

ONONDAGA LAKE NPL SUBSITE EVALUATION

1. SITE NAME	
Honeywell - Wastebeds 9-15	
2. RECOMMENDATION	DATE
Subsite _____ Not Subsite <input checked="" type="checkbox"/> Potential Subsite _____	June 22, 2000
3. LOCATION OF SITE (Site location map attached)	
Towns of Geddes and Camillus, New York	
4. BRIEFLY DESCRIBE THE SITE	
<p>This 670 acre site is a series of massive waste mounds (during use, they were liquid waste lagoons) which received process wastes from Allied Chemical's (predecessor to Honeywell) manufacturing operations from 1944 to 1986. These waste mounds are located adjacent to Ninemile Creek, a major tributary to Onondaga Lake. The major portion of this waste is nonhazardous calcium carbonate/chlorides from the manufacturing of soda ash using the Solvay Process. In addition, wastes from the Bridge Street Chlor-alkali plant and from the chlorinated benzene manufacturing at the Willis Avenue plant were disposed at this site. Wastes from the Bridge Street plant consisted of spilled materials, mercury, asbestos, lead, and wash water. Wastes from the Willis Avenue plant included asbestos, wash water, spilled materials, lead, mercury, and occasional still bottoms from the chlorinated benzene plant (PTI, 1992). The still bottoms are described as heavy organic residue consisting primarily of tetra- and tri-chlorobenzenes.</p> <p>Other substances disposed at the site include fly and bottom ash from the plants, sewage sludge from the County, Anheuser-Busch brewery sludge, and brine purification muds. Wastebed 15 also received demolition debris from the AlliedSignal main plant facility decommissioning from 1986 to 1988, as well as demolition debris and soil from the main plant between 1988 and 1998. A portion of the old Erie Canal, which lies beneath Wastebed 15, was used as a landfill and filled with municipal waste prior to 1974 by the Town of Camillus. Some of this municipal waste was removed from the areas where the eastern and western dikes (associated with wastebed construction) cross the former canal.</p> <p>The site was recently classified as a Class 3 site on the New York State Registry of Inactive Hazardous Waste Sites. A Class 3 classification indicates that hazardous wastes have been disposed of at the site but that the site does not present a significant threat to public health and the environment.</p> <p>Site Work Completed to Date: ()Phase I ()Phase II (X) PSA ()RI/FS ()PA/SI (X)Other: PRP and NYSDEC sampling and other investigations</p>	
5. IS THERE A KNOWN RELEASE OF HAZARDOUS SUBSTANCES TO THE ENVIRONMENT? Yes <input checked="" type="checkbox"/> No _____ Potential _____	
Is the release historic or ongoing? Hazardous substances have been disposed in the Wastebeds and some contaminants at elevated levels were detected in samples collected from on-site groundwater monitoring wells and seeps.	
6. IS THE RELEASE INTO THE LAKE OR A TRIBUTARY? Yes <input checked="" type="checkbox"/> No _____ Potential _____	
What is the location and nature of the release? Sampling of the sediments and surface water in seeps and swales, and in Ninemile Creek, detected elevated concentrations of some site-related contaminants. However, the hexachlorobenzene detections in Ninemile Creek may be a result of contamination from the upstream Bridge Street (LCP) plant. Furthermore, mercury detections in Ninemile Creek are likely either a result of operations at the Bridge Street (LCP) Plant or <u>historical</u> releases from the wastebeds. It is important to note that the portions of Geddes Brook (a tributary to Ninemile Creek) and Ninemile Creek that are downstream of the Bridge Street (LCP) Plant site (extending from the West Flume to Onondaga Lake) are the subject of an ongoing Remedial Investigation/Feasibility Study being performed by Honeywell.	
7. IS THERE A THREAT OF RELEASE INTO THE LAKE OR A TRIBUTARY? Yes <input checked="" type="checkbox"/> No _____ Potential _____	
What is the location and nature of the threat? Ninemile Creek is immediately adjacent to the site. Leaching and erosion of waste material is possible. However, based on the available data, the potential impacts to Ninemile Creek and Onondaga Lake appear to be minimal.	
8. HAZARDOUS SUBSTANCES/WASTES ASSOCIATED WITH THE SITE	
The Supplemental Site Investigation detected the following compounds at the site: Ammonia, mercury, chlorinated benzenes, benzene, toluene, lead, and other organic and inorganic contaminants. Hazardous waste disposal included unknown amounts of waste from chlorine production using diaphragm cells (K073) and still bottoms from the production of chlorobenzenes (K085).	
9. ANALYTICAL DATA AVAILABLE	
()Air (X)Groundwater (X)Surface Water (X)Sediment ()Soil (X)Waste (X)Leachate	
The Supplemental Site Investigation detected the following parameters in the groundwater, sediment, and surface water.	
The following provides a range of reported concentrations (from the August 1999 Supplemental Site Investigation report) for a number of the contaminants which exceeded the applicable standard, guidance value, or criteria for a given medium:	
Groundwater (Collected from monitoring wells at, and in the immediate vicinity of, the wastebeds): Acetone: 2.5 to 580 µg/L (guidance value is 50 µg/L), benzene: 2.6 - 37 µg/L (standard is 1 µg/L), chlorobenzene: 7.4 - 46 µg/L (standard is 5 µg/L), toluene: 1 - 9.7 µg/L (standard is 5 µg/L), dichlorobenzenes: 1.4 - 39 µg/L (standard is 3 µg/L for each isomer), phenols: 2.0 - 2600 µg/L (standard is 1 µg/L), mercury: 0.2 - 0.6 µg/L (standard is 0.7 µg/L), and ammonia: 60 - 50,000 µg/L (standard is 2,000 µg/L).	
Sediment (In swales adjacent to the wastebeds): phenols -total unchlorinated: ND to 4.75 mg/kg (Note that sediment criteria for organic contaminants are dependent on Total Organic Content (TOC). TOC data are available for only a subset of the sediment samples collected from the swales and Ninemile Creek.), arsenic: 3.5 - 14 mg/kg (NYSDEC Lowest Effect Level (LEL) is 6.0 mg/kg), cadmium: 0.2 - 0.99 mg/kg (LEL is 0.6 mg/kg), chromium: 10 - 30.2 mg/kg (LEL is 26 mg/kg), lead: 8 - 41.5 mg/kg (LEL is 31 mg/kg), mercury: 0.05 - 0.66 mg/kg (LEL is 0.15 mg/kg), zinc: 33.7 - 121 (LEL is 120 mg/kg), copper: 16.9 - 50.3 mg/kg (LEL is 16 mg/kg), and nickel: 11 - 24.7 mg/kg (LEL is 16 mg/kg).	

