



## CLEARING PERMIT

*Granted under section 51E of the Environmental Protection Act 1986*

|                               |                           |
|-------------------------------|---------------------------|
| <b>Purpose Permit number:</b> | CPS 4919/2                |
| <b>Permit Holder:</b>         | Hamersley Iron Pty Ltd    |
| <b>Duration of Permit:</b>    | 18 May 2012 – 18 May 2022 |

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 construction of a pipeline and associated lay down areas, car parks, surge tanks, chlorination units, pump stations, booster stations, site offices and storage areas.

#### **2. Land on which clearing is to be done**

Lot 32 on Plan 55948, MOUNT SHEILA  
Lot 106 on Plan 243222, MOUNT SHEILA  
Part Lot 99 on Plan 238653, MOUNT SHEILA  
Lot 26 on Plan 241873, TOM PRICE  
Lot 9 on Plan 47815, MOUNT SHEILA  
Lot 35 on Plan 93088, TOM PRICE  
Lot 289 on Plan 188298, TOM PRICE  
Lot 277 on Plan 15091, TOM PRICE  
Lot 235 on Plan 15091, TOM PRICE  
Lot 271 on Plan 15093, TOM PRICE  
Lot 10 on Plan 241873, TOM PRICE  
Lot 3013 on Plan 44791, TOM PRICE  
Lot 3000 on Plan 44791, TOM PRICE  
Lot 56 on Plan 216344, TOM PRICE  
Lot 36 on Plan 51848, TOM PRICE  
Lot 8 on Plan 241372, MOUNT SHEILA  
Unallocated Crown Land, (PIN: 1014970), MOUNT SHEILA  
Unallocated Crown Land (PIN: 1014967), MOUNT SHEILA  
Unallocated Crown Land, (PIN: 1014965), MOUNT SHEILA  
Unallocated Crown land (PIN: 1014954), MOUNT SHEILA  
Kanberra Drive Road Reserve, MOUNT SHEILA  
Killawarra Drive Road Reserve, MOUNT SHEILA  
Jabbarup Place Road Reserve, TOM PRICE

#### **3. Area of Clearing**

The Permit Holder must not clear more than 82 hectares of native vegetation within the area shaded yellow on attached Plan 4919/2.

#### **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.

**5. Type of clearing authorised**

This Permit authorises the Permit Holder to clear native vegetation for activities to the extent that the Permit Holder has the right to access land under the *Water Agencies (Powers) Act 1984* or any other written law.

**6. Period in which clearing is authorised**

The Permit Holder shall not clear any native vegetation after 18 May 2017.

**7. Compliance with Assessment Sequence and Management Procedures**

Prior to clearing any native vegetation under conditions 1, 2 and 3 of this Permit, the Permit Holder must comply with the Assessment Sequence and the Management Procedures set out in Part II of this Permit.

**PART II – ASSESSMENT SEQUENCE AND MANAGEMENT PROCEDURES**

**8. 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:

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

**9. Weed control**

(a) 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*:

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

(b) At least once in each 12 month period for the term of this Permit, the Permit Holder must remove or kill any *weeds* growing within areas cleared under this Permit.

**10. Watercourse**

- (a) Where practicable the Permit Holder shall avoid clearing riparian vegetation.
- (b) Where a watercourse is to be impacted by clearing, the Permit Holder shall maintain the existing surface flow of that watercourse by use of culverts.

**11. Retain vegetative material and topsoil, revegetation and rehabilitation**

The Permit Holder shall:

- (a) retain the vegetative material and topsoil removed by clearing authorised under this Permit and stockpile the vegetative material and topsoil in an area that has already been cleared.
- (b) within 6 months following clearing authorised under this permit, *revegetate* and *rehabilitate* the area(s) that are no longer required for the purpose for which they were cleared under this Permit by:
  - (i) laying the vegetative material and topsoil retained under condition 11(a) on the cleared area(s) that are no longer required.
- (c) within 24 months of laying the vegetative material and topsoil on the cleared area in accordance with condition 11(b) of this Permit:
  - (i) engage an *environmental specialist* to determine the species composition, structure and density of the area *revegetated* and *rehabilitated*; and
  - (ii) where, in the opinion of an *environmental specialist*, the composition structure and density determined under condition 11(c)(i) of this Permit will not result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, *revegetate* the area by deliberately *planting* and/or *direct seeding* native

vegetation that will result in a similar species composition, structure and density of native vegetation to pre-clearing vegetation types in that area and ensuring only *local provenance* seeds and propagating material are used.

