

Appendix 6

S117(2) Direction

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**GEOLOGICAL SURVEY OF NEW SOUTH WALES
DEPARTMENT OF MINERAL RESOURCES**

**Resource Assessment &
Section 117(2) Direction No. G28 Notification
Oberon Shire LGA**

by

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Geological Survey Report: GS2003/450

Dated: December 2003

Department File: L95/0232

Map Reference:	1:250,000 sheets	1:100,000 sheets
	Bathurst	Oberon
	Sydney	Katoomba
	Goulburn	Taralga
	Wollongong	Burraborang

Accompanying Plans: Oberon_S117_V2.jpg

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SUMMARY

Section 117(2) Direction No. G28 – Coal, other Minerals, Petroleum and Extractive Resources of the Environmental Planning and Assessment Act 1979 was gazetted by the Minister for Planning on the 6th of December 1994.

The Direction requires that local councils consult with the Department of Mineral Resources when preparing Local Environmental Plans (LEPs) which are likely to prohibit or restrict the mining of mineral and extractive resources. The Direction makes it incumbent upon the Department to notify local government agencies of the locations of known and potential mineral resources.

Section 117 Direction No. G28 advice to Oberon Shire Council was provided on 14/10/1996. This advice was reviewed on 02/03/1998 when a number of sites originally identified were deleted and some new ones added.

The current revision of the advice was triggered by a request by Council for accurate up-to-date data on mineral resources to be used as input in Oberon Shire Local Environmental Study.

This revision has resulted in a number of sites originally identified being deleted from the advice as well as in the addition of some new sites. Some of the sites retained in this identification have been slightly modified. In the interests of consistency, the original site numbers have been retained as far as possible.

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INTRODUCTION

Section 117(2) Direction No. G28 – Coal, other Minerals, Petroleum and Extractive Resources of the Environmental Planning and Assessment Act 1979 was gazetted by the Minister for Planning on the 6th of December 1994.

The Direction requires that councils consult with the Department of Mineral Resources if proposed Local Environmental Plans (LEPs) are likely to prohibit or restrict the mining of mineral and extractive resources. The Direction makes it incumbent upon the Department to notify local government agencies of the locations of known and potential mineral resources.

The purpose of the Direction is to make local councils aware of the mineral resources within their Local Government Areas (LGAs) and to prevent the unnecessary loss of important resources. The advice issued to councils by the Department of Mineral Resources informs councils of operating mines and quarries, and identified and potential mineral resources within their LGA. It is intended that the advice should provide a basis for better informed land use planning which will steer development away from areas containing important mineral resources where possible so as not to sterilise them unnecessarily.

ROLE OF THE DEPARTMENT OF MINERAL RESOURCES

The Department of Mineral Resources is the principal Government agency responsible for the administration of the State's mineral resources. Under the Mining Act 1992 mineral resources are those mineral commodities which are listed in Schedule 1 Mining Amendment Regulation 2001 of the Act. Although most mineral commodities are classified as 'mineral resources' under the Mining Act 1992, extractive resources such as sand, gravel, hard rock aggregate are generally not administered under that Act.

Because most extractive resources are not minerals in terms of the Mining Act 1992, the Department of Mineral Resources does not have a formal, statutory role in their development, except for the mine safety role flowing from the Mines Inspection Act 1901. However, the Department has an accepted role amongst State Government agencies of assessing extractive resources, and providing advice pertaining to their development and management.

The Department has been involved in the assessment of extractive resources since at least the 1950s. This work has concentrated on the coastal regions where pressure on extractive resources from other land uses is the greatest.

The Department has been developing databases on known mineral and extractive resources as a basis for better informed land use planning, and to encourage further exploration. However, changing concepts and knowledge of the geology of the State mean that this process is a continuing one.

Comprehensive inventories of resources, concentrating on areas of greatest land use pressures (essentially the eastern part of the State), are being developed through updating of mineral occurrence databases and knowledge of mineral resource potential.

RESOURCE ASSESSMENT PROCEDURES

Data Sources

Identification of sites for Section 117(2) Direction No. G28 notification is based on data obtained from a number of sources.

