

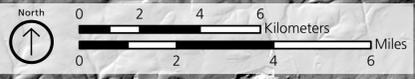
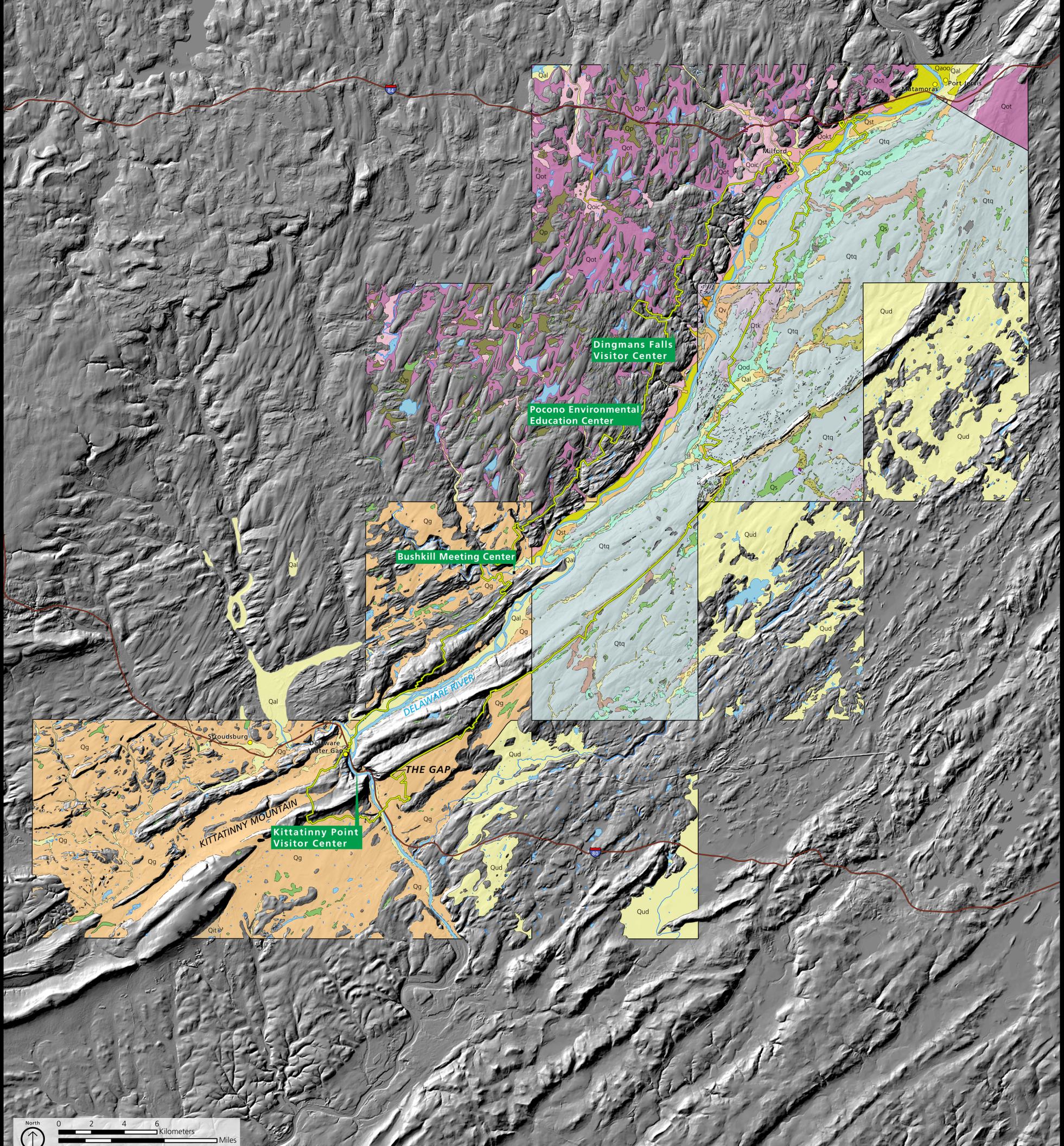
# Surficial Geologic Map of Delaware Water Gap NRA