- (d) Where additional *planting* or *direct seeding* of native vegetation is undertaken in accordance with condition 11(c)(ii) of this permit, the Permit Holder shall repeat condition 11(c)(i) and 11(c)(ii) within 24 months of undertaking the additional *planting* or *direct seeding* of native vegetation.
- (e) Where a determination by an *environmental specialist* that the composition, structure and density within areas *revegetated* and *rehabilitated* will result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, as determined in condition 11(c)(i) and (ii) of this permit, that determination shall be submitted for the CEO's consideration. If the CEO does not agree with the determination made under condition 11(c)(ii), the CEO may require the Permit Holder to undertake additional *planting* and *direct seeding* in accordance with the requirements under condition 11(c)(ii).

### **PART III - RECORD KEEPING AND REPORTING**

#### **12. Records must be kept**

The Permit Holder must maintain the following records for activities done pursuant to this Permit:

- (a) In relation to the clearing of native vegetation authorised under this Permit:
  - (i) the location where the clearing occurred, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
  - (ii) the date that the area was cleared; and
  - (iii) the size of the area cleared (in hectares).
- (b) In relation to the revegetation and rehabilitation of areas pursuant to condition 11 of this Permit:
  - (i) the location of any areas revegetated and rehabilitated, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
  - (ii) a description of the revegetation and rehabilitation activities undertaken; and
  - (iii) the size of the area revegetated and rehabilitated (in hectares).

#### **13. Reporting**

- (a) The Permit Holder must provide to the CEO on or before 30 June of each year, a written report:
  - (i) of records required under condition 12 of this Permit; and
  - (ii) concerning activities done by the Permit Holder under this Permit between 1 January and 31 December of the preceding year.
- (b) Prior to 18 February 2022 the Permit Holder must provide to the CEO a written report of records required under condition 12 of this Permit where these records have not already been provided under condition 13(a) of this Permit.

### **DEFINITIONS**

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

*direct seeding* means a method of re-establishing vegetation through the establishment of a seed bed and the introduction of seeds of the desired plant species;

*environmental specialist* means a person who is engaged by the Permit Holder for the purpose of providing environmental advice, who holds a tertiary qualification in environmental science or equivalent, and has experience relevant to the type of environmental advice that an environmental specialist is required to provide under this Permit;

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

**Guidance Statement No 56** means Guidance for the Assessment of Environmental Factors: Terrestrial Fauna Surveys for Environmental Impact Assessment in Western Australia. Guidance Statement No 56, Environmental Protection Authority (2004).

**local provenance** means native vegetation seeds and propagating material from natural sources within 100 kilometres of the area cleared.

**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;

**planting** means the re-establishment of vegetation by creating favourable soil conditions and planting seedlings of the desired species;

**regenerate/ed/ion** means re-establishment of vegetation from in situ seed banks and propagating material (such as lignotubers, bulbs, rhizomes) contained either within the topsoil or seed-bearing *mulch*;

**rehabilitate/ed/ion** means actively managing an area containing native vegetation in order to improve the ecological function of that area;

**revegetate/ed/ion** means the re-establishment of a cover of *local provenance* native vegetation in an area using methods such as natural *regeneration*, *direct seeding* and/or *planting*, so that the species composition, structure and density is similar to pre-clearing vegetation types in that area.

**weed/s** means a species listed in Appendix 3 of the "Environmental Weed Strategy" published by the Department of Conservation and Land Management (1999), and plants declared under section 37 of the *Agriculture and Related Resources Protection Act 1976*.



