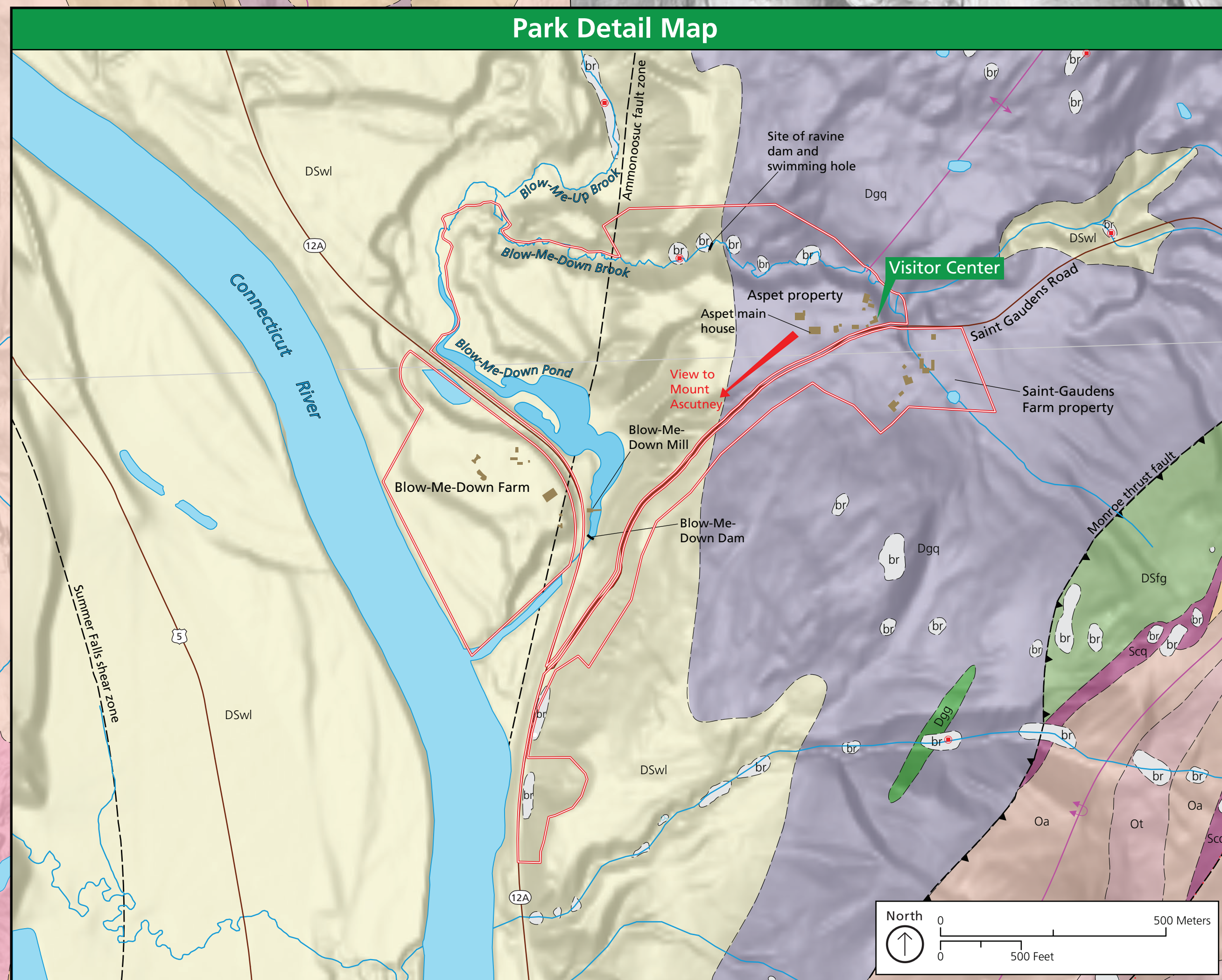


Geologic Map of Saint-Gaudens National Historical Park
New Hampshire



Ascutney House with view of Mount Ascutney in the background. Artists frequently created works from around the house. NPS photograph.



