LAND CONSERVATION COUNCIL

MELBOURNE STUDY AREA REPORT

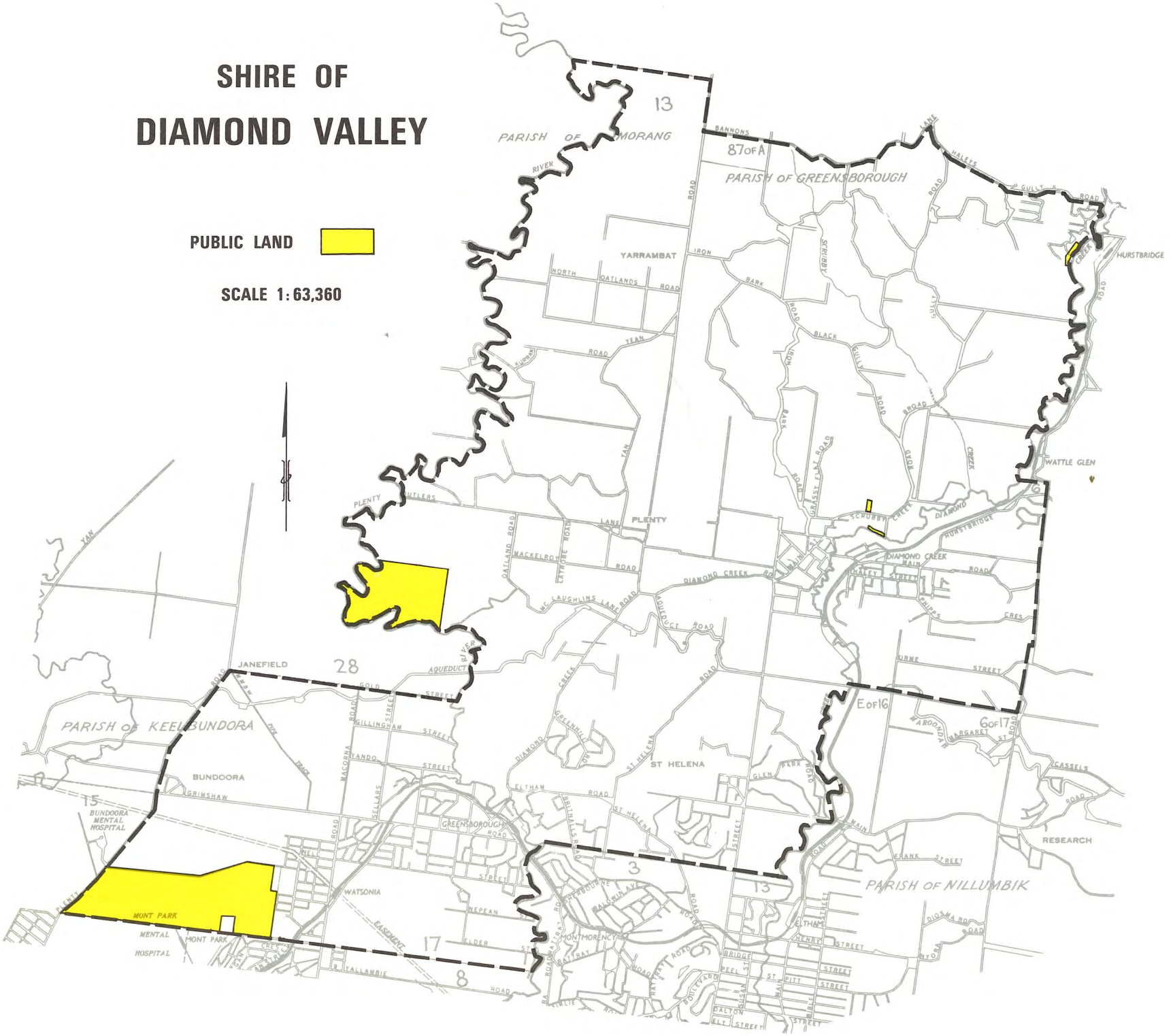
VOLUME 2

(COLOURED MAPS)

