

NOAA Hazardous Waste Site Report

T. Fiore Demolition, Inc. Site (II-33)
Newark, New Jersey
April 13, 1984

Location and Nature of Site:

The T. Fiore Demolition, Inc. site is located about one mile from Newark Bay on filled marshland in a heavily industrialized residential section of Newark, New Jersey (Figure 1). The site is one mile from the Newark Airport and borders on the New Jersey Turnpike and an unnamed stream which flows into Newark Bay.

The site was a landfill facility used to dispose of solid and liquid wastes until it was abandoned in 1976. The site is unlined and not diked. It is estimated that there are over 20,000 gallons of "oily" wastes and other wastes characterized as "unknowns" present on-site.

Effluent from the site enters Newark Bay in surface water runoff. There is a noticeable odor present in the air around the site. Illegal dumping is believed to occur at the site. Security precautions are non-existent or inadequate to prevent illegal dumping or limit site access.

Proximity of Chemical Hazard to Marine Resources:

Surface water and chemical leachate drainage from the site is known to empty into Newark Bay. A site inspection conducted by EPA in 1972, noted the presence of a dark brown leachate from the site entering a drainage ditch which flows into Newark Bay. The inspection report indicates that this leachate release "has probably contributed to the degradation of Newark Bay." (7) It is not apparent from available EPA file information, however, if this reported leachate release was in fact a point-in-time emission or representative of a continual source of pollution. There are no sample data in EPA files available to determine the type and extent of chemical release.

In a separate action, the U.S. Coast Guard in 1979 conducted a cleanup in Newark Bay of about 10,000 gallons of spilled waste oil attributed to a discharge from the Fiore site. Information was not available to establish the possibility of chemical contamination of this oil.

Groundwater in the area of the site is tidally influenced and has a net flow towards Newark Bay. The groundwater resource currently used in a variety of industrial processes has been contaminated by chemical leachate from the site, however, EPA files provide no data to clarify the extent of subsurface pollution.

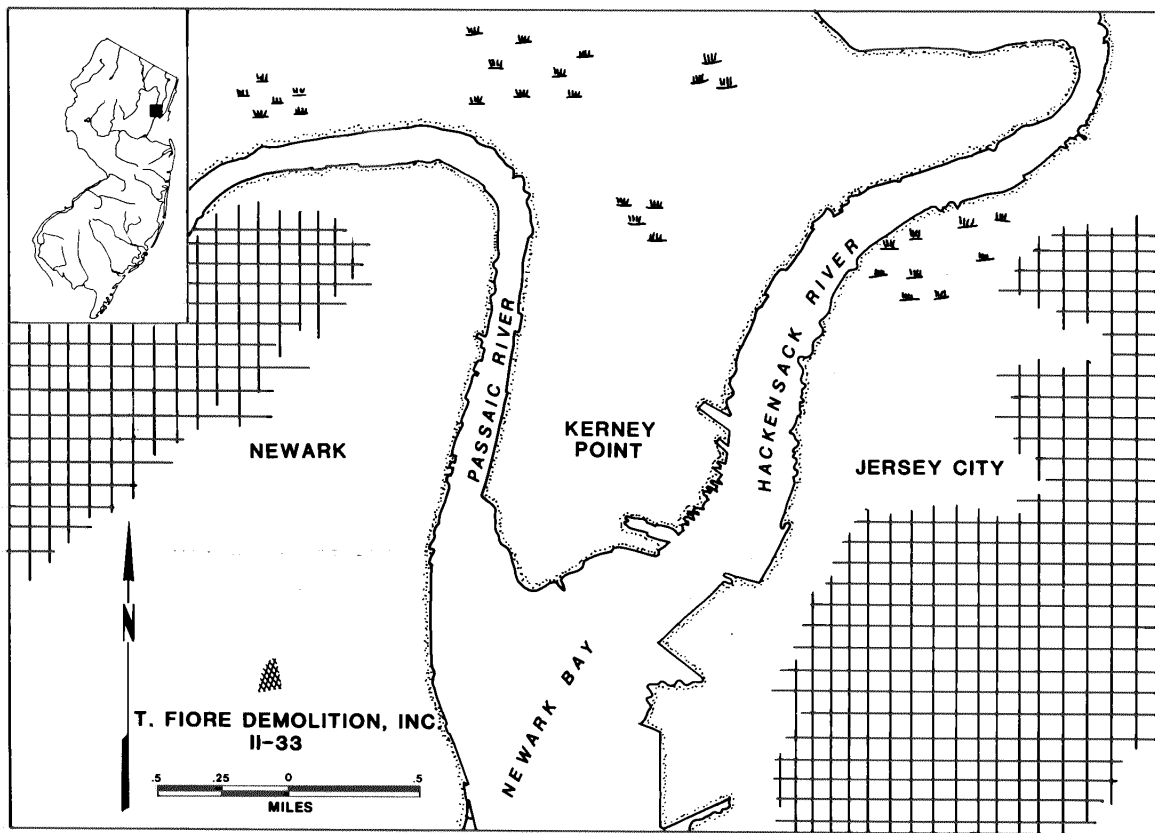


FIGURE 1. Site location.

Marine Resources at Risk:

Newark Bay is located on the migratory routes of some anadromous fish species as they run up the Passaic or Hackensack Rivers. These are not primary spawning or nursery areas.

The Newark Bay area is very heavily developed and does not serve as a primary spawning or nursery habitat for anadromous fish or shellfish. Some anadromous fish enter this area during spawning runs, and several species of fish are present all year as adults or larvae (2).

There has been a long history of declining anadromous fish runs in New Jersey, dating back to the late 1800's. There are confirmed runs of herring in the Hackensack River, but the American shad is considered extirpated from both the Hackensack and Passaic Rivers (6).

The southwest corner of Newark Bay is a wintering area for waterfowl, and at Shooters Island there is a wading bird nesting colony.

Table 1. Fishery Resources of Newark Bay (1-4)

<u>Finfish</u> Species	Adult Habitat	Spawning Area	Nursery Area	Comm. Fish.	Rec. Fish.	Migr. Route
<u>Anadromous</u>						
Alewife						x
Blueback herring						x
Tomcod						x
Striped bass			x			x
<u>Non-anadromous</u>						
White perch	x					
Flounder	x					
Bluefish	x		x			
Spot	x		x			
Northern kingfish	x					
<u>Shellfish</u>						
Blue crab	x		x		x	

Summary of Site-Related Actions:

Several inspections have been conducted by EPA for the purposes of evaluating conditions at the site. New Jersey scheduled an action feasibility study to begin in late 1983, however, there was no information in EPA files documenting this planning effort.

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References:

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2. U.S. Fish and Wildlife Service, 1982. Assessment of Resources of Newark Bay.
3. U.S. Fish and Wildlife Service, 1980. Atlantic Coast Ecological Inventory.
4. Breder, C.M. and D.E. Rosen, 1966. Modes of Reproduction in Fishes. TFH Publications.
5. Research Planning Institute. Environmental Sensitivity Index - New Jersey. Unpublished.
6. Zich, H.E., 1977. The collection of existing information and field investigation of anadromous clupeid spawning in New Jersey. New Jersey Department of Environmental Protection Misc. Report No. 41.
7. U.S. Environmental Protection Agency, 1982. Potential Hazardous Waste Site Inspection Report. September 24, 1982.
8. U.S. Environmental Protection Agency, 1979. Hazardous Waste Site Survey Record. August 16, 1979.