

DAWNBAR

OK.23

PRELIMINARY SURVEY OF THE FORMER GRASSELLI
RESEARCH LABORATORY OF E.I. DUPONT DE NEMOURS AND COMPANY
Cleveland, Ohio

Work performed
by the
Health and Safety Research Division
Oak Ridge National Laboratory
Oak Ridge, Tennessee 37830

March 1980

OAK RIDGE NATIONAL LABORATORY
operated by
UNION CARBIDE CORPORATION
for the
DEPARTMENT OF ENERGY
as part of the
Formerly Utilized Sites--
Remedial Action Program

FORMER GRASSELLI RESEARCH LABORATORY
E.I. DUPONT DE NEMOURS AND COMPANY
Cleveland, Ohio

At the request of the Department of Energy (DOE, then ERDA), a preliminary survey was performed at a building now owned by Standard Oil Company of Ohio and located at 3092 Broadway Avenue in Cleveland, Ohio (see Fig. 1), on October 27, 1976, to assess the radiological status of those facilities utilized under Manhattan Engineer District (MED) contract during the early 1940s. The facilities (shown in Fig. 2) were owned by E.I. duPont de Nemours Company at the time contract work was performed. At that time, these facilities were known as Grasselli Research Laboratory. Information about the MED project and escort through the facility was provided by G. Spillan of SOHIO, E. A. Spearing of duPont, and F. W. Biehl of the Cleveland Regional Sewer District.

From information obtained in discussions and correspondence with Spearing, the project activities apparently involved chemical treatment of natural uranium slugs (2.5 x 15 cm cylinders) received from Battelle Laboratories and then returned to the University of Chicago after treatment. At the conclusion of the program, apparently the area was cleaned and the remaining uranium slugs were shipped to the University of Chicago. No information was available pertaining to the radiological status of the facility at the conclusion of the project.

Present Use of the Facility

The duPont Company sold the land and building to SOHIO in 1950. Since that time, SOHIO has leased the facility to the Cleveland Regional Sewer District, Cleveland, Ohio.

Results of Preliminary Survey

The preliminary survey was conducted by F. F. Haywood of the Oak Ridge National Laboratory and W. T. Thornton of the Department of Energy-Oak Ridge Operations Office (then ERDA). A survey of the entire three-story laboratory and bay complex was performed consisting of direct alpha measurements made on surfaces using a portable alpha scintillation

survey instrument and beta-gamma dose-rate measurements made at 1 cm from surfaces using a portable Geiger-Mueller survey meter. Additionally, an old paint scale sample was removed from a wall and analyzed for beta-gamma contamination in an area where an elevated reading was observed.

All survey measurements were within typical background levels for this region. The paint scale did not have beta-gamma activity significantly above background levels. Although no information is available about the radiological status of the facility at the time contract operations ceased, it is concluded that no additional measurements are required at this site.