SHIRE OF
DIAMOND VALLEY

PUBLIC LAND

SCALE 1: 63,360



LAND CONSERVATION COUNCIL
VICTORIA

MELBOURNE STUDY AREA

PUBLIC LAND
AND
DESCRIPTIVE BLOCKS

PUCKAPUNYAL

STRATHBOGIE

EILDON

LODDON

ROMSEY

DISAPPOINTMENT

BREAK O'DAY

BLACK RANGE

CERBEREAN

UPPER GOULBURN

WOMBAT

KINGLAKE

DONNA BUANG

THOMSON

WERRIBEE

UPPER YARRA

BRISBANE RANGES

DANDENONGS

BUNYIP–LATROBE

TYERS

SHADY CREEK

WESTERN PORT

TORQUAY

STRZELECKI

LEGEND

PUBLIC LAND

BLOCK BOUNDARY

BLOCK NAME — ROMSEY

Scale 1:250,000

MILES 10 5 0 10 MILES

KILOMETRES 15 10 5 0 15 KILOMETRES

MAP No.1

LAND CONSERVATION COUNCIL
VICTORIA

MELBOURNE STUDY AREA

POPULATION DISTRIBUTION

LEGEND

BUILT-UP URBAN AREA

Over 100,000 persons

50,000-99,999 persons

20,000-49,999 persons

10,000-19,999 persons

5,000-9,999 persons

2,500-4,999 persons

1,000-2,499 persons

RURAL AREA

500-999 persons

100 persons

Camps and Institutions over 500 persons

Possible future direction of urban growth

Generalised outline of public land

Main highways

Railways

Source: Commonwealth Bureau of Census and Statistics Map of Population Distribution of Victoria, 1966.
and Town and Country Planning Board (Organisation for Strategic Planning, 1967.)

Scale 1:500,000

MILES 16 12 8 4 0 16 MILES

KILOMETRES 15 10 5 0 15 KILOMETRES

MAP No.2

LAND CONSERVATION COUNCIL
VICTORIA

MELBOURNE STUDY AREA

GEOLOGY

		SEDIMENTARY		IGNEOUS	
		Non-Marine	Marine	Extrusive	Intrusive
Quaternary		Q		Qv	
Tertiary	Pliocene	Tp			
	Miocene — Palaeocene	Tl		Tv	
Cretaceous	Lower	Kl			
Triassic Permian		P			
Carboniferous	Lower	Cl			
Devonian	Upper	Du		Dv	Dg
	Lower		Dl		
Silurian			S		
Ordovician	Upper — Middle		Ou-m		
	Lower		Ol		
Cambrian			€		

Q	Non-marine Marine	*Alluvium, colluvium, aeolian siliceous sand, calcareous sand, dune limestone.* *Sandy limestone, shelly limestone, shell beds.*
Qv	Newer Volcanics	*Olivine basalt with subordinate alkaline derivatives, tuff, scoria, agglomerate.*
Tp	Non-marine Marine	*Sand, silt, clay, gravel, quartzite, ferruginous, sand and grit.* *Sand, ferruginous sand, calcareous sand, limestone, gravel.*
Tl	Non-marine Marine	*Gravel, sand, clay, brown coal.* *Glauconitic silt, calcareous silt, sand, clay, sandy clay gravel, limestone, marl.*
Tv	Older Volcanics	*Olivine basalt, titanaugite basalt, associated pyroclastics, plugs, dykes.*
Kl	Non-marine	*Sandstone, mudstone, siltstone, thin black coal seams, conglomerate.*
P	Non-marine Glacial and fluvioglacial	*Siltstone, sandstone.* *Tillite, conglomerate, felspathic sandstone. Minor marine conglomerate. Includes small outcrop of probable Triassic age at Bacchus Marsh.*
Cl	Non-marine	*Conglomerate, red sandstone and siltstone.*
Du	Non-marine	*Sandstone, conglomerate, red sandstone, mudstone.*
Dg		*Granite, granodiorite, adamellite, borehblende porphyrite.*
Dv		*Rhyolite, rhyodacite, dacite, teschenite subordinate basalt,tuff, agglomerate.*
Dl	Marine	*Siltstone, claystone, sandstone, mine limestone and conglomerate.*
S	Marine	*Siltstone, claystone, sandstone, slate, minor conglomerate.*
Ou-m	Marine	*Siltstone, claystone, slate, sandstone.*
Ol	Marine	*Siltstone, claystone, slate, sandstone.*
€	Marine Igneous	*Shale, chert.* *Greenstone.*

