



FACT SHEET

State Superfund Cleanup Program

West Side Corporation Operable Unit 2
Site Number: 2-41-026, Jamaica, New York

March 2009

Remedial Action to Address Off-Site Groundwater Contamination to Begin

Construction is about to begin at 180th Street and 106th Road in the City of Jamaica, Queens, under New York State's Superfund Cleanup Program (SSFP). See map for the location of the site (Figure 1). The New York City Department of Environmental Protection (NYCDEP) will soon begin remedial activities to address off-site groundwater contamination at the site (also known as the West Side Corporation Operable Unit (OU) 2 and/or the NYCDEP Groundwater System Station 24 Remediation Project) with oversight provided by the New York State Department of Environmental Conservation (NYSDEC).

As part of cooperative agreements between the NYCDEP and the NYSDEC, the NYCDEP will be installing a groundwater collection and treatment system at Station 24, located adjacent to the West Side Corporation site. Among other provisions, the cooperative agreement calls for the NYCDEP to design, construct, and shakedown a groundwater collection and treatment system in support of the NYSDEC's remediation effort at the West Side Corporation site. The purpose of the Station 24 groundwater treatment system is to provide containment, removal, and treatment of contaminated groundwater resulting from prior bulk storage and distribution of the dry cleaning fluid perchloroethylene (PCE) at the West Side Corporation site. Funding for the design and construction of the OU-2 remedy will come initially from the NYCDEP. The NYCDEP will then be reimbursed by the NYSDEC under a State Assistance Contract using State Superfund monies.

Highlights of the Upcoming Site Remedial Activities: "*Remedial activities*" and "*remediation*" refer to all necessary actions to address any known or suspected contamination associated with the site. The major objective of remedial activities is to clean up contamination at the site to a level that is fully protective of public health and the environment.

State Superfund Program: The mission of the Inactive Hazardous Waste Disposal Site Remedial Program, also known as the State Superfund Program, is to identify and characterize suspected inactive hazardous waste disposal sites and investigate and remediate inactive hazardous waste disposal sites which pose a significant threat to public health and the environment.

The State Superfund Program is an enforcement program administered by DEC's Division of Environmental Remediation (DER).

For more information about the SSFP visit:
<http://internal/home/der/superfund/>

As part of the OU-2 Station 24 remedy, two groundwater recovery wells will be placed into operation on the Station 24 property. One of these wells has already been installed and developed and is ready for installation of a pump and associated piping. The second recovery well is expected to be installed after the groundwater treatment system has been constructed so that contaminated water drawn during well development can be treated prior to discharge (see Figure 2).

Following recovery PCE contaminated groundwater will be treated at Station 24. Treated groundwater will be disposed of into an existing on-site storm sewer that ultimately is discharged into Bergen Basin in accordance with a NYSDEC permit that includes appropriate discharge limitations and monitoring requirements. A

network of approximately 70 observation wells has also been installed to monitor the efficiency of the groundwater treatment system, the performance of the recovery wells and to collect water quality samples.

Background: The 4.5 acre West Side Corporation site is surrounded by a combination of industrial, commercial, and residential properties. From about 1969 to 1992, the site was once used as a storage and distribution center for dry-cleaning supplies, including large quantities of PCE. The site is currently leased by Atlantic Express Transportation for dispatching, repairing, and maintaining school buses.

The site was first listed in the New York State Registry of Inactive Hazardous Waste Sites in August 1997 on the basis of information contained in a subsurface investigation report provided to the NYSDEC by the New York City Corporation Counsel. According to the report prepared for a potential purchaser at the time, groundwater was found to be contaminated with elevated levels of PCE.

The current owner of the site has declined to undertake investigation and remediation of the site. Therefore, a Remedial Investigation/Feasibility Study was initiated by the NYSDEC in July 1998 under the New York State Superfund Cleanup Program. A Proposed Remedial Action Plan (PRAP) for OU-1 (addresses on-site soil and groundwater contamination) was released for public comment in February 2000 and a Record of Decision (ROD) was signed on July 31, 2000. The ROD specified groundwater recovery and treatment, hydraulic containment, soil vapor extraction (SVE) and treatment, chemical oxidation for soils in the highly contaminated source area, and restrictions on the use of the site to ensure long-term effectiveness of the remedy. In September 2002, an Explanation of Significant Differences was issued by the NYSDEC revising the OU-1 remedy to incorporate thermal technology in lieu of chemical oxidation. Thermal treatment has since remediated groundwater and highly contaminated soil found on site.