The main data sources are the Geological Survey's mineral occurrence databases *Indmin* and *Metmin*. Data in these databases is derived from sources such as:

- technical reports of the Geological Survey and the Department of Mineral Resources;

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- environmental impact statements for quarrying and mining operations;
- data held by local and State government authorities;
- mineral exploration reports; and,
- other sources including newspapers, periodicals, annual company reports and prospectuses.

Other important data sources are:

- local councils which provide information on current quarrying/mining operations or proposals within their LGA; and
- quarry/mine operators who provide information on annual production, resources and expected life of quarry/mine operation.

Site Identification

Sites Identified in the Section 117(2) Direction No. G28 are either significant operating quarries or mines, significant quarrying or mining proposals, identified mineral resources or areas containing potential mineral resources.

For operating quarries, mines or proposals, the Section 117(2) Direction No. G28 notification identifies the mine or quarry site and an adjacent area ("buffer zone") where development may conflict with current or future mining or quarrying operations. For identified and potential resources the notification identifies the land containing resources and in some cases a buffer zone.

NOTIFICATION PROCEDURES

After gazettal of the Section 117(2) Direction No. G28, in December 1994, all LGAs in the State were assigned a high, medium or low priority rating for notification (figure 1) based on the following criteria:

- Degree of development in the LGA;
- Density of known mineral development and potential in the LGA; and,

- Nature and extent of information available to the Department.

To date, Section 117(2) Direction No. G28 notification advice has been provided to all high and most medium priority LGAs. In addition, notifications have been prepared for some low priority LGAs at the request of council.

Initial notifications have been provided to 137 councils (figure 2). Of these, the notification has been revised or amended at least once for 70 councils since the initial notification.

Initially notifications consisted of maps of identified sites and tabular data about each site.

In an effort to make the Section 117(2) Direction No. G28 notifications more relevant and 'user friendly' they will be accompanied by more detailed information in the future. The data is also available in digital form.

OBERON LGA SECTION 117(2) DIRECTION No. G28 REVISION

The initial Section 117 Direction No. G28 advice to Oberon Shire Council was provided on 14/10/1996 (see appendix for listing). This advice was reviewed on 02/03/1998 when a number of original sites were deleted.

The current revision was triggered by a request by Council for accurate up-to-date data on mineral resources to be used as input in Oberon Shire Local Environmental Study.

This revision has resulted in sites 9, 10, 20 and 21 originally identified in 1996 being deleted from the advice, and the addition of sites 24 - 31. In addition, the areas of some of the sites retained in this identification have been slightly modified. In the interests of consistency the original site numbers have been retained.

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Figure 1: Priority Status December 1994

