



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 6449/1
Permit Holder:	Finder Shale Pty Ltd
Duration of Permit:	16 May 2015– 16 May 2017

The Permit Holder is authorised to clear native vegetation subject to the following conditions of this Permit.

PART I – CLEARING AUTHORISED

1. Purpose for which clearing may be done

Clearing for the purpose of upgrading an intersection.

2. Land on which clearing is to be done

Lot 437 on Deposited Plan 217193, Roebuck

3. Area of Clearing

The Permit Holder must not clear more than 0.13 hectares of native vegetation within the area hatched yellow on attached Plan 6449/1.

4. Application

This Permit allows the Permit Holder to authorise persons, including employees, contractors and agents of the Permit Holder, to clear native vegetation for the purposes of this Permit subject to compliance with the conditions of this Permit and approval from the Permit Holder.

PART II – MANAGEMENT CONDITIONS

5. Avoid, minimise etc clearing

In determining the amount of native vegetation to be cleared authorised under this Permit, the Permit Holder must have regard to the following principles, set out in order of preference:

- avoid the clearing of native vegetation;
- minimise the amount of native vegetation to be cleared; and
- reduce the impact of clearing on any environmental value.

6. Weed control

When undertaking any clearing or other activity authorised under this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of *weeds*:

- clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
- ensure that no *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

DEFINITIONS

The following meanings are given to terms used in this Permit:

fill means material used to increase the ground level, or fill a hollow;

mulch means the use of organic matter, wood chips or rocks to slow the movement of water across the soil surface and to reduce evaporation;

weed/s means any plant -

- (a) that is a declared pest under section 22 of the *Biosecurity and Agriculture Management Act 2007*; or
- (b) published in a Department of Parks and Wildlife Regional Weed Rankings Summary, regardless of ranking; or
- (c) not indigenous to the area concerned.

