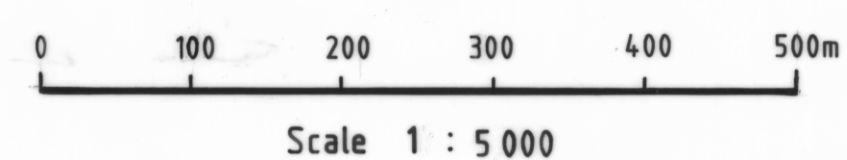


# ENGINEERING GEOLOGY COMPILATION BLACKSTONE HEIGHTS SUBDIVISIONS



Scale 1 : 5 000

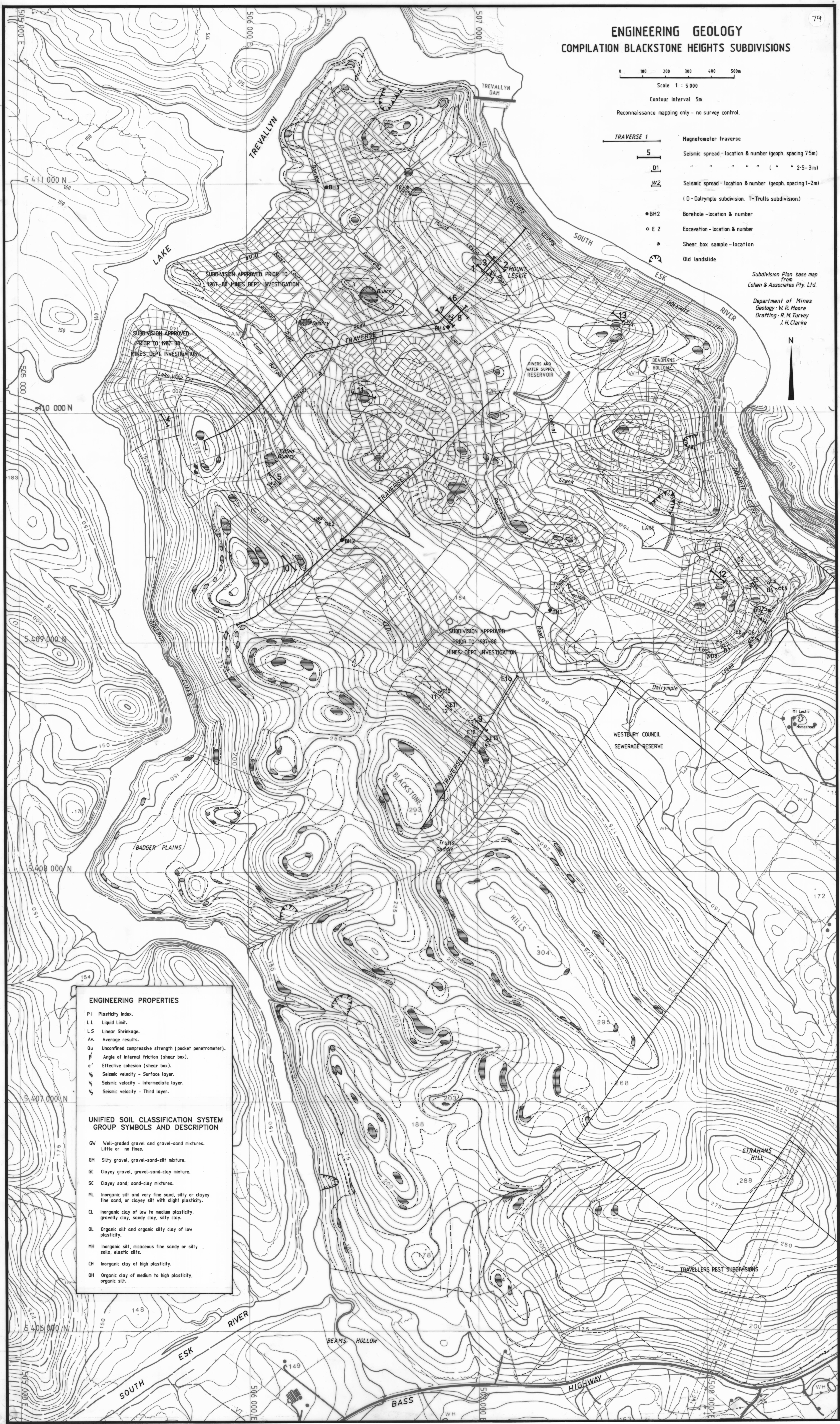
Contour Interval 5m

Reconnaissance mapping only - no survey control.

- TRAVERSE 1**
- 5** Magnetometer traverse
  - D1** Seismic spread - location & number (geoph. spacing 7.5m)
  - W2** " " " " " " " " ( " " 2.5-3m)
  - D1** Seismic spread - location & number (geoph. spacing 1-2m)
  - (D - Dalrymple subdivision, T-Trulls subdivision)
  - BH2** Borehole - location & number
  - E 2** Excavation - location & number
  - φ** Shear box sample - location
  - Old landslide

Subdivision Plan base map from Cohen & Associates Pty. Ltd.

Department of Mines Geology: W. R. Moore Drafting: R. M. Turvey J. H. Clarke



**ENGINEERING PROPERTIES**

- P I Plasticity Index.
- L L Liquid Limit.
- L S Linear Shrinkage.
- Av. Average results.
- Qu Unconfined compressive strength (pocket penetrometer).
- $\phi$  Angle of internal friction (shear box).
- $c'$  Effective cohesion (shear box).
- $V_s$  Seismic velocity - Surface layer.
- $V_i$  Seismic velocity - Intermediate layer.
- $V_t$  Seismic velocity - Third layer.

**UNIFIED SOIL CLASSIFICATION SYSTEM GROUP SYMBOLS AND DESCRIPTION**

- GW Well-graded gravel and gravel-sand mixtures. Little or no fines.
- GM Silty gravel, gravel-sand-silt mixture.
- GC Clayey gravel, gravel-sand-clay mixture.
- SC Clayey sand, sand-clay mixtures.
- ML Inorganic silt and very fine sand, silty or clayey fine sand, or clayey silt with slight plasticity.
- CL Inorganic clay of low to medium plasticity, gravelly clay, sandy clay, silty clay.
- OL Organic silt and organic silty clay of low plasticity.
- MH Inorganic silt, micaceous fine sandy or silty soils, elastic silts.
- CH Inorganic clay of high plasticity.
- OH Organic clay of medium to high plasticity, organic silt.