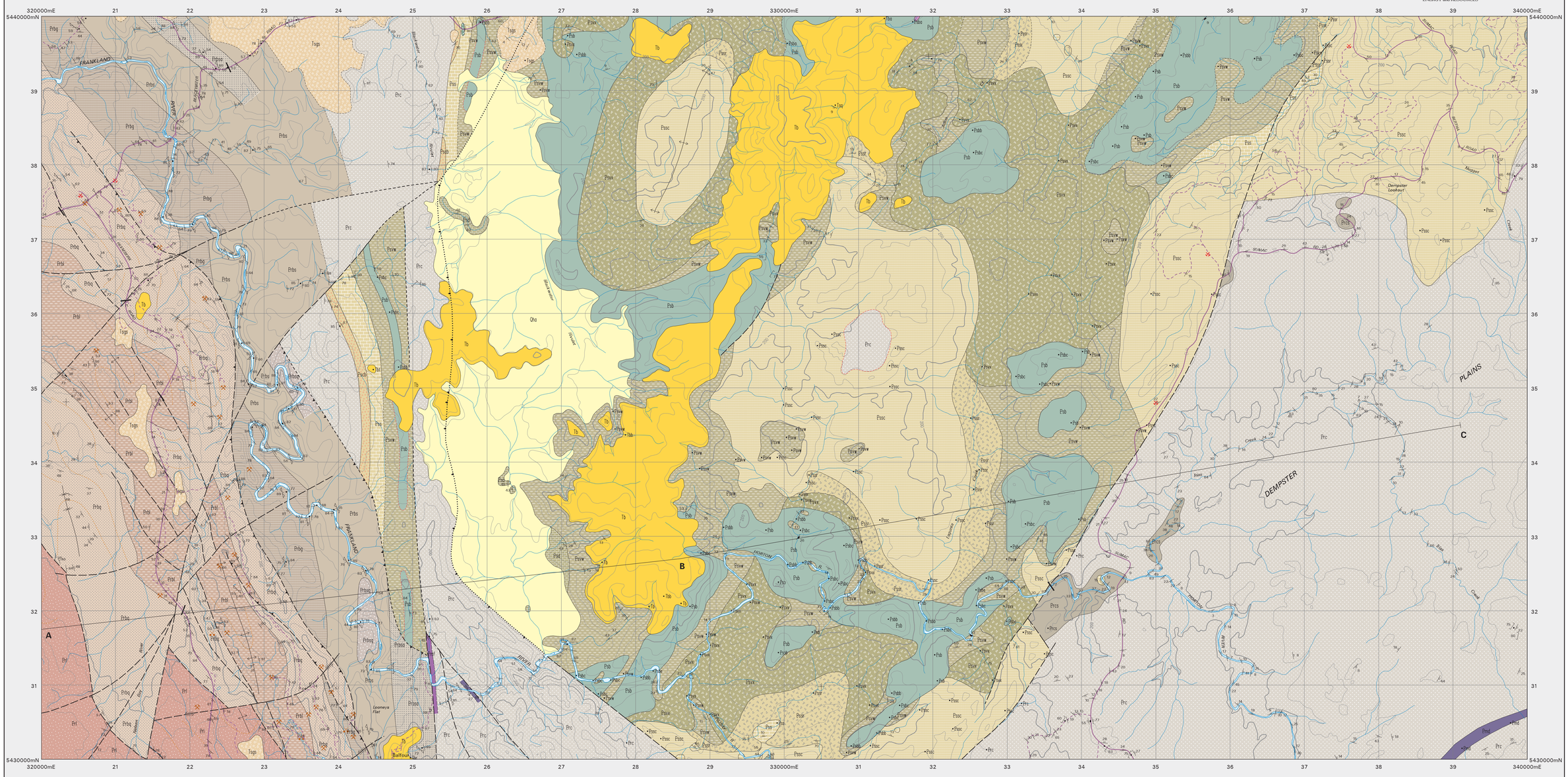
MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
DEMPSTER, SHEET 3243

