



FACT SHEET

Brownfield Cleanup Program

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Garlock Sealing Technologies, LLC
Site No. 3 - BCP Site # C859028
Palmyra, NY

December 2011

Cleanup Action Completed at Brownfield Site; Final Engineering Report Under Review

Action has been completed to address contamination related to Garlock Sealing Technologies Site No. 3 Brownfield Cleanup Program (BCP) Site ("site") located at 1666 Division Street in the Town of Palmyra, Wayne County, New York under New York's Brownfield Cleanup Program. See map for site location.

Garlock Sealing Technologies, LLC ("applicant") has completed the activities and has submitted to the New York State Departments of Environmental Conservation (NYSDEC) and Health (NYSDOH) a Final Engineering Report, which is under review. The Final Engineering Report states that cleanup requirements will be achieved to fully protect public health and the environment for the proposed site use.

Highlights of the Final Engineering Report

The Final Engineering Report has several goals:

- 1) describe the cleanup activities completed;
- 2) certify that cleanup requirements will be achieved for the site;
- 3) describe any institutional/engineering controls to be used. An *institutional control* is a non-physical restriction on use of the site, such as an environmental easement. An *engineering control* is a physical barrier or method to manage contamination such as a cap or vapor barrier; and
- 4) certify that a site management plan for any engineering controls used at the site has been approved by NYSDEC and NYSDOH.

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:
www.dec.ny.gov/chemical/8450.html

The cleanup for the site was performed by Garlock Sealing Technologies, LLC to address groundwater contaminated with volatile organic compounds and potential soil vapor intrusion issues. The cleanup included the injection of a chemical solution into the

subsurface in AOC-1 and AOC-2 (see attached map), the excavation of soils in AOC-3 and AOC-4, the injection of a chemical slurry and bacterial culture into the subsurface in AOC-5, the injection of a chemical slurry into the subsurface in the Carbon Tetrachloride Area, the excavation of soils in the Toluene Area, and the installation of a sub-slab depressurization system (SSDS) in Buildings 8, 14, 15, 17, 17A, 20, 25, and 31 (see attached map). The cleanup activities allow for industrial use of the site. The cleanup activities were completed in December 2008, and between June and December 2011.

A Site Management Plan (SMP) has been developed for the site that identifies the ongoing monitoring and maintenance activities related to site groundwater and the SSDS. The SMP will be amended in the future to include any changes made to the site. The site also has an Environmental Easement recorded with the Wayne County Clerk's Office, which prevents the use of site groundwater and limits the use of the site to industrial uses.

NYSDEC and NYSDOH provided guidance and oversight during remedial activities.

The Final Engineering Report and Site Management Plan have been completed and submitted to NYSDEC and NYSDOH.

Next Steps

NYSDEC and NYSDOH will complete their review, revise the Final Engineering Report as necessary, and approve the report. The approved Final Engineering Report will be made available to the public (see "Where to Find Information" below). NYSDEC then will issue a Certificate of Completion to the applicant.

The applicant would be eligible to redevelop the site when it receives the Certificate of Completion. In addition, the applicant:

- would have no liability to the State for contamination at or coming from the site, subject to certain conditions; and
- would be eligible for tax credits to offset the costs of performing clean-up activities and for redevelopment of the site.

A Certificate of Completion may be modified or revoked if, for example, the applicant does not comply with the terms of its Brownfield Cleanup Agreement with NYSDEC, or if the applicant commits fraud regarding its application or its certification that it has met cleanup levels.

A fact sheet will be sent to the site contact list when NYSDEC issues a Certificate of Completion to the applicant.

Background

NYSDEC previously accepted an application from the applicant to participate in the Brownfield Cleanup Program. The application proposes that the site will be used for industrial purposes.

