



Dear Interested Citizen:

This fact sheet provides you with information on the ongoing design and construction activities associated with the Onondaga Lake Superfund Site and adjacent subsites. If you have any questions, comments or would like more information please contact:

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Albany, New York 12233-7013
(518) 402-9676
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With respect to citizen participation inquiries, please contact:

Ms. Diane Carlton or
Ms. Stephanie Harrington
Citizen Participation Specialists
NYSDEC, 615 Erie Boulevard West
Syracuse, New York 13204-2400
(315) 426-7403
Email: reg7info@gw.dec.state.ny.us

For project-related health questions, contact the New York State Department of Health (NYSDOH):

Mr. Mark Sergott, Project Manager
NYSDOH, 547 River Street
Troy, New York 12180-2216
(518) 402-7860 or
(800) 458-1158 (option 6)
E-mail: beej@health.state.ny.us

**New York State Department of
Environmental Conservation (DEC)
FACT SHEET**

**DEC AND EPA CONTINUE TO ADDRESS UPLAND
SITES ADJACENT TO ONONDAGA LAKE AND
DEFINE EXACT AREAS TO BE DREDGED**

Public Comments are invited on a
Proposed Interim Remedial Measure for the Wastebed B/ Harbor
Brook Site Outboard Area, as well as Proposed Approaches for
Managing Materials Dredged as Part of Remedial Activities at the
Wastebeds 1-8 and Ninemile Creek Sites

**Onondaga Lake Subsites
Onondaga County – January 2012**

**Update on Adjacent Upland Sites and
Areas to be Dredged**

The New York State Department of Environmental Conservation (DEC) and U.S. Environmental Protection Agency (EPA) continue to address remediation sites adjacent to Onondaga Lake in conjunction with the lake bottom remediation project. In preparation for operations to begin in 2012, exact areas to be dredged continue to be defined. These areas of the Wastebed B/ Harbor Brook (WBB/HB), Wastebeds 1-8, and Geddes Brook/ Ninemile Creek sites are outlined on the attached map.

As explained in each individual description below, hydraulic dredging will be employed during the remediation of each of these areas. As planned, the dredged slurry (sediment and water mixture) will be piped to the Sediment Consolidation Area (SCA) located on Wastebed 13. Consistent with the legal agreement governing the cleanup, the amount to be dredged will be less than 2.65 million cubic yards and within the original design capacity of the SCA. The final dredged estimate is currently anticipated to be in the 2.2 million cubic yard range and will be included in the *Onondaga Lake Capping, Dredging, Habitat and Profundal Zone (Sediment Management Unit 8) Final Design*. This design document will be finalized in the Spring of 2012 and is the culmination of all previous draft design documents related to capping, dredging, habitat restoration, and the profundal zone that were released to the public for review beginning in 2009 through the present. A draft version of this document, and NYSDOC's associated comment letter, will soon be available on the NYSDOC website and at the locations provided below.

Once designs are finalized, a public information session will be held prior to the start of dredging so that community members can learn more about all aspects of the dredging operations, the safeguards in place, what the community can expect to see, hear and experience during the project, who to call with questions or concerns, and how to stay informed of progress. Please sign up for the Onondaga Lake News listserv described on the last page of this fact sheet to be notified when this public information session is scheduled.

The information in the remainder of this fact sheet is organized into three main sections and further describes proposed approaches for each of the areas shown on the map and how to submit comments.

The Wastebed B / Harbor Brook Outboard Area Proposed Interim Remedial Measure

The response action proposed for the WBB/HB site consists of the removal of soils and wetland sediments between the Harbor Brook Barrier Wall (East and West Walls) and Onondaga Lake (the “Outboard Area”); placement of an isolation cap; and restoration of the area as wetlands.

The proposed response action is described in a draft interim remedial measure (IRM)/cleanup plan called a “Proposed Response Action Document” (PRAD) developed under New York’s State Superfund Program and the EPA’s Federal Superfund Program. The document is available for public review at the locations identified below under “Where to Find Information.” The document also is available on the NYSDEC web site at www.dec.ny.gov/chemical/37558.html.

