New York State Department of Environmental Conservation

FACT SHEET

State Superfund Program

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Site Name: Bayer (OXY Hooker RUCO Polymer) Site
DEC Site No: 130004 Operable Unit 04
Site Address: New South Road
Hicksville, NY 11801

February 2012

Remedy Proposed for State Superfund Portion of the Site; Public Comment Period and Public Meeting Announced

Public Meeting, Tuesday, 3/20/2012 at 7:00 PM

Bethpage Community Center, 103 Grumman Road West, Bethpage

NYSDEC invites you to a public meeting to discuss the remedy proposed for the site. You are encouraged to provide comments at the meeting, and during the 30-day comment period described in this fact sheet.

The public is invited to comment on a remedy proposed by the New York State Department of Environmental Conservation (NYSDEC or Department) related to Bayer OXY Hooker RUCO Polymer Corp. (Hooker Chemical) site located at New South Road, Hicksville, Nassau 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." This includes previous Bayer remedial work.

State Superfund Program: New York's State Superfund Program (SSF) identifies and characterizes suspected inactive hazardous waste disposal sites. Sites that pose a significant threat to public health and/or the environment go through a process of investigation, evaluation, cleanup and monitoring.

NYSDEC attempts to identify parties responsible for site contamination and require cleanup before committing State funds.

For more information about the SSF, visit:
http://www.dec.ny.gov/chemical/8439.html

How to Comment

NYSDEC is accepting written comments about the proposed plan for 30 days, from February 29, 2012 through March 29, 2012. The proposed plan is available for review at the location(s) identified below under "Where to Find Information." Please submit comments to the project manager listed under Project Related Questions in the "Who to Contact" area below.

The site is listed as a Class "2" site in the State Registry of Inactive Hazardous Waste Sites (list of State Superfund sites). A Class 2 site represents a significant threat to public health or the environment; action is required.

Proposed Remedial Action Plan

The remedy proposed for the site includes:

1. **Excavation -**

All on-site soils exceeding the soil cleanup objectives (SCOs) for PCBs will be excavated to a maximum depth of 10 feet below ground surface (bgs). The soil cleanup objective (SCO) for PCB contaminated soils at the surface (0-1 foot bgs) will be 1 ppm. The SCO for PCBs in subsurface soils will be 10 ppm. All soils contaminated with arsenic and cadmium above the commercial SCOs will be excavated and disposed off-site. These soils are limited to small areas ranging from one to two feet bgs. Confirmatory samples will be collected for each excavation. Soil will be excavated at two locations with PAH concentrations above the commercial SCOs, so that total PAHs in subsurface soils remain less than 500 ppm in accordance with NYSDEC Soil Cleanup Guidance CP-51. Clean fill will be brought in to replace the excavated soil. This includes an excavation plan which details the provisions for management of future excavations in areas of remaining contamination.

2. Cover System -

A cover system will be required to allow for commercial use of the site. The cover system will be installed as an active prevention method to potential exposure over select remaining areas of soil exhibiting semi-volatile organic compounds (SVOCs) and metals at concentrations greater than the commercial SCOs. The cover will consist either of structures such as buildings, asphalt pavement, sidewalks, comprising the site development, or a soil cover in areas where the upper one foot of exposed surface soil may exceed the commercial SCOs. Where the soil cover is required, it will be a minimum of one foot of soil clean soil for cover material.

3. Vapor Mitigation -

Any future on-site buildings will be required to have a sub-slab depressurization system, or a similar engineered system, to prevent the migration of vapors into the building from soil and/or groundwater. Any building design will include a provision for implementing actions recommended to address potential soil vapor intrusion;

4. Institutional Controls -

An environmental easement for the controlled property that:

* requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with NYSDEC regulations;
* allows the use and development of the controlled property for commercial uses that meets state regulations and as allowed by local zoning laws;
* restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or Nassau County DOH; and
* requires compliance with the NYSDEC approved Site Management Plan.