Normal Fault — Position accurate / Position approximate
Reverse Fault
Monocline

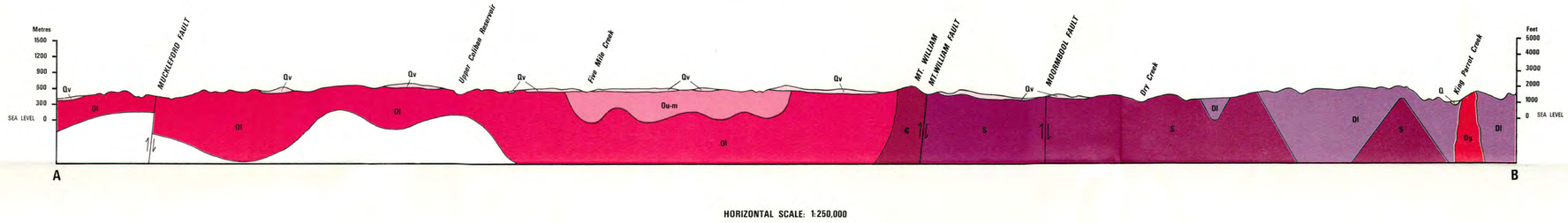
Scale 1:500,000

MILES 16 12 8 4 0 16 MILES
KILOMETRES 15 10 5 0 15 KILOMETRES

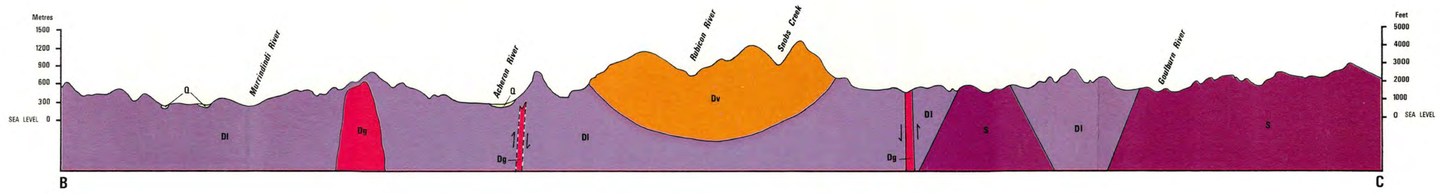
SOURCE: DEPARTMENT OF MINES VICTORIA

DIAGRAMMATIC SECTIONS

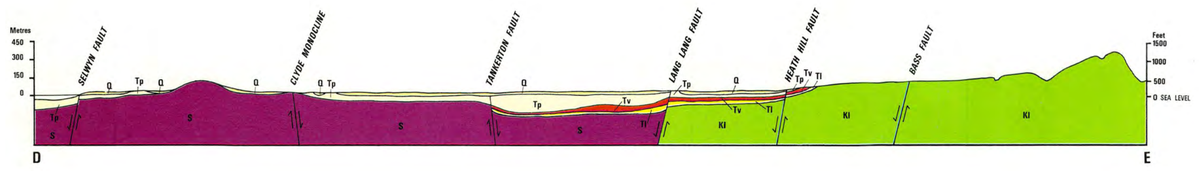
HORIZONTAL SCALE: 1:250,000
VERTICAL SCALE: 1:60,000