Summary of the Proposed Response Action

The proposed response action represents the response action preferred by NYSDEC, the EPA and the New York State Department of Health (NYSDOH) to address contamination that is migrating from this site to Onondaga Lake and Harbor Brook. The PRAD has several objectives:

- Identify goals to be achieved;
- Describe and evaluate the response actions considered; and
- Explain why NYSDEC, EPA and NYSDOH believe the proposed response action is preferred relative to the other response actions which were also considered.

The proposed response action was chosen following an investigation of site conditions (as part of the site remedial investigation) and an evaluation of response actions to address site contamination. The investigation and evaluation were presented in an “Engineering Evaluation/Cost Analysis” (EE/CA).

The objectives of the IRM are to:

- Eliminate, to the extent practicable, releases of contaminants from the Outboard Area; and
- Eliminate, to the extent practicable, potential impacts to human health and to the environment (*e.g.*, to fish and wildlife resources).

NYSDEC, NYSDOH, and EPA's preferred response action includes the following:

- Excavation and/or dredging of approximately 200,000 cubic yards (CY) of soil and sediment located between the Harbor Brook barrier walls and Onondaga Lake (see attached map). Approximately 35,000 CY of material would be excavated and relocated to an area inboard of the barrier wall and groundwater collection system at Wastebed B, and the remaining 165,000 CY would be hydraulically dredged and transported via pipeline and consolidated at the SCA that is being constructed at

Wastebed 13 as part of the remediation of the Onondaga Lake Bottom subsite. SCA related documents are available for review on the NYSDEC website [www.dec.ny.gov/chemical/37558.html] as well as at the locations listed at the end of this fact sheet.

The Outboard Area soil and sediments would be similar to the materials that will be dredged from Onondaga Lake. The related additional volume (165,000 CY which is approximately 6.2% of the SCA design capacity), in addition to the other materials that will be managed at the SCA, would be within the design capacity of the SCA (which is 2,653,000 CY). Hydraulic dredging and transport of the dredged material to the SCA would take advantage of the infrastructure that is being constructed to support the implementation of the lake remedy and would be protective of human health and the environment.

- Following soil/sediment removal, installation of an isolation cap to physically isolate the contaminated soil/sediment from the environment.
- Restoration and enhancement of wetland habitat (as a pike spawning wetland) in the Outboard Area in the vicinity of the mouth of Harbor Brook.
- Institutional controls to ensure long-term effectiveness of the remedy.
- Post-construction maintenance and monitoring of the capped areas.

This preferred response action would have a present worth cost of approximately \$24,000,000. The responsible party, Honeywell International, Inc. (Honeywell) (formerly AlliedSignal, Inc.), would design, construct, and provide long-term maintenance and monitoring of the IRM with NYSDEC oversight.

Next Steps

NYSDEC and EPA will consider public comments as the response action for the site is finalized. The selected response action will be described in a document called a "Response Action Document" (RAD) that will explain the rationale for the selected response action and respond to public comments. This document will be made available to the public (see "Where to Find Information" below).

The project will then move to the design and implementation of the response action to address the specific areas of site contamination that are part of this response action. Technical documents will be reviewed and approved throughout the design and construction phases of the project to help ensure the effectiveness of the remedy. Due to similarities in remedial approaches and the connectivity with the adjacent Onondaga Lake dredging, capping and habitat designs, the design and remediation of the Outboard Area IRM will occur in conjunction with the remediation of the adjacent lake area.

Other site areas and media which would not be remediated under this IRM would be addressed under other IRMs or the WBB/HB Remedial Investigation/Feasibility Study.

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

**WBB/HB Outboard Area Public Meeting
Wednesday, February 1, 2012*
Open House 6:00 - 7:00 P.M.
Meeting to Begin at 7:00 PM**

**Martha Eddy Room in the Art and Home
Center at the New York State Fairgrounds
Geddes, New York**

NYSDEC and the EPA invite you to a public meeting and availability session to discuss the WBB/HB Outboard Area IRM/Response Action proposed for the site. You are encouraged to provide comments at the public meeting and during the 30-day comment period described in this fact sheet.