5. Site Management Plan -

A Site Management Plan is required, which includes the following:

* An Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective;
* Institutional Controls: The Environmental Easement discussed in "Institutional Controls;"
* Engineering Controls: The soil cover discussed in "Cover System" and the sub-slab depressurization or similar engineered system for vapor mitigation;
* Descriptions of the provisions of the institutional controls of the environmental easement including any land use and groundwater use restrictions;
* Provisions for evaluating the potential for soil vapor intrusion at any buildings developed on the site,
* Maintaining site access controls and Department notification;
* The steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.
* Provisions for the management and inspection of the identified engineering controls;
* A Monitoring Plan to assess the performance and effectiveness of the remedy that includes, but may not be limited to monitoring of the cover system to assess the performance and effectiveness of the remedy, and a schedule of monitoring and frequency of submittals to the NYSDEC.

Next Steps

NYSDEC will consider public comments as it finalizes the remedy for the site. The selected remedy will be described in a document called a "Record of Decision" that will explain why the remedy was selected and respond to public comments. The project then moves to designing and performing the cleanup action to address the site contamination.

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

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.

Background

Location -

The former Ruco Polymer Corp (the Site) consists of a 14-acre triangular-shaped parcel located just southeast of the intersection of New South Road and Commerce Place in Nassau County, Town of Oyster Bay, Hicksville, NY.

Site Features -

The manufacturing site originally consisted of several buildings:

* Plant 1 building and adjoining warehouse formerly located in the southern portion of the Site (used for production of polyester from 1982 until 2002).
* Plant 2 building formerly located east of the Plant 1 building (used to produce polyester as polyurethane in solvent and polyurethanes in water).
* Plant 3 building formerly located north of the Plant 1 building (used as a warehouse for accumulation of materials generated in connection with manufacturing operations, including adipic acid silos).
* Pilot Plant formerly located between Plants 1 and 2 (used to produce small volume solid polyurethane and polyesters).
* Administration building located in the northern area of the Site, north of building (used for offices and non-hazardous storage).

A large asphalt-paved parking area is located in the western portion of the site, and a series of rainwater runoff sumps/recharge basins are located along the eastern property boundary. A railroad spur enters the northwestern portion of the Site. The Long Island Railroad tracks run just south of the Site. Sanitary wastewater from the Site was formerly conveyed via underground piping to septic tanks and cesspools/leachate pits. The leachate pits were abandoned in-place when piping was installed to convey the sanitary wastewater to the municipal sewer system. Access to the Site is limited by a chain-link fence and locking gates. The closest body of water is South Oyster Bay, about 12 miles south of the Site.

Site Geology and Hydrogeology -

The Site and the Hicksville area are underlain by unconsolidated coastal plain deposits in a generally featureless glacial outwash plain of sand and gravel that slopes gently to the south. The upper aquifer in the area is the Upper Glacial Aquifer which is composed of mostly of sand and gravel. Two formations that lie below the Upper Glacial Aquifer include the Magothy Formation and the underlying Raritan Formation. The Magothy Formation is composed of sand inter-bedded with silt and clay and contains the Magothy Aquifer. The Raritan Formation includes the deep-confined Lloyd aquifer.

Current Zoning/Use -

The Site is currently zoned light industrial. The industrial uses permitted under the current zoning regulations for the Town of Oyster Bay include: helipads, light manufacturing uses, lumber yards, research and development uses, and warehouse, distribution and storage uses. The Site is bordered to the north by industrial properties; to the south and west by LIRR tracks and commercial/industrial properties; and to the east by commercial properties. Southwest of the Site and LIRR tracks are some residences.

Historical Uses -

The Site was originally constructed in 1945 and was previously owned/operated by Hooker Chemical and Plastic Corporation and, subsequently, the Occidental Chemical Corporation (OXY) from 1966 to 1982. The site produced polyester resins, polyurethane dispersions, polyvinyl chloride (PVC), latex and ester. From 1951 to 1975, three onsite sumps were used to dispose of wastewaters from PVC, latex and ester manufacturing processes. Wastewaters contained resin solids, vinyl chloride (VC), trichloroethylene (TCE) and vinyl acetate. Styrene and butadiene were also discharged from the latex process. Two sumps received wastewater containing an unknown amount of mixed glycols and alcohols from the ester processes at Plant 1. From 1946 to 1978, the pilot plant used a heat transfer fluid that contained PCBs. The incidental release of this fluid to the ground resulted in soil contamination. Soils under a former underground fuel oil tank were also contaminated with PCBs.