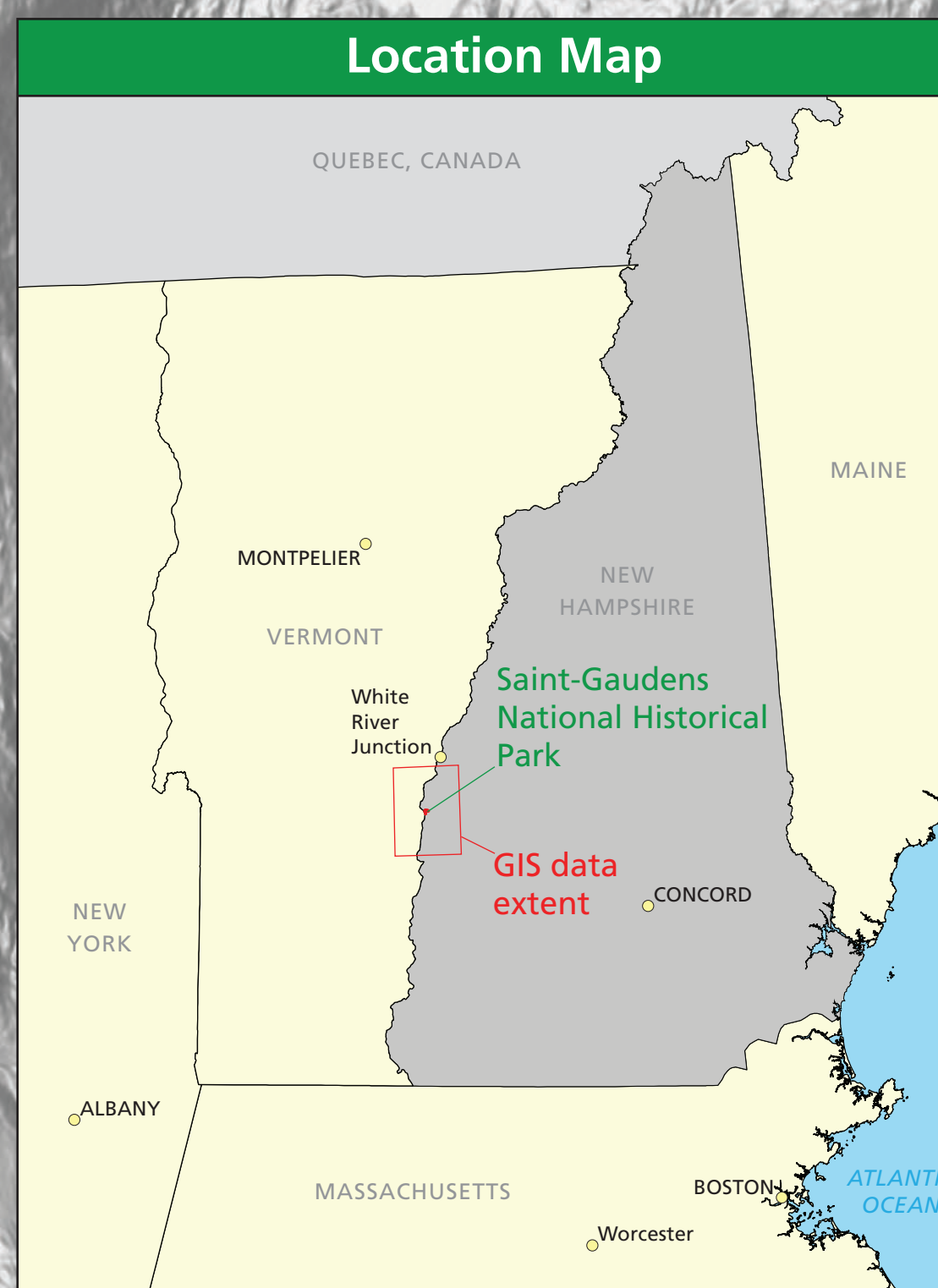
Mount Ascutney seen through the center hole of a historic granite millstone (exact source unknown). Local granite has long been used for building materials. NPS photograph.



Flooded mill at Blow-Me-Down Brook in 2011. The mill complex is located on the Blow-Me-Down Brook floodplain. NPS photograph.



Mount Ascutney rising southwest of Saint-Gaudens National Historical Park. The core of an ancient volcano is visible today. NPS photograph.



This map displays geologic map data compiled by the National Park Service Geologic Resources Inventory. It is not a substitute for site-specific investigations. All GRI products are available at <https://go.nps.gov/grips>.