While the OU-1 effort targeted the remediation of contaminated soil on the site, a plume of PCE contaminated groundwater, which originates on the site, has migrated to the south-southwest. This is in the direction of the NYCDEP Groundwater System Station 6, a past and proposed drinking water treatment facility. NYCDEP is planning to restart several groundwater production wells at Station 6 located to address local flooding problems from a rising water table and to potentially provide a future source of potable water. The NYSDEC and NYCDEP have been working together to ensure that the Station 6 project is compatible with the remediation of the West Side Corporation site. A ROD was signed in February 2002 that addresses contaminated groundwater that has moved from the site to the south-southwest. Any contaminated groundwater that may have migrated off site following on-site source treatment is expected to be captured by the OU-2 Station 24 groundwater extraction system and/or subject to natural attenuation. NYCDEP has completed remedial design of the OU-2 Station 24 remedy. The construction contract was advertised for bid by the NYCDEP in Fall 2007. Award of the contract occurred during the Summer 2008.

Since May 2005, the NYSDEC has also been undertaking a soil vapor intrusion (SVI) study within the residential area located south-southwest of the site. During implementation of the SVI study elevated levels of PCE were found in soil gas at various locations within the groundwater plume. Several properties have already received mitigation systems. Additional groundwater plume delineation and a soil vapor intrusion study was recently completed during the Fall 2008. The results indicate that the off-site PCE groundwater plume, although quite narrow, continues to move and currently extends past Merrick Boulevard to the south. The NYSDEC has also installed approximately 45 wells to monitor the capture of the off-site groundwater plume that is to occur once the Station 24 pumping wells become operational.

Next Steps: Although the target of the on-site thermal remediation was soil contamination, groundwater monitoring sampling in the area, conducted from December 2005 through April 2006, showed significant decreases in the levels of PCE in groundwater. On-site groundwater monitoring and SVE treatment system operations were initiated by the NYSDEC in July 2006 and currently continues.

The NYCDEP is expected to begin remedial construction activities at Station 24 in March 2009 and will be performing construction management services. Construction activities are anticipated to take about one year to complete followed by long-term operation, monitoring, and maintenance of the treatment system beginning in 2010 and continue to at least 2025. The NYSDEC will take over long-term site management responsibilities of the treatment system following three successful months of operation by the NYCDEP after start-up.

During the next few months, the NYSDEC and New York State Department of Health (NYSDOH) will continue to evaluate off-site groundwater data collected over the winter to update the nature and extent of groundwater and soil gas contamination and to determine what, if any, additional work and mitigation may be necessary. Based on the findings, the NYSDEC and NYSDOH will again propose further actions, if deemed necessary, within the study area.

FOR MORE INFORMATION

Document Repository: A local document repository has been established at the following location to help the public to review important project documents. These documents include past reports, RODs, and work plans accepted by NYSDEC:

Queens Borough Public Library
89-11 Merrick Blvd.
Jamaica, NY 114332
(718) 990-0700
<http://www.queenslibrary.org>

Electronic copies of important documents for the site may also be found at the NYSDEC's website at:
<http://www.dec.ny.gov/chemical/45221.html>

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

Project Related Technical Questions

David Chiusano, Project Manager
NYSDEC Central Office
625 Broadway, 12th Floor
Albany, NY 12233-7017
(518) 402-9814 or
(888) 459-8667

Health-Related Questions

Stephanie Selmer
NYSDOH
Flanigan Square
547 River Street, Room 300
Troy, NY 12180-2216
(800) 458-1158, ext. 27860

