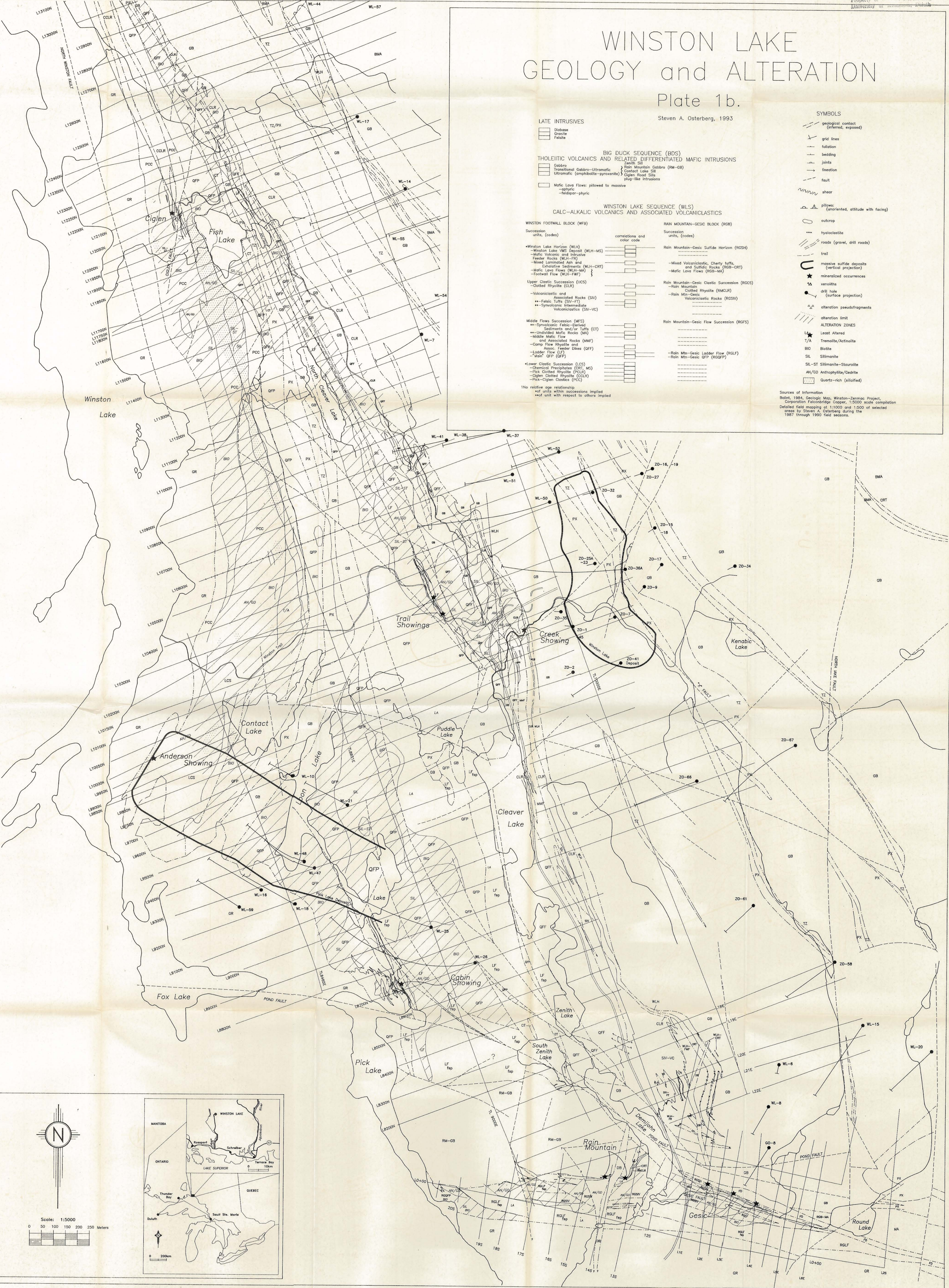


WINSTON LAKE GEOLOGY and ALTERATION

Plate 1b.

Steven A. Osterberg, 1993



LATE INTRUSIVES

- Diorite
- Granite
- Felsite

BIG DUCK SEQUENCE (BDS)

- Diabase
- Transitional Gabbro-Ultramafic
- Ultramafic (amphibole-pyroxene)
- Rain Mountain Gabbro (RM-GB)
- Contact Lake Sill
- Ciglen Road Sills
- slip-like intrusions

WINSTON LAKE SEQUENCE (WLS)

CALC-ALKALIC VOLCANICS AND ASSOCIATED VOLCANICLASTICS

- WINSTON FOOTWALL BLOCK (WFB)**
 - Succession units, (codes)
 - Winston Lake VMS Deposit (WLH-MS)
 - Mafic Volcanic and Intrusive Feeder Rocks (WLH-FI)
 - Mafic Laminated Ash and Exhaustive Sediments (WLH-CRT)
 - Mafic Lava Flows (WLH-MA)
 - Footwall Flow (WLH-FWF)
 - Upper Clastic Succession (LCS)
 - Clotted Rhyolite (CLR)
 - Volcaniclastic and Associated Rocks (SV)
 - Felsic Tuffs (SV-FI)
 - Synvolcanic Intermediate Volcaniclastics (SV-VC)
 - Middle Flows Succession (MFS)
 - Synvolcanic Felsic-Derived Sediments and/or Tuffs (CT)
 - Undivided Mafic Rocks (MA)
 - Middle Mafic Flow and Associated Rocks (MMF)
 - Comp Flow Rhyolite and Assoc. Feeder Dikes (OFF)
 - Ladder Flow (LF)
 - Main QFP (QFP)
 - Lower Clastic Succession (LCS)
 - Chemical Precipitates (CR, MS)
 - Felsic Clotted Rhyolite (CLR)
 - Ciglen Clotted Rhyolite (CCLR)
 - Felsic-Ciglen Clastics (CC)
- RAIN MOUNTAIN-GEIC BLOCK (RGB)**
 - Succession units, (codes)
 - Rain Mountain-Geic Sulfide Horizon (RCSH)
 - Mixed Volcaniclastic, Cherty tuffs, and Sulfidic Rocks (RGB-CRT)
 - Mafic Lava Flows (RGB-MA)
 - Rain Mountain-Geic Clastic Succession (RCCS)
 - Rain Mountain Clotted Rhyolite (RMCLR)
 - Rain Mt-Geic Volcaniclastic Rocks (RCSV)
 - Rain Mountain-Geic Flow Succession (RGFS)
 - Rain Mt-Geic Ladder Flow (RGLF)
 - Rain Mt-Geic QFP (RGQFP)

SYMBOLS

- geological contact (interred, exposed)
- grid lines
- foliation
- bedding
- joints
- lineation
- fault
- shear
- pillow (oriented, attitude with facing)
- outcrop
- hyaloclastite
- roads (gravel, drill roads)
- trail
- massive sulfide deposits (vertical projection)
- mineralized occurrences
- veinoliths
- drill hole (surface projection)
- alteration pseudofragments
- alteration limit
- ALTERATION ZONES
 - Least Altered
 - T/A Tremolite/Actinolite
 - BIO Biotite
 - SIL Silimanite
 - SIL-ST Silimanite-Stauronite
 - AN/GD Anthophyllite/Gedrite
 - Quartz-rich (silicified)

Sources of Information
 Baker, 1984, Geologic Map, Winston-Zemaco Project, Corporation Falconbridge Copper, 1:5000 scale compilation
 Detailed field mapping at 1:1000 and 1:500 of selected areas by Steven A. Osterberg during the 1987 through 1990 field seasons.

