



LEGEND

Younger than 500 million years

- Water
- Holocene (10 000 years to present day)**
 - SEMAPHORE SAND MEMBER: Quartz beach sand
 - SEMAPHORE SAND MEMBER: Coastal dune sand
 - Beach gravel
 - Alluvial sand in active stream channels
 - Talus gravel, sand and clay
 - Alluvial clay of raised terraces of Onkaparinga River
 - Alluvial clay of valleys
- Pleistocene (2.6 million to 10 000 years)**
 - NGANKIPARI SAND: Weakly cemented windblown sand
 - CHRISTIES BEACH FORMATION: Alluvial fan clay, sand and gravel
 - NGALTINGA FORMATION: Grey and red mottled alluvial clay, commonly capped with calcrete
 - OCHRE COVE FORMATION: Iron-mottled pebbly sandstone
 - KURRAJONG FORMATION: Clayey sand and silica-cemented conglomerate
 - PIRRAMIMMA SANDSTONE: Yellow and buff sandstone, pebbly sandstone, clay
 - BURNHAM LIMESTONE: Fine-grained limestone
- Pliocene (5.3 to 2.6 million years)**
 - HALLETT COVE SANDSTONE: Calcareous fossiliferous sandstone
 - Iron-cemented surface on bedrock
- Oligocene (34 to 23 million years)**
 - PORT WILLUNGA FORMATION: Fossiliferous limestone
- Eocene (56 to 34 million years)**
 - BLANCHE POINT FORMATION: Glauconitic, fossiliferous calcareous siltstone; hard cherty bands; glauconitic
 - TORTACHILLA LIMESTONE at base
 - Iron-cemented sand (?NORTH MASLIN SAND)
- Carboniferous-Permian (c. 300 million years)**
 - CAPE JERVIS FORMATION: Pebbly and bouldery claystone; sandy, laminated claystone with dropstones

Winery	Easting	Northing
39 Angoves Family Winemakers	276456	6101168
41 Aromis	278526	6101148
82 Aromis	270664	6092894
25 Australian Boutique Wines	279943	6102283
73 Battles of Bosworth	277973	6095446
27 Bent Creek	279657	6102203
1 Blackbilly Wines and The Old Faithful	282467	6114182
59 Boar's Rock	273979	6099523
5 Brody Hill	275164	6106550
80 Cape Barron	276059	6095053
84 Cascabal	272125	6090174
47 Chalk Hill	276661	6100716
7 Chapel Hill	277142	6105316
2 Chateau Reynella	276190	6113666
56 Conte Estate	280437	6099929
12 Coriale	276866	6104227
28 d'Arenberg	277102	6102177
53 Dennis	277228	6099998
46 Di Fabio Estate	280926	6100790
20 Dogridge	281847	6102930
62 Dowie Doole	277205	6098824
43 Foggo	278512	6101033
72 Fox Creek	276576	6099738
36 Gantree	282423	6101492
3 Geoff Merrill	277815	6112862
26 Graham Stevens Wines	280994	6102216
78 Halifax	279243	6094071
48 Hardy Tintara	275759	6100501
51 Haselgrove	279817	6100284
29 Haswell and Lightfoot	278545	6102148
22 Hoffmanns	281024	6102420
64 Hugh Hamilton	278071	6098572
23 Hugo	283370	6102414
70 Inkwil	274234	6097429
49 J & J Wines	280926	6103563
37 Kangarilla Road	282084	6101359
13 Kay Bros Amery	278120	6103857
45 Lavina	275216	6100851
79 Lay Bullarina	281178	6094071
67 Leconfield	277140	6098170
31 Lloyd Brothers	275740	6102024
34 Longwood	278658	6101752
85 Madeline's Wines	277256	6098577
30 Maximus	278602	6102147
40 Maxwell	276209	6101164
50 McLaren Vale Premium Wines	275818	6100328
14 McLaren Vale Vintners	281618	6103601
57 Middlebrook Estate	280251	6099782
81 Milolo	275687	6093962
15 Mollydooker	276070	6103563
74 Murray of McLaren Vale	277447	6096511
11 Nashwak	276243	6104562
68 Noon	280043	6097748
18 Oliverhill	275632	6103354
19 Olivers Taranga	275458	6103211
55 Oxenberry Farm	276944	6099953
32 Paper Eagle / Ekhidna	276217	6100039
32 Parri Estate	280828	6101915
33 Paston	273643	6101807
69 PB & CM Shirvington	278955	6097693
71 Penny's Hill & Mr. Riggs	277121	6094888
66 Peraringa	280396	6099200
9 Possums	281813	6104929
76 Potters Clay	277477	6096164
63 Primo Estate	277687	6098885
42 Rad Heads Studio	277256	6101039
10 Rosemount Estate	277361	6104660
60 Sabella	279450	6099169
6 Samuels Gorge	276578	6105465
44 Scorpionini Estate	280486	6101029
58 Serafino	277433	6099671
17 Settlement	275719	6103372
38 Shingleback	274777	6101241
24 Shottlesbrook	281646	6102409
8 Sylvan Springs	282527	6105090
35 Tapestry	276436	6101692
54 Tatchilla	276183	6099965
75 Thorpe	274475	6099240
77 Vinrock	273256	6096094
65 Walter Clappis	278981	6098541
61 Wirra Wirra	278712	6099168
16 Woodstock	281383	6103372
4 Yangarra Estate	285024	6106926
21 Zarella	276283	6102883
83 Zimmermann	275315	6091253