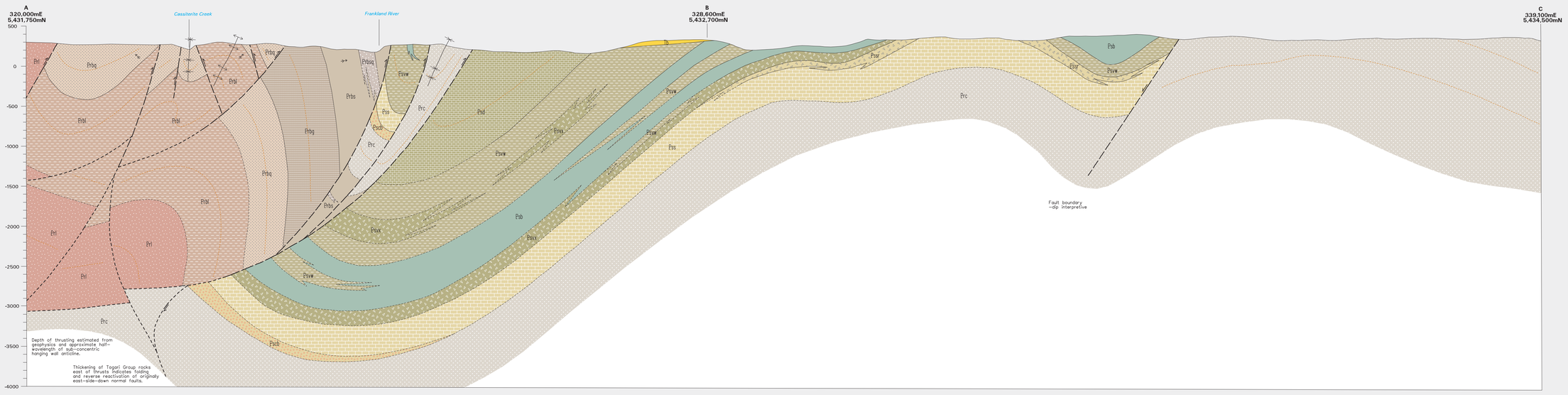
DEMPSTER

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES





CAINOZOIC

QUATERNARY – HOLOCENE

- **Qha** — *Alluvium and swamp deposits (Qha).*

Erosional surface.

TERTIARY

- **Tb** — *Basalt (Tb). Indurated quartz sand (Tqs) indicated.*
- **Tsgs** — *Interbedded siliceous gravel, quartz sand and clay (Tsgs).*

Angular unconformity.

PRECAMBRIAN

NEOPROTEROZOIC

- **Psd** — *Shallow marine dolomite and minor limestone (Psd) (Smithton Dolomite).*
- **Psvw** — *Interbedded laminated mudstone, siltstone, and lithic wacke with mafic volcanic detritus (Psvw. Hematitic ironstone indicated (Psvwi). (Keppel Creek Formation).*
- **Psb** — *Massive basalt (Psb). (Spinks Creek Volcanics).*
- **Psvz** — *Dominantly mixite (with clasts of basaltic and felsic volcanic rocks, dolomite, chert and mudstone–siltstone in a fine–grained non–dolomitic matrix), with interbedded laminated mudstone, siltstone and calcareous siltstone (Psvx). (Croles Hill Mixlite).*
- **Psvx**
- **Psz** — *Dolomitic breccia, with clasts of dolomite, stromatolitic dolomite and oolitic chert in a dolomitic matrix (Pssr). (Julius River Member).*
- **Pssn** — *Interbedded dolomite, chert, siltstone and mudstone (Pss). Interbedded, massive or banded, black, white and grey chert (oolitic in part) and laminated siltstone, with minor dolomite (Pssc).*
- **Pss**
- **Pssc**
- **Pscb** — *Chert breccia and conglomerate (with clasts dominantly of black, grey and white chert, and subordinate orthoquartzite) interbedded with pale grey–weathering distinctly laminated medium–grained quartzarenite (Pscb). (Correlate of Forest Conglomerate and Quartzite).*

Erosional and transgressive surface; low angle unconformity at some localities.

?MESOPROTEROZOIC

- **Prcs** / **Prc** — *Interbedded, black, dark grey and green, commonly pyritic, laminated siltstone and mudstone, with rare sandstone and mud pellet conglomerate (Prc). Silicified equivalent of unit Prc (Prcs). (Prc, Prcs: Cowrie Siltstone).*
- **Prbs** — *Laminated to thinly bedded, chloritic to siliceous siltstone to fine sandstone, containing variably disseminated porphyroblastic chlorite (Prbs).*
- **Prbsn** / **Prbsq** — *Micaceous fine–grained sandstone with subordinate interbedded siltstone and graphitic shale, and containing porphyroblastic chlorite (Prbsq). Pale–weathering, thickly bedded medium to coarse–grained quartzite interbedded with siltstone to fine sandstone (Prbsq).*
- **Prbg** — *Laminated chloritic mudstone to siltstone and rare sandstone containing variably disseminated porphyroblastic chlorite (Prbg).*
- **Prbq** — *Interbedded packages of quartzose sandstone to siliceous siltstone and laminated carbonaceous shale (Prbq).*
- **Prbl** — *Laminated to gutter–cast and trough cross–bedded, siliceous to carbonaceous siltstone (Prbl).*
- **Pri** — *Medium grained, trough cross–bedded to parallel–bedded quartzose sandstone, and rare angular quartz–pebble conglomerate and shale (Pri).*

