



EXPLANATION
Additional information is contained in a
leaflet accompanying this map.

MINERAL INDUSTRY MODIFICATIONS

SM
**SURFACE (STRIP) MINE,
NOT RECLAIMED**
Primarily coal but includes
some developed for sand-
stone and limestone; high-
wall indicated by hachured
line.

SMh
SURFACE MINE, RECLAIMED
Modified primarily for hous-
ing, educational, commercial,
and industrial development.

Sub
MINE SUBSIDENCE
Areas in which surface pat-
terns are indicative of mine
subsidence (based in part on
1939 aerial photographs).

MF
MINE AND COAL BED FIRES
Includes areas of active, con-
trolled, and extinguished fires;
fires generally confined to vi-
cinity of outcrop of coal seam
(crop fire). (Based on data
from U.S. Bureau of Mines).

RB
REFUSE BANKS
Primarily coal waste; most
banks have burned and are
now ash and clinkers (red
dots).

Q
QUARRIES AND PITS
Active and abandoned rock
quarries and gravel pits.

E
OTHER EXCAVATIONS
Primarily borrow pits.

**LAND DEVELOPMENT
MODIFICATIONS**

H
URBAN DEVELOPMENT
Land modified for housing,
commercial, educational,
and industrial uses. Modi-
fications, primarily after
1969, include: removal of
vegetation; removal and re-
distribution of topsoil; some
excavation of bedrock at in-
dustrial and commercial de-
velopments; and placement
of impervious streets and
parking lots. Major fills
symbolized separately.

M
**PREDEVELOPMENT
MODIFICATION**
Primarily removal of vegetation
and removal and redistribution
of topsoil; ultimate land use
not identified during investi-
gation.

T
**LAND MODIFIED FOR
TRANSPORTATION**
Primarily highway construction.
Modifications, primarily after
1969, include extensive deep
excavations, shallow fills, and
redistribution of topsoil; local
removal of structures. Major
fills and steep cuts symbol-
ized separately.

F
EARTH AND ROCK FILLS
Primarily at industrial, com-
mercial, educational, and hous-
ing sites and along transpor-
tation routes; old fills in urban
areas and narrow yard fills
adjacent to houses generally
not mapped.

NV
**NEARLY VERTICAL CUTS
AND CLIFFS**
Primarily cuts along highways
and adjacent to commercial
and industrial sites; includes
highwalls in surface mines and
some natural cliffs.

OTHER MODIFICATIONS

W
WATER IMPOUNDMENTS
Primarily farm ponds, reser-
voirs, and settling basins; dams
generally too small to be shown
on this map.