LEGEND

Older than 500 million years

- DELAMERIAN ORIGIN: Folding and cleavage formation, c. 500 million years**
 - Quartz vein
 - Barite vein
- NORMANVILLE GROUP: c. 520 million years**
 - HEATHERDALE SHALE: Dark grey, slaty siltstone with black phosphorus nodules
 - FORK TREE LIMESTONE: Pale grey limestone with archaeocyaths
 - SELICK HILL FORMATION: Dark grey, ribbed, silty limestone
 - WANGKONDA FORMATION: Massive, dark grey limestone
 - MOUNT TERRIBLE FORMATION: Arkosic grit, overlain by siltstone and sandstone
- WILPENA GROUP: c. 600 million years**
 - BUNYEROO FORMATION: Maroon, fine-grained siltstone
 - ABC RANGE QUARTZITE: White, cross-bedded quartzite
 - PORT STANVAC SANDSTONE MEMBER: Laminated and cross-bedded red sandstone
 - BRACHINA FORMATION: Red and green siltstone and fine-grained sandstone
 - NUCCALEENA FORMATION: Laminated pink dolomite
 - SEALIFF SANDSTONE: Pale grey and red sandstone, quartzite and red siltstone
- UMBERATANA GROUP: c. 650 million years**
 - REYNELLA SILTSTONE MEMBER: Mostly massive siltstone with small rock fragments
 - ELATINA FORMATION: Pink-brown sandstone with red granule bands
 - WILMINGTON FORMATION: Massive, green-grey, fine-grained sandstone
 - Laminated to rippled, grey to green siltstone
 - MARINO ARKOSE: Lime-cemented, gritty arkose and minor limestone
 - ANGEPENA FORMATION: Rippled, mud-cracked, red siltstone; fine-grained sandstone
 - BRIGHTON LIMESTONE: Massive oolitic limestone
 - TAPLEY HILL FORMATION: Calcareous siltstone and sandstone; intraclastic and stromatolitic limestone
 - Dark grey, very thinly laminated, slaty siltstone
 - TINDELPINA SHALE MEMBER: Laminated, pyritic, black shale and dolomite
 - STURT TILLITE: Massive, cleaved, pebbly and boulder siltstone (diamictite)
 - Gritty arkose lenses
 - Laminated siltstone layers
 - Sandstone layers
- BURRA GROUP: c. 750 million years**
 - BELAIR SUBGROUP: Laminated, grey siltstone
 - Quartzite layers
 - MITCHAM QUARTZITE: Massive, coarse-grained, feldspathic quartzite
 - SADDLEWORTH FORMATION: Laminated dark grey and green siltstone
 - Quartzite layers
 - STONYFELL QUARTZITE: Feldspathic quartzite, sandstone, siltstone
 - BRECCIATED WOOLSHED FLAT SHALE
 - WOOLSHED FLAT SHALE: Laminated and sandy grey-green siltstone
 - MONTACUTE DOLOMITE: Blue-grey, thinly bedded dolomite with black chert lenses
 - ALDGALE SANDSTONE: Feldspathic, pebbly sandstone; heavy mineral cross-laminations
 - PALAEOPROTEROZOIC BASEMENT (c. 1600 million years)
 - BAROSSA COMPLEX: Gneiss, schist

GDA 94: Map projection Zone 54

0 1 2 3 4 5 Kilometres

- Winery
- Sand or clay pit
- Storage dam
- Water storage
- Wastewater treatment plant
- Vineyard
- McLaren Vale Wine Region
- Aldinga Scrub Conservation Park

Topographic detail

- Main road
- Secondary road
- Track
- Onkaparinga River
- Watercourse

Geological boundary and fault

- Fault
- Concealed fault
- Conformable contact
- Intrusive contact

GEOLOGY OF THE MCLAREN VALE WINE REGION