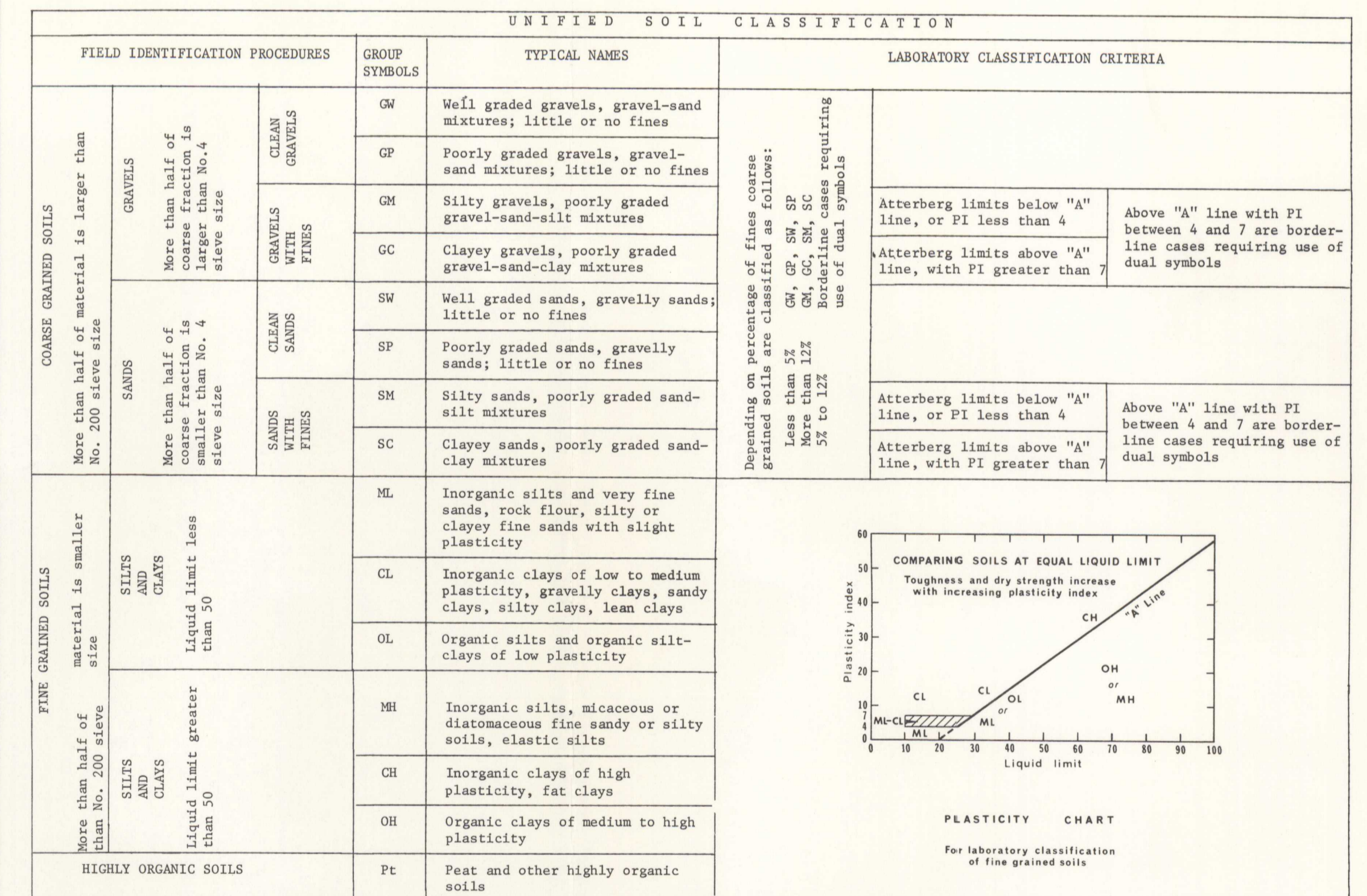


LEGEND

Susceptibility rank	Map Unit	Soil type symbol	General description	Comments
I			Bedrock - shales, sandstones, carbonates and siltstones. Very low ice content except in shale where fractures are filled with ice to depth of 100-150 ft.	Competent carbonates and sandstones can be used as source of granular material. Rock falls and slides occur on steep slopes, rotational slumps common on high cliffs of shale. No changes caused by disturbance except on steep slopes of frozen shale.
II		GP	Gravel - medium to coarse, poorly graded, high permeability. Low ice content in coarse materials, locally ice lenses in finer sediments. Ground ice generally absent in beach sediments.	Good source of granular material. Locally minor ground ice slumping and thermokarst subsidence can be caused by disturbance.
		SP	Sand - fine to medium, poorly graded, moderate to high permeability. Low to moderate ice content, seams of segregated ice.	Suitable as source of granular material. Minor ground ice slumping and thermokarst subsidence can be caused by disturbance.
		SM	Silty sand, sandy silt-fine, poorly graded, low permeability, on slopes <math>< 5^\circ</math>. Moderate to high ice content, locally with thin lenses of segregated ice. Discontinuous organic cover up to 10 ft.	Poor source of borrow material, can be improved by artificial drying. Minor ground ice slumping, gullying, and thermokarst subsidence can be caused by disturbance.
III		CL	Clayey to silty till - fine, low to medium plasticity, low permeability, on slopes <math>< 5^\circ</math>. Moderate ice content with thin seams and locally thicker lenses of segregated ice. Discontinuous organic cover up to 10 ft.	Suitable as borrow material (fill) only where ice content is low. Low to moderate susceptibility to thermokarst subsidence, gullying and ground ice slumping due to disturbance.
		SM, ML	Silty sand, sandy silt - fine, poorly graded, low permeability, on slopes >math>5^\circ</math>. Moderate to high ice content, locally with thin lenses of segregated ice. Locally overlain by patches of organic cover.	Poor source of borrow material, can be improved by artificial drying. Moderate susceptibility to thermokarst subsidence, gullying and ground ice slumping due to disturbance.
IV		Pt	Peat and fen complex - porous, high compressibility, extremely high moisture content. Peat - moderate to high ice content, up to 50% of segregated ice, locally unfrozen from 1 to 3 ft. Fen - commonly unfrozen to depth of 6 ft., locally some segregated ice at greater depths.	Unfavorable for construction purposes. High susceptibility to terrain subsidence due to disturbance.
