



FACT SHEET

State Superfund Program

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Site Name: Special Area 13 Dredge Spoil Disposal Area February 2012
DEC Site #: 546041
Site Address: W. River Rd-Hudson River .2 miles South of Lock 7
Moreau, NY 12803

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

Public Meeting, Tuesday, 3/6/2012 at 7:00 PM

Town of Moreau Office Building / 61 Hudson Street / South Glens Falls, NY

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 Special Area 13 Dredge Spoil Disposal Area ("site") located at W. River Rd-Hudson River .2 miles South of Lock 7, Moreau, Saratoga 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."

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 24, 2012 through March 26, 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. Remedial Design

A remedial design program will be implemented to provide the details necessary for the

construction, operation, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows;

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gas and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals; and
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development.

2. Maintain the existing isolation cap/cover, which has been constructed, over the main dredge spoil disposal area at the Special Area 13 site to satisfy Toxic Substances Control Act requirements imposed by the United States Environmental Protection Agency.

3. Maintain the isolation soil covers that have been established beyond the margins of the main dredge spoil disposal area that are part of the TSCA-approved dredge spoil containment structure. These areas include those portions of the first fill area (NYSDEC Boat Launch in Moreau) that were subject to the installation of a soil cover and those areas within the second fill area at the northern extent of the site that are adequately covered by materials placed in association with the construction of General Electric's Work Support Marina Facility for the Hudson River PCBs Site remedial dredging project.

4. Installation of a cover system where current surficial PCB concentrations exceed 1 part per million for the commercial portions of the site (the main dredge spoil disposal area, fill area 1, and fill area 2). These areas include all portions of the Special Area 13 site where PCB-contaminated dredge spoils are exposed at the surface - and - that are not covered by an adequate cover at the present time - but excludes all of the residential portion of the site. This currently includes two small areas adjacent to the river-side of the main dredge spoil disposal area, a small flood plain soil area south and east of the southeastern margin of the main dredge spoil disposal area, and those areas within the second fill area at the northern extent of the site that are outside of the adequate cover materials placed in association with the construction of General Electric's Work Support Marina Facility for the Hudson River PCBs Site remedial dredging project.

5. For the commercial portions of the site that are not covered by an adequate cover at the present time - a cover will be required to allow for commercial use of these areas of the site. Applicable cover will consist either of the structures such as buildings, pavement, sidewalks comprising any site development or a soil cover in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where a soil cover is required it will be a minimum of one foot of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for commercial use. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d).

6. For the residential portion of the site and those areas immediately adjacent to it, removal and off-site disposal of contaminated soils to meet the unrestricted SCOs in Part 375. This area adjoins the capped landfill cell to the west at the southern end and consists of shallow depression fill area which is oblate in shape with a maximum width of about 220 feet and a long axis length of around 500 feet that covers nearly 2.0 acres.

Approximately 17,500 cubic yards of soil will be removed. Clean fill meeting the requirements of 6 NYCRR Part 375-6.8 will be brought in to replace the excavated soil and establish the designed grades at the site.

7. Imposition of an institutional control in the form of an environmental easement or an environmental notice for the controlled property that:
- (a) 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 Part 375-1.8 (h)(3);
 - (b) allows the use and development of the controlled property for restricted residential (parcels zoned residential) or commercial (parcels not zoned residential) as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
 - (c) restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH;
 - (d) prohibits agriculture or vegetable gardens on the portions of the controlled property which were subject to remediation; and
 - (e) requires compliance with the Department approved Site Management Plan.
8. A Site Management Plan is required, which includes the following:
- (a) an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:

Institutional Controls: The Environmental Easements and Environmental Notices discussed in Paragraph 7 above.

Engineering Controls: The existing isolation cap/cover discussed in Paragraph 2 above, the existing isolation covers discussed in Paragraph 3 above, and the soil covers discussed in Paragraph 4 and 5 above.