The Site was designated a Superfund site by the United States Environmental Protection Agency (USEPA) and placed on the National Priorities List (NPL) established under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), in 1984. Various soil and groundwater investigations were implemented in the mid-1980s including and initially focused on: (1) former discharge of plant wastewater containing volatile organic compounds (VOCs)and heavy metals into onsite recharge basins; and(2) past release of heat transfer fluids containing PCBs. The Site was purchased by Bayer MaterialScience LLC (Bayer)in 2000 and Bayer decided to close the facility in 2002. Bayer entered into a RCRA Closure Order on Consent with NYSDEC in December 2002.

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=130004

FOR MORE INFORMATION

Where to Find Information
Project documents are available at the following location(s) to help the public stay informed.
Hicksville Public Library
169 Jerusalem Ave
Hicksville, NY 11801
phone: 516-931-1417

Information on the previous and ongoing cleanups through the United State Environmental Protection Agency (USEPA) can be found at: http://www.epa.gov/region02/superfund/npl/0201477c.pdf

NYSDEC Central Office
Attn: Steven Scharf
625 Broadway
Albany, NY 12233-7015
phone: 518-402-9620
(sxscharf@gw.dec.state.ny.us)

NYSDEC Region 1 Office
Attn: Katy Murphy
50 Circle Road
Stony Brook, NY 11790
phone: 631-444-0350
khmurphy@gw.dec.state.ny.us

Project documents are also available on the NYSDEC website at:
http://www.dec.ny.gov/chemical/8431.html

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

Project-Related Questions
Steven Scharf
Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7015
518-402-9620
sxscharf@gw.dec.state.ny.us

Site-Related Health Questions
Renata Ockerby
New York State Department of Health
Bureau of Environmental Exposure Investigation
547 River Street Flanagan Square, Room 300
Troy, NY 12180
518-402-7880
reo02@health.state.ny.us

