

Bedrock Geology Map of the Waverley Area, Part of NTS Sheet 11D/13 (Sheet 1 of 4), Halifax County, Nova Scotia

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Scale 1:25 000

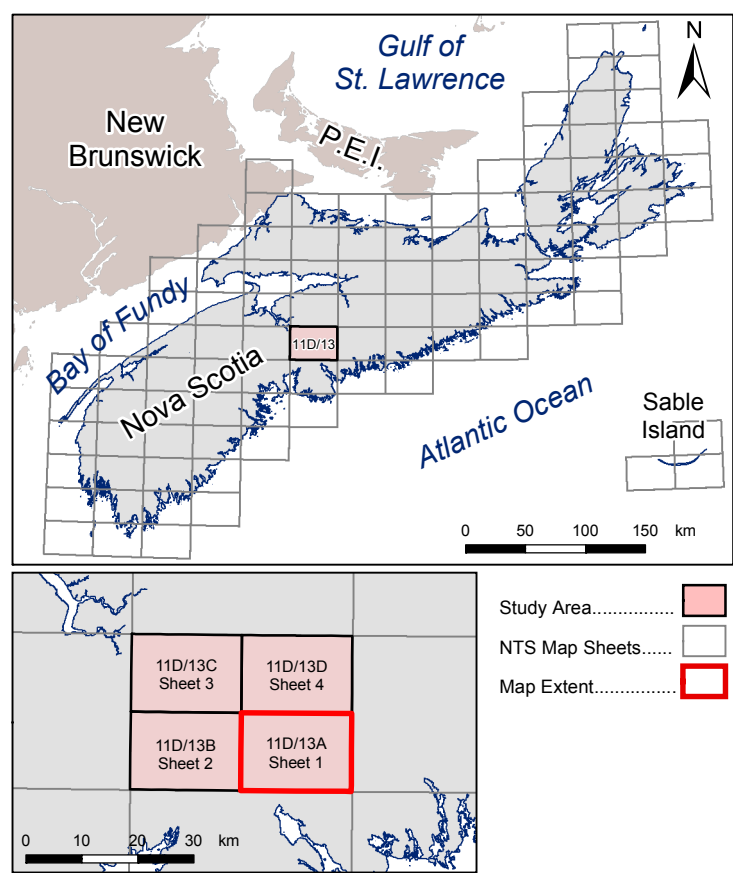


Halifax, Nova Scotia
2009



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Regional Key Map



Map Notes

Universal Transverse Mercator Projection (UTM), Zone 20, Central Meridian 63°00' West.

North American Datum (NAD) 1983 Canadian Spatial Reference System (CSRS) 98.

Base and digital data derived from the Nova Scotia Topographic Database (NSTDB). Copyright Her Majesty the Queen in Right of the Province of Nova Scotia. The NSTDB is available from Service Nova Scotia and Municipal Relations (SNMRL), Land Information Services Division (LIS), Nova Scotia Geomatics Centre (NSGC), Amherst, Nova Scotia.

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Final map product created using ArcMap 9.3 software.

Acknowledgments

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Disclaimer

The information on this map may have come from a variety of government and nongovernment sources. The Nova Scotia Department of Natural Resources does not assume any liability for errors that may occur. This map is intended for use at the published scale of 1:25 000.

Selected References

Corey, M.C. 1987: Geological map of Mount Uniacke (NTS sheet 11D/13 west half); Nova Scotia Department of Mines and Energy, Map 87-8, scale 1:50 000.

Giles, P.S. and Boehner, R.C. 1982: Geological map of the Shubenacadie and Musquodoboit basins, central Nova Scotia; Nova Scotia Department of Mines and Energy, Map 82-4, scale 1:50 000.

Faribault, E.R. 1898: Plan and sections, Oldham Gold District, Halifax County, Nova Scotia; Geological Survey of Canada, Map 642, scale 1:6000.

Faribault, E.R. 1900: Plan and sections, Ranfrew Gold District, Hants County, Nova Scotia; Geological Survey of Canada, Map 701, scale 1:6000.

Faribault, E.R. 1901a: Plan and section, Mount Uniacke Gold District, Hants County, Nova Scotia; Geological Survey of Canada, Map 709, scale 1:3000.