Garlock currently owns approximately 140-acres of land located north of the Village of Palmyra,

including approximately 40-acres of land that are utilized for Garlock Sealing Technologies manufacturing operations. The Site No. 3 BCP site comprises approximately 28-acres of this 40-acre manufacturing complex. A Remedial Investigation conducted at the Site No. 3 BCP site indicated the following:

1. Soil samples in an area east of Building 25 contained zinc above Industrial Soil Cleanup Objectives. Zinc was previously used on-site in a metal plating operation. This area is being addressed through institutional and engineering controls.
2. There are five areas of groundwater contamination located in the northern, eastern, and central interior portions of the site. Contamination is present in shallow groundwater in each area. The principal contaminants are chlorinated volatile organic compounds, including trichloroethene (TCE) and its degradation byproducts. TCE is an industrial solvent commonly used for cleaning metal parts. Dissolved TCE in groundwater is degrading, especially on the eastern portion of the site where lower concentrations of volatile organic compounds are observed. These areas were addressed by injecting chemicals that breakdown the contaminants. Dissolved TCE in groundwater is also naturally degrading, especially on the eastern portion of the site where lower concentrations of volatile organic compounds are observed.
3. Several off-site sediment samples (from Red Creek) contained elevated concentrations of polychlorinated biphenyls (PCBs). PCBs are industrial chemicals with many uses including use in electrical transformers. Vinyl chloride, a degradation byproduct of TCE, was also detected in sediment samples; however, groundwater contamination likely contributes to the vinyl chloride detected in the sediments.
4. The Remedial Investigation identified chemicals of potential concern in soil, groundwater, surface water, and sediments. A qualitative human health exposure assessment was also completed, which identified potential exposure pathways. The likelihood of humans or animals being exposed to contaminated site media is low due to the site's industrial use.
5. An off-site fish, wildlife, and sediment investigation was completed in Red Creek, in accordance with a NYSDEC approved work plan, to evaluate the potential human and aquatic receptor exposure risk associated with off-site Red Creek sediments. A potential exposure pathway existed for aquatic ecological exposure off-site to Red Creek sediments. Several off-site sediment samples (from Red Creek) contained elevated concentrations of polychlorinated biphenyls (PCBs). PCBs are industrial chemicals with many uses including use in electrical transformers. Vinyl chloride, a degradation byproduct of TCE, was also detected in sediment samples; however, groundwater contamination likely contributes to the vinyl chloride detected in the sediments. The remedy included removal of contaminated sediments to mitigate this potential exposure.

A Remedial Investigation Report was submitted by Garlock to NYSDEC and is available for public review at the document repository listed below. The site Remedial Work Plan and Remedial Design Documents for Site No. 3 are available for public review at the document repository.

FOR MORE INFORMATION

Location of Reports and Information

Project documents are available at the following location to help the public stay informed.

Kings Daughters Free Library (Palmyra

Community Library)

402 East Main Street

Palmyra, NY 14522

Phone: (315) 597-5276

Hours: Monday - Thursday: 10:00 - 8:00

Friday: 10:00 - 5:00

Saturday: 10:00 - 2:00*

Sunday: Closed

* - Closed Saturdays in July and August

Who to Contact

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

Project Related Questions:

Kelly Cloyd, PhD.

New York State Department of

Environmental Conservation

6274 East Avon-Lima Road

Avon, NY 14414

Phone: (585) 226-5351

E-mail: kccloyd@gw.dec.state.ny.us

Call for an appointment

Site-Related Health Questions:

Mr. Justin Deming

New York State Department of Health

Flanigan Square

547 River Street

Troy, NY 12180-2216

Phone: (800) 458-1158 (Select Option 6)

E-mail: beej@health.state.ny.us

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.

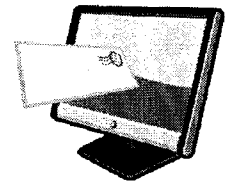
Receive Site Fact Sheets by Email

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:

