

Nova Scotia
Natural Resources
MINERAL RESOURCES BRANCH

MINERAL RESOURCE LAND-USE MAP
OF THE GRANVILLE FERRY AREA (21A/13) (1:50 000)
 OFM ME 2000-4 (21A/13)
 Version 2

21A/13
Granville Ferry

Compiled by
 D.B. Hopper, F.J. Bonner, B.E. Fisher and A.N. Murphy
 Halifax, Nova Scotia

Scale 1 : 50 000

Metres

A total of 59 thematic (1:50 000 scale) Mineral Resource Land Use (MRLU) maps combine to form a thematic atlas, which covers the province of Nova Scotia including all near-shore islands and Sable Island. The main purpose in preparing this Atlas is to provide the public with a simple geographic compilation of mineral resource and related land-use information at a reasonably detailed scale. A key objective is to create a useful reference for practitioners working in land-use and environmental planning, geotechnical firms and groups involved in community economic development.

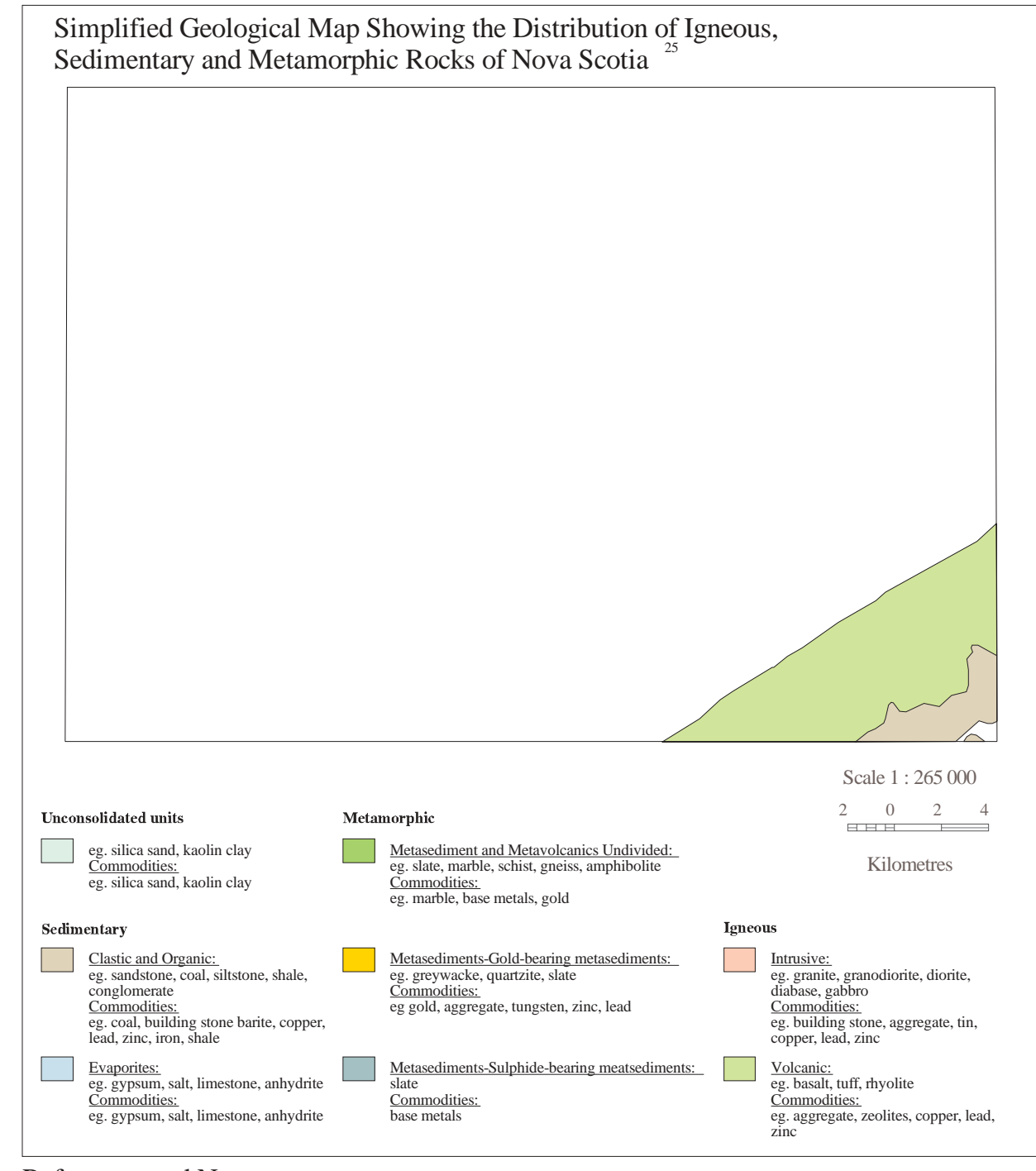
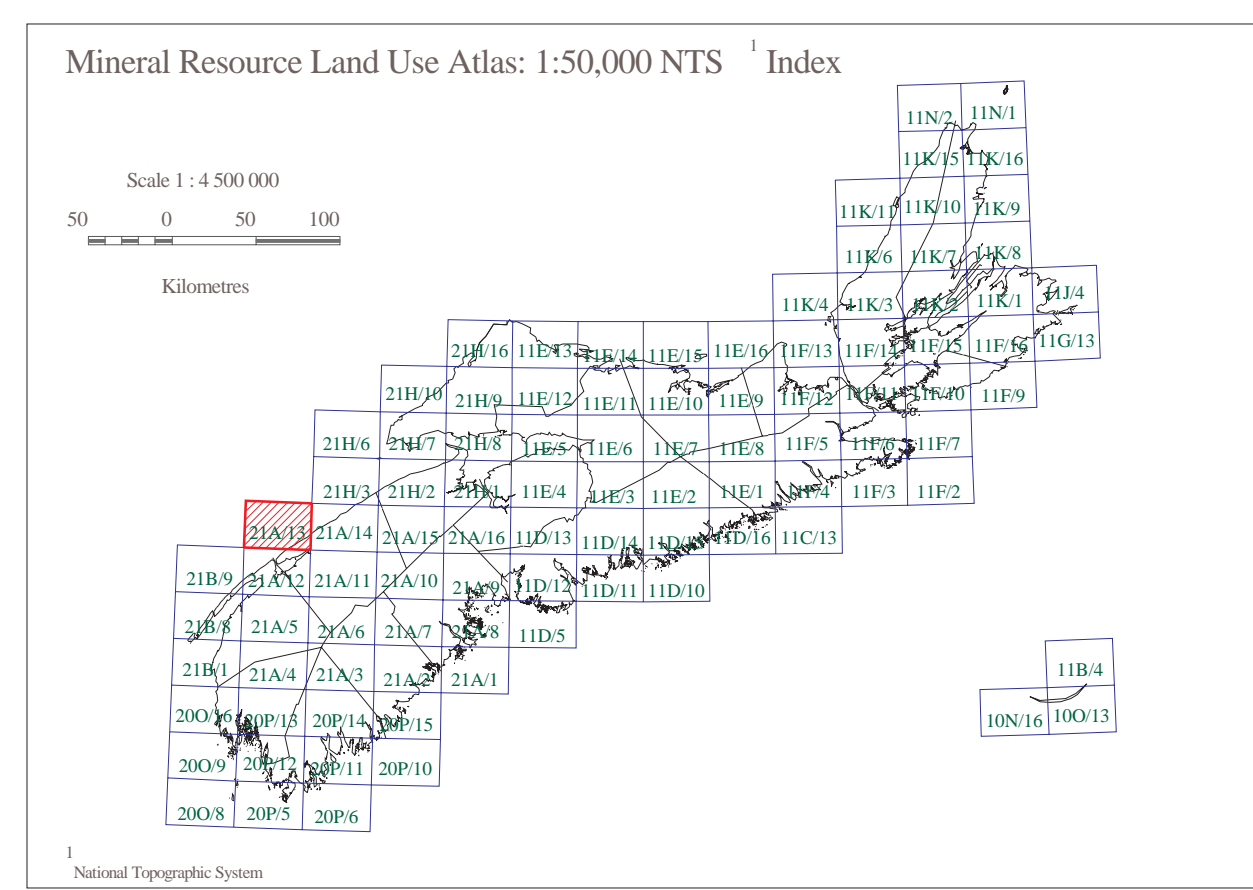
The MRLU maps display the location and distribution of mineral and energy resources and related activities as well as aspects of environmental geology that relate to land-use and environmental planning. Special land-use designations on Crown and some privately-owned land are shown to indicate how Nova Scotia's land base varies regarding the ability of mineral resource interests to access land and hold secure tenure. Please note: Because these maps were compiled from many different data sources with different scales and projections, some of the overlapping thematic data appears "shifted" relative to each other.

Over the course of developing this project, several companies have contributed to the preparation of these maps, which involved gathering and organizing data from databases managed by the department as well as other government departments, agencies and non-government organizations. The mineral companies include: David Hopper, Cheryl Dubois, Geoffrey Katz, Hugh Collins, Fred Bonner, Jane Webster, and Ma Nyeen. The digital compilers include: Fred Bonner, Brian Fisher, Beth Wile, Lou Hills, Angela Murphy and Jeffrey McKinnon. Details for maps and data layers should be directed by: Nova Scotia Department of Natural Resources, Library, PO Box 698, Halifax, Nova Scotia, B3J 2Y9. Telephone: (902) 424-8188; Fax: (902) 424-3375; E-Mail: mdr@ns.gov.ns.ca.

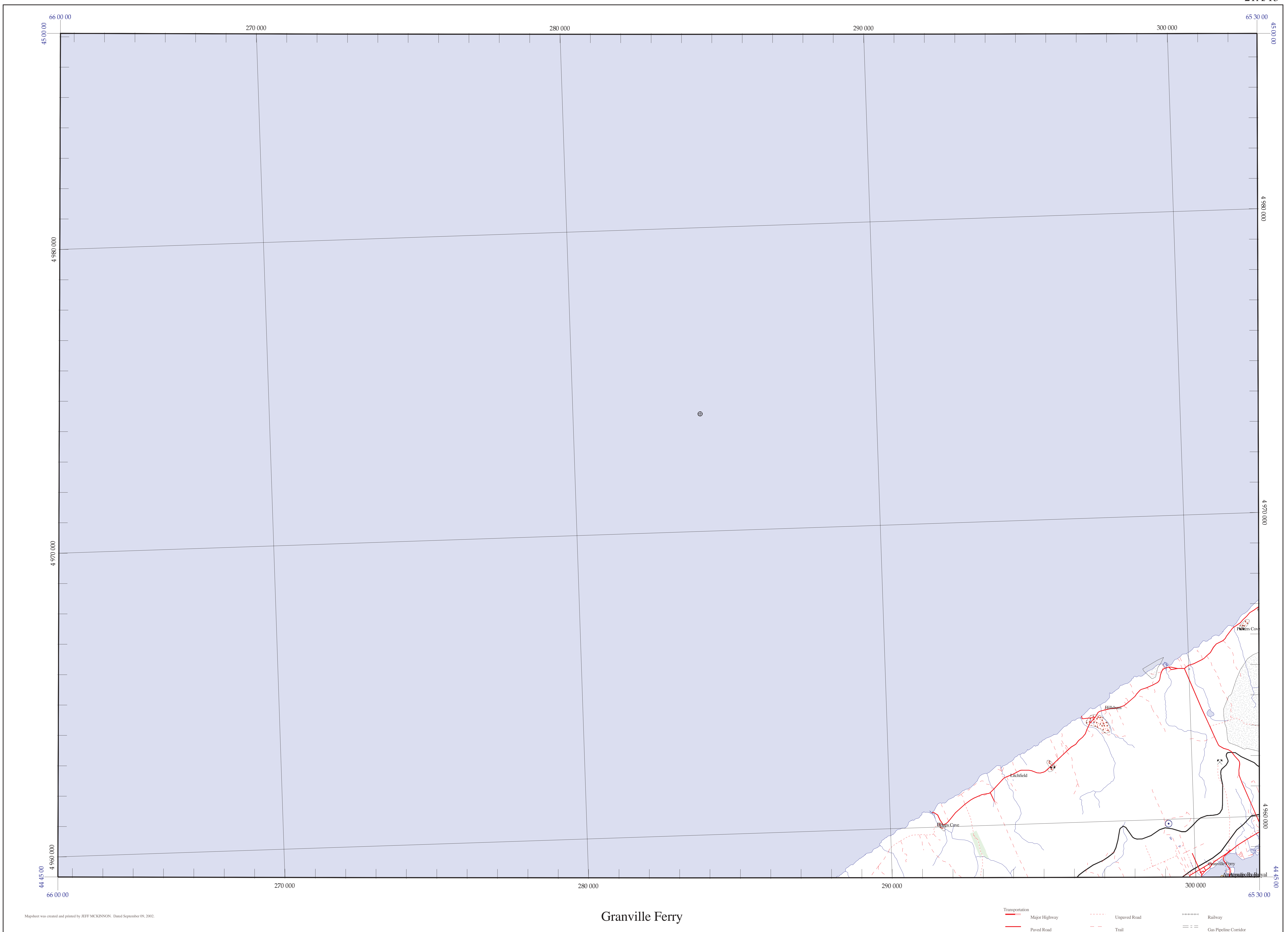
Base data derived from the Nova Scotia Topographic Database (NSTDB). Copyright Her Majesty the Queen in Right of the Province of Nova Scotia. The NSTDB is available from the Service Nova Scotia & Municipal Relations, Nova Scotia Geomatics Centre (NSGC), Antigonish, Nova Scotia.

This map was generated from information stored in the Mineral Resources Branch (MRB) Geographic Information System of the Nova Scotia Department of Natural Resources (NSDNR).

The thematic information shown on this map came from many different government and non-government sources. The NSDNR accepts no liability for errors, deficiencies or faults on the map. Since land-use information is dynamic and subject to change over time, updated versions of this map will be provided in the future. This map should not be used for legal purposes and should only be used at the scale portrayed on the map.



- References and Notes**
- Mineral occurrence database. NSDNR, 1999. Digital Geoscience Data Product DP001b, Version 3, 1998. This database can be used with FPO16, the Mineral Occurrence Query Program, which is a viewing and searching program with instructional manual for use with Mineral Occurrence Database. See: <http://www.gov.ns.ca/naturalresources/minerals/>
- Claims Reference Maps, Mineral and Petroleum Titles, NSDNR, undated. Scale: 1:31 690.
- Gold and iron districts are no longer a legal entity, although the term is still used in the literature, and so the former surveyed district boundaries are not shown. Instead a polygon is shown to flag the former mining camps and encompasses most of the basic, underground workings and mineral occurrences. Digital data set provided by NSDNR, Mineral Resources Branch.
- Evaluation of Nova Scotia's Potential Resources. A.R. Anderson and W. A. Broughan, 1988. NSDNR Bulletin ME 99/09 and 3 maps, scale: 1:250 000.
- Aggregate Resources Map, Cape Breton Island, W.J. Wright, 1985. NSDNR Map ME 1985-3, 1985-4, 1985-8 and 1985-9. Scale: 1:125 000. Also shows the type, quality and observed thickness of sand and gravel deposits.
- Aggregate Potential of Cumberland and Colchester Counties, 14 Preliminary Map Sheets, G. Price, 1991. NSDNR OFM ME 1991-5 to OFM ME 1991-18. Scale: 1:50 000.
- Sand and Gravel Occurrences of Nova Scotia, J.F. Fowler and G.B. Dickie, 1978. NSDNR ORR 378 (7) maps, Scale: 1:50 000.
- Digital data set provided by NSDNR, Mineral Development and Policy Section.
- Surface Petroleum Shows, Onshore Nova Scotia, G. Short, 1986. NSDNR ES ME 11, March 1986, pp33. See: <http://www.gov.ns.ca/naturalresources/petroleum/>
- Petroleum Wells and Drillholes with Petroleum Significance, Onshore Nova Scotia, P.C. McMillan, G. Short, and D. Walker, 1986. NSDNR ES ME 10, pp194. See: <http://www.gov.ns.ca/naturalresources/petroleum/>
- Abandoned Mine Openings Database, NSDNR, 1999. Digital Geoscience Data Product DP010, Version 2, 2000. Drillholes plotted include only those holes with lithologic logs or overburden thicknesses. See: <http://www.gov.ns.ca/naturalresources/petroleum/>
- Ditthel database. NSDNR, 2000. Digital Geoscience Data Product DP001b, Version 2, 1998. Ditthel database, Version 2, 2000. Ditthel database includes only those holes with lithologic logs or overburden thicknesses. See: <http://www.gov.ns.ca/naturalresources/petroleum/>
- Geological Map of the Province of Nova Scotia, J. D. Kerpis, 2000. NSDNR Map ME 2000-1, Scale: 1:500 000. Digital Geoscience Data Product D00-01, Version 1, 2000. See: <http://www.gov.ns.ca/naturalresources/petroleum/>
- Units showing sulphide-bearing slates are mainly early Windsor Formation rocks which contain bands of arsenic-bearing slate which will likely produce acid drainage.
- Units showing potential karst areas are mainly early Windsor Formation rocks which consist of pyram, anthracite and limestone which under certain conditions can develop sinkholes and cave systems.
- Geological Highway Map of Nova Scotia, Second Edition, H.V. Donohue, Jr., and R.G. Grenham, 1989. Scale: 1:500 000. NSDNR, OFM ME 1989-1 (Volume Geoscience Data Product DP001b, Version 1, 2000). (Note: the sites shown are meant to provide additional information for corridor promotion.)
- Simplified geological map showing the distribution of igneous, sedimentary and metamorphic rocks of Nova Scotia, Hopper, F.J., Fisher, B.E., and Hopper, G.B., 2000. Map in progress, scale: 1:50 000.
- Data sets digitized from maps provided by the Canadian Department of Natural Resources.
- Data set provided by the Nova Scotia Department of Agriculture and Fisheries.
- NSDNR, Renewable Resources Branch, Parks and Recreation Division.
- Nova Scotia Department of Environment and Labour, Protected Areas Division.
- NSDNR, Land Services Branch, Surveys Division.
- Parks Canada.
- NSDNR, Renewable Resources Branch, Wildlife Division.
- NSDNR and Canadian Wildlife Services.
- Nature Conservancy of Canada.
- NSDNR, Mineral Resources Branch.



MINERAL AND AGGREGATE RESOURCES	ENERGY RESOURCES	GEOLOGY FOR LAND-USE / ENVIRONMENTAL PLANNING	LAND DESIGNATION AND ACCESS
Mineral Occurrence (metallic, non-metallic) ¹	Active Coal Mine ² (lease/permit boundary)	Areal Extent of Underground Coal Mine Workings ³	Protected Area (Strictly no access to commercial and industrial use by order of legislation, regulation, policy or private interest.)
Active Mine/Quarry ² (metallic, non-metallic) (lease/permit boundary)	Coal Seam Trace ⁴	Abandoned Underground Mine Opening ¹¹ (metallic, non-metallic, coal)	National Parks and Adjuncts ¹² , National Historic Site and Parks ¹³ , National Wildlife Management Areas ¹⁴ , National Defence Land ¹⁵ , National Wildlife Sanctuaries ¹⁶ , Designated Provincial Park and Park Reserve ¹⁷ , Wilderness Area ¹⁸ , Protected Beaches ¹⁹ , Mineral Closure ²⁰ , Name Conservancy of Canada (NCC) ²¹ , Areas under the Special Places Act ²² , Flight 11 Act ²³
Gold Mining Area ¹ (former gold district)	Fuel Peat Occurrence ⁴	Abandoned/Inactive Surface Mine/Quarry ⁸ (Data is not available at this time)	Drumlin ²⁴
Iron Mining Area ¹ (former iron district)	Geothermal Resource Area ²	Reclaimed Surface Mine Site ⁸ (Data is not available at this time)	Flood Risk Area ¹⁷ (20 yr. flood level)
Crown Limestone Area ²	Surface Petroleum Show ⁹	Drill Hole ¹²	Limited Access Area ²⁵ (Access is possible although certainty of tenure will vary. Areas are usually identified for specific interests and access permission could be limited by owner, operator, or special interest depending upon the proposed activity.)
Sand/Gravel Deposit ^{5A7}	Well/Drill hole with Petroleum Significance ¹⁰	Sulphide-bearing Slate ^{13A1}	Provincial Game Sanctuaries ²⁶ , Provincial Wildlife Management Areas ²⁷ , Water Supply Areas ²⁸ , Lottery Areas ²⁹ , Sites of Ecological Significance (SES) ³⁰ , Prager's Cove Preservation Area ³¹ , Aquacultural Areas ³² , Pipeline Corridor ³³ , Operational Non Designated Parks and Reserves (NCC) ³⁴ , Non Designated Rail Corridors ³⁵ , Ramsar Wetland Sites ³⁶ , Loosim Habitat Joint Venture Lands (EHV) ³⁷ and Trails Act Lands ³⁸
Aggregate Pit/Quarry ^{5A7}	Underground Gas Storage ² (exploration area, exploration permit)	Geological Contacts ²⁰	General Access Area ³⁹ (This includes all province-owned land that has not been designated as protected or limited use.)
Horticultural Peat Occurrence ⁴	Faults ¹¹	Special Geological Interest ¹⁸	Privately Owned Land