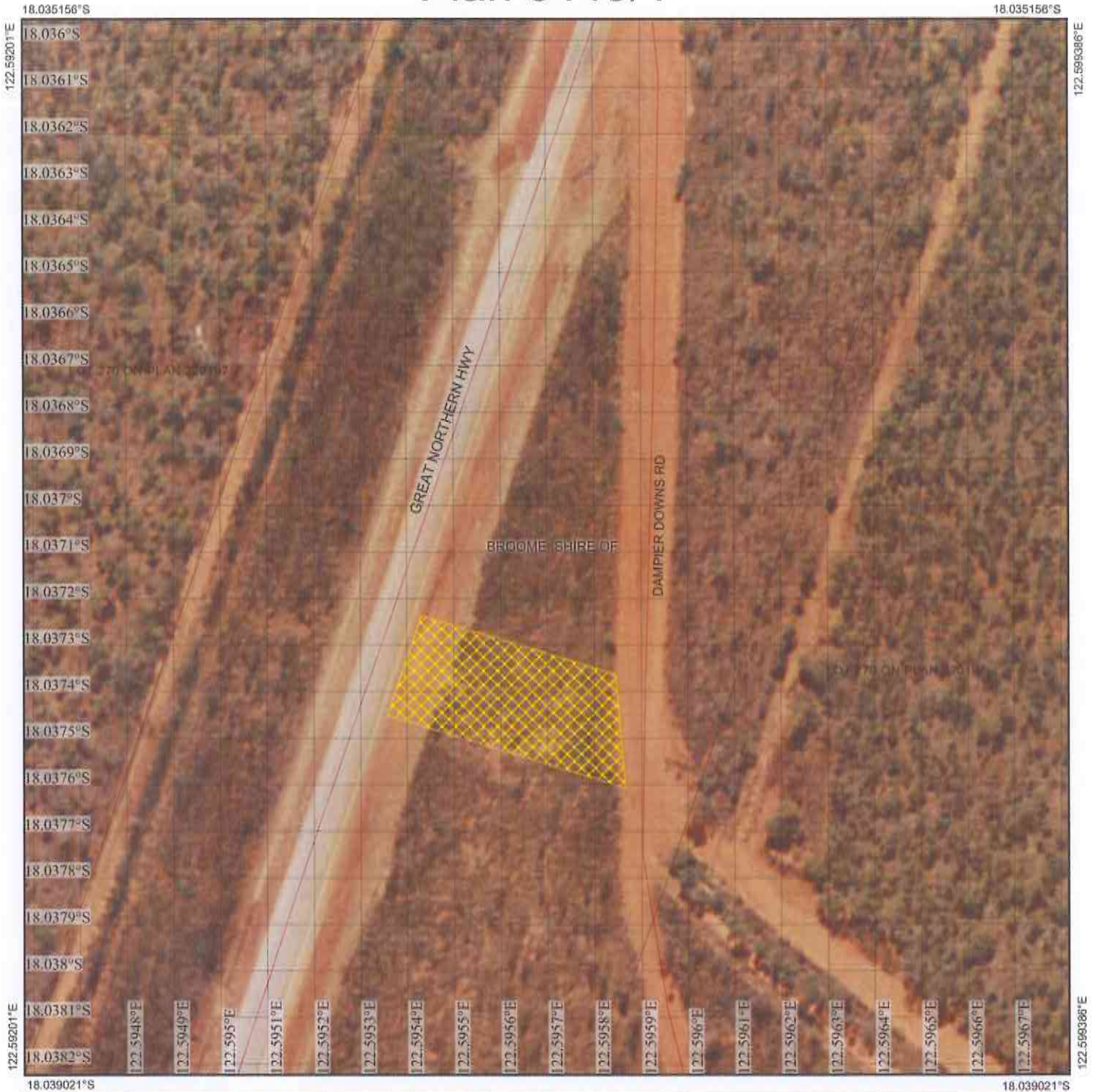


Jane Clarkson
A/SENIOR MANAGER
CLEARING REGULATION

*Officer delegated under Section 20
of the Environmental Protection Act 1986*

16 April 2015

Plan 6449/1



Legend

-  Roads
-  Imagery
-  Clearing Instruments Activities
-  Local Government Authority
-  Cadastre

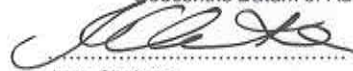


1:1,250

(Approximate when reproduced at A4)

GDA 94 (Lat/Long)

Geocentric Datum of Australia 1994

 Date 16.4.15
Jane Clarkson

Officer with delegated authority under Section 20 of the Environmental Protection Act 1986

Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the



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1. Application details

1.1. Permit application details

Permit application No.: 6449/1
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Finder Shale Pty Ltd

1.3. Property details

Property: LOT 437 ON PLAN 217193, ROEBUCK
Colloquial name:
Local Government Authority: Shire of Broome

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.13		Mechanical Removal	Road construction or upgrades

1.5. Decision on application

Decision on Permit Application: Granted
Decision Date: 16 April 2015

2. Site Information

2.1. Existing environment and information

2.1.1. Description of the native vegetation under application

Vegetation Description	Clearing Description	Vegetation Condition	Comment
Mapped Beard vegetation association 699 is described as shrublands, pindan; Acacia eripoda shrubland with scattered low bloodwood (<i>Eucalyptus dicromophloia</i>) & <i>E. setosa</i> over soft & curly spinifex on sandplain (Shepherd et al 2001).	The clearing of 0.13 hectares of native vegetation within Lot 437 on Deposited Plan 217193, Roebuck, is for the purpose of upgrading an intersection.	Degraded; Structure severely disturbed; regeneration to good condition requires intensive management (Keighery, 1994).	The condition of the vegetation was determined via aerial imagery.