HORIZONTAL SCALE: 1:250,000
VERTICAL SCALE: 1:60,000



HORIZONTAL SCALE: 1:250,000
VERTICAL SCALE: 1:30,000



MAP No.3

LAND CONSERVATION COUNCIL

VICTORIA

MELBOURNE STUDY AREA

PHYSIOGRAPHY

LEGEND

PHYSIOGRAPHIC UNITS

NORTHERN HIGHLANDS

- BAW BAW SURFACE
- KINGLAKE SURFACE
- NILLUMBIK SURFACE
- OUTLYING HILLS
- FOOTHILLS AND STREAM VALLEYS

SOUTHERN UPLANDS

CENTRAL LOWLANDS

- TERTIARY SEDIMENTARY AND OLDER VOLCANIC PLAINS
- NEWER VOLCANIC PLAINS
- POST TERTIARY SEDIMENTARY PLAINS

FEATURE NAMES ..... WERRIBEE PLAINS

FAULTS

MONOCLINES

Scale 1:500,000

MILES 16 12 8 4 0 16 MILES

KILOMETRES 15 10 5 0 15 KILOMETRES

PREPARED FROM INFORMATION PROVIDED BY A.H.M.VANDENBERG
GEOLOGICAL SURVEY VICTORIA

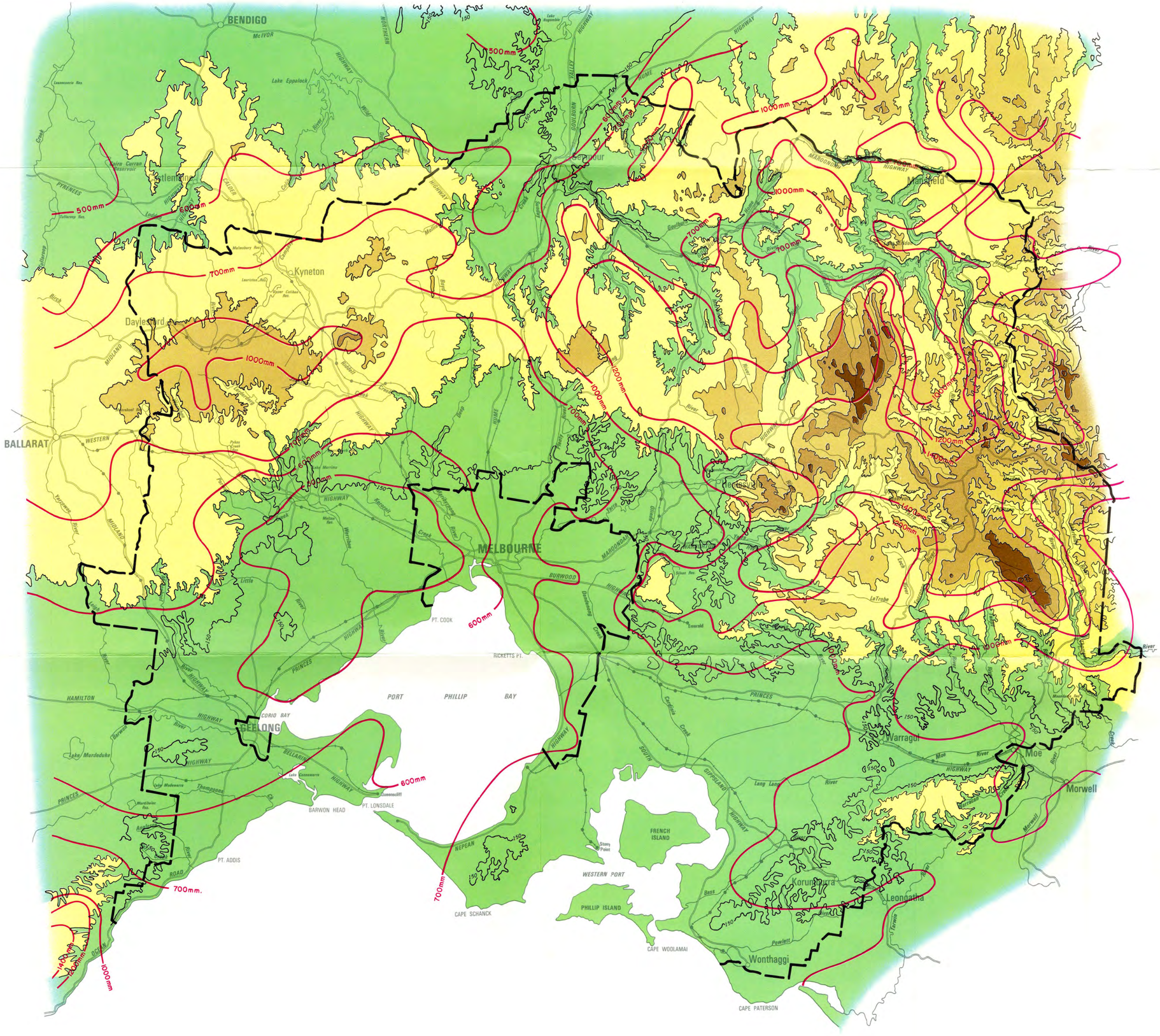
MAP No.4

LAND CONSERVATION COUNCIL

VICTORIA

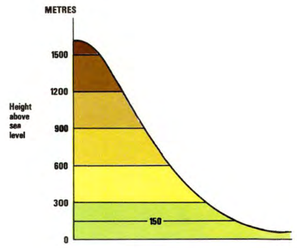
MELBOURNE STUDY AREA

TOPOGRAPHY AND RAINFALL



LEGEND

TOPOGRAPHY



RAINFALL

AVERAGE ANNUAL ISOHYETS — 600 mm

Scale 1:500,000

MILES 16 12 8 4 0 16 MILES

KILOMETRES 15 10 5 0 15 KILOMETRES

MAP No.5

VEGETATION

MAP No.6

LAND CONSERVATION COUNCIL
VICTORIA

MELBOURNE STUDY AREA

VEGETATION UNITS

Structural form	Major species of tallest stratum	Associated tree species	Form and common species of lower strata
SUB-ALPINE COMPLEX — Open-forest / Woodland	*White sallee.*	*Mountain gum, Ash mallee, Black sallee, Tingaringy gum.*	*Grass, low shrubs or heath; Tussock grass, Mountain cotula, Sub-alpine beard-heath, Alpine wattle.*
SUB-ALPINE COMPLEX — Heath	*Alpine mint-bush, Alpine phebalium.*		*Alpine pepper, Bow-Bow berry, Alpine oxylobium, Mueller's bush-pea, Leafy bossiaea.*
SUB-ALPINE COMPLEX — Heath	*Candle heath, Alpine heath, Silver astelia.*		*Snow heath, Mountain baeckea, Alpine baeckea.*
SUB-ALPINE COMPLEX — Herbfield / Grassland	*Tussock grass, Snow daisy, Alpine wallaby-grass.*		*Grass trigger-plant, Glacial eyebright, Mountain gentian.*
SUB-ALPINE COMPLEX — Sedgefield	*Sphagnum, Spreading rope-rush, sedges.*		
OPEN FOREST IV Taller than 40 metres	*Alpine ash.*	*Shining gum.*	*Ferns, sparse to dense shrubs, scattered small trees; Mountain hickory wattle, Elderberry panax, Hop-bitter pea, Tussock grass, Derwent speedwell, Mother shield-fern.*
OPEN FOREST IV Taller than 40 metres	*Mountain ash.*	*Shining gum, Manna gum, Mountain grey gum, Messmate stringybark.*	*Tree ferns, dense layers of shrubs and small trees; Musk daisy-bush, Blanket-leaf, Silver wattle, Mountain correa, Hazel pomaderris, Forest wiregrass.*
OPEN FOREST IV Taller than 40 metres	*(Closed forest in the wet gullies)*	*Myrtle beech, Blackwood, Sassafras.*	*Ferns and mosses*