		CL	Clayey to silty till - fine, low to medium plasticity, low permeability, on slopes >math>5^\circ</math>. Moderate ice content with thin seams and locally thicker lenses of segregated ice. Irregular patches of organic cover.	Suitable as borrow material (fill) only where ice content is low. Moderate to high susceptibility to thermokarst subsidence, gullying and ground ice slumping due to disturbance; locally superficial mudflows and flow slides.
V		OH, CH	Organic and inorganic clay, clayey silt - very fine, low permeability, high plasticity, on slopes <math>< 5^\circ</math>. Moderate to high ice content. Up to 10% of segregated ice as thin seams in upper layers, tabular ice bodies at greater depths. Discontinuous organic cover up to 10 ft.	Very poor source of fill material. High susceptibility to major thermokarst slumping and rapid gullying due to disturbance.
VI		OH, CH	Organic and inorganic clay, clayey silt - very fine, low permeability, high plasticity, on slopes >math>5^\circ</math>. Moderate to high ice content. Up to 10% of segregated ice as thin seams in upper layers, tabular ice bodies at greater depths. Irregular patches of organic cover.	Very poor source of fill material. High susceptibility to major thermokarst slumping and rapid gullying due to disturbance; large detachment slides and retrogressive flow slides common.

Note: Soil symbols according to Unified Soil Classification System.

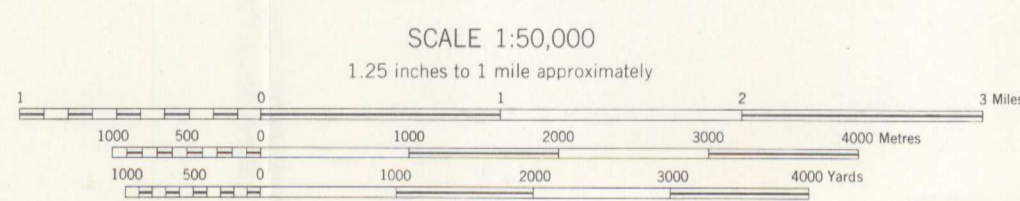


MAP 19 - 1973
TERRAIN DISTURBANCE SUSCEPTIBILITY MAPS

by P.J. Kurfurst, 1973

Produced by Department of Energy, Mines and Resources as part of the Environmental Social Program of the Task Force on Northern Oil Development

THREE DAY LAKE
DISTRICT OF MACKENZIE
NORTHWEST TERRITORIES



CONTOUR INTERVAL 50 FEET
Elevations in Feet above Mean Sea Level
North American Datum 1927-1953
Transverse Mercator Projection

REFERENCE

all weather	Water road
dry weather	Water road
water, cart track	Water road
trail, cut line or portage	Water road
Railways:	
normal gauge, multiple track	Steam
normal gauge, single track	Steam
abandoned or under construction	Steam
Bridges, road, railway	
Cutting, Embankment	
Boundaries:	
international, with monument	
provincial	
county or district	
township or parish	
paths, reserves, etc.	
section line, with number	20
Mine or open cut	8
Building, Barn	8
Church	5
Graveyard	5

REFERENCE

Power transmission line	
Telephone line	
Horizontal control point, with elevation	454
Bench mark, with elevation	HM 157
Streams	
intermittent or dry	
intermediate	
Lake, intermittent, indefinite	
fringed land, seasonal	
Marsh or Swamp	
Glacier or Snowfield	
Foreshore flats	
What or Pier, Breakwater	
Rocky reef	
Small island, rock bare or awash	
Contours:	
elevation	750
depression	
approximate	
OH	
Esker	
Forest	