Pssr, Pssn, Pss, Pssc, Pscb → KANAMAKA SUBGROUP, DOLOMITE → TOOARR GROUP

Prbs, Prbsn, Prbsq, Prbg, Prbq, Prbl → BALFOUR SUBGROUP → ROCKY CAPE GROUP

IGNEOUS ROCKS

TERTIARY

- **Tb** — *Basalt (Tb). Basanite (Tbb), alkali olivine basalt (Tba), transitional olivine basalt (Tbr) and olivine tholeiite (Tbt) indicated.*

NEOPROTEROZOIC

- **Psb** — *Massive basalt (Psb). Varieties with 0.6–0.7% TiO2 (Psba), 1.0–1.1% TiO2 (Psbb), 1.5–1.8% TiO2 (Psbc) and evolved varieties with 1.6–2.3% TiO2 and < 4% MgO (Psbe) indicated. (Psb, Psba etc: Spinks Creek Volcanics).*
- **Psbz** / **Psbz1** — *Medium to coarse–grained or pegmatitic dolerite with alkalic affinities (Psbz1).*
- **Pmd** / **Pml** — *Dolerite dykes (Pmd). Foliated variety indicated (Pml).*

Geological boundary – position accurate or approximate.
Geological boundary – inferred.
Geological boundary inferred from aeromagnetic and/or radiometric interpretation.
Fault – unspecified type, position accurate or approximate, downthrown side indicated where known.
Fault – unspecified type, inferred.
Fault – unspecified type, concealed.
Thrust fault – position accurate or approximate, teeth on upper plate.
Thrust fault – inferred, teeth on upper plate.
Thrust fault – concealed, teeth on upper plate.
Strike–slip fault – sinistral, position accurate or approximate.
Lithological trend line
Axial surface trace of major antiform.
Axial surface trace of major synform.

Strike and dip of bedding, facing known – right way up; overturned.
Strike and dip of bedding, facing unknown – dipping; vertical; horizontal.
Strike and dip of cleavage, relative age S.3 – dipping; vertical.
Strike and dip of cleavage, type and relative age unspecified – dipping, vertical.
Trend and plunge of hingeline of minor fold, unspecified relative age; with dip and dip direction of axial surface indicated; vertical axial surface.
Trend and plunge of hingeline of minor fold, unspecified relative age, vergence sinistral.
Trend and plunge of kink–fold hingeline, with sense of displacement viewed down–plunge: dextral.
Trend and plunge of crenulation lineation.
Strike of outcrop–scale fault; with dip indicated; vertical; thrust fault with dip indicated.
Strike and dip of dominant joint set.
Strike and dip of dyke or vein, rock type or mineral specified by RCODE in Point Attribute Table.
Field station for adjacent readings on the map.
Mineral deposit location – hardrock / *Mineral deposit location – alluvial* — *Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.*
Construction materials location – Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

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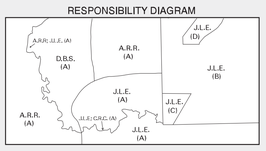
(see responsibility diagram)
A New 1:25000 scale mapping, 1997–98.
B Redrawn from Geological atlas 1:50,000 series, sheet 27 (7915N) Trowutta 1996. Mineral Resources Tasmania.
C Redrawn from Trowutta 1:50,000 map with modifications from remapping.
D Redrawn from Trowutta 1:50,000 map with modifications from new aeromagnetic interpretation.

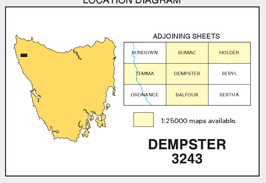
Digital base information from Information and Land Services Division, Department of Primary Industries, Water and Environment.

Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software. AGD66 - AMG Zone 55. Contour Interval: 20 metres.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



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Data correct & plotfile generated: 21-APR-2005

WARNING: INKS ARE LIGHT SENSITIVE