OPEN FOREST IV Taller than 40 metres	*(Unstocked)* *(Scrub and closed forest resulting from repeated fires)*	*Silver wattle, Blackwood, Mountain hickory wattle, Acacia frigescens.*	*Common cassinia, Hop goodenia, Austral bracken, Forest wiregrass, Hop bitter-pea.*
OPEN FOREST IV Taller than 40 metres	*(Regrowth)* *As for mature stands.*		
OPEN FOREST III 28-40 metres	*Messmate stringybark*	*Narrow-leaf peppermint, Mountain grey gum, Manna gum, Eurabbie.*	*Varies with micro environment and fire history, generally dense tall shrubs; Narrow-leaf wattle, Hop goodenia, Prickly bush-pea, Red-fruited saw-sedge Prickly moses, Hairpin banksia, Forest wiregrass.*
OPEN FOREST III 28-40 metres	*Narrow-leaf peppermint*	*Candlebark, Manna gum*	
OPEN FOREST III 28-40 metres	*Silvertop*	*Messmate stringybark, Brown stringybark, White stringybark, Yertchuk.*	

FOR CONTINUATION SEE BELOW

VEGETATION UNITS (CONTINUED)

Structural form	Major species of tallest stratum	Associated tree species	Form and common species of lower strata
WOODLAND (Heath or scrub understorey)	*Shining peppermint*	*Messmate stringybark, Brown stringybark.*	*Low heath, Thatch saw-sedge, Dwarf she-oak, Horny cone bush, Austral grass-tree, Sweet wattle, Heath tea tree.*
WOODLAND (Heath or scrub understorey)	*Messmate stringybark*	*Narrow-leaf peppermint*	*Low heath, Prickly tea-tree, Scented paperbark, Showy bossiaea, Pink swamp heath, Scrub she-oak, Spreading rope-rush.*
WOODLAND (Heath or scrub understorey)	*Silver-leaf stringybark*	*Broad-leaf peppermint*	*Low heath, Thatch saw-sedge, Dwarf she-oak, Horny cone bush, Austral grass-tree, Sweet wattle, Heath tea-tree.*
WOODLAND (Heath or scrub understorey)	*Broad-leaf peppermint*	*Silver-leaf stringybark*	*Low heath, Thatch saw-sedge, Silver banksia, Heath tea tree, Pouched coral-fern, Common heath, Furze bakea.*
WOODLAND (Heath or scrub understorey)	*Manna gum*	*Narrow-leaf peppermint*	*Dense shrubs, Prickly tea-tree, Scented paperbark, Bergan, Smooth parrot-pea, Pouched coral-fern, Common heath.*
WOODLAND (Grassy or open understorey)	*River red gum*		*Grassy; Kangaroo grass, Spear grass, Blushing bindweed, Pussy tails, wallaby-grasses, Black wattle.*
WOODLAND (Grassy or open understorey)	*Grey box*	*Yellow box*	*Grassy; Golddust wattle, Varnish wattle, Tussock grass, Variable sword-sedge, guinea-flowers.*
WOODLAND (Grassy or open understorey)	*Red ironbark*	*Long-leaf box, Red box, Red stringybark, Yellow gum*	*Open; Golden wattle, Spreading wattle, Goldfields grevillea, Drooping cassinia, Common hop-bush, Daphne heath.*
WOODLAND (Grassy or open understorey)	*Manna gum*	*River red gum, Swamp gum*	*Grassy, Kangaroo grass, Spear grass, Erect guinea-flower, parrot-peas, sedges.*
WOODLAND (Grassy or open understorey)	*Yellow gum*		*Grassy, Guinea-flowers, parrot-peas, sedges.*

FOR CONTINUATION SEE BELOW

VEGETATION UNITS (CONTINUED)