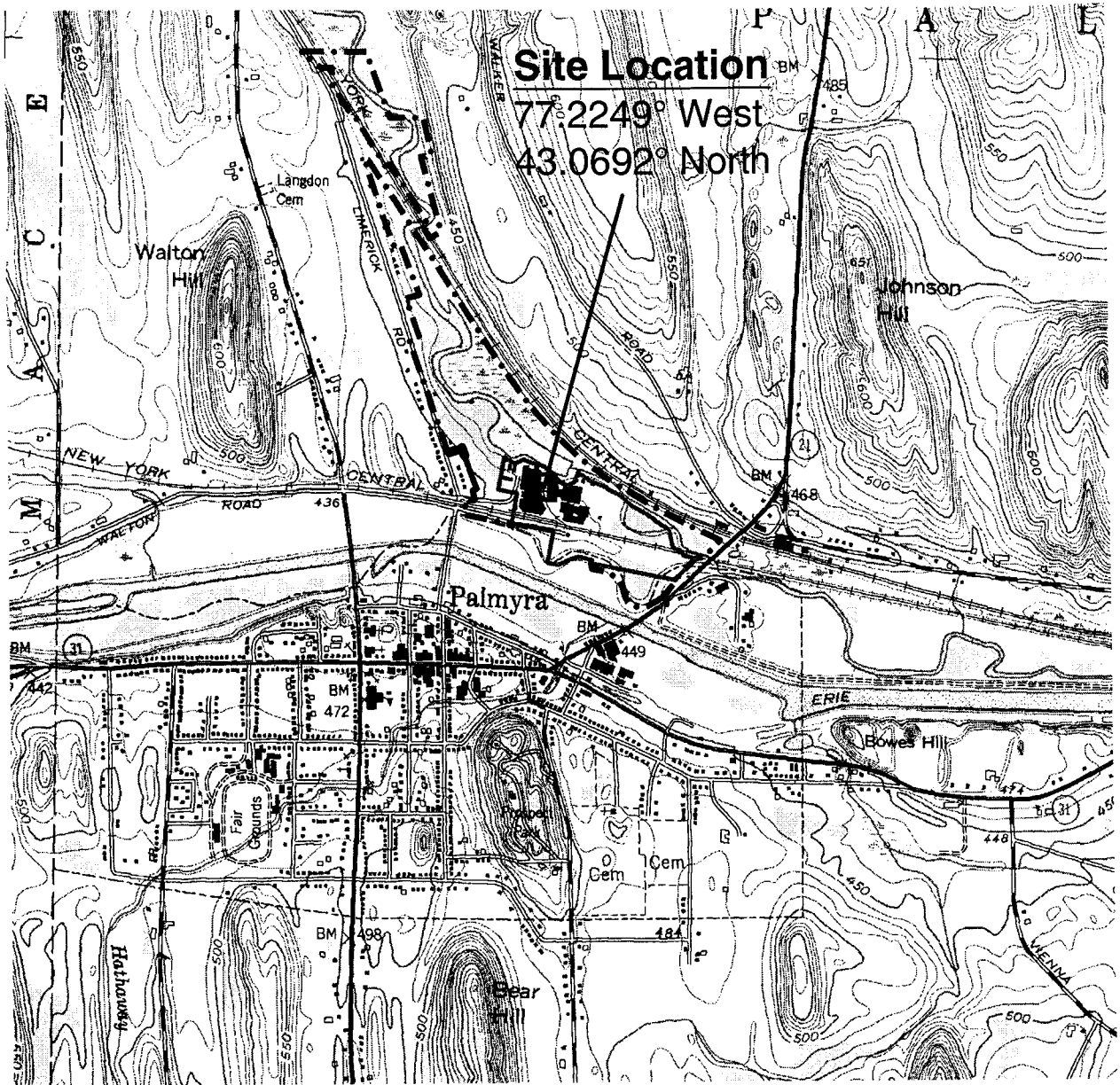
www.dec.ny.gov/chemical/61092.html . It's *quick*, it's *free*, and it will help keep you *better informed*.



As a listserv member, you will periodically receive site-related information/announcements for all contaminated sites in the county(ies) you select.

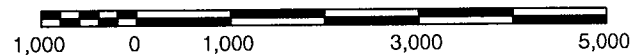
You may continue also to receive paper copies of site information for a time after you sign up with a county listserv, until the transition to electronic distribution is complete.

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



- Approximate BCP Site No.3 Boundary
- . - Approximate Property Boundary

SCALE in FEET



Contour Interval: 10 Feet

Map Taken From: USGS 7.5 Minute Series
Topographic Quadrangle Palmyra (1952)
(www.nysgis.state.ny.us/quads/usgsdrg.htm)



S&W Redevelopment

of North America, LLC.
Syracuse, New York

DATE: 12/2011 JOB No.: N1011

FER Under Review and Cleanup Complete Fact Sheet
1666 Division Street
Palmyra, New York, Wayne County

Figure 1
Site Location Map

X-REF: NAMES?
2010/sep/27/Item
J:\PROJECTS\N-1011 - Garlock Site No. 3\Citizen Participation\FER Under Review - Cleanup Complete Fact Sheet\Figure 2 - AOCs, IRMs, and SSDS.dwg