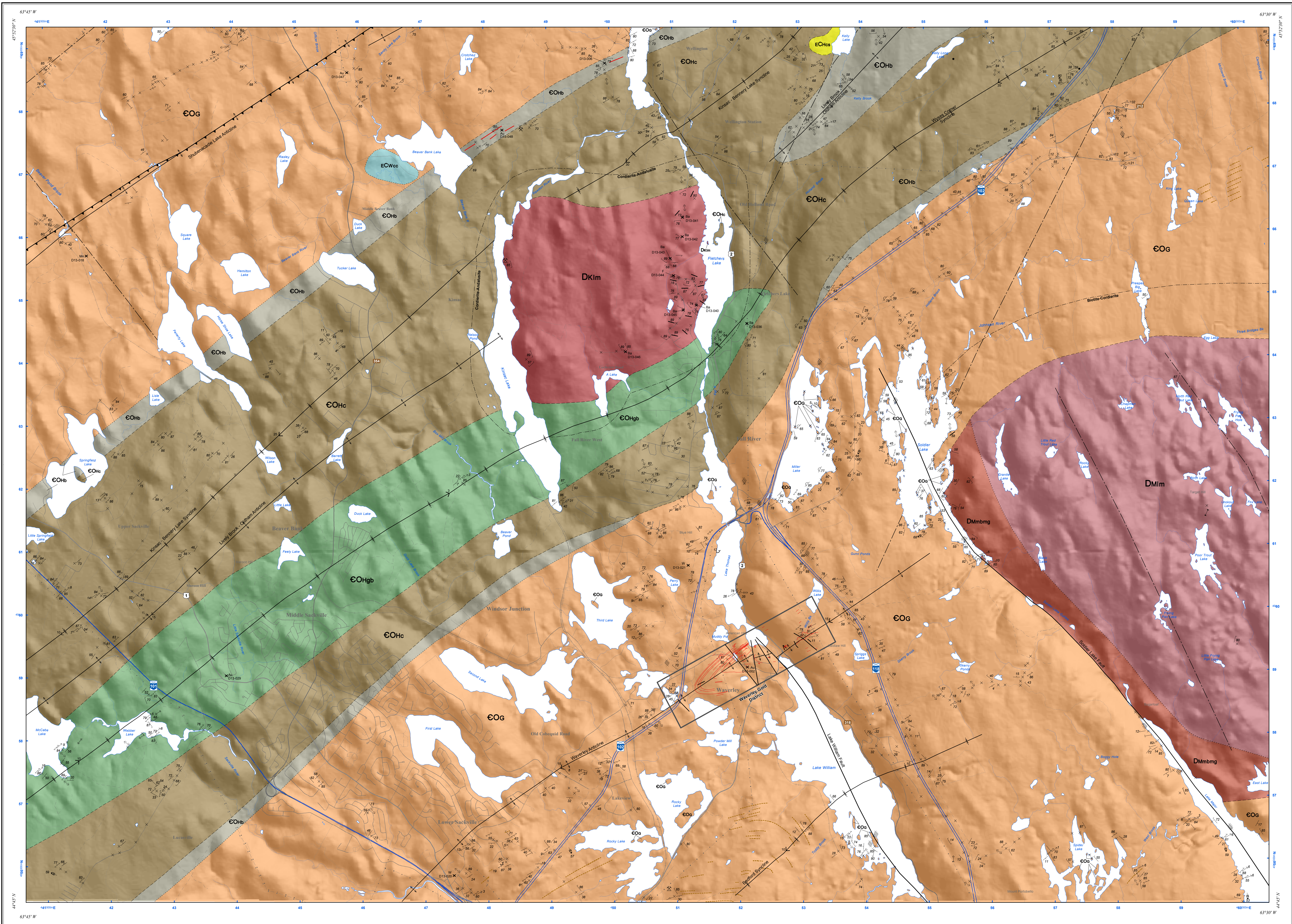
Faribault, E.R. 1901b: Plan and sections, Waverley Gold District, Halifax County, Nova Scotia; Geological Survey of Canada, Map 721, scale 1:3000.

Faribault, E.R. 1902: Plan and section, South Uniacke Gold District, Hants and Halifax counties, Nova Scotia; Geological Survey of Canada, Map 768, scale 1:3000.

Ham, L.J. 1999: Geological map of Musquodoboit Batholith (part of NTS sheet 11D/15), Halifax County, Nova Scotia; Nova Scotia Department of Natural Resources, Minerals and Energy Branch, Open File Map ME 1999-3, scale 1:50 000.

Recommended Citation

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Legend

PALEOZOIC
CAMBROFEROUS (slightly modified after Giles and Boehner, 1982)

WINDSOR GROUP
CARROLLS CORNER FORMATION (EOwcc) and muscovite and micas in the beds, include undifferentiated shale and mudstone breccia with minor gneiss and amphibole in proximity to the faulted northern margin of the Shubenacadie Basin (interpreted from water well records on this map area).