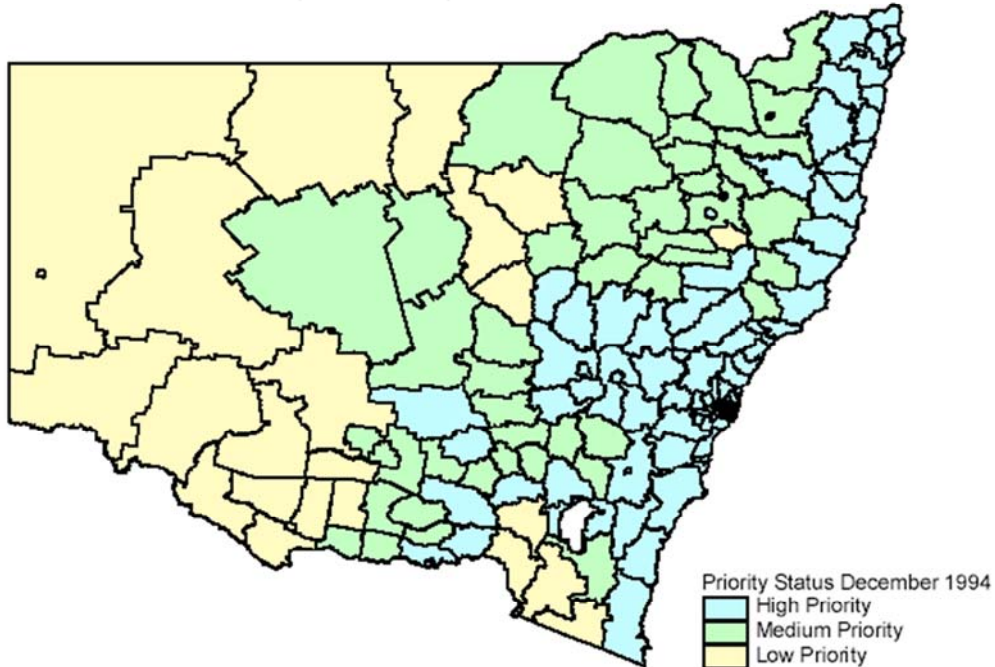
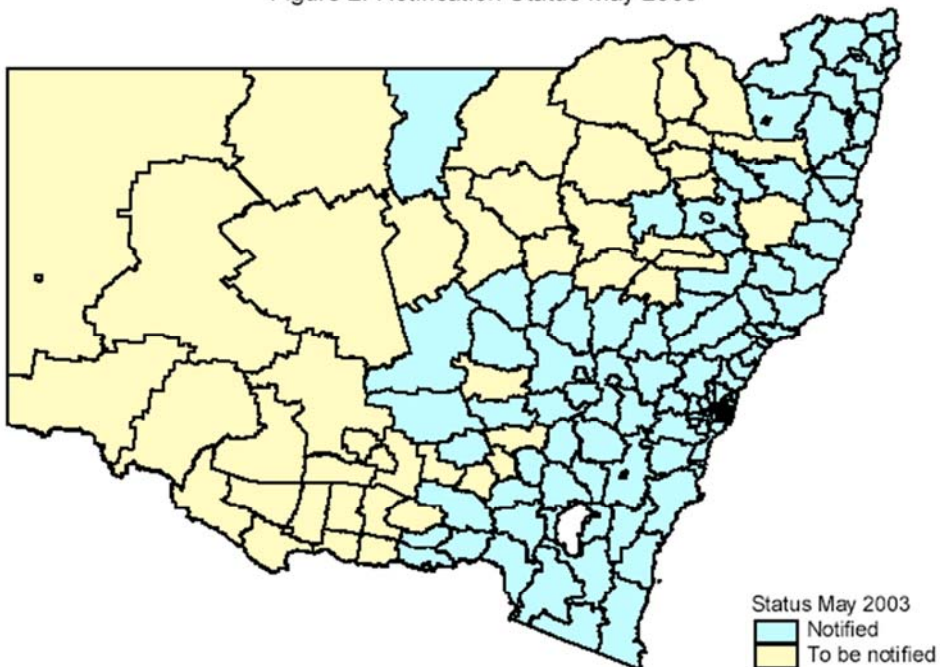


Figure 2: Notification Status May 2003



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All draft Local Environmental Plans which propose a change in zoning in the identified areas should be referred to the Department of Mineral Resources for comment.

The Department would object to any proposed change in zoning in areas containing operating quarries/mines and/or identified mineral resources which may prohibit mining/quarrying in these areas.

The Department will endeavour to ensure that Council is kept informed of mineral and extractive resource developments in the district.

The retained sites are listed below and shown on plan 1.

Site 5: Oberon Alaskite

Operator: none

Commodity: feldspar, mica, silica

Rock Type: alaskite

Status: identified resource

Production: minor in the 1960s

Resources: extensive

Comment: The Oberon Alaskite (or Rosdhu Granite) is a leucocratic (= white) granite comprised mainly of feldspar, muscovite mica and quartz. Studies by the previous owner of the mineral rights, Minerals Corporation Ltd, have identified a large resource from which commercial grade feldspar, mica and silica can be extracted. Unimin Australia Ltd currently hold Exploration License over the area. A development application to quarry granite in a small part of the area was lodged by Mudgee Stone Company in July 2003. Some feldspar for glass making was extracted from portion 193 Parish Norway in the mid 1960s.