3. Assessment of application against clearing principles

Comments	<p>The clearing of 0.13 hectares of native vegetation within Lot 437 on Deposited Plan 217193, Roebuck, is for the purpose of upgrading an intersection.</p> <p>There are no records of rare or priority flora species within the local area (20 kilometre radius). The clearing of 0.13 hectares of native vegetation adjacent to a road reserve is not likely to impact upon rare or priority flora species.</p> <p>Numerous fauna species listed as rare or likely to become extinct under the Wildlife Conservation Act 1950 have been recorded within the local area (20 kilometre radius) being: Red Knot (<i>Calidris canutus</i> subsp. <i>rogersi</i>), Curlew Sandpiper (<i>Calidris ferruginea</i>), Great Knot (<i>Calidris tenuirostris</i>), Lesser Sand Plover (<i>Charadrius mongolus</i>), Golden Bandicoot (<i>Isodon auratus</i> subsp. <i>auratus</i>), Eastern Curlew (<i>Numenius madagascariensis</i>) and Australian Painted Snipe (<i>Rostratula benghalensis</i> subsp. <i>australis</i>) (Parks and Wildlife 2007-). A Priority 3 fauna species (<i>Lagorchestes conspicillatus</i> (Spectacled Hare-wallaby)) has been recorded approximately six kilometres from the area under application (Parks and Wildlife 2015). The vegetation under application may provide habitat for the above mentioned fauna species, however given the small area (0.13 hectares) under application it is unlikely to contain significant fauna habitat. The area under application is part of a larger remnant which contains vegetation in better condition and therefore, providing better quality fauna habitat.</p> <p>The area under application is located within the Shire of Broome, the Dampierland Interim Biogeographic Regionalisation of Australia (IBRA) bioregion and mapped as Beard vegetation association 699 which all have approximately 99 percent of their pre-European vegetation extent remaining (Government of Western Australia 2013). Given the vegetation representations outlined above, the vegetation proposed to be cleared is not likely to be a significant remnant within an extensively cleared area.</p> <p>The clearing as proposed may indirectly impact adjacent native vegetation through the spread of weeds. Weed management practices will assist in mitigating this risk.</p> <p>No conservation areas, threatened ecological communities, wetlands or watercourses are located within the vicinity of the application area.</p> <p>The clearing of 0.13 hectares of native vegetation in a degraded (Keighery 1994) condition is not likely to cause deterioration to the quality of groundwater or surface water, cause appreciable land degradation or exacerbate flooding.</p> <p>The assessment of the application identified that the clearing is not likely to be at variance to any of the clearing principles.</p>
Methodology	<p>References:</p> <ul style="list-style-type: none">- Parks and Wildlife (2007-)- Parks and Wildlife (2015)- Government of Western Australia (2013)- Keighery (1994) <p>GIS Databases:</p> <ul style="list-style-type: none">- Hydrology, linear- Parks and Wildlife, tenure- Pre European vegetation- SAC Bio Datasets (Accessed March 2015)

Planning instruments and other relevant matters.

Comments	<p>No submissions have been received in relation to this application.</p> <p>No 'Aboriginal Sites of Significance' have been recorded within the area under application.</p> <p>GIS Databases:</p> <ul style="list-style-type: none">- Aboriginal Sites of Significance
Methodology	

4. References

- Government of Western Australia (2013) 2013 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). Current as of June 2013. WA Department of Parks and Wildlife, Perth.
- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Parks and Wildlife (2015) Regional Advice for Application Number CPS 6449/1 – Road Construction. Department of Parks and Wildlife. Western Australian DER Ref: A892142
- Parks and Wildlife (2007-) NatureMap: Mapping Western Australia's Biodiversity. Department of Parks and Wildlife. URL: <http://naturemap.dpaw.wa.gov.au/>. Accessed March 2015
- Shepherd, D.P., Beeston, G.R. and Hopkins, A.J.M. (2001) Native Vegetation in Western Australia, Extent, Type and Status. Resource Management Technical Report 249. Department of Agriculture, Western Australia.