This plan includes, but may not be limited to: (i) Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination; (ii) descriptions of the provisions of the environmental easement including any land use and/or groundwater use restrictions; (iii) provisions for the management and inspection of the identified engineering controls; (iv) maintaining site access controls and Department notification; and (v) the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls; and

- (b) a Monitoring Plan to include, but not be limited to: (i) monitoring of groundwater to assess the performance and effectiveness of the remedy; and (ii) a schedule of monitoring and frequency of submittals to the Department.

NYSDEC developed the proposed remedy after reviewing the detailed investigation of the site and evaluating the remedial options in the "feasibility study" submitted under New York's State Superfund Program.

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.

Background

Location:

The Special Area 13 (Dredge Spoil Disposal Area) site is located along the western shore of the Hudson River in the Town of Moreau (Saratoga County), about 1,200 feet down-river (south) of Champlain Canal Lock 7 and near Buoy 219 that marks the western margin of the navigation channel of the Champlain Canal within the Hudson River.

Site Features:

The 25.3 acre site consists of four distinct areas. The main dredge spoil disposal area consists of a closed and covered basin and earthen containment berm complex built by the New York State Department of Transportation (NYSDOT) to dewater and hold sediment removed from the Champlain Canal/Hudson River navigation channel south of Canal Lock 7 and from around Rogers Island. In its present closed and covered state, this dredge spoil disposal structure ranges between 175 and 300 feet wide and extends about 1,750 feet along the shore of the Hudson River with a foot-print covering nearly 14 acres. PCB-contaminated dredge spoils from the main dredge spoil disposal area were graded out onto three adjoining areas prior to its closure. The first fill area adjoins the main dredge spoil disposal area to the north and consists of a closed and covered shallow depression fill area which ranges between 200 and 250 feet wide and extends about 550 feet along former County Route 29 with a foot-print covering nearly 3 acres. This area was covered with a soil cover (consisting of filter fabric, a marker layer, one foot of clean soil, and a vegetated surface) to limit the potential for human exposure to the dredge spoil found here. A second fill area is located in a shallow depression further north beyond the first fill area and is about 550 feet wide and about 500 feet long with a foot-print covering around 6.3 acres. A large portion of the second fill area is covered with clean fill and pavement placed during the construction of a Work Support Marina Facility for the Hudson River PCBs Site remedial dredging project, however the remaining portions of this area are not covered at present. The third fill area adjoins the main dredge spoil disposal area to the west at the southern end and consists of another shallow depression fill area which is oblate in shape with a maximum width of about 220 feet and a long axis length of around 500 feet that covers nearly 2.0 acres on a residential parcel. This residential property is occupied by a single dwelling and a few out-buildings. There is a private well on the property that draws water from the shallow overburden aquifer.

Current Zoning/Use:

The main dredge spoil disposal area at the site is the location of a Toxic Substances Control Act approved dredge spoil containment structure and is currently zoned for manufacturing. The first fill area is zoned as a marina and is being used as a State-owned recreational boat launch site. The second fill area is zoned Hudson River Regulatory and is now the location of an active Work Support Marina Facility for the Hudson River PCBs Site remedial dredging project. The third fill area is zoned residential and appears to be unoccupied.

Historic Use:

A series of unlined, transient settling basin and baffle systems were constructed at the main part of this site by the NYSDOT and were used to dewater and hold dredge spoil material removed from the Champlain Canal/Hudson River navigation channel south of Champlain Canal Lock 7 in conjunction with routine and emergency maintenance dredging operations of the Canal System. These settling basin systems were initially constructed by excavating the soils across this area slightly and grading the displaced materials outward and upward to form the various containment berms. During subsequent maintenance operations, it is likely that some of the older dredge spoil materials were re-graded in order to deepen or modify the established settling basin to accommodate the disposal of additional dredge spoil materials. During one or more of these re-grading activities in the 1970s, it is believed that spoils from the basin and containment berm complex were pushed outward and into the three identified shallow depression areas adjacent to the main disposal area as fill material.