Sediment (In Ninemile Creek): mercury: 0.09 - 5.6 mg/kg (NYSDEC Severe Effect Level is 1.3 mg/kg), copper: 19 mg/kg (LEL is 16 mg/kg), and nickel: 13 - 19 mg/kg (LEL is 16 mg/kg). Note that it is not known whether the mercury detections are a result of the upstream Bridge Street (LCP) historical plant operations or if they are related to historical (i.e., during site operations) releases from Wastebeds 9 to 15. While hexachlorobenzene was detected at elevated concentrations (11 and 20 mg/kg) at two sampling intervals at one sampling location in Nine Mile Creek, the absence of TOC data precluded the derivation of a sediment criteria value. However, based on data from an investigation of the upstream Bridge Street (LCP) plant site, the hexachlorobenzene appears to be related to that plant site.

Surface Water (In swales adjacent to the wastebeds): benzene: 1.0 to 11 µg/L (standard is 10 µg/l), phenols: 2 - 28 µg/L (standard is 5 µg/l), mercury: ND to 0.21 µg/L (standard is .0007 µg/l), and ammonia: 100 to 5,500 µg/l (standard is not available as it varies as a function of pH and temperature).

10. EXPLANATION OF RECOMMENDATION

While hazardous wastes have been disposed at the site, the available site data indicates that the site does not present a significant risk to Ninemile Creek and Onondaga Lake. Therefore, the site should not be a subsite of the Onondaga Lake NPL Site.

11. RECOMMENDATIONS FOR FURTHER ACTION

No further action needed under the Onondaga Lake NPL Site Remedial Program. Refer this NYS Registry Class 3 Site to NYSDEC Division of Solid and Hazardous Materials for proper closure.

12. SITE OWNER'S NAME

Honeywell International, Inc.

13. ADDRESS

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14. TELEPHONE NUMBER

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