** In case of severe weather, notice will be given to local media outlets that the meeting will be postponed until Thursday, February 9, 2012 at the same time and location.*

How to Comment

NYSDEC is accepting written comments about the proposed response action for 30 days, from January 20, 2012 through February 20, 2012. Comments will be accepted at the public meeting detailed in the text box on the previous page. Comments can also be mailed or emailed to:

Tracy A. Smith

NYSDEC, 625 Broadway, 12th Floor

Albany, New York 12233-7013

Email: derweb@gw.dec.state.ny.us

Please indicate "WBB/HB Outboard Area IRM Comments" in the subject line

Approach for Managing Materials Generated During the Construction of a Lake-Connected Wetland at the Wastebeds 1-8 Site

On December 14, 2006, following the review of public comments, the NYSDEC and EPA finalized an Explanation of Significant Differences (ESD). The ESD describes a change to a portion of the remedy (in the southwest portion of Onondaga Lake) selected in the July 2005 Record of Decision (ROD) for the Onondaga Lake Bottom Subsite of the Onondaga Lake Superfund Site.

The change to the remedy was necessary to ensure the stability of two adjacent areas supporting vital roadways: the adjacent causeway and a portion of Interstate 690. The remedy change was supported by more extensive sampling of the area that indicated that the pure chemical contamination (Non-Aqueous Phase Liquids [NAPLs]) is less extensive than what was estimated in the ROD. Based on this new information, the most appropriate remedy in this area was to locate the planned barrier wall/groundwater collection system off-shore immediately beyond the furthest extent of pooled NAPLs within the lake, install additional recovery wells (to supplement the existing NAPLs recovery system), and replace the aquatic habitat lost as a result of the above activities. As a result of the ESD, Honeywell is required to mitigate that loss by constructing a 2.3-acre lake-connected wetland at the Wastebeds 1-8 site (see attached map).

The design of the lake-connected wetland (which will include the removal and management of materials [primarily Solvay waste, which consists largely of calcium carbonate, gypsum, sodium chloride {salt}, and calcium chloride], the construction of a cap to isolate underlying contamination, and the placement of a habitat layer) is well underway.

As needed, materials that cannot be hydraulically dredged (estimated to be approximately 17,500 CY) would be excavated and consolidated on-site. The final disposition of these materials would be evaluated during the Feasibility Study and the ROD for the Wastebeds 1-8 site.

The remaining materials that would be removed (estimated to be approximately 41,500 CY) to achieve the desired post-cap water depths, would be hydraulically dredged and transported via pipeline and consolidated at the SCA that is being constructed at Wastebed 13 as part of the remediation of the Onondaga Lake Bottom subsite. This would take advantage of the infrastructure that is being constructed to support the implementation of the lake remedy and would be protective of human health and the environment. These materials would be similar to the materials that will be dredged from Onondaga Lake, and the related additional volume (41,500 CY which is approximately 1.6% of the SCA design capacity), in addition to the other materials that will be managed at the SCA, would be within the design capacity of the SCA (which is 2,653,000 CY).

Approach for Managing Materials Generated During the Cleanup of the Geddes Brook/Ninemile Creek Site

In 2009, the NYSDEC and EPA selected remedies in RODs for two portions (Operable Units 1 and 2) of the Geddes Brook/Ninemile Creek site. The remedies (described below) include the cleanup of contaminated sediments and soils within and adjacent to portions of Geddes Brook and Ninemile Creek. In March 2011, the Federal Court approved a proposed agreement (Consent Decree) between New York State and Honeywell. Under the Consent Decree, Honeywell is required to conduct a cleanup of the stream system in accordance with the 2009 RODs.

The design of the remedies for Operable Units 1 and 2 is well underway. As stated in the RODs, the contaminated sediments and soils removed from Ninemile Creek and its floodplain will be disposed of at the LCP Bridge Street subsite containment system (which has been constructed and is being monitored pursuant to the requirements of a September 2000 ROD) or the SCA that is being constructed at Wastedbed 13 as part of the remediation of the Onondaga Lake Bottom subsite. The RODs indicate that the decision as to the specific disposal location will be made during the design phase.