Available NYSDOT records report that the Special Area 13 dredge spoil disposal area was used between 1952 and 1979 for the disposal of up to 802,000 cubic yards of dredge spoil material during canal maintenance operations. In 1979, it was covered with between six and 24-inches of sand and seeded. Monitoring wells were also installed and a monitoring program was established. These actions were taken to comply with Toxic Substances Control Act (TSCA) requirements imposed by the USEPA when they issued an approval for the interim storage/disposal of PCB laden material at this site in September of 1979. In 1991, a TSCA-approved clay cover/cap was added over the existing 'standard turf' cover. The new cover was constructed by the NYSDOT and the earlier monitoring wells were replaced. The new cover added a six-inch to five-foot thick layer of clay over the entire closed main structure. The combination of the two cover layers put the top surface of the potentially contaminated dredge spoil materials at depths ranging between about one-foot and nearly five-feet below the ground surface. Following the installation of the TSCA-approved cap, subsequent monitoring demonstrated that PCB levels in the local groundwater diminished such that PCBs were no longer detected in the groundwater. Personnel from the NYSDOT inspect and sample the groundwater monitoring wells and maintain the site under the TSCA program. The latest TSCA program inspection occurred on May 20, 2010.

The first fill area adjoining the main disposal area to the north has been closed and covered and now serves as part of a State-owned public recreational boat launch site. As mentioned previously, a large portion of the second fill area is covered with clean fill and pavement placed during the construction of a Work Support Marina Facility for the Hudson River PCBs Site remedial dredging project, however the remaining portions of this area are not covered at present.. The third fill area on the residential property that adjoins the main disposal site to the west along the southern margin has not been covered.

Site Geology and Hydrogeology:

The geologic setting for the Special Area 13 site has a varied mixture of silts, sands, gravel, and clay and that were placed over bedrock by natural processes and a varied mixture of sand, silt, shale fragments, and debris that were placed over the earlier lacustrine and alluvial deposits by unnatural processes a relatively short time ago.

The overburden materials in the natural setting are located in most areas outside of the basin and berm system at the site. The overall thickness of these native soils at Special Area 13 is not known, but earlier work by others report similar undisturbed silts, sands, gravel, and clay to a depth about 30 feet lower than the bottom of the Special Area 13 dredge spoil disposal structure.

The overburden materials in the unnatural setting are best described as mechanically reworked native soil mixed with dredge spoil materials in the closed and covered dredge spoil disposal structure. The dredge spoils are typically dark gray to black, fine to medium sands with varying amounts of silt, black shale fragments, pebble gravel, brick fragments, coal fragments, fused slag, glass shards, and wood debris. Dredge spoils vary in thickness from a few inches to nearly 13.5 feet within the closed and covered main disposal area, from a few inches to 6.7 feet within the closed and covered first fill area, from a few inches to 6.5 feet within the second fill area, and from a few inches to about 7 feet within the third fill area.

Groundwater flow in this area typically moves away from the slight topographic rise on the west and toward the Hudson River in a general east-southeast direction.

Additional site details, including environmental and health assessment summaries, are available on NYSDEC's website at:

<http://www.dec.ny.gov/cfm/external/haz/details.cfm?pageid=3&progno=546041>

FOR MORE INFORMATION

Where to Find Information

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

NYSDEC Central Office

Attn: William Shaw

625 Broadway

Albany, NY 12233

phone: (518) 402-9676

USEPA - Hudson River PCB Project Field Office

421 Lower Main Street

Hudson Falls, NY 12839

phone: (518) 747-4389

(hrfo@roadrunner.com)

Town of Moreau Office Building

61 Hudson Street

South Glens Falls, NY 12803

phone: (518) 792-1030

Who to Contact

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

Project Related Questions

William Shaw
Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7013
518-402-9676
wxshaw@gw.dec.state.ny.us

Site-Related Health Questions

Deanna Ripstein
New York State Department of Health
NYSDOH - Environmental Exposure Investigation
547 River Street
Troy, NY 12180
518-402-7860
dmr13@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: <http://www.dec.ny.gov/chemical/61092.html>. It's quick, it's free, and it will help keep you *better informed*.

