

Fact Sheet: Bethpage Community Park Soil Remedy for Volatile Organic Compounds (VOCs)

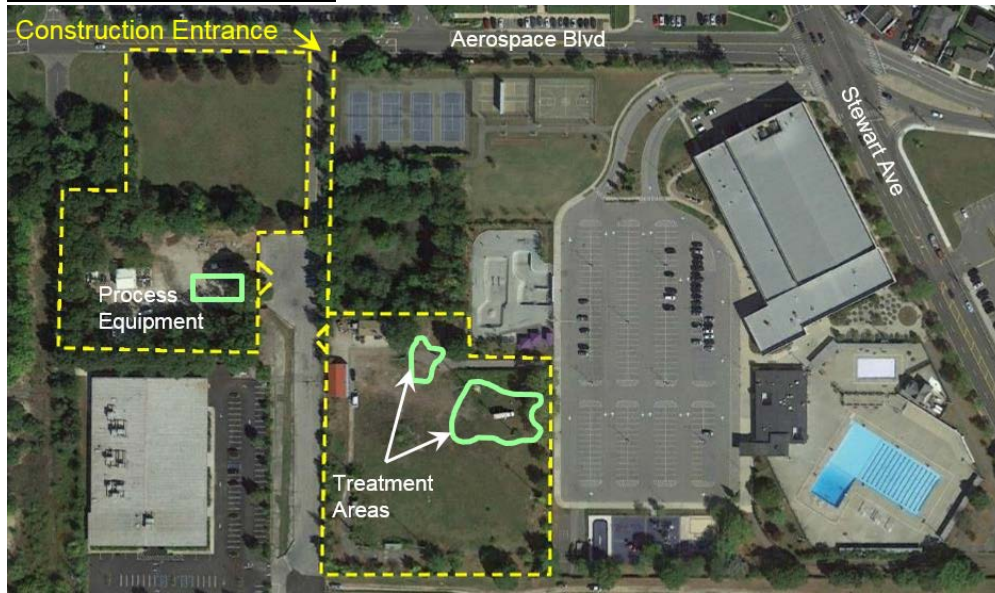
March 2019

Bethpage, New York

As part of Northrop Grumman’s ongoing efforts to provide clear communication about its environmental activities, this fact sheet provides information about work we are doing in your community.

This work involves construction and implementation of a thermal remedy to treat VOCs in soil below the surface located in specific areas of the ballfield within the Bethpage Community Park. The New York State Department of Environmental Conservation (NYSDEC) and the Town of Oyster Bay have given their written approvals for this work, which will be conducted in compliance with the approved remedial work plan, health and safety plan, and site access agreement. Northrop Grumman conducted a community meeting on September 20, 2018, to inform residents and officials of the work.

Where the work is located:

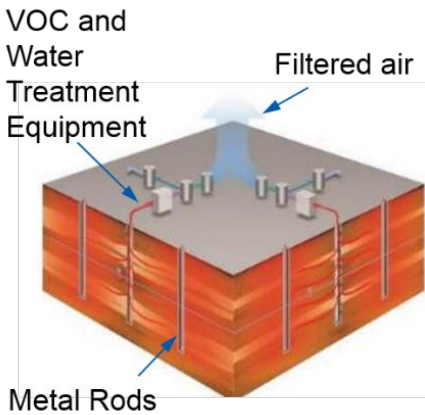


What is occurring:

Over the next 18 months, we will take approximately four months to drill the treatment points within the treatment areas shown in the above figure (green lines) and approximately two months to install the process equipment. We will then thermally treat the soil for six months and will take the next six months to confirm completion of treatment and remove the system. Northrop Grumman’s contractors mobilized some treatment system equipment during the week of February 11, 2019 to begin the work.

What is the system designed to do?

The thermal remedy was designed using proven treatment methods that are safe for local residents and the least disruptive to the community and to use of the Park. Metal rods will be inserted into the ground throughout the treatment area in the ball field. The rods warm the soil approximately 35 to 60 feet below the surface. There is no heat felt at or above ground. The system vaporizes both VOCs and water in the soil. A continuous vacuum suction process captures the VOC vapor and water vapor and brings



them to the surface where treatment equipment removes the VOCs. The filtered air is then released as noted in the light blue arrow on the illustration.

Work hours:

7 a.m. to 4 p.m., Monday through Friday and potentially Saturday, with Town approval (except Town holidays).

What can I expect to see at the work site?

Construction and treatment equipment will include drill rigs and support vehicles, thermal well piping, processing equipment, and sound proofing equipment.

Our Safety and Security Plan:

- Experienced, specially trained, qualified personnel will conduct the work in accordance with a Health and Safety Plan that meets or exceeds requirements of the Occupational Safety and Health Administration (OSHA).
- Air quality will be monitored continuously during drilling and other remedial activities to ensure that it remains within acceptable guidelines in accordance with the NYSDEC-approved Community Air Monitoring Plan.
- Material and debris created from drilling and other construction activities will be put into containers and properly handled and disposed of off-site.

Upon Completion of Work:

Samples will be collected to confirm that the approved soil cleanup objective for the site has been met. The samples will be sent to a New York State Department of Health (NYSDOH) accredited laboratory for analysis. All sampling results will be furnished to NYSDEC and the NYSDOH for their evaluation. Following confirmation from NYSDEC that the soil cleanup objectives have been met, Northrop Grumman will dismantle the treatment equipment and grade the surface of the soil.

Questions?

For additional information, please contact Dianne Baumert-Moyik at Northrop Grumman, (516) 754-2645 or via email at dianne.baumert-moyik@ngc.com.

Our government partners in the project are:

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Northrop Grumman continues to work closely with the Navy and federal, state, and local government regulatory authorities, as we have done for more than 20 years, to address environmental conditions in the Bethpage area, through implementation of scientifically-sound and technically-proven remedial measures.