NEW YORK STATE | Department of Environmental Conservation

May 2016

FACT SHEET

Brownfield Cleanup Program

Receive Site Fact Sheets by *Email.* See "For More Information" to Learn How.

Site Name: Former Materials Research Corporation
DEC Site #: C344070
Address: 542 Route 303
Orangeburg, NY 10962

Have questions? See "Who to Contact" Below

Remedy Proposed for Brownfield Site Contamination; Public Comment Period Announced

The public is invited to comment on a proposed remedy being reviewed by the New York State Department of Environmental Conservation (NYSDEC) to address contamination related to the Former Materials Research Corporation site ("site") located at 542 Route 303 Orangeburg, NY 10962 in Orangeburg, Rockland County. Please see the map for the site location. Documents related to the cleanup of this site can be found at the location(s) identified below under "Where to Find Information."

The cleanup activities will be performed and funded by Sony Electronics, Inc., the Brownfield Cleanup Program (BCP) applicant, with oversight provided by NYSDEC. When NYSDEC is satisfied that cleanup requirements have been achieved, the applicant may be eligible for tax credits to offset the costs of performing cleanup activities and for redevelopment of the site.

Based on the findings of the investigation, NYSDEC, in consultation with the New York State Department of Health (NYSDOH) has determined that the site poses a significant threat due to elevated concentrations of contaminants in groundwater, soil and soil vapor.

Additional site details, including environmental and health assessment summaries, are available on NYSDEC's website at:
http://www.dec.ny.gov/cfmx/extapps/derexternal/haz/details.cfm?pageid=3&progno=C344070

How to Comment
NYSDEC is accepting written comments about the proposed cleanup plan for 75 days, from **May 27, 2016** through **August 12, 2016**. The draft Remedial Action Work Plan (RAWP) containing the proposed site remedy is available for public review at the location(s) identified below under "Where to Find Information." Please submit comments to the NYSDEC project manager listed under Project Related Questions in the "Who to Contact" area below.

Proposed Remedy
The contaminants of concern at the site can migrate in the groundwater and soil vapor, creating the potential for human exposure. The remedy will be designed to:

- Address sources of the contamination;
- Remove or destroy contamination in soil, soil vapor and groundwater;

- Prevent migration of the contamination from the site;
- Render the site protective for the current and anticipated use of the site; and
- Address contamination linked to this site that may have migrated from the site property.

The proposed remedy consists of:

- Installation of a sub-slab depressurization system (SSDS) to remove volatile organic chemical (VOC) vapors that may remain beneath the onsite building. The SSDS will also prevent the vapors from entering the onsite building. The existing SSDS is anticipated to satisfy this remedial element.

- Treatment of groundwater through the use of in-situ chemical oxidation (ISCO) to remediate VOC contamination.

- A soil cover to allow for restricted commercial use of the site. The cover will be a combination of structures, such as the building, pavement, and sidewalks that currently exist at the site and the soil of the existing landscaped areas. The upper one foot of any exposed surface soil will meet the applicable soil cleanup objectives (SCOs). The upper six inches of soil will be capable of supporting vegetation.

- Development of a Site Management Plan (SMP) to document tasks required to manage and monitor the site subsequent to implementation of the ISCO and SSDS. The SMP is intended to provide a detailed description of the procedures required to manage any residual contamination left in place at the Site following completion of the Remedial Action and to operate, monitor and maintain any remedial components. Part of the site management will be to monitor groundwater to evaluate the effectiveness of the ISCO technology.

- Placement of an Environmental Easement on the property that will allow the use and development of the site for commercial uses subject to local zoning laws and restrict the use of groundwater as a source of potable or process water.

Next Steps
NYSDEC will consider public comments received on the proposed remedy presented in the draft RAWP and ultimately issue a final Decision Document. The NYSDOH must also concur with the remedy. The final RAWP (with revisions, if necessary) and the Decision Document will be made available to the public. The applicant(s) may then design and perform the cleanup action to address the site contamination, with oversight by NYSDEC and NYSDOH.

NYSDEC will keep the public informed throughout the cleanup of the site.

Summary of the Investigation
A number of environmental investigations have been completed at this site since 1997. The investigations have identified contamination in the soil, groundwater and soil vapor at concentrations exceeding standards, criteria and guidance values. The contaminants of concern include various chlorinated solvents such as tetrachloroethene (also known as perchlorethylene) (PCE), trichloroethene (TCE), trichloroethane (TCA) and carbon tetrachloride and their breakdown products.

Background
The Former Materials Research Corporation (MRC) site has been used since 1961 to form metal targets used in the manufacture of chips for electronics. The process involved the use of solvents as noted above.

The 2.7 acre site is generally flat and includes one large building which is surrounded by paved parking areas and landscaped areas. It is located in a suburban area and is bounded by Route 303 and residential properties to the east, Glenshaw Street and commercial or industrial properties to the south, and commercial or industrial properties to the west and north. The site is currently zoned LO (Laboratory Office).

Groundwater is found approximately 5 to 17 feet below the ground surface. Two homes with private wells in the direction of groundwater flow from this site are serviced by point-of-entry-treatment systems. Other homes have been connected to the public water supply due to contaminants found in the groundwater in this area.

Brownfield Cleanup Program: New York's Brownfield Cleanup Program (BCP) encourages the voluntary cleanup of contaminated properties known as "brownfields" so that they can be reused and redeveloped. These uses include recreation, housing, business or other uses.

