

NPL Site Narrative for Brantley Landfill

BRANTLEY LANDFILL Island, Kentucky

Conditions at proposal (June 24, 1988): Brantley Landfill covers 4 acres on the west side of Island, McLean County, Kentucky. In 1979, Doug Brantley & Sons, Inc., received a State solid waste permit for disposal of secondary dross (a by-product of aluminum recycling) from Barmet Aluminum Corp.'s smelter in Livia, Kentucky. According to Barmet, the Brantley Landfill contains 250,000 tons of aluminum dross. Dross contains heavy metals (including barium, cadmium, chromium, lead, copper, and manganese) and reacts violently with water to form several gases, including ammonia. The landfill closed in October 1980.

The Kentucky Division of Air Pollution Control (KDAPC) has received numerous complaints of ammonia odor from residents in the area. EPA detected ammonia in the air around the site during an inspection in December 1986. KDAPC has cited Doug Brantley & Sons for odor and dust emissions from this facility. Approximately 60 persons live within 0.25 mile of the site and could be affected by release of contaminants into the air.

The waste was deposited below the water table, thus threatening ground water. An estimated 2,000 people obtain drinking water from public and private wells within 3 miles of the site. A private well is 2,600 feet from the site.

Status (February 21, 1990): Barmet contested the proposed listing of the site and filed a civil action against EPA and the State on November 8, 1988 in the U.S. District Court. In November 1988, Barmet also filed for a Temporary Restraining Order to (1) keep EPA from placing this site and the Fort Howard Coal Co., Inc., Stone Quarry on the final NPL until their comments had been addressed and (2) keep EPA from sending letters to other parties potentially responsible for wastes associated with the sites informing them of their potential liability. After the request for this order was denied, EPA sent the letters.

On January 10, 1990, EPA and Barmet signed an Administrative Order on Consent under CERCLA Sections 104(a)(1) and 122(d)(3). Under this order and with EPA oversight, Barmet will conduct a remedial investigation/feasibility study to determine the type and extent of contamination at the site and identify alternatives for remedial action.

For more information about the hazardous substances identified in this narrative summary, including general information regarding the effects of exposure to these substances on human health, please see the Agency for Toxic Substances and Disease Registry (ATSDR) ToxFAQs. ATSDR ToxFAQs can be found on the Internet at [ATSDR - ToxFAQs](http://www.atsdr.cdc.gov/toxfaq/index.asp) (<http://www.atsdr.cdc.gov/toxfaq/index.asp>) or by telephone at 1-888-42-ATSDR or 1-888-422-8737.