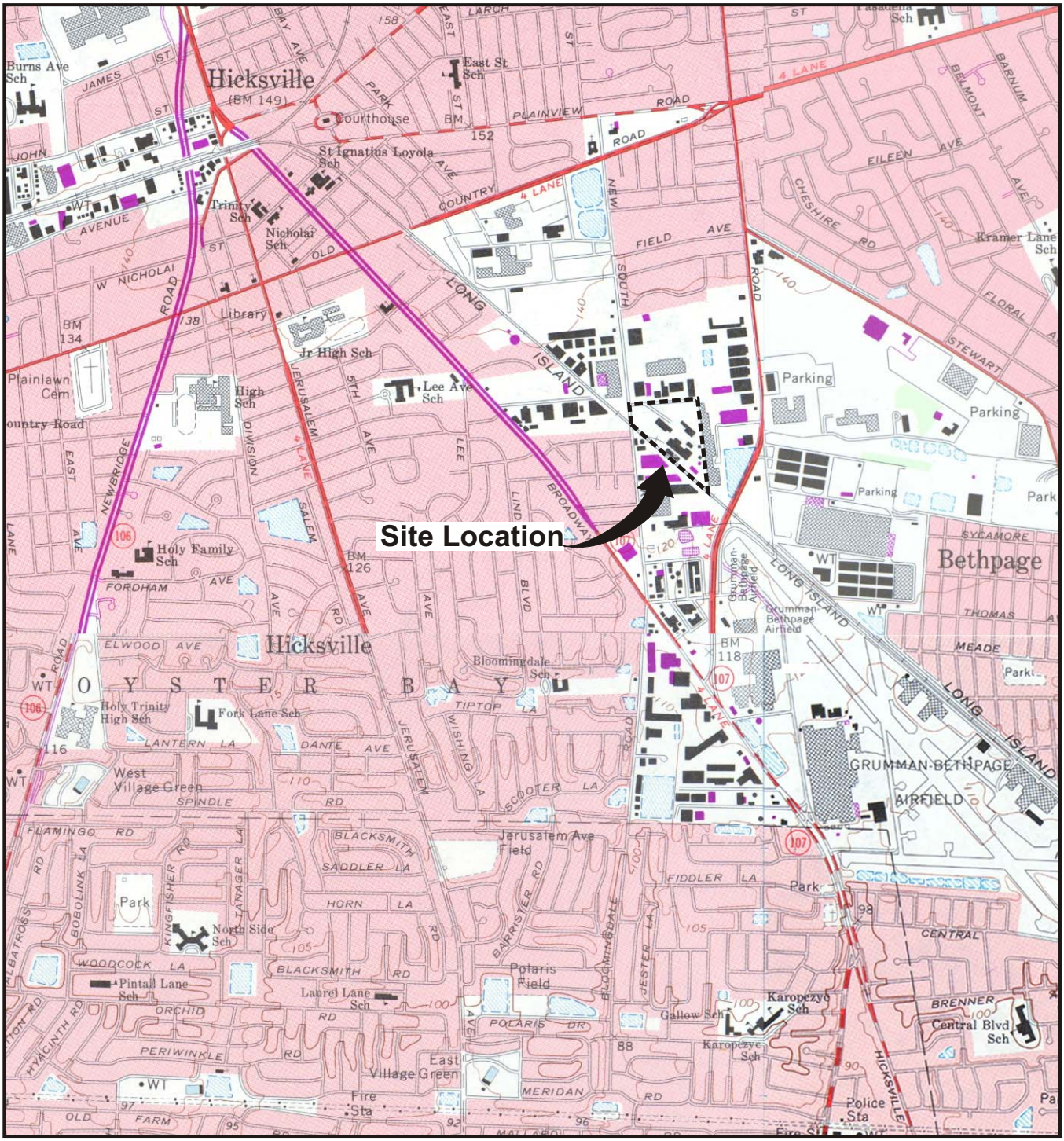
Receive Site Fact Sheets by Email

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.

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.

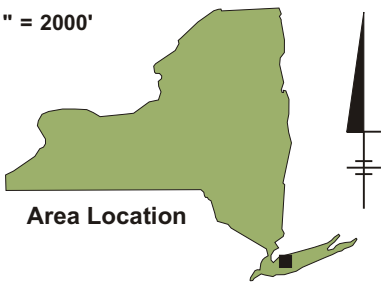
Note: Please disregard if you already have signed up and received this fact sheet electronically.



REFERENCE: BASE MAP USGS 7.5 MIN. QUAD., HICKSVILLE, N.Y. 1967, PHOTOREVISED 1979.

2000' 0 2000'

Approximate Scale: 1" = 2000'