A brownfield is any real property that is difficult to reuse or redevelop because of the presence or potential presence of contamination.

For more information about the BCP, visit: http://www.dec.ny.gov/chemical/8450.html

FOR MORE INFORMATION

Where to Find Information
Project documents are available at the following location(s) to help the public stay informed.

Orangeburg Library
20 South Greenbush Road
Orangeburg, NY 10962-2204
phone: 845-359-2244
(org@rcls.org)

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

Project Related Questions
Kevin Carpenter. P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7014
518-402-9799
kevin.carpenter@dec.ny.gov

Site-Related Health Questions
Steven Karpinski
New York State Department of Health
ESP Corning Tower, Rm 1787
Albany, NY 12237
(518) 402-7860
beei@health.ny.gov

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.

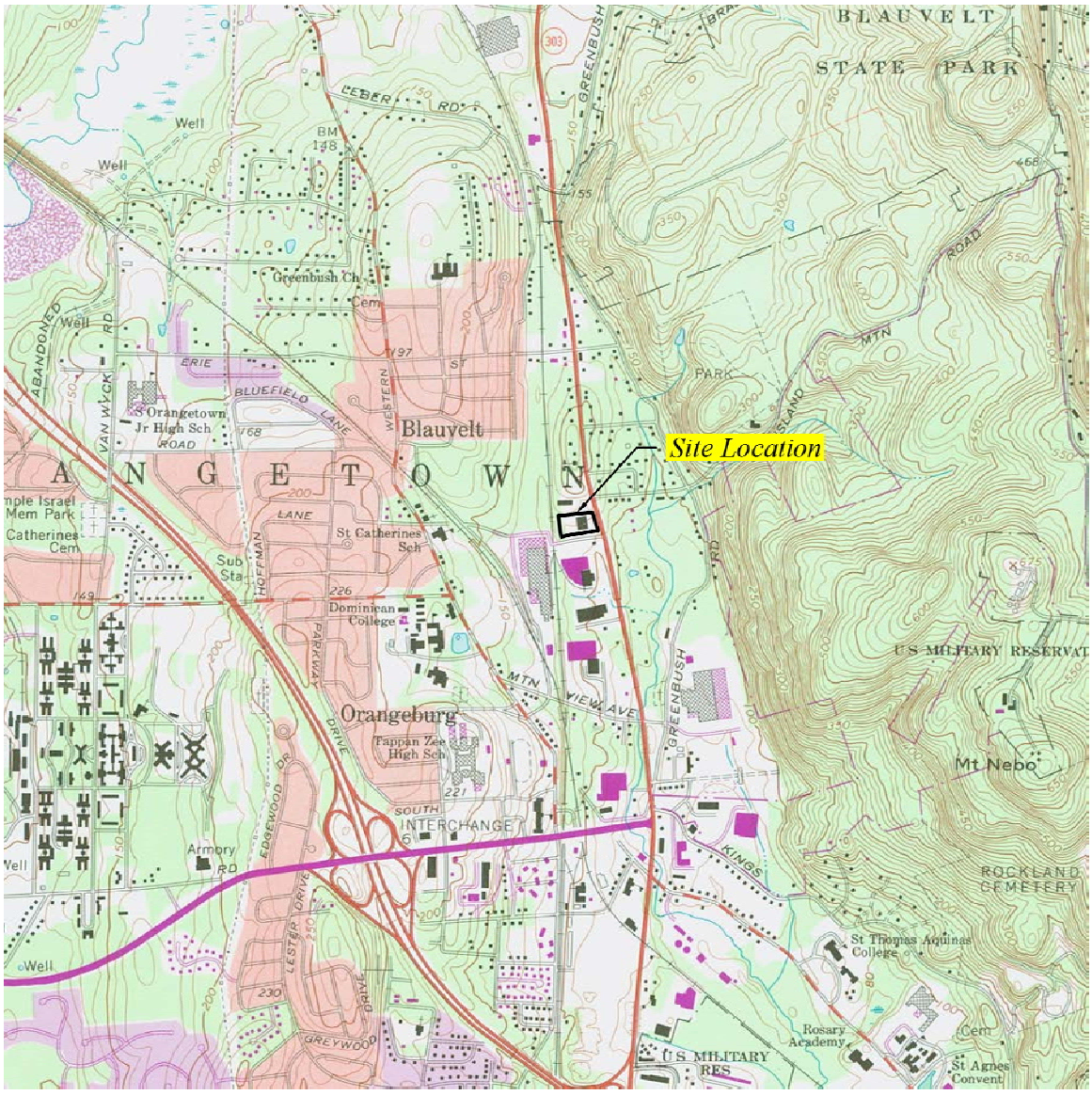
Receive Site Fact Sheets by Email

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 available at the following web page: http://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.

Note: Please disregard if you already have signed up and received this fact sheet electronically.



SOURCE: USGS TOPOGRAPHIC QUADRANGLE NYACK, NEW YORK (PHOTOREVISED 1979).

QUADRANGLE LOCATION

0 2000

SCALE IN FEET

FORMER MATERIALS RESEARCH CORPORATION
542 ROUTE 303
ORANGETOWN, NEW YORK

SITE MAP

DATE	REVISED

PREPARED BY:

LBG ENGINEERING SERVICES, P.C.
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4 Research Drive
Suite 204
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DRAWN:	RAC	CHECKED:	KD	DATE:	05/21/15	FIGURE:	1

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