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FACT SHEET REGARDING HEAVY EQUIPMENT TRAINING AREA LANDFILL PROPOSED  
RESTORATION SITE 5 NCBC GULFPORT MS  
5/13/2008  
NCBC GULFPORT

# Heavy Equipment Training Area Landfill (Site 5) Restoration Proposal

## NCBC GULFPORT INSTALLATION RESTORATION PROGRAM

### Summary

This Fact Sheet summarizes the Navy's proposal to cover a former landfill and line an adjacent ditch on the Heavy Equipment Training Landfill, Site 5, located on NCBC Gulfport. This remedy would prevent contact with contaminated surface soil, minimize rainfall passing through the soil, and prevent transport of contaminants by erosion. Lining of the adjacent ditches would prevent erosion of soil and waste and reduce the flow of groundwater into the ditch.



Site 5 is a 6-acre former landfill located in the southwest corner of NCBC Gulfport which is currently being used for heavy equipment training.

### Heavy Equipment Training Area Landfill (Site 5)

#### Background

Site 5, the Heavy Equipment Training Landfill, is a 6-acre site located in the southwest corner of NCBC Gulfport, approximately 40 feet west of the base boundary and 50 feet north of base housing. An open ditch runs along the south and southwest perimeter of Site 5.

The site is a former landfill that operated from 1972 to 1976. The landfill received solid waste such as construction debris, dumpster waste, and general refuse. It also received an unknown quantity of liquid waste. After the landfill closed in 1976, the site was covered with 4 to 6 feet of sand and used as a heavy equipment training area.

Site 5 was discovered in the mid-1980's as part of the Initial Assessment Study. Additional samples were collected in 1997 as part of a base-wide study. At that time, dioxins were detected in groundwater samples collected beneath the site. This study was followed by a Remedial Investigation in 2001 and 2002 and a follow-up surface soil study in March 2006.

#### The Remedial Investigation (RI)

The RI included groundwater, surface and subsurface soil sampling over the landfill and surface water and sediment sampling in the adjacent ditch. The studies found low concentrations of dioxins in the surface and subsurface soils. Arsenic, a naturally and

commonly occurring cancer-causing (carcinogenic) element was found in the surface soil. Benzo (a) anthracene (a carcinogenic compound formed by burning gasoline, garbage, or any plant or animal material) was found in at low concentrations in the groundwater beneath the site.

A risk assessment completed as part of the RI concluded that exposure to soil at groundwater at Site 5 would pose an unacceptable risk to humans only if housing were developed at this site. Further, ecological risks were determined to be minimal because of the quality, size, and actual use of the site. Covering the landfill and lining the ditch were recommended to prevent potential future releases from the site.

## Evaluation of the Cleanup Alternatives

### The Feasibility Study and Proposed Plan for Site 5

A Feasibility Study (FS) was completed to evaluate possible cleanup remedies for Site 5. Because conditions at the site were determined to be similar to a typical municipal landfill, the federal EPA's "Presumptive Remedy" approach was used to streamline the cleanup process. Using the streamlined process, only two remedies needed to be evaluated in the FS: No Action (Alternative 1) and the Presumptive Remedy (Alternative 2) as described below.

#### Alternative 1: No Action

A No Action alternative is always used as a baseline for comparison with other alternatives. This option assumes that no changes would be made to the existing conditions at the site.

#### Alternative 2: Capping, Ditch Lining, Land Use Controls, and Monitoring

The recommended alternative for Site 5 includes:

- Covering the landfill with a cap to prevent contact with contaminated surface soil, minimize rainfall passing through the soil, and prevent transport of contaminants by erosion;
- Excavating and lining the ditch with grouted rock to prevent erosion of soil and waste and to reduce the flow of groundwater into the ditch;
- Preventing future residential development and groundwater use at the site; and
- Monitoring the site by collecting landfill gas samples and groundwater samples, and inspecting the site to check the integrity of the cap.

More information about Site 5 and the Preferred Alternative is available in the Proposed Plan and associated documents. These documents are available for review in the Information Repository. Copies of the Proposed Plan are available from Gordon Crane, the NCBC Gulfport Installation Restoration Program Manager.

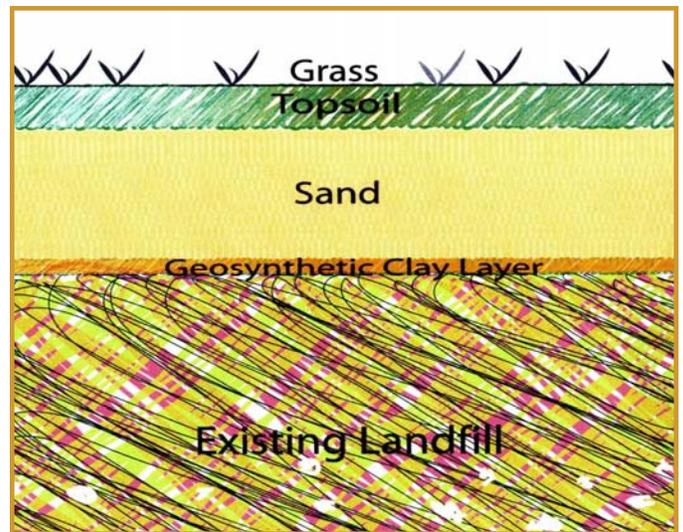
For more information please contact Gordon Crane

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The ditch adjacent to Site 5 would be excavated and lined with rip rap to slow down erosion and reduce groundwater flow.



A key component of Alternative 2 is a landfill cover composed of layers similar to those shown in this diagram. The cover would allow the site to be used for recreational activities.

## The Information Repository

The NCBC Gulfport Information Repository contains the Heavy Equipment Training Landfill (Site 5) Proposed Plan and supporting documents. The Information Repository is temporarily located at the:

*Gulfport Public Library (temporary location)  
47 Maples Drive #1  
Gulfport, MS 39507  
(228) 871-7171*

## The Public Comment Period

The Site 5 Proposed Plan is available for your review and comments during the Public Comment Period from May 13 through June 13, 2008.

Comments on this proposal may be provided in writing to:

*Mr. Gordon Crane  
Installation Restoration Program Manager  
2401 Upper Nixon Avenue  
Gulfport, MS 39501*