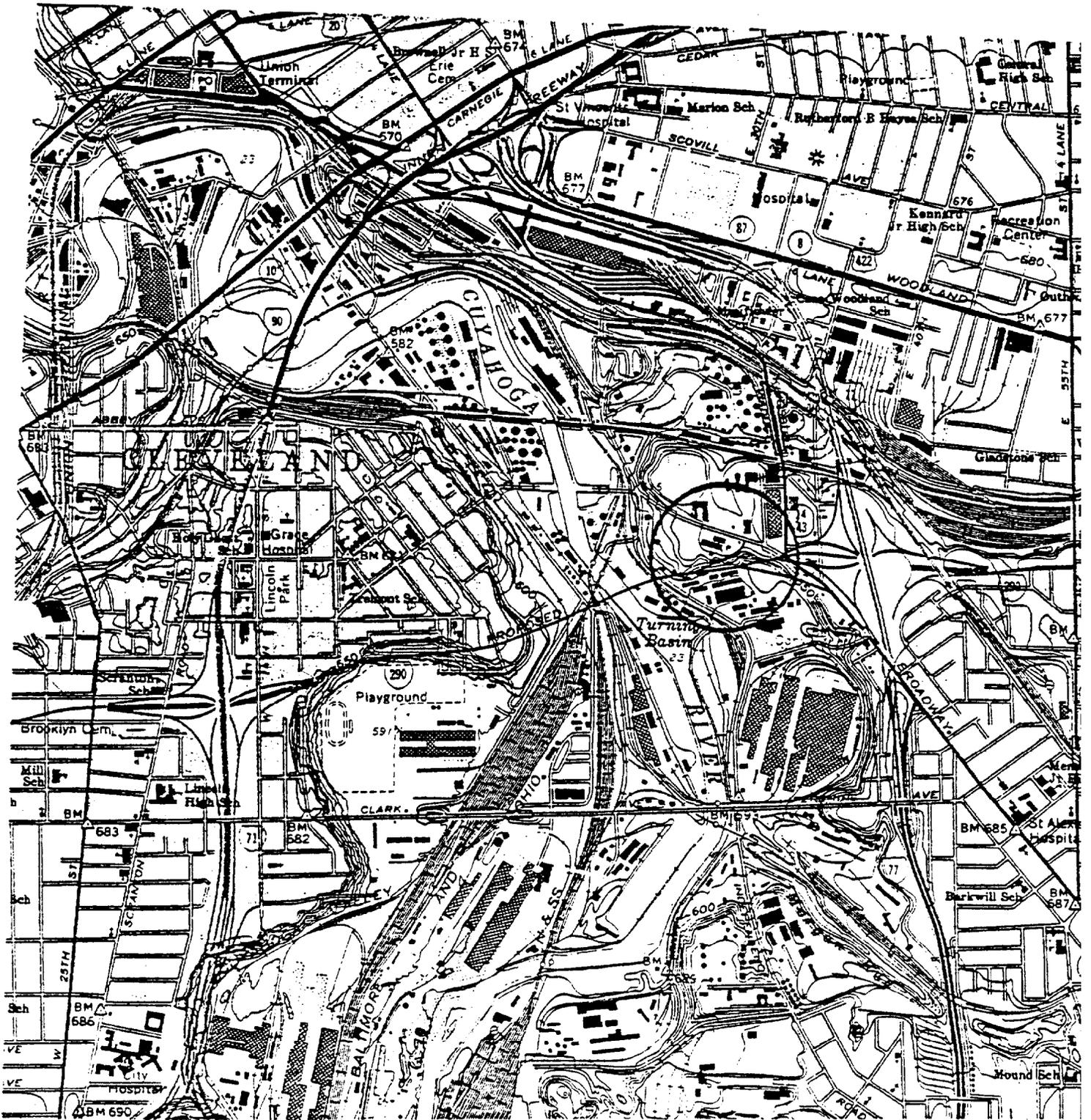


Fig. 1. Location of the former Grasselli Research Laboratory at the E.I. duPont Nemours and Company in Cleveland, Ohio.



Fig. 2. Photograph indicating (by arrow) location of laboratory facility.

JAN 7 1986

Mr. Ken Blower, Manager
Corporate Environmental Affairs
Standard Oil Company of Ohio
Midland Building
Cleveland, Ohio 44115

Dear Mr. Blower:

The Department of Energy (DOE), as part of its Formerly Utilized Sites Remedial Action Program (FUSRAP), has reviewed information on the former DuPont Grasselli Research Laboratory (now Standard Oil Company of Ohio) to determine whether it contains residual radioactivity traceable to activities conducted on behalf of the Manhattan Engineer District and the Atomic Energy Commission (predecessors to DOE). A radiological survey of the area utilized for Manhattan Engineer District activities indicated that the radiation levels are equal to natural background. Therefore, no remedial action is required, and DOE is eliminating the site from further consideration under FUSRAP.

The information supporting this decision will be archived by DOE, and a copy of the elimination report will be available for public review between 8:00 a.m. and 4:00 p.m., Monday through Friday (except Federal holidays), at the DOE Public Document Room located in Room 1E-190 of the Forrestal Building, 1000 Independence Avenue, S.W., Washington, D.C.

If you have any questions regarding this decision, please call me on 301-353-4716.

bcc:
E. Keller, OR
B. Berven, ORNL
S. Miller, GC-11
[REDACTED]

Baublitz RF
NEG (4)

cc:
Robert M. Quillan
Ohio Dept. of Health

Sincerely,

Edward G. DeLaney, Director
Division of Facility and Site
Decommissioning Projects
Office of Nuclear Energy

NE-23:AWhitman:ph:353-5439:1/7/86:IBM:298/27:3.35

CONCU
RTG SY
NE-2
INITIALS
Whit
DATE
1/
RTG SY
NE-2
INITIALS
DeLa
DATE
1/
RTG SY
INITIALS
DATE
1/
RTG SY
INITIALS
DATE
1/
RTG SY
INITIALS
DATE
1/
RTG SY
INITIALS
DATE
1/
RTG SY
INITIALS
DATE
1/