Under the proposed approach, hydraulic dredging would be used to remove approximately 20,000 CY of contaminated soil and sediment from the two small peninsulas extending out on both sides of the mouth of Ninemile Creek (see “spit” areas on attached map). In addition, up to approximately 30,000 CY of channel sediments may be removed by hydraulic dredging from Reach AB of Ninemile Creek (see attached map). Factors governing whether the additional channel sediment materials would be hydraulically removed (or mechanically removed) include site accessibility, safety, the nature of the materials, and integration of the removal schedule with that of the Onondaga Lake remediation project. These materials (a total of between approximately 20,000 and 50,000 CY) would then be transported via pipeline and consolidated at the SCA. The materials would be similar to the materials that will be dredged from Onondaga Lake and the related additional volume (between approximately 20,000 and 50,000 CY, which is approximately 0.75 to 1.9% of the SCA design capacity), in addition to the other materials that will be managed at the SCA, would be within the design capacity of the SCA (which is 2,653,000 CY). Hydraulic dredging and transport of the dredged material to the SCA would take advantage of the infrastructure that is being constructed to support the implementation of the lake remedy and would be protective of human health and the environment.

The remaining Ninemile Creek materials (approximately 67,000 to 97,000 CY) from channel and floodplain areas within and adjacent to Reaches BC and CD, and from floodplain areas adjacent to Reach AB, including portions of the SYW-10 forested wetland area (see attached map), would likely be removed via mechanical excavation and consolidated at the LCP Bridge Street subsite containment system.¹ These materials would be similar to the materials generated from the Geddes Brook IRM that are being placed at the LCP containment system and the related additional volume would be within the design capacity of the containment system.

¹ The volume estimates do not include material to be removed from the SYW-10 forested wetland area. A focused investigation is currently underway to determine what portions of the SYW-10 area will require remediation. As such, the remedial design and volume estimates for the SYW-10 area will be developed separately.

Next Steps

NYSDEC will consider the public comments regarding the proposed approaches for the Wastebeds 1-8 and Geddes Brook/Ninemile Creek sites as the designs are finalized. Technical documents will be reviewed and approved throughout the design and construction phases of the projects to help ensure the effectiveness of the remedy. NYSDEC will keep the public informed throughout the cleanup of the sites.

How to Comment

NYSDEC will accept written public comments regarding the proposed sediment/soil disposal at the LCP Bridge Street subsite containment system (for Geddes Brook/Ninemile Creek Site materials) and at the SCA (for the Geddes Brook/Ninemile Creek Site and Wastebeds 1-8 Site materials) during a public comment period ending on February 20, 2012. Comments should be mailed or e-mailed to:

Mr. Timothy Larson P.E.
NYSDEC, 625 Broadway, 12th Floor
Albany, New York 12233-7016
Email: derweb@gw.dec.state.ny.us
Please indicate "Onondaga Lake Material Management" in the subject line

Project Contact List

NYSDEC is transitioning to electronic distribution of remediation project information. To begin receiving Onondaga Lake cleanup information electronically, please sign up for the *Onondaga Lake News* email list by visiting the NYSDEC website, www.dec.ny.gov/chemical/52545.html.

Location of Reports and Information

Project documents are available for review on the NYSDEC website (www.dec.ny.gov/chemical/37558.html) and at the following locations.

