City, NY 11101-5407 Phone #: (718) 482-4995 Hours of Operations: 9 a.m. – 4 p.m.
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In addition, National Grid maintains a website for this project at www.cliftonmgpsite.com on which all of the major reports on this Site are available for reading or download.

Who to Contact

Comments and questions are always welcome and should be directed as follows:

Project Related Questions

Richard Dana, Project Manager
NYSDEC
625 Broadway, 11th Floor
Albany, NY 12233-7014
Phone: 1-866-520-2334
Email: rhdana@gw.dec.state.ny.us

Site-Related Health Questions

Stephanie Selmer, Project Manager
NYSDOH
547 River St., Room 300
Troy, NY 12180-2216
Phone: (518) 402-7860
Email: slh09@health.state.ny.us

National Grid has a Hotline (718-982-7349) for neighbors with news updates and an opportunity to ask questions or leave comments.

If you know someone who would like to be added to the site contact list, have them contact the NYSDEC project manager listed above. We encourage you to share this Fact Sheet with neighbors and tenants, and/or post this Fact Sheet in a prominent area of your building for others to see.

Receive Site Fact Sheets by Email

Have site information such as this Fact Sheet sent right to your email inbox.

NYSDEC invites you to sign up with one or more contaminated sites. County email listservs are available at the following web page: www.dec.ny.gov/chemical/61092.html. It's *quick*, it's *free*, and it will help keep you *better informed*. As a listserv member, you will periodically receive site-related information/announcements for all contaminated sites in the county(ies) you select.

You may continue also to receive paper copies of site information for a time after you sign up with a county listserv, until the transition to electronic distribution is complete.

Site Figure