Source Maps:
Walsh, G. J. 2016. Bedrock geologic map of the Hartland and North Hartland quadrangle, Windsor County, Vermont, and Sullivan and Grafton Counties, New Hampshire (scale 1:24,000). Scientific Investigations Map SIM-3361. US Geological Survey, Reston, Virginia.
Walsh, G. J., P. M. Valley, P. J. Thompson, N. M. Ratcliffe, B. P. Proctor, and K. R. Scaud. 2000. Bedrock geologic map of the Mount Ascutney 7.5x15-minute quadrangle, Windsor County, Vermont, and Sullivan County, New Hampshire (scale 1:24,000). Scientific Investigations Map SIM-3440. US Geological Survey, Reston, Virginia.

Source Scale: 1:24,000. According to US National Map Accuracy Standards, features are within 1/2 in (40 ft) of their true location.

Poster Layout: Triss L. Thornton-Ehrlich (Colorado State University)

Poster Date: December 2024

LEGEND

- NPS Boundary
- Highway
- Water
- Buildings (park detail map only)
- Geologic Points
 - rock outcrop location
 - spring
 - source map photograph location (park detail map only)
- Faults
 - solid where known or certain, long-dashed where inferred, dashed where approximate, teeth point toward the overriding block, U and D indicate upthrown and downthrown sides
 - thrust fault
 - high-angle fault
 - right-lateral strike-slip fault
 - left-lateral strike-slip fault
- Folds
 - solid where known or certain, dashed where inferred arrows pointing in the down dip direction, arrow head indicates fold plunge
 - anticline
 - syncline
 - overturned anticline
 - overturned syncline

Geologic Contacts

Solid black where known or certain, long-dashed where approximate, dashed where inferred, gray where an internal quadrangle boundary, blue where a shoreline

contact

- Ks Granite (Early Cretaceous)
- Ks Syenite (Early Cretaceous)
- Ksm Medium-grained syenite to quartz syenite (Early Cretaceous)
- Kf Mafic dikes (Cretaceous)
- Kch Hornfels, inner metamorphic zone (Cretaceous)
- Kv Syenite, plutonic breccia (Early Cretaceous)
- Kv Trachyte to rhyolite and volcanic breccia (Early Cretaceous)
- Kgd Gabbro and diorite (Early Cretaceous)
- Msz Silicified zone (Mesozoic)
- KDz Quartz veins (Cretaceous and Devonian)
- Dg Granite (Devonian)
- Dg Pegmatite (Devonian)
- Dgml Gile Mountain Formation, Meetinghouse Slate Member (Lower Devonian)
- Dsm Melange (Lower Devonian and Silurian?)
- Di Littleton Formation, schist member (Lower Devonian)
- Dkg Littleton Formation, metagranite member (Lower Devonian)
- Dk Littleton Formation, orthogneiss and tonalite member (Lower Devonian)
- Dql Littleton Formation, interbedded quartzite and schist member (Lower Devonian)
- Dga Gile Mountain Formation, feldspathic quartzite, granofels, and metapelite member (Lower Devonian)
- Dggs Gile Mountain Formation, gray quartzite and metapelite member (Lower Devonian)
- Dgpe Gile Mountain Formation, quartzite, conglomerate, and metapelite member (Lower Devonian)

Geologic Units

- Dggs Gile Mountain Formation, greenstone member (Lower Devonian)
- Dgsm Gile Mountain Formation, quartzite, conglomerate, and metapelite member, white quartzite to quartz-pebble conglomerate (Lower Devonian)
- Dgsm Gile Mountain Formation, quartzite, conglomerate, and metapelite member, white and gray calcite marble (Lower Devonian)
- Dgsm Gile Mountain Formation, hornblende facies schist member (Lower Devonian)
- Dgsm Gile Mountain Formation, felsic gneiss and quartzose granofels member (Lower Devonian)
- Dgsm Gile Mountain Formation, ankeritic biotite schist member (Lower Devonian)
- Dgsm Fitch Formation, marble member (Lower Devonian and upper Silurian)
- Dgsm Fitch Formation, calc-silicate granofels member (Lower Devonian and upper Silurian)
- Dgsm Fitch Formation, laminated schist member (Lower Devonian and upper Silurian)
- Dgsm Fitch Formation, gray granofels and schist member (Lower Devonian and upper Silurian)
- Dgsm Metadabase dike (Lower Devonian and upper Silurian)
- Dgsm Waits River Formation, limestone and schist member (Lower Devonian and upper Silurian)
- Dgsm Waits River Formation, gray phyllite and schist member (Lower Devonian and upper Silurian)
- Dgsm Waits River Formation, gray phyllite and schist member, quartzite and granofels (Lower Devonian and upper Silurian)
- Dgsm Waits River Formation, felsic gneiss and quartzose granofels member (Lower Devonian and upper Silurian)
- Dgsm Waits River Formation, porphyritic schist and granofels member (Lower Devonian and upper Silurian)
- Dgsm Waits River Formation, large-garnet and hornblende garnetiferous schist member (Lower Devonian and upper Silurian)
- Dgsm Waits River Formation, hornblende-plagioclase gneiss member (Lower Devonian and upper Silurian)
- Dgsm Waits River Formation, amphibolite and greenstone member (Lower Devonian and upper Silurian)
- Dgsm Waits River Formation, sulfidic schist member (Lower Devonian and upper Silurian)
- Dgsm Northfield Formation, schist member (Lower Devonian and upper Silurian)
- Dgsm Cough Quartzite, metagranite and quartzite member (Silurian)
- Dgsm Cough Quartzite, muscovite schist member (Silurian)
- Dgsm Cough Quartzite, muscovite schist member (Silurian)