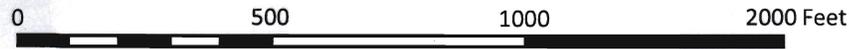
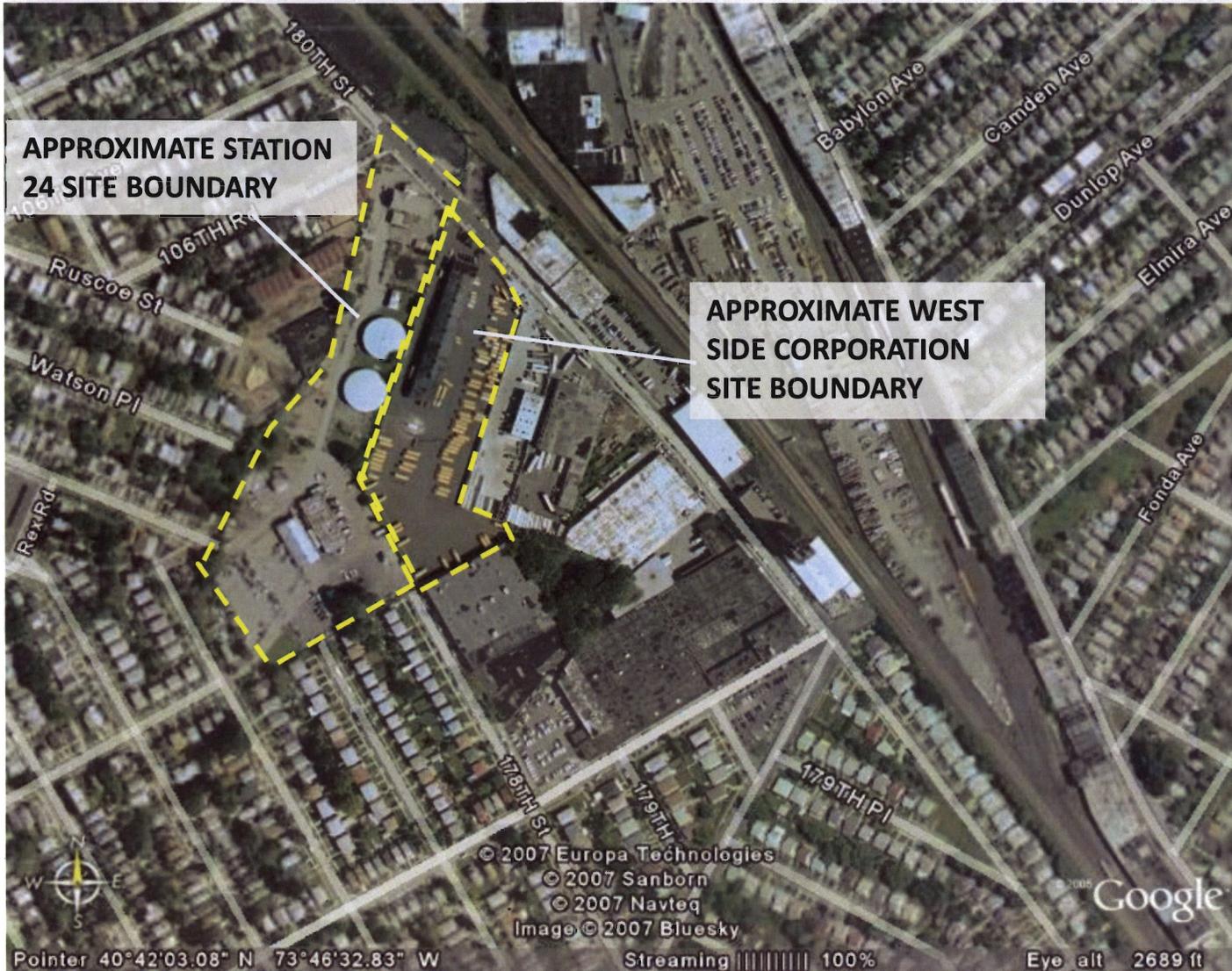
➤ **Additional Information:** For additional information on the remedial design and construction phases of the NYS Inactive Hazardous Waste Disposal Site Remedial Program, please visit the NYSDEC's website at:
<http://www.dec.ny.gov/chemical/8656.html>

For additional information on human health and exposure issues, please visit the NYSDOH's website at:
<http://www.health.state.ny.us/environmental/about/exposure.htm>

For additional information on the Pump and Treat Cleanup Technology that will be used at this site, please visit the EPA's website at: http://www.clu-in.org/download/citizens/pump_and_treat.pdf

Finally, if you know someone who would like to be added to the project mailing list, have them contact the NYSDEC project manager 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.

