December 31, 2025

GeMS Transmittal Letter for the Geologic Map of the Sang Run Quadrangle, Garrett County, Maryland.

1. Full bibliographic citation for the published map.

Kavage Adams, R., 2025. Geologic Map of the Maryland Portion of the Sang Run Quadrangle, Garrett County, Maryland. Maryland Geological Survey, Quadrangle Geologic Map, scale 1:24,000.

1. URL to its NGMDB Product Description Page.

<https://ngmdb.usgs.gov/Prodesc/proddesc_104936.htm>

1. Is the GeMS database considered to be:

Update of the publication, and GeMS conversion.

1. URL where users may access the GIS files from the State Survey site.

MGS publications page: <http://www.mgs.md.gov/publications/maps.html>

1. Indicate whether GeMS level One, Two, or Three

Level 3

1. High-resolution PDFs of published map and other oversize sheets.

PDF included in map folder.

1. High-resolution PDFs of published report or pamphlet accompanying the map.

N/A

1. Describe, in a sentence or two, any significant deviations from the full GeMS compliance as revealed by the GeMS Validate Database tool and the Geologic Names Check tool. If the deviation was necessary to address agency or science needs for this publication, please so indicate; this insight could help guide future GeMS development.

Deviations from the GeMS Validate Database Level 3 compliance are: splitting out OrientationPoints into two feature classes, one that is displayed on the PDF and contains a subset of points (OrientationPoints\_Display), and one that contains all points (OrientationPoints\_All). FieldID is an added field to Stations, OrientationPoints\_All, and OrientationPoints\_Display to preserve field-collected station information and acts as a foreign key. OrientationPoints\_All and OrientationPoints\_Display contain foreign keys to features in the correlated feature classes for points that appear in both tables. As such, OrientationPoints\_DisplayID is a foreign key in the OrientationPoints\_All feature class, and OrientationPoints\_AllID is a foreign key in the OrientationPoints\_Display feature class

Additionally, the GeologicNamesCheck tool did not recognize the Glenshaw Formation as a mappable formation within the Conemaugh Group in Maryland. This formation has previously been mapped in Maryland (Brezinski, D.K., 2019, Geologic Map of the Accident and McHenry Quadrangles, Garrett County, Maryland: Maryland Geological Survey, Quadrangle Geologic Map, scale 1:24,000 (version ACCID\_McHEN2019.1.0); Brezinski, D.K., 2023, Geologic Map of the Barton and Westernport Quadrangles, Garrett and Allegany Counties, Maryland: Maryland Geological Survey, Quadrangle Geologic Map, scale 1:24,000 (version BARTN-WSTNP2023.OF)).