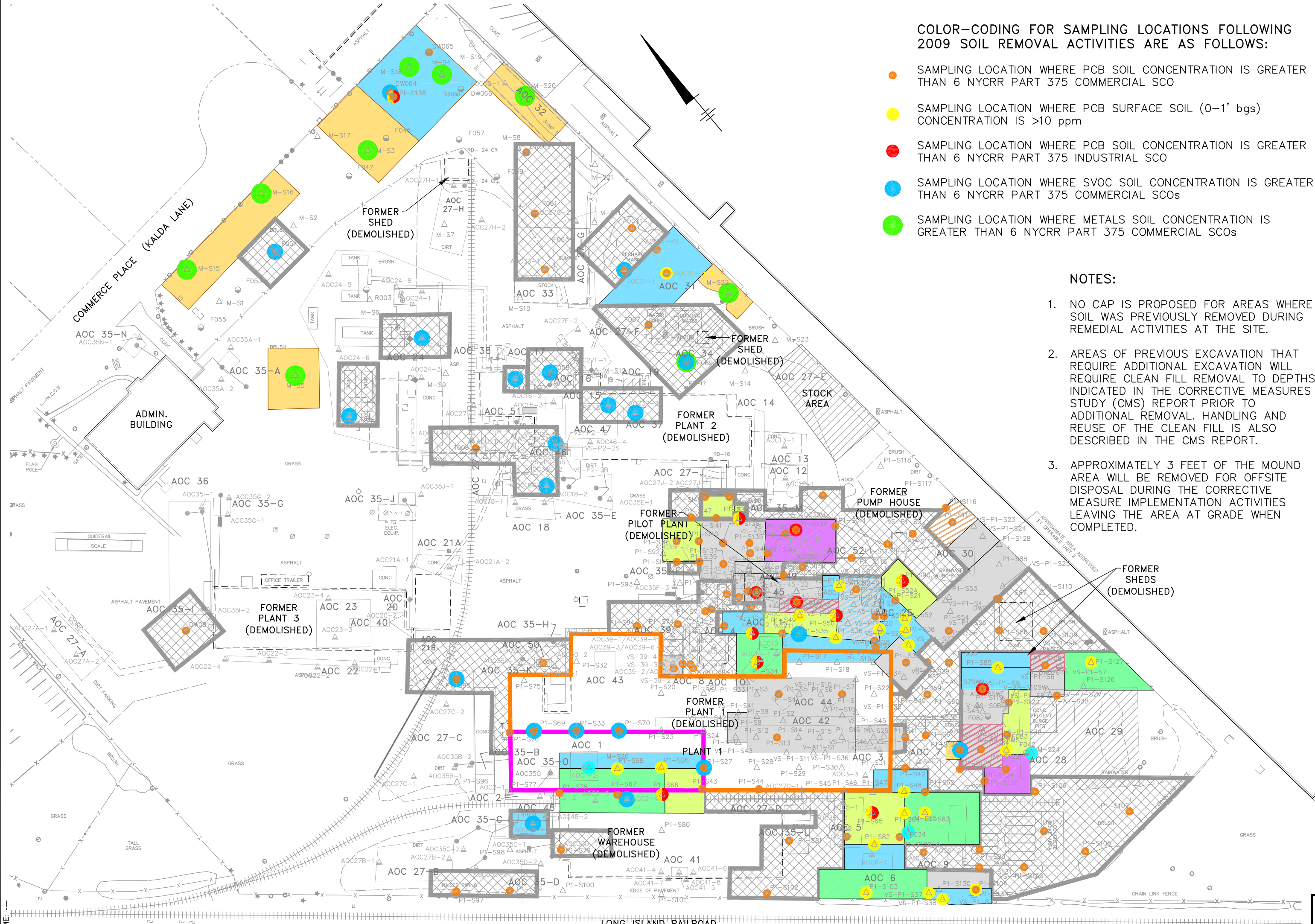
BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK

SITE LOCATION MAP

ARCADIS

FIGURE
1

01/27/09 SYRACUSE-NY-ENV141-DJH
B0032305/0001/00004/CDR/32305N01.cdr



COLOR–CODING FOR SAMPLING LOCATIONS FOLLOWING 2009 SOIL REMOVAL ACTIVITIES ARE AS FOLLOWS:

- SAMPLING LOCATION WHERE PCB SOIL CONCENTRATION IS GREATER THAN 6 NYCRR PART 375 COMMERCIAL SCO
- SAMPLING LOCATION WHERE PCB SURFACE SOIL (0–1' bgs) CONCENTRATION IS >10 ppm
- SAMPLING LOCATION WHERE PCB SOIL CONCENTRATION IS GREATER THAN 6 NYCRR PART 375 INDUSTRIAL SCO
- SAMPLING LOCATION WHERE SVOC SOIL CONCENTRATION IS GREATER THAN 6 NYCRR PART 375 COMMERCIAL SCOs
- SAMPLING LOCATION WHERE METALS SOIL CONCENTRATION IS GREATER THAN 6 NYCRR PART 375 COMMERCIAL SCOs