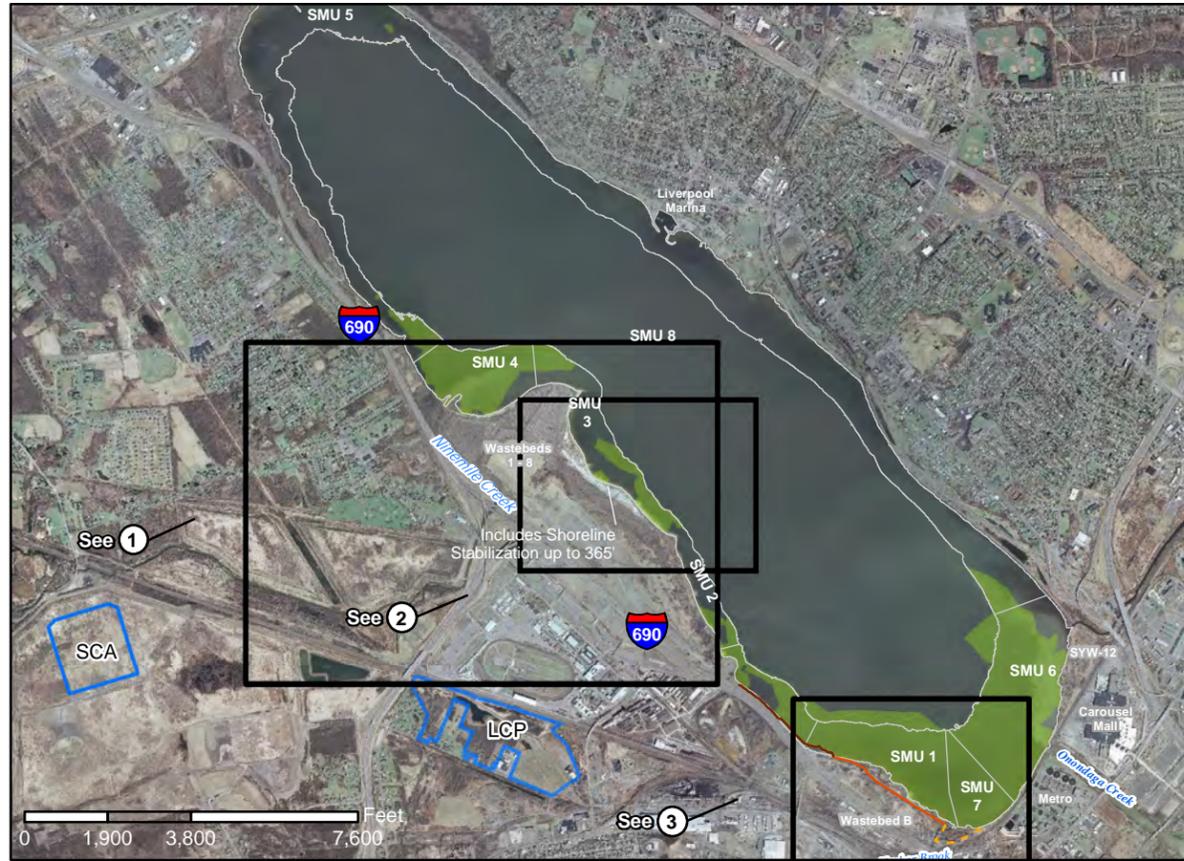
Location	Address	Phone
Atlantic States Legal Foundation*	658 West Onondaga Street, Syracuse, NY 13204	(315) 475-1170
NYSDEC Central Office*	625 Broadway, Albany, NY 12233	(518) 402-9676
NYSDEC Region 7*	615 Erie Boulevard West, Syracuse, NY 13204	(315) 426-7400
Onondaga County Central Public Library	The Galleries, 447 South Salina Street, Syracuse, NY 13202	(315) 435-1800
Solvay Public Library	615 Woods Road, Solvay, NY 13209	(315) 468-2441

* Please call for an appointment

Information specific to the Onondaga Lake Bottom project can also be found at these additional locations:

Location	Address	Phone
Camillus Town Hall	4600 West Genesee Street, Room 100, Syracuse, NY 13219	(315) 488-1234
Moon Library	SUNY ESF, 1 Forestry Drive, Syracuse, NY 13210	(315) 470-6712

Date Revised: 1/10/2012 1:11:00 PM



Onondaga Lake Overall Site Plan



1 Geddes Brook/Ninemile Creek Site

-  Sediment Management Unit (SMU) Boundary
-  Onondaga Lake Areas to be Hydraulically Dredged and/or Capped (Parsons, 2010)
-  Wetland Areas to be Hydraulically Dredged and Capped

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2 Wastebeds 1-8 Connected Wetlands



3 Wastebed B / Harbor Brook Outboard Area

-  Willis/Semet IRM Barrier Wall
-  West Wall Portion of the Wastebed B/Harbor Brook IRM
-  East Wall Portion of the Wastebed B/Harbor Brook IRM
-  Geddes Brook/Ninemile Creek Site Operable Unit 2 (OU2)
-  Geddes Brook/Ninemile Creek Site Operable Unit 1 (OU1)

