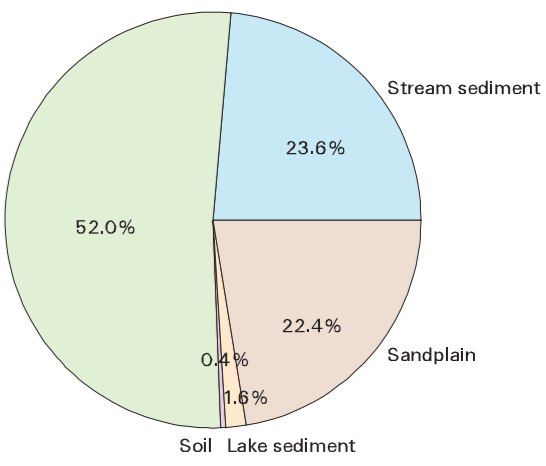


## SAMPLE LOCATIONS

### Sample point reference

- 172912 Stream sediment
- 172904 Sheetwash
- 172960 Soil
- 172920 Lake sediment
- 172901 Sandplain



### INTERPRETED BEDROCK GEOLOGY

PHANEROZOIC	<b>Byro Group</b>	
	PB	Bioclastic siltstone and fine-grained sandstone
	PW	Siltstone, quartzose or feldspathic sandstone, carbonaceous shale, and minor claystone
PROTEROZOIC	<b>Wooramel Group</b>	
	PW	Siltstone, quartzose or feldspathic sandstone, carbonaceous shale, and minor claystone
	PL	Immature sandstone, siltstone, shale, micaceous claystone, and tillite; numerous glacial erratics
ARCHAEOZOIC	<b>Badgeradda Group</b>	
	EBA	Siltstone, silty sandstone, feldspathic and quartzose sandstone, and minor pebble-conglomerate lenses
	Agvy	YARRA YARRA GRANITE: coarse-grained, equigranular, leucocratic monzogranite; metamorphosed at granulite facies
	Agch	CHURLA GRANITE: coarse-grained, equigranular, leucocratic monzogranite; metamorphosed at granulite facies
	Agba	BALLA GRANITE: coarse-grained, porphyritic to equigranular monzogranite, with inclusions of EURADA GNEISS; metamorphosed at amphibolite facies
	Agim	IMPEY GRANITE: heterogeneous, coarse-grained, porphyritic to equigranular monzogranite; metamorphosed at amphibolite facies
	Ag	Coarse-grained, equigranular to porphyritic granite, locally with inclusions of amphibolite, ultramafic rock, metasedimentary rock, or gneiss
	Agva	YALLALONG GRANITE: coarse-grained, equigranular, leucocratic monzogranite; metamorphosed at granulite facies
	Agwa	WANDARRIE GRANITE: coarse-grained, equigranular, leucocratic monzogranite
	As	Undivided metasedimentary rocks, including banded iron-formation, quartz-magnetite rock, pelite, quartzite, conglomerate, sandstone, siliceous schist, mylonite, quartz-mica schist, and micaceous quartzite; subordinate metagabbro, ultramafic schist, and amphibolite
	Anng	MILGA GNEISS: granodioritic gneiss
	Andg	DUGEL GNEISS: monzogranitic and syenogranitic gneiss
	Aner	EURADA GNEISS: monzogranitic to tonalitic gneiss, with inclusions of MEEBERRIE GNEISS and veined by DUGEL GNEISS
	Anme	MEEBERRIE GNEISS: monzogranitic to tonalitic gneiss, veined by EURADA GNEISS and DUGEL GNEISS
	Agwg	WEIRAGOO GRANITE: porphyritic to equigranular monzogranite; metamorphosed at amphibolite facies
Murchison Granites (Cretaceous-Tertiary)	Agcu	CUNDARRA GRANITE: coarse-grained, equigranular to porphyritic monzogranite; metamorphosed at amphibolite facies
	Agtc	TCHING GRANITE: monzogranite with inclusions of BEARRA GNEISS; metamorphosed at amphibolite facies
	Anbe	BEARRA GNEISS: dioritic and leucogranitic gneiss, possibly an earlier phase of the TCHING GRANITE

- Geological boundary
- Fault
- Anticline
- Syncline

### SYMBOLS

- Formed road
- Track
- Watercourse
- Lake
- Pool, rockhole, spring, bore, well
- Homestead
- Locality
- Bulgarto
- Byro East
- Bit
- Cr
- Om
- Gems
- Ni
- Opal
- Svs
- Opencut, abandoned
- Prospect
- Mineral occurrence
- Chromium
- Corundum
- Gemstones
- Nickel
- Opal
- Silica