NOTES:

1. NO CAP IS PROPOSED FOR AREAS WHERE SOIL WAS PREVIOUSLY REMOVED DURING REMEDIAL ACTIVITIES AT THE SITE.
2. AREAS OF PREVIOUS EXCAVATION THAT REQUIRE ADDITIONAL EXCAVATION WILL REQUIRE CLEAN FILL REMOVAL TO DEPTHS INDICATED IN THE CORRECTIVE MEASURES STUDY (CMS) REPORT PRIOR TO ADDITIONAL REMOVAL. HANDLING AND REUSE OF THE CLEAN FILL IS ALSO DESCRIBED IN THE CMS REPORT.
3. APPROXIMATELY 3 FEET OF THE MOUND AREA WILL BE REMOVED FOR OFFSITE DISPOSAL DURING THE CORRECTIVE MEASURE IMPLEMENTATION ACTIVITIES LEAVING THE AREA AT GRADE WHEN COMPLETED.

LEGEND:

- AREA OF PREVIOUS EXCAVATION
- SOIL EXCAVATION ANTICIPATED TO AVERAGE DEPTH OF 1 FOOT
- SOIL EXCAVATION ANTICIPATED TO AVERAGE DEPTH OF 2 FEET
- SOIL EXCAVATION ANTICIPATED TO AVERAGE DEPTH OF 4 FEET
- SOIL EXCAVATION ANTICIPATED TO AVERAGE DEPTH OF 6 FEET
- SOIL EXCAVATION ANTICIPATED TO AVERAGE DEPTH OF 8 FEET
- SOIL EXCAVATION ANTICIPATED TO AVERAGE DEPTH OF 10 FEET

AREA OF PREVIOUS EXCAVATION:

- ANTICIPATED ADDITIONAL EXCAVATION TO AVERAGE DEPTH TO 2.5 FEET
- ANTICIPATED ADDITIONAL EXCAVATION TO AVERAGE DEPTH TO 8.5 FEET
- ANTICIPATED ADDITIONAL EXCAVATION TO AVERAGE DEPTH TO 10.0 FEET
- ANTICIPATED AREA OF CAP LAYER
- ANTICIPATED LIMITS OF CAP LAYER
- RFI SOIL SAMPLING LOCATION
- POST–RFI SOIL SAMPLING LOCATION
- HISTORIC AND CLOSED AOC
- COMPOSITE SOIL SAMPLING LOCATION WHERE RESULTS EXCEED COMMERCIAL USE SCOs

VOC/SVOC VOLATILE/SEMI–VOLATILE ORGANIC COMPOUNDS
PCB POLYCHLORINATED BIPHENYLS
SCOs SOIL CLEANUP OBJECTIVES
PPM PARTS PER MILLION

- LIMITS OF SOIL SCRAPE AREA
- MOUND AREA (EXISTING)

BAYER MATERIALSCIENCE LLC
125 NEW SOUTH ROAD
HICKSVILLE, NEW YORK
PROPOSED REMEDIAL ACTION PLAN

CMS ALTERNATIVE 6 -EXCAVATION OF PCB-IMPACTED SOIL >10 PPM, CAPPING OF PCBS >1 PPM, EXCAVATION OF METALS AND CAPPING OF SVOCS FOR COMMERCIAL USE

ARCADIS

FIGURE
11

CITY: SYRACUSE, NY DIV/GROUP: ENV/CADD DB: R. BASSETT, A. SCHILLING, P. LISTER PM: J. BRUSSEL TM: J. BRUSSEL TR: A. ENIGK LYR: ON=*;OFF=REF, (FRZ)
G:\ENVCAD\SYRACUSE\ACT\B0032305\0004\00004\DWG\RemedialActionPlan\32305B11.DWG LAYOUT: 11 SAVED: 2/28/2012 11:57 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 2/28/2012 11:57 AM BY: JONES, WENDY
XREFS: 32305X01 IMAGES: PROJECTNAME: ---