Site 7: Duckmaloi Limestone

Operator: none

Commodity: limestone

Rock Type: limestone

Status: identified resource

Production: unknown

Resources: > 100 000 tonnes

Comment: Quarried in the past for high purity limestone for industrial applications. The remaining deposit is contaminated by cherty intervals but is suitable for production of agricultural lime.

Site 8: Black Bullock

Operator: none

Commodity: gold, silver

Ore Type: hydrothermal mineralisation in sheared siltstone

Status: potential resource

Production: over 40 000 ounces of silver and 2 000 ounces of gold in 1899-1902 and 1905

Resources: unknown

Comment: The area has moderate potential for hosting gold and silver mineralisation.

Site 11: Wisemans Creek Mine

Operator: none

Commodity: talc

Rock Type: talc-mica schist

Status: potential resource

Production: few thousand tonnes in the late 1960s and early 1970s.

Resources: moderate

Comment: Mined in the late 1960s and early 1970s, initially underground and later as an open cut. Moderate reserves probably remain.

Site 15: Racecourse Hill

Operator: Oberon Quarries P/L

Commodity: hard rock aggregate

Rock Type: basalt

Status: operating quarry

Production: about 130 000 tonnes per annum

Life of Operation: > 20 years

Resources: > 30 000 000 tonnes

Comment: An important producer of aggregate products in the region.

Site 16: Tarana Pink

Operator: Gosford Quarries P/L

Commodity: dimension stone

Rock Type: granite

Status: operating quarry

Production: currently none

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Resources: moderate

Life of Operation: unknown

Comment: Dimension stone quarry with good potential for further extraction. Area held under Mining Lease 1329 (1992).

Site 17: Kendale

Operator: none

Commodity: dimension stone

Rock Type: granite

Status: potential resource

Production: currently none

Resources: moderate

Life of Operation: unknown

Comment: Quarried in the past. Area has potential for further quarrying of dimension stone.

Site 22: Mining Leases 1114 & 1115

Operator: Camiex Mining P/L

Commodity: sapphire

Rock Type: sand and gravel

Status: operating mine

Production: currently none

Resources: unknown

Life of Operation: unknown

Comment: Area held under Mining Leases 1114 and 1115 (1973).

Site 23: Mining Lease 1031

Operator: R.E. Woellner

Commodity: sapphire, gold

Rock Type: sand and gravel

Status: operating mine

Production: currently none

Resources: unknown

Life of Operation: unknown

Comment: Area held under Mining Lease 1031 (1973).

Sites 24 – 27: Rockley Volcanics

Operator: none

Commodity: copper, gold,

Rock Type: Ordovician mafic volcanics and sediments

Status: potential resource

Resources: unknown

Comment: Areas have potential for porphyry copper-gold mineralisation.

Site 28: Bells Creek Volcanics

Operator: none

Commodity: base metals, gold,

Rock Type: Silurian volcanics

Status: potential resource

Resources: unknown

Comment: Area has potential for Volcanic Hosted Massive Sulphide type deposits.

Site 29: Triangle Formation

Operator: none

Commodity: copper, gold,

Rock Type: Silurian mafic volcanics and sediments

Status: potential resource

Resources: unknown

Comment: Area has potential for porphyry copper-gold mineralisation.

Site 30: Diamond Hill Skarn

Operator: none

Commodity: base metals

Rock Type: metamorphosed Ordovician intermediate to basic volcanics and sediments.

Status: potential resource

Resources: unknown

Comment: Area has potential for base metal skarn mineralisation.

Site 30: Duckmaloi Skarn

Operator: none

Commodity: base metals

Rock Type: metamorphosed Silurian sediments.

Status: potential resource

Resources: unknown

Comment: Area has potential for base metal skarn mineralisation.