National Park Service  
U.S. Department of the Interior



New Jersey and Pennsylvania

Geologic Resources Inventory



NPS Boundary		Surficial Units	
	NPS Boundary		water
	points of interest		Artificial fill (Quaternary)
	cities		Qmd Mine dump deposits (Quaternary)
	roads		Qp Peat (Quaternary)
	known or certain		Qud Undifferentiated surficial deposits (Quaternary)
	approximate		Qs Swamp and marsh deposits (Quaternary)
	concealed		Qal Alluvium (Quaternary)
	inferred		Qaf Alluvial fan deposits (Quaternary)
	quadrangle boundary		Qaob Alluvium and clean outwash, undifferentiated (Quaternary)
	water or shoreline		Qac Alluvium and colluvium, undifferentiated (late Wisconsinan to Holocene)
	subaqueous (inferred)		Qba Boulder accumulations (Quaternary)
			Qsr Shale-chip rubble (Quaternary)
			Qic Olean ice, contact stratified sand and gravel (Quaternary)
			Qokt Olean kame terrace (Quaternary)
			Qot Olean till (Quaternary)
			Qta Talus deposits (late Pleistocene to Holocene)
			Qst Stream terrace deposits (late Pleistocene to Holocene)
			Qst2 Stream terrace deposits, younger Minisink Valley terrace (late Wisconsinan to Holocene)
			Qst3 Stream terrace deposits, older Minisink Valley terrace (late Wisconsinan to Holocene)
			Qe Eolian deposits (Pliocene to late Pleistocene)
			Qed Sand dunes (late Wisconsinan)
			Qg Glacial deposits, undifferentiated (Quaternary)
			Qmt Meltwater terrace deposits (late Wisconsinan)
			Qtq Till, derived from Kittatinny Mountain (late Wisconsinan)
			Qtk Till, derived from Kittatinny and Minisink Valley (late Wisconsinan)
			Qk Kame (Quaternary)
			Qod Glacial lake delta deposits from proglacial lakes (late Wisconsinan)
			Qv Valley, train deposits (late Wisconsinan)
			Qf Outwash fan, near Branchville (late Wisconsinan)
			Qfob Outwash fan, Dry Brook (late Wisconsinan)
			Qfa Outwash fan, Adams Creek (late Wisconsinan)
			Qwmx Recessional moraine (late Wisconsinan)
			Qdfm Dingmans Ferry recessional moraine (late Wisconsinan)
			Qom Ogdensburg, Culvers Gap recessional moraine (late Wisconsinan)
			Qm Recessional moraine (late Wisconsinan)
			Qd Glacial lake delta deposits, Lake Owassa (late Wisconsinan)
			Qfd Outwash fan, Dingmans Creek (late Wisconsinan)
			Qwft Glaciofluvial terrace deposits (late Wisconsinan)
			Qwlv Glaciofluvial plain deposits (late Wisconsinan)
			Qwic Ice, contact deposits (late Wisconsinan)
			Qit Older till (Quaternary)

This map was produced by Max Jackl (Colorado State University) in April, 2013. It is an overview of compiled geologic data prepared as part of the NPS Geologic Resources Inventory. This map is not a substitute for site-specific investigations.

The source maps used in creation of the digital geologic data product include digital New York State Museum and New Jersey Geological Survey publications and paper U.S. Geological Survey and Pennsylvania Geological Survey publications (see Geologic Map Data Section in report for specific sources).

As per source map scale and U.S. National Map Accuracy Standards, geologic features represented here are within 12 m (40 ft) (1:24,000 scale data), 24 m (80 ft) (1:48,000 scale data), 25 m (83 ft) (1:50,000 scale data), 50 m (166 ft) (1:100,000 scale data), or 127 m (416 ft) (1:250,000 scale data) of their true location.

All digital geologic data and publications prepared as part of the Geologic Resources Inventory are available at the NPS Integrated Resource Management Applications Portal (IRMA): <https://irma.nps.gov/App/ReferenceSearch>. Enter "GRI" as the search text and select a park from the unit list.