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APPROXIMATE SCALE

Source: Google Earth

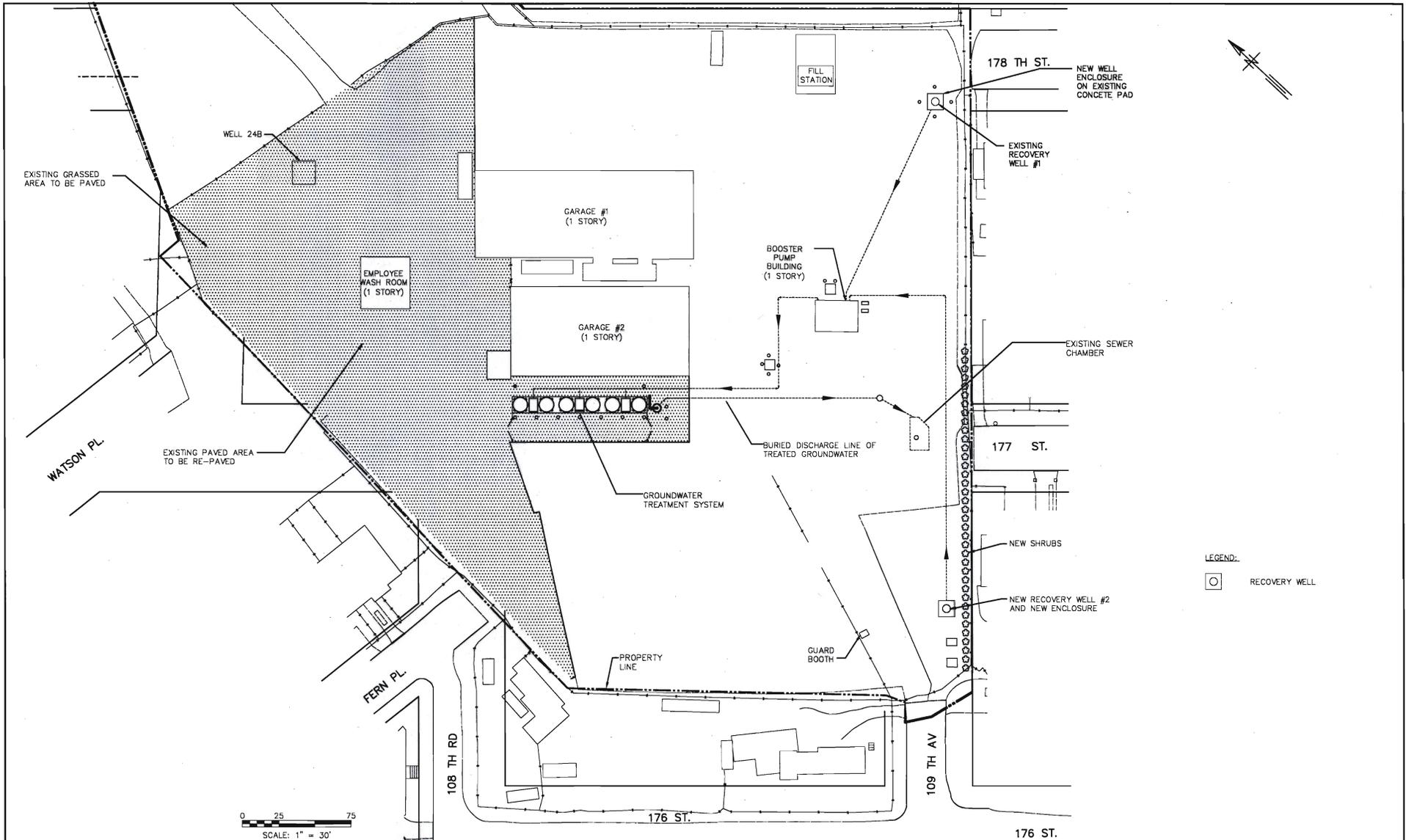
**MALCOLM
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WEST SIDE CORPORATION, SITE # 2-41-026
JAMAICA, QUEENS
REMEDIAL ACTION OVERSIGHT

SITE AREA

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FIGURE 1



MALCOLM PIRNIE ENGINEERS, P.C. 1000 AVENUE OF THE AMERICAS, 15TH FLOOR, NEW YORK, NY 10020-1098
 DATE: 11/14/00
 PROJECT: WEST SIDE CORPORATION OU-2
 SHEET: 2-41-026

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CITY OF NEW YORK
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF WATER AND SEWER OPERATIONS
 BROOKLYN-QUEENS AQUIFER-STATION 24
 PROPOSED SITE PLAN

WEST SIDE CORPORATION OU-2
 SITE PLAN
 SITE NO. 2-41-026

FIGURE 2