- Dgsm Shaw Mountain Formation (Silurian)
- Dgsm Quartz diorite of the Lebanon dome (Late Ordovician)
- Dgsm Partridge Formation, sulfidic schist member (Ordovician)
- Dgsm Partridge Formation, sulfidic schist member, amphibolite (Ordovician)
- Dgsm Partridge Formation, sulfidic schist member, quartzite beds (Ordovician)
- Dgsm Partridge Formation, plagioclase-studied schist member (Ordovician)
- Dgsm Grandodite, trondhjemite, and tonalite of the Sugar River pluton (Ordovician)
- Dgsm Ammonoosuc Volcanics, heterogeneous volcanic member (Ordovician)
- Dgsm Ammonoosuc Volcanics, sulfidic schist member (Ordovician)
- Dgsm Ammonoosuc Volcanics, metafelsite member (Ordovician)
- Dgsm Ammonoosuc Volcanics, bimodal metavolcanic rocks member (Ordovician)
- Dgsm Ammonoosuc Volcanics, rusty sulfidic granofels member (Ordovician)
- Dgsm Ammonoosuc Volcanics, lapilli tuff member (Ordovician)
- Dgsm Ammonoosuc Volcanics, felsic granofels member (Ordovician)
- Dgsm Ammonoosuc Volcanics, greenstone and amphibolite member (Ordovician)
- Dgsm Cram Hill Formation, greenstone member (Ordovician)
- Dgsm Cram Hill Formation, felsic and mafic volcanoclastic rocks member (Ordovician)
- Dgsm Cram Hill Formation, quartzite member (Ordovician)
- Dgsm Trondhjemite and tonalite (Ordovician)
- Dgsm Plainfield tonalite (Ordovician)
- Dgsm Trondhjemite gneiss (Ordovician)
- Dgsm Moretown Formation, hornblende facies schist member (Cambrian to Ordovician)
- Dgsm Moretown Formation, black schist member (Cambrian to Ordovician)
- Dgsm Moretown Formation, garnet schist and granofels (Cambrian to Ordovician)
- Dgsm Moretown Formation, quartzite member (Cambrian to Ordovician)
- Dgsm Tail-carbonate schist (Cambrian to Ordovician)

- Dgsm Moretown Formation, green schist and granofels member (Cambrian to Ordovician)
- Dgsm Moretown Formation, green schist and granofels member, cotulite beds (Cambrian to Ordovician)
- Dgsm Ylbm Baileys Mills tonalitic gneiss (Mesoproterozoic)
- Dgsm Ylbm Baileys Mills plagioclase-phenocrystic tonalite gneiss (Mesoproterozoic)
- Dgsm Ylbm Cawdwell Formation, feldspathic schist or granofels (Mesoproterozoic)
- Dgsm Ylbm Cawdwell Formation, marble (Mesoproterozoic)
- Dgsm Ylbm Biotite-quartz-plagioclase-gneiss (Mesoproterozoic)
- Dgsm Ylbm Amphibolite (Mesoproterozoic)
- Dgsm Ylbm Quartz schist and gneiss (Mesoproterozoic)

Geologic Outcrops (park detail map only)

areas of bare, exposed bedrock