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APPENDIX

**Listings of Section 117(2) No. G28 Direction sites identified in October 1996
and March 1998**

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OBERON LGA

ATTACHMENT I

MINERAL RESOURCES

Site No	Figure No	Location/Description	Operator	Material
1	1	Tuglow	Inactive	Copper, lead
2	1	Tuglow River	Undeveloped	Limestone
3	1	Hollanders River, South	Undeveloped	Limestone
4	2	Hollanders River, North	Undeveloped	Limestone
5	4	MLs 129, 130, 132, 134, 136	Australian Feldspar p/l	Feldspar
6	5	Duckmaloi	Inactive	Bismuth, tungsten
7	5	Duckmaloi, McGills	Marble Aggregates p/l	Limestone
8	7	Black Bullock	Inactive	Gold, silver
9	8	Copperhill	Inactive	Copper
10	11	ML 790, Phoenix Mine	PGH p/l	Pigment/lead, zinc
11	11	Wisemans Creek Mine	Industrial Minerals Australia p/l	Talc
12	11	North Wisemans Mine	Inactive	Copper, lead, zinc

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EXTRACTIVE RESOURCES

Site No	Figure No	Location/Description	Operator	Material
13	3	Bayardo, Goulburn Road	B T Hoolihan	Fill/granite
14	4	Oberon	Gosford Quarries p/l	Dimension stone/granite
15	6	Racecourse Hill	Oberon Quarries p/l	Hard rock aggregate/basalt
16	9	Tarana Pink	Melocco p/l	Dimension stone/granite
17	9	Kendale	Western Granites p/l	Dimension stone/granite
18	9	North Oberon	Australian Granite p/l	Aggregate/granite
19	10	Isabella Deposit	Inactive	Decorative aggregate/silica
20	12	Fish River, Oberon Road	CSR Readymix p/l	Construction sand/gravel

KEY TO ALL FIGURES

Areas containing existing quarries/mines and identified resources. The Department of Mineral Resources would object to any proposed change in zoning which may prohibit mining or quarrying in these areas.



Development in these areas could adversely affect or be affected by future quarrying/mining operations. Any proposed LEP which proposes a change in zoning which may restrict or prohibit mining or quarrying should be referred to the Department of Mineral Resources for comment.



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OBERON LGA (March 1998)

ATTACHMENT 1

MINERAL RESOURCES

Site No ...	Figure No	Location/Description	Operator	Material
1	1	DELETED	DELETED	DELETED
2	1	DELETED	DELETED	DELETED
3	1	DELETED	DELETED	DELETED
4	2	DELETED	DELETED	DELETED
5	4	Oberon Alaskite	Australian Feldspar p/l	Feldspar
6	5	DELETED	DELETED	DELETED
7	5	Duckmaloi Limestone	Inactive	Limestone
8	7	Black Bullock	Inactive	Gold, silver
9	8	Copperhill	Inactive	Copper
10	11	ML 790, Phoenix Mine	PGH p/l	Copper
11	11	Wisemans Creek Mine	Industrial Minerals Australia p/l	Talc
12	11	DELETED	DELETED	DELETED
21	13	Mining Lease 806	Fraser Mining Co. P/L	Sapphire
22	14	Mining Leases 1114 & 1115	Summit Motors P/L	Sapphire
23	15	Mining Lease 1031	R. E. Woelher	Sapphire, gold

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EXTRACTIVE RESOURCES

Site No	Figure No	Location/Description	Operator	Material
13	3	DELETED	DELETED	DELETED
14	4	DELETED	DELETED	DELETED
15	6	Racecourse Hill	Oberon Quarries p/l	Hard rock aggregate/basalt
16	9	Tarana Pink	Melocco p/l	Dimension stone/granite
17	9	Kendale	Australian Dolomite	Decorative aggregate/granite
18	9	DELETED	DELETED	DELETED
19	10	DELETED	DELETED	DELETED
20	12	Fish River	J. Bourke	Construction sand, gravel