HORTON GROUP
COLDSTREAM FORMATION (EOHc) reddish brown, polymictic conglomerate and conglomeratic sandstone with minor dark grey shale, known mainly from the subsurface along the southern perimeter of the Shubenacadie Basin.

DEVONIAN
MUSQUODOBOIT BATHOLITH (slightly modified after Ham, 1999)
LEUCOMONZONITIC (DKim) buff, white and pink, medium- to coarse-grained, seriate megacrystic (5-15%); monzogranite; biotite (4-6%, average 6%), muscovite (trace %); cordierite (trace %).
MUSCOVITE-BIOTITE MONZONITIC (DKimb) buff, white and pink, medium- to coarse-grained, seriate megacrystic (5-15%); monzogranite; biotite (6-12%, average 8%), muscovite (trace %); cordierite (trace %). Mesocrystic xenocrysts common.
KINSAC PLUTON (DKin) medium- to coarse-grained cordierite-muscovite-biotite leucomonzonitic.

CAMBRO-ORDOVICIAN
MEGUMA SUPERGROUP
HALIFAX GROUP
GLEN BROOK FORMATION (EOHgb) colour banded, green-grey, laminated metabasite with minor slate and local medium bedded metabasite.
CLUNARD FORMATION (EOHcl) finely laminated black slate with thin, bedded metabasite/metasediment layers, commonly with high concentrations of pyrite and pyroclastic.
SEARSBANK FORMATION (EOHsb) grey metabasite, thin metabasite beds, slate and, locally intervals containing thin (<1.5 cm) calcite layers.

GOLDENVILLE GROUP
UNDIVIDED (EOG) greenish grey metabasite and minor interbedded, green, laminated metabasite and dark grey-black slate.

Symbols*

Mineral occurrence 1	X	Kink band (dextral, sinistral)	X
Outcrop	X	Slacken striae	X
Fault	—/—	Paleocurrent (flow direction undetermined)	—
Shaft	—	Glacial striae (ice flow direction known, unknown)	—
Ditch	—	Feldspar megacrysts (dp unknown)	—
Quarry (active, abandoned)	—	Cataclastic texture (ball breccia)	—
Bedding, tops known (inclined, overturned, vertical, horizontal)	—	Trench	—
Bedding, tops unknown (inclined, vertical)	—	Geological contact (approximate, assumed, gradational)	—
Cleavage, first generation (inclined, vertical)	—	Contact metamorphic aureole (approximate, assumed)	—
Crenulation cleavage, second generation (inclined, vertical)	—	Approximate limit of granite emplacement, high strain zone	—
Mineral lineation 2	—	Trace of anticline (approximate), arrow indicates plunge	—
Crenulation cleavage, second generation (inclined, vertical)	—	Trace of syncline (approximate), arrow indicates plunge	—
Foliation (inclined) 3	—	Thrust (approximate)	—
Stretching lineation 3	—	Fault (approximate)	—
Shear (inclined, vertical)	—	Trace of sedimentary ridge from air photo	—
Vein (inclined, vertical)	—	Dike (sp unknown, inclined)	—
Dike (sp unknown, inclined)	—	Trace of lineaments from Digital Elevation Model 4	—
Axis of minor fold (first generation, second generation)	—	Trace of quartz veins (after Faribault, 1898, 1900, 1901a,b, 1902)	—
Axial surface	—	Quartz vein	—
Symmetry of minor fold (generation unknown; s.m.z. arrow indicates plunge)	—	Outline of named gold districts (after Faribault, 1898, 1900, 1901a,b, 1902)	—
Axis of bouinage	—		

* Note: Complex symbols list for map series. All symbols and referenced Faribault data may not appear on all maps.
1 Commonly indicated at top of symbol. Nova Scotia Department of Natural Resources, Mineral Occurrences Database number at bottom of symbol.
2 Mineral lineation may represent mineral or mineral aggregates, generally in the cleavage planes, i.e. recording fold-related strain.
3 Foliation and stretching lineation in granite emplacement-related high strain zones. Lineation defined by contact metamorphic porphyroblasts.
4 Approximate geological boundary constrained by locally exposed contacts, distance between outcrop and aeromagnetic data. Assumed geological contact constrained by aeromagnetic position, extrapolation from adjacent maps and aeromagnetic data.

100 Series highway (single, twin)	—
Trunk highway	—
Collector Highway	—
Hard surface road	—
Loose surface road	—
Resource access road	—
Vehicle track	—
Railway (active, inactive)	—
County boundary	—
Lakes, single-line rivers, streams	—
Transmission lines (mult, single)	—