Edited by N. Tellow, K. Greenberg, and G. Loan

Cartography by M. Viscini

Topography from Australian Surveying and Land Information Group, and Department of Land Administration Shaded 50-10

This map was compiled and produced using a Geographic Information System (ArcInfo), and the data are available in digital form

Published by the Geological Survey of Western Australia. Copies of this map, or extracts of the data, are available from the Information Centre, Department of Minerals and Energy, 100 Plain Street, East Perth, W.A., 6004. Phone (08) 9222 3458, Fax (08) 9222 3444

Compiled by P. A. Morris 2000

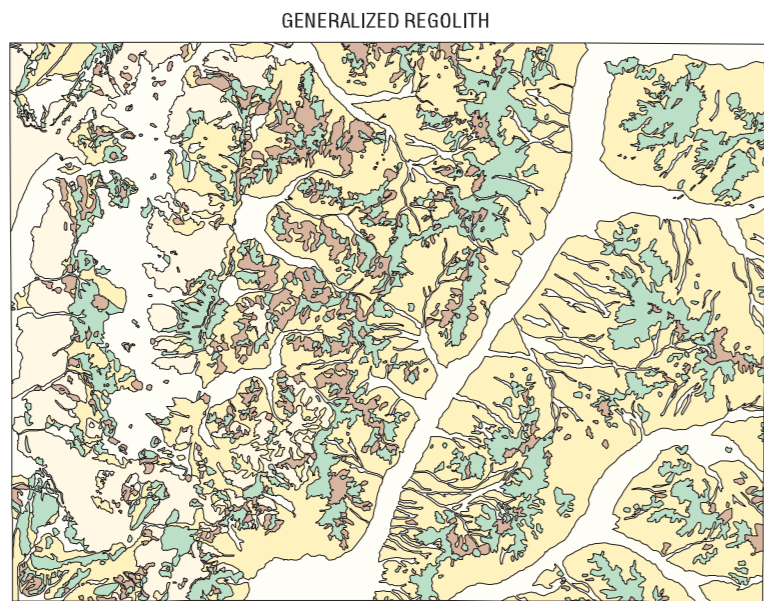
Sampling by G. Brindle, M. Gullen, R. Hocking, S. McDermid, D. O'Farrell, A. L. Verren, G. White, and P. A. Morris (GSWA)

Total sample sites: 1016; 240 stream sediment, 528 sheetwash, 16 lake sediment, 228 sandplain, and 4 soil

Analyst: Andel Laboratories  
Minimum sample size: 1.5 kg  
Fraction of sample analysed: > 0.45mm < 2mm

Geological interpretation after: MYERS, J. S., 1997. Byro, W.A. Sheet 56 50-10 (second edition); Western Australia Geological Survey, 1:250 000 Geological Series. MYERS, J. S., and HOOKING, R. M., 1998. Geological map of Western Australia 1:2 500 000 (13th edition); Western Australia Geological Survey

The recommended reference for this publication is:  
MORRIS, P. A., 2001. Sample locations, Byro, W.A. Sheet 56 50-10. In: Geological mapping of the Byro 1:250 000 sheet. by P. A. MORRIS and A. L. VERREN. Western Australia Geological Survey, 1:250 000 Regolith Geochemistry Series Explanatory Notes, Plate 1



SCALE 1:1 500 000

SCALE 1:250 000

UNIVERSAL TRANSVERSE MERCATOR PROJECTION  
HORIZONTAL DATUM: GEOCENTRIC DATUM OF AUSTRALIA 1994  
VERTICAL DATUM: AUSTRALIAN HEIGHT DATUM  
Grid lines indicate 20 000 metre interval of the Map Grid Australia, Zone 50

The Map Grid Australia (MGA) is based on the Geocentric Datum of Australia 1994 (GDA94)  
GDA94 positions are compatible within one metre of the datum WGS84 positions

GDA



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ROBINSON RANGE 2045	BYRO 2145	MILGA 2245
BADGERADDA 2044	CHILLY YARRA 2144	ROBINSON RANGE 2044

## SAMPLE LOCATIONS

REGOLITH GEOCHEMISTRY SERIES

## BYRO

SHEET 56 50-10

FIRST EDITION 2001

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