KEY TO ALL FIGURES

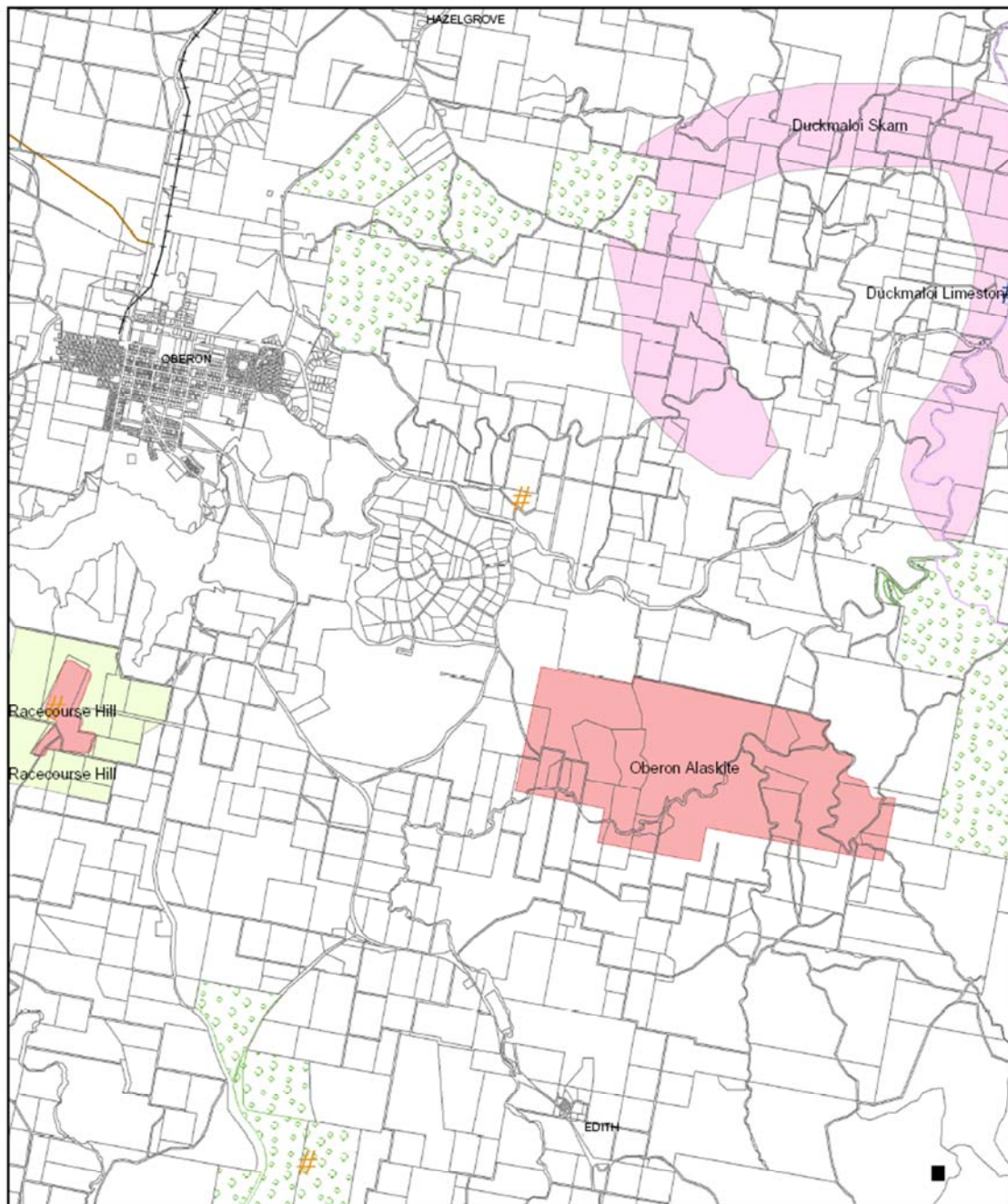
Areas containing existing quarries/mines and identified resources. The Department of Mineral Resources would object to any proposed change in zoning which may prohibit mining or quarrying in these areas.



Development in these areas could adversely affect or be affected by future quarrying/mining operations. Any proposed LEP which proposes a change in zoning which may restrict or prohibit mining or quarrying should be referred to the Department of Mineral Resources for comment.