Structural form	Major species of tallest stratum	Associated tree species	Form and common species of lower strata
OPEN FOREST II 15-28 metres	*Messmate stringybark*	*Narrow-leaf peppermint, Candlebark, Manna gum, Brown stringybark.*	*Generally low open shrubs; Narrow-leaf wattle, Prickly tea-tree, Juniper wattle, Narrow-leaf bitter-pea, Smooth parrot-pea, Purple coral-pea, Thatch saw sedge, Tussock grass, Spear grass.*
OPEN FOREST II 15-28 metres	*Narrow-leaf peppermint*	*Candlebark, Broad-leaf peppermint.*	
OPEN FOREST II 15-28 metres	*Silvertop*	*White stringybark, Brown stringybark, Yertchuk.*	
OPEN FOREST II 15-28 metres	*Red stringybark*	*Narrow-leaf peppermint, Candlebark, Eurabbie, Messmate stringybark.*	
OPEN FOREST I less than 15 metres	*Red stringybark*	*Red box, Long-leaf box, Broad-leaf peppermint, Eurabbie.*	*Sparse ground cover of grasses and low shrubs; Tussock grass, Spreading flax-lily, Purple coral-pea, Showy guinea-flower, Silver wattle.*
OPEN FOREST I less than 15 metres	*Broad-leaf peppermint*	*Scent bark, Red box, Candlebark, Long-leaf box.*	*Sparse ground cover of grasses and low shrubs; Small grass-tree, Mountain grevillea, Gorse bitter-pea, Common correa, Bushy needlewood.*
OPEN FOREST I less than 15 metres	*Red ironbark*	*Red box, Yellow box*	*Sparse ground cover of grasses and low shrubs; Daphne heath, Kneed wallaby-grass, Spreading wattle, Austral grass-tree, Myrtle wattle.*
OPEN FOREST I less than 15 metres	*Messmate stringybark*	*Brown stringybark*	*Sparse ground cover of grasses and low shrubs; Tussock grass, Common heath, Small grass-tree, Heath tea-tree, Myrtle wattle.*
OPEN FOREST I less than 15 metres	*Manna gum*	*White sallee, Narrow-leaf peppermint, Swamp gum.*	*Sparse ground cover of grasses and low shrub; Tussock grass, Kangaroo grass.*

FOR CONTINUATION SEE ABOVE RIGHT

VEGETATION UNITS (CONTINUED)

Structural form	Major species of tallest stratum	Associated tree species	Form and common species of lower strata
DRY COAST COMPLEX — Woodland	*Coast banksia, Drooping she-oak*		*Dense shrubs, Moonah, Wirilda, Coast tea-tree, Coast beard-heath, Sweet bursaria, Small-leaf clematis.*
DRY COAST COMPLEX — Scrub	*Coast tea-tree, Coast banksia*		*Small-leaf clematis, Sweet bursaria, Knobby club-rush.*
DRY COAST COMPLEX — Scrub	*Sallow wattle, Coast beard-heath*		*Coast everlasting, Seaberry saltbush, Common boobialla.*
DRY COAST COMPLEX — Shrubland	*Cushion bush*		*White correa, Coast everlasting, Sea box, Coast twin-leaf, Climbing lignum.*
DRY COAST COMPLEX — Grassland	*Coast fescue, Hairy spinifex, Marram grass*		*New Zealand spinach, Coast swainson-pea, Variable groundsel, Knobby club-rush, Sand-hill sword-sedge.*
WET COAST COMPLEX — Scrub	*White mangrove*		
WET COAST COMPLEX — Scrub	*Swamp paperbark, Scented paperbark, Woolly tea-tree*		*Spreading rope-rush, Prickly tea-tree.*
WET COAST COMPLEX — Heath	*Scented paperbark, Prickly tea-tree.*		*Pink swamp heath, sedges, rushes.*
WET COAST COMPLEX — Shrubland	*Shrubby glasswort, Grey glasswort.*		*Beaded glasswort, Creeping brookweed, Salt couch, Austral seablite, Sollitera, Sea rush.*
WET COAST COMPLEX — Herbfield - Grassland	*Rounded noon-flower, Pigface, Prickly spear-grass, rushes.*		
PLANTATION (Softwood)	*Exotic conifers*		
PLANTATION (Hardwood)	*Various eucalypts*		
CLEARED LAND	*Pasture, cultivated, abandoned farm land, recreation grounds, public utilities.*		

Scale 1:250,000

MILES 10 5 0 10 MILES
KILOMETRES 15 10 5 0 15 KILOMETRES

Compiled from information supplied by Forests Commission of Victoria, Melbourne and Metropolitan Board of Works, and other sources.

LAND CONSERVATION COUNCIL

VICTORIA

MELBOURNE STUDY AREA

OUTDOOR RECREATION

LEGEND

ENVIRONMENTS

HUMAN INFLUENCE OBVIOUS:

- Urban
- Agricultural-flat
- -undulating
- -steep
- Mixed (agricultural, urban and indigenous vegetation)
- Softwood plantation

HUMAN INFLUENCE LESS OBVIOUS:

- Indigenous vegetation -slopes not exceeding 20°
- -slopes exceeding 20°
- -sub-alpine
- Inland water bodies
- Coastal -beaches backed by low dunes
- -tidal flats and mangroves
- -cliffed with scattered beaches

NATURAL FEATURES

- Lookouts
- Cliff face
- Waterfall
- Mineral spring
- Canoeing Stream
- Fishing stream
- Water fowl
- Wildlife display
- Gemstones

HISTORIC FEATURES AND SITES

- Early mining centres
- Historic Buildings -classified list
- -recorded list

(National Trust - Prefix indicates numbers of buildings listed in the locality.)