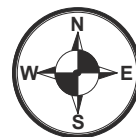
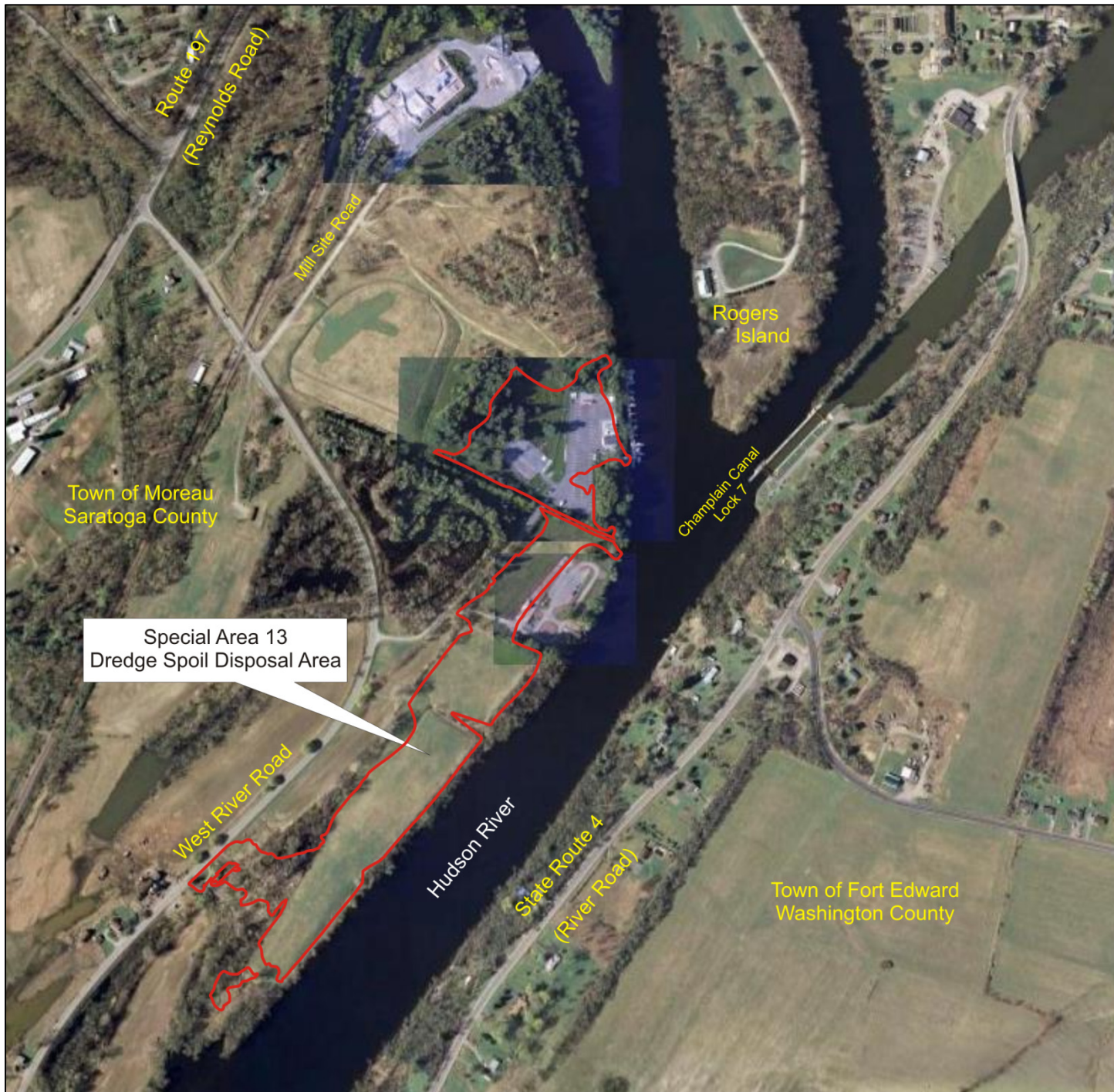


As a listserv member, you will periodically receive site-related information/announcements for all contaminated sites in the county(ies) you select.

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.

Figure 1 - Location Map
Special Area 13 Dredge Spoil Disposal Area
Proposed Remedial Action Plan
February 2012



Aerial Imagery extracted from Google Earth and Microsoft's Bing Maps.