OBERON ALASKITE



Legend

- National Park Reserves
- State Forests
- Railways 1:250 000 scale

Section 117 advice

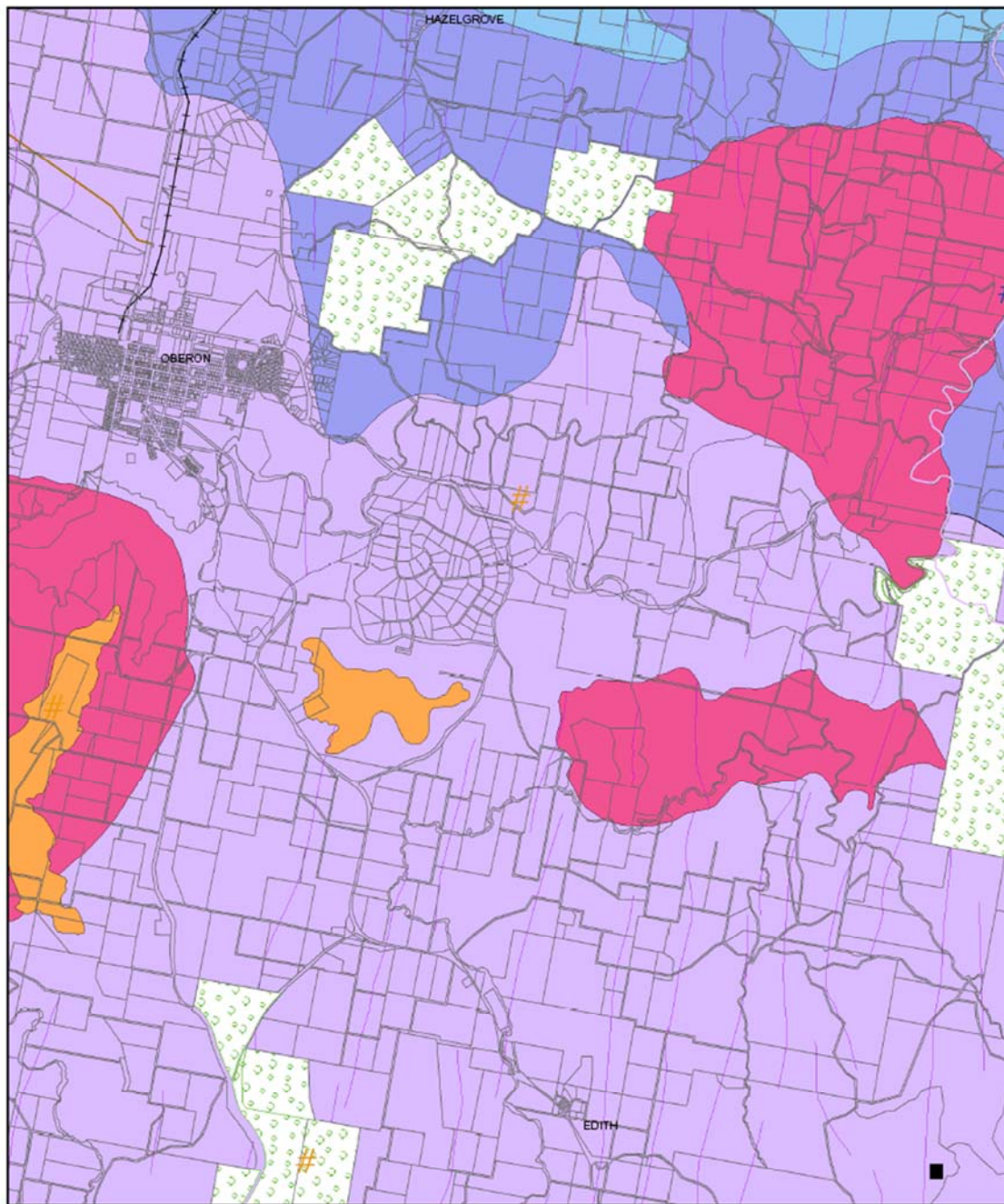
- Identified resource
- Potential resource
- Partial assessment
- Buffer zone

Legend

- indmin_operating
- clay_operating
- operating_consmats
- Gas Pipelines

3,500 1,750 0 3,500 Meters

OBERON ALASKITE



Legend

- National Park Reserves
- State Forests
- Railways 1:250 000 scale

Section 117 advice

- Identified resource
- Potential resource
- Partial assessment
- Buffer zone

3,500 1,750 0 3,500 Meters

Legend

- # indmin_operating
- # clay_operating
- # operating_consmats
- Gas Pipelines

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