- Aboriginal relics

FACILITIES

- Picnic grounds with fireplace and/or tables
- As above with toilets
- Ski tows and runs

ROUTES

- Scenic roads (long distance views)
- Other roads traversing typical land types
- Popular walking tracks

Public land

Note: Only inland recreation opportunities on public land have been shown. Facilities in urban areas and on private land not recorded.

Scale 1:250,000

MILES 10 5 0 10 MILES

KILOMETRES 15 10 5 0 15 KILOMETRES

MAP No.7

LAND CONSERVATION COUNCIL
VICTORIA

MELBOURNE STUDY AREA

WATER SUPPLY

LEGEND

AREAS SUPPLIED

- *Melbourne Metropolitan Area (M.M.B.W)*
- *Geelong (G.W.S.T.)*
- *Mornington Peninsula Water Works District (S.R.W.S.C.)*
- *Bellarine Peninsula Water Works District (S.R.W.S.C.)*
- *Bacchus Marsh, Werribee Irrigation District (S.R.W.S.C.)*
- *Towns with reticulated water supplies*

PRESENT CATCHMENT LAND USE

- *Water conservation only.Public access prohibited*
- *Some logging permitted.Public access restricted*
- *Normal logging.Unrestricted public access*
- *Normal Agriculture.Unrestricted public access*
- *Land use Determinations existing*
- *Proclaimed water supply catchment*
- *Public Land*

CATCHMENTS AND STORAGES

DOMESTIC WATER SUPPLY
- *Storage*
- *Catchment boundary*
- *Proposed additional catchments*

IRRIGATION AND DOMESTIC SUPPLY
- *Storage*
- *Catchment boundary*

(H) *Hydrological Research Catchments*

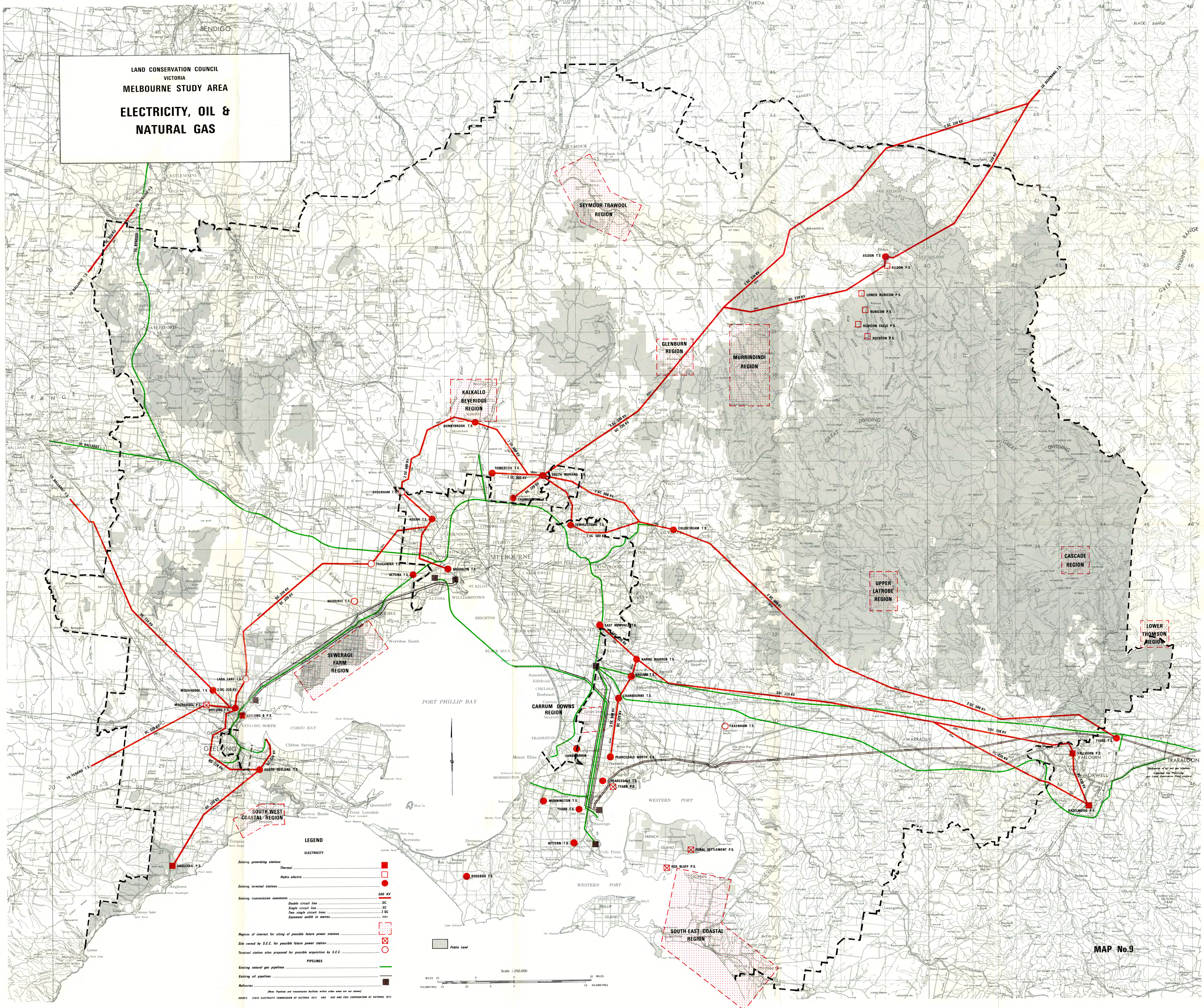
Scale 1:250,000

MILES 10 5 0 10 MILES
KILOMETRES 15 10 5 0 15 KILOMETRES

Note: Towns not connected to major catchments are supplied by diversion weirs from local streams. Bore supplies to Lang Lang.

Straight lines ——— connecting storages and catchments with areas serviced do not represent the actual route of existing pipelines or aqueducts.

MAP No.8


LAND CONSERVATION COUNCIL
VICTORIA
MELBOURNE STUDY AREA
ELECTRICITY, OIL & NATURAL GAS
SEYMOUR-TRAWOOL REGION
GLENBURN REGION
MURRINDINDI REGION
KALKALLO-BEVERIDGE REGION
UPPER LATROBE REGION
CASCADE REGION
LOWER THOMSON REGION
SEWERAGE FARM REGION
CARRUM DOWNS REGION
SOUTH-WEST COASTAL REGION
SOUTH-EAST COASTAL REGION
PORT PHILLIP BAY
WESTERN PORT
MELBOURNE
GEELONG
BENDIGO
TO BENDIGO T.S.
TO BALLARAT T.S.
TO TERANG T.S.
TO DEDERANG T.S.
EILDON T.S.
EILDON P.S.
LOWER RUBICON P.S.
RUBICON P.S.
RUBICON FALLS P.S.
ROYSTON P.S.
DONNYBROOK T.S.
SOMERTON T.S.
SOUTH MORANG T.S.
THOMASTOWN T.S.
SYDENHAM T.S.
KEILOR T.S.
TEMPLESTOWE T.S.
COLDSTREAM T.S.
TRUGANINA T.S.
BROOKLYN T.S.
ALTONA T.S.
WERRIBEE T.S.
EAST ROWVILLE T.S.
NARRE WARREN T.S.
HALLAM T.S.
CRANBOURNE T.S.
PAKENHAM T.S.
LANGWARRIN
PEARCEDALE NORTH T.S.
PEARCEDALE T.S.
TYABB P.S.
MORNINGTON T.S.
TYABB T.S.
BITTERN T.S.
ROSEBUD T.S.
PENAL SETTLEMENT P.S.
RED BLUFF P.S.
LARA LAKE T.S.
MOORABOOL T.S.
MOORABOOL P.S.
GEELONG T.S.
GEELONG B P.S.
SOUTH GEELONG T.S.
ANGLESEA P.S.
TYERS T.S.
YALLOURN P.S.
HAZELWOOD P.S.
2 SC 330 KV
DC 220 KV
2 SC 500 KV
3 DC 220 KV
2 DC 220 KV
3 SC 500 KV
SC 220 KV
2 SC 220 KV
Destination of oil and gas pipelines: Gippsland Gas Processing and Crude Stabilization Plant, Longford
LEGEND
ELECTRICITY
Existing generating stations
Thermal
Hydro-electric
Existing terminal stations
Existing transmission easements 500 KV
Double circuit line DC
Single circuit line SC
Two single circuit lines 2 SC
Easement width in metres 200m
Regions of interest for siting of possible future power stations
Site owned by S.E.C. for possible future power station
Terminal station sites proposed for possible acquisition by S.E.C.
PIPELINES
Existing natural gas pipelines
Existing oil pipelines
Refineries
[Note: Pipelines and transmission facilities within urban areas are not shown]
SOURCE: STATE ELECTRICITY COMMISSION OF VICTORIA 1973 AND GAS AND FUEL CORPORATION OF VICTORIA 1973
Public Land
Scale 1:250,000
MILES 10 5 0 10 MILES
KILOMETRES 15 10 5 0 15 KILOMETRES
MAP No.9