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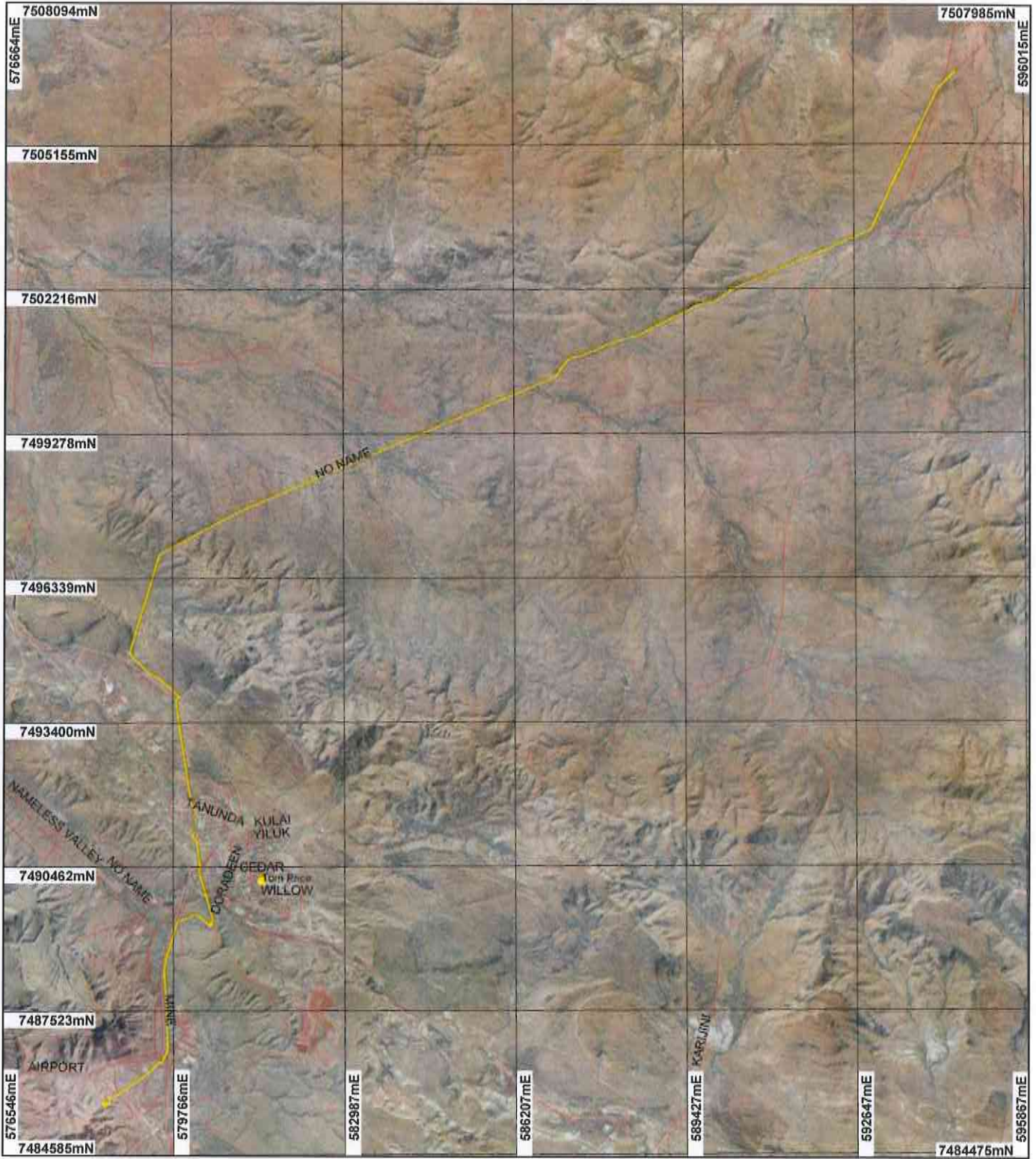
Kelly Faulkner  
MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

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

17 May 2012



# Plan 4919/2



## LEGEND

- Road Centrelines**  
**Cadastre for labelling**
- Freehold
  - Crown Reserve
  - State Forest / Timber Reserve
  - Marine Park (cont)

- Crown Lease
  - Lease / Reserve
  - Lease on State Forest / Timber Reserve
  - Public Roads
  - Unallocated Crown Land
  - Water
- Clearing Instruments**
- Areas Approved to Clear

Mount Lionel 50cm  
 Orthomosaic - Landgate  
 2004

- Towns**
- A
  - B
  - C



0 3 km

Scale 1:107472

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

*[Signature]* Date 17/5/12  
 K Faulkner

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 legend.



Department of  
**Environment and Conservation**

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## 1. Application details

### 1.1. Permit application details

Permit application No.: 4919/2  
Permit type: Purpose Permit

### 1.2. Proponent details

Proponent's name: Hamersley Iron Pty Ltd

### 1.3. Property details

#### Property:

UNALLOCATED CROWN LAND ( MOUNT SHEILA 6751)  
UNALLOCATED CROWN LAND ( MOUNT SHEILA 6751)  
LOT 26 ON PLAN 241873 ( TOM PRICE 6751)  
UNALLOCATED CROWN LAND ( MOUNT SHEILA 6751)  
UNALLOCATED CROWN LAND ( MOUNT SHEILA 6751)  
LOT 8 ON PLAN 241372 ( MOUNT SHEILA 6751)  
UNALLOCATED CROWN LAND ( MOUNT SHEILA 6751)  
UNALLOCATