Refer to this map as: 31 G/12 W EDITION 2 ASE SERIES A 761

SURFICIAL GEOLOGY, WAKEFIELD, QUE. 31G/12 W

SCALE 1:50,000

LEGEND

SURFICIAL DEPOSITS AND TERRAIN FEATURES

QUATERNARY

POSTGLACIAL - 10,000 years BP to present

11 Organic deposits: muck and peat; mainly peat bogs and poorly drained areas supporting fen, swamp, marsh and meadow vegetation

10 Alluvial deposits: stratified sand, silty sand, silt and silty clay; includes fluvial deposits, sand bars and spits of modern floodplain of present streams

9 Fan deposits: stratified sand, silty sand, silt and silty clay; alluvial deposits of small tributary streams from the rock knob upland of the Precambrian basement laid down along the foot of the Eardley escarpment on the abandoned clay floor of the Champlain Sea following emergence

8 Landslide deposits: marine clay, silty clay, silt and marine and estuarine sand; aprons and fans of hummocky topography underlain by tilted or slumped blocks of clay with or without a thin capping of fine sand; includes deposits spread out over the floors and terraces of the abandoned Ottawa River channels and along the valley sides of present day streams; resulting from slope failures along the abandoned channel and terrace bluffs or along the active present day valley bluffs

7 Eroded and/or modified marine deposits: mainly marine clay as described in unit 4, but locally overlain by a thin layer of alluvial silt and silty clay; estuarine and river channel floors and terraces of the ancestral Ottawa River cut in marine clay following emergence of the map-area above the level of the Champlain Sea; the upper part of these sediments is unfossiliferous and somewhat less calcareous and consists of laminated red and greenish grey clay

MARINE-CHAMPLAIN SEA 12,800 to 10,000 years BP approx.

6 Marine beach deposits: gravel and sand, fossiliferous; derived from the reworking by the Champlain Sea of older glacial or glacio-fluvial deposits; includes abandoned raised beaches, bars, spits, beach ridges, boulder beaches and boulder pavements

5 Marine sand: uniform, fine-grained, buff to grey sand, fossiliferous; shallow-water facies of off-shore sediments of the Champlain Sea; upper part of this sand is buff and has often been reworked by wind into low dunes; when exposed in fresh cuts below the chemically weathered zone this sand is grey in colour

4 Marine clay: blue-grey clay, silty clay and silt, calcareous, fossiliferous; deep-water facies of off-shore sediments of the Champlain Sea; the upper part of these sediments is unfossiliferous, somewhat less calcareous and consists of laminated red and greenish grey clay; locally this unit is overlain by a thin layer of sand

MARINE-GLACIAL - 12,800 to 10,000 and 12,800 years BP and/or older

3 Marine beach deposits overlying ice-contact and/or ice-frontal outwash deposits: gravel and sand, fossiliferous, underlain by unfossiliferous deposits of well sorted and bedded gravels, cobbles and sands; in some places these contain boulder barricades or ramparts and local lenses or pockets of till

GLACIAL-LATE OR CLASSICAL WISCONSIN - 12,800 years BP and/or older

2 Glacio-fluvial ice-contact and ice-frontal outwash deposits: gravel and sand, well sorted and bedded, mainly coarse to medium-grained, with numerous cobbles and boulders, buff to grey, unfossiliferous; includes outwash plains, outwash fans, valley trains, kame terraces, kames and esker ridges deposited by fluvio-glacial meltwaters during deglaciation; either not submerged or little modified by postglacial marine inundation

1 Bevelled or modified till deposits: compact, grey to brown when leached and oxidized, siliceous, sandy glacial till; topography flat to gently rolling with surface materials reworked and winnowed by the marine waters of the Champlain Sea and by the estuarine and fluvial waters of the ancestral Ottawa River; includes bouldery, washed till on slopes and on abandoned channel floors which grades downwards into unmodified till below the elevation of 198 m. (650'); 1a, small unmodified till deposits lying above the elevation of 198 m. (650'), the approximate limit of submergence in this area north of the Ottawa River

BEDROCK AREAS

PRECAMBRIAN

R+ Intrusive and metamorphic rocks: mainly bare, hummocky or rolling areas composed of crystalline intrusive and metamorphic rocks of Precambrian age; includes areas thinly veneered by Quaternary unconsolidated sediments up to 1 m. (3') thick; below an elevation of 198 m. (650') this cover commonly consists of washed and reworked glacial till which in many places has been reduced to a sprinkle of glacial erratics resting directly on the bedrock

..... Geological boundary

..... Bedrock scarps

..... Former strandline positions of Champlain Sea indicated by flights of abandoned marine beaches

..... Estuarine and river channel bluffs cut in marine clay

..... Fluvial channel scars showing flow direction in abandoned estuarine and river channels and terraces

..... Head scarp of landslide

..... Ridge crests of tilted or slumped blocks of clay and sand in landslide areas

..... Depositional pattern of alluvial fan

..... Abandoned postglacial river channels; valley walls, gullies and present day drainage ways; includes some man-made field and road side drainage ditches

F ..... Fossil locality

..... Gravel or sand pit

..... Bedrock quarry

11,600+150 GSC-842 ..... Locality of specimen, dated in years by radiocarbon method

GEOLOGY BY S.H. RICHARD 1972, 73

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

OPEN FILE
DOSSIER PUBLIC
369
SEPT 1976
GEOLOGICAL SURVEY
COMMISSION GÉOLOGIQUE
OTTAWA

Produced, 1966, by the SURVEYS AND MAPPING BRANCH, DEPARTMENT OF ENERGY, MINES AND RESOURCES, from aerial photographs taken in 1964. Field surveys 1927 and 1960-61. Culture check 1964. Printed 1968.

Copies may be obtained from the Map Distribution Office, Department of Energy, Mines and Resources, Ottawa.

Établie en 1966, par la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES, d'après des photographies aériennes prises en 1964. Levés sur le terrain en 1927 et 1960-61. Vérification des ouvrages en 1964. Imprimée en 1968.

Ces cartes sont en vente au Bureau de distribution des cartes, ministère de l'Énergie, des Mines et des Ressources, Ottawa.

WAKEFIELD

GATINEAU COUNTY

QUÉBEC - ONTARIO

SCALE 1:50,000 ÉCHELLE

Miles 1 0 1 2 3 Miles

Metres 1000 500 0 1000 2000 3000 4000 Metres

Yards 1000 500 0 1000 2000 3000 4000 Verges

CONTOUR INTERVAL 50 FEET
Elevations in Feet above Mean Sea Level
North American Datum 1927
Transverse Mercator Projection
Some names on this map are not yet official.
Corrections or additions are invited by the Surveys and Mapping Branch.

ÉQUIDISTANCE DES COURBES 50 PIEDS
Élévations en pieds au dessus du niveau moyen de la mer
Niveau de référence nord américain 1927
Projection transverse de Mercator
Certains noms inscrits sur cette carte ne sont pas encore officiels. La Direction des levés et de la cartographie saurait gré au public de lui signaler corrections et additions.

Roads: / Routes:

		more than 2 lanes, plus de 2 voies	2 lanes, 2 voies
hard surface, all weather	pavée, toute saison		
		less than 2 lanes, moins de 2 voies	
hard surface, all weather	pavée, toute saison		
loose or stabilized surface, all weather	gravier agglomiré, toute saison	2 lanes or more, 2 voies ou plus	less than 2 lanes, moins de 2 voies
loose surface, dry weather	de gravier, période sèche		
cart track	de terre		
trail or portage	sentier ou portage		
Railway, normal gauge, single track	Chemin de fer, voie unique (écartement normal)	siding, voie d'évitement	station, gare
Horizontal control point, with elevation	Point géodésique avec cote		211 △
Bench mark, with elevation	Repère de nivellement avec cote		BM 218→

Building	Bâtiment	Barn	Grange
School	École	Post office	Bureau de poste
Church	Église	Cemetery	Cimetière
Mine or Open cut	Mine ou fosse à ciel ouvert		
Lighthouse	Phare		
Power transmission line	Ligne de transport d'énergie		
River with bridge	Rivière avec pont		
Stream, intermittent or dry	Cours d'eau intermittent, ou à sec		
Lake intermittent; indefinite	Lac intermittent; rive imprécise		
Marsh or Swamp	Marais ou marécage		
Depression contours	Courbes de cuvette		

CONVERSION SCALE FOR ELEVATIONS
Feet 1000 900 800 700 600 500 400 300 200 100 0
Metres 300 250 200 150 100 50 0

T.N. 0° 38' or 11 Mils
11°09' or 198 Mils
Magnetic North
Grid North

Use diagram only to obtain numerical values.
APPROXIMATE MEAN DECLINATION 1966
FOR CENTRE OF MAP
Annual change increasing 0.2'

GRID ZONE DESIGNATION	100,000 M. SQUARE IDENTIFICATION
18T	VF

TO GIVE A REFERENCE TO NEAREST 100 METRES

EXAMPLE: CHURCH

EASTING: Read number on grid line immediately to left of point 30
Estimate tenths of a square from this line eastward to point. 2
302

NORTHING: Read number on grid line immediately below point 50
Estimate tenths of a square from this line northward to point. 0
500

MILITARY GRID REFERENCE 302500

Nearest similar grid reference 100,000 metres (about 63 miles)

ONE THOUSAND METRE
UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 18

TABLEAU D'ASSEMBLAGE DU SYSTÈME NATIONAL DE RÉFÉRENCE CARTOGRAPHIQUE

76°15'		75°30'
31F/16 E	31G/13W	31G/13E
31F/9 E	31G/12W WAKEFIELD	31G/12E
31F/8 E	31G/5W	31G/5E

45°15' 45°15'

INDEX TO ADJOINING MAPS OF THE NATIONAL TOPOGRAPHIC SYSTEM

WAKEFIELD
31 G/12W
EDITION 2

This document was produced by scanning the original publication.
Ce document est le produit d'une numérisation par balayage de la publication originale.