

Mined Land Inventory 2006 of Prince George's County, Maryland

Compiled by the Maryland Geological Survey
In cooperation with the Maryland Department of the Environment
2006

Digital compilation by Heather Quinn of the Maryland Geological Survey and Sacha Lanham and Catherine Luckhardt of the Towson University Center for GIS

Scale 1:62,500



Geologic Legend*

Quaternary	Holocene	Qal	ALLUVIUM
	Pleistocene	Qp	TERRACE DEPOSITS
	upper Miocene - Pliocene	Tu	UPLAND DEPOSITS
lower and middle Miocene	Tc	CAUVERT FORMATION	
	Ta	NANJEMOY FORMATION	
Tertiary	Tm	MARLBORO CLAY	
	Ta	AQUIA FORMATION	
lower Paleocene	Tks	BRIGHTSEAT/SEVERN FORMATIONS, undivided	
	Kps	POTOMAC GROUP Sand-gravel facies	
Upper Cretaceous	Kpc	POTOMAC GROUP Silt-clay facies	
	Ca	LAUREL FORMATION	
Cretaceous			
Cambrian			

* See geologic map for detailed lithologic descriptions of geologic units. Abbreviated descriptions are included as a feature attribute of digital geologic layer.

Description of Mined Land Inventory 2006 and Quarry Access Roads Locations

This map is an inventory of the recent and on-going mineral operations in Prince George's County, Maryland, as of 2006. The base map upon which the 2006 mine inventory is shown is a modified version of the Geologic Map of Prince George's County by Glaser (2003). Both maps were developed digitally for use in geographic information systems (GIS). The GIS files have associated data tables that include additional information not displayed on the map layout. The GIS files are available from the Maryland Geological Survey.

Locations of historic mining activities prior to 1980 are shown on a separate map, Historic Mined Land Inventory of Prince George's County, modified from Kuff (1980) into digital format in 2003. Some of these historic quarries may still be in production, although ownership and permit may have changed.

A new inventory of surface mining permits in Prince George's County was conducted jointly by the Maryland Department of the Environment and Maryland Geological Survey beginning in 2002. The quarry sites were located based on maps and site descriptions included in the State surface mining permit applications. Using this information, the quarry access roads were located in the field. The juncture where the quarry haul road appeared to meet a public road was recorded using a GPS (global positioning system). Locations of quarries were field checked to the extent feasible during the access road location.

More than one surface mine may be associated with the same access road juncture location. Some permits may not have an associated access road juncture because an access road may not have been apparent during the field inspection, particularly in cases where the permit was long closed, the site was reclaimed, or the permit was recently issued.

Additional data compilation and follow-up on mining permits were conducted in 2005 and 2006. Sources of surface mine permit data include Maryland Geological Survey directories and inventories of mineral producers (Brooks, 1990; Edwards, 1995 and unpublished) and the permit files, extractions from databases, and recent aerial photography at the Maryland Department of the Environment.

On this map the general location of a quarry is represented by a point within the quarry boundaries and is not indicative of the extent of the quarried or permitted area. Where records indicated a quarry was permitted and/or mined in sections and sufficient location information existed, each section is represented by a separate point and, in the associated GIS data table, each is identified by the code for the related permit modification or subsection. Some data associated with the surface mine permits are incorporated into attribute tables that are part of each GIS layer that make up this map. (For more detailed information, see metadata of each digital layer.)

This map shows 125 quarry locations that correspond to 112 surface mine permits. Thirty-nine (39) of the quarry sites are considered active and 13 additional quarry sites, while still under active permits, are considered largely or wholly reclaimed. The remaining quarry sites (73) shown are closed and reclaimed, but the surface mine permits were still on file at MDE as of 2002.

The resources being extracted as of the time of this inventory are primarily sand and gravel. Sand and gravel are being mined from the Upland deposits and the sand-gravel facies of the Potomac Group. In areas where the Upland deposits are least dissected (mainly in southern part of the county), the sand-gravel interval in the Upland deposits may be overlain by up to 15 feet of silt loam soils that contain hardpan in places (see the geologic map for more information). The rest of the resources being extracted in the county are clay and fill from the silt-clay facies of the Potomac Group.

Periodic revisions and updates to the mined land inventory data layers may occur. Contact the MGS Publications Office or check the MGS website for the current version number.

Map References:

Brooks, J.R., 1990. Directory of Mineral Producers in Maryland - 1989. Maryland Geological Survey, Information Circular No. 49, 56 p.

Edwards, J., Jr., 1996. Directory of Mineral Producers in Maryland - 1995. Maryland Geological Survey, Information Circular No. 53, 61 p.

_____, unpublished. Compilation of mining activities in Prince George's County 1966 - 1996. Maryland Geological Survey.

Glaser, J. D., 2003. Geologic Map of Prince George's County, Maryland. Maryland Geological Survey, scale 1:62,500 (digital version PGGE02003.2).

Kuff, K. R., 1980. Historic Mined Land Inventory of Prince George's County. Maryland Geological Survey, scale 1:62,500 (digital version PGMINE2003.2).

Supplemental Information

Use Constraints: These data represent the results of data collection/processing for a specific Department of Natural Resources, Maryland Geological Survey activity and indicate general existing conditions. As such, they are only valid for the intended use, content, time, and accuracy specifications. The user is responsible for the results of any application of the data for other than their intended purpose. The Maryland Geological Survey makes no warranty, expressed or implied, as to the use or appropriateness of the data, and there are no warranties of merchantability or fitness for a particular purpose of use. The Maryland Geological Survey makes no representation to the accuracy or completeness of the data and may not be held liable for human error or defect. Geologic data are only valid at 1:62,500 scale. Data should not be used at a scale greater than that.

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The field survey of surface mining permit information and quarry access roads for this county was completed by Jamie Gerhart and Dale Shotton of the Maryland Geological Survey and William D. Richardson and Herman Twining of the Maryland Department of the Environment in 2002. Additional permit information was provided by Matt Kistall and Pete Yencsik of the Maryland Department of the Environment.

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Base map is a modified version of the Geologic Map of Prince George's County (Glaser, 2003) published by the Maryland Geological Survey (digital version PG2003.2).

Fluorometric components compiled and extracted from:
U.S. Geological Survey (USGS):
National Hydrologic Dataset (NHD), high resolution, for hydrographic features
NHD high resolution dataset generally developed at 1:24,000 (1:12,000 scale)
Geographic Names Information System (GNIS) database for cultural feature/place names shown

Maryland State Highway Administration (MD SHA)
MD Cooperative Corridorline Program, Prince George's County except (2006) for transportation features
Original dataset developed at 1:12,000 scale

Estimated 2006 magnetic north declination (center of county): 10 degrees 47 minutes west
(To determine current magnetic declination see: <http://www.nga.mn.gov/eng/geomag/ipp/Declination.jsp>)

Current map projection:
Maryland State Plane Coordinate System 1987
(Projection: Lambert Conformal Conic, 1987 geodetic reference system)
(Horizontal Datum: North American Datum 1983)

State Plane 2000 meter grid lines and coordinates shown in black
Geographic coordinates (latitude/longitude) shown near corners and 2.5' intervals also shown in black with larger font

Explanation of Map Symbols

Geologic Symbols	Hydrologic Symbols
— Contact, approximate, gradational, or inferred	● Reservoir, treatment
— Access road juncture	○ Gaging Station
✕ Active permit	— Dam/Weir, noncarthen
✕ Active permit, site largely under reclamation	— Stream, Connector
✕ Closed and reclaimed	— Stream, intermittent
— County Boundary	— Shore, noncarthen
— Major roads	— Aqueduct; pipeline
— Secondary roads	— Dump Site, operational
	— Foreshore
	— Lake/Pond, intermittent
	— Water body (including lakes, ponds, streams)
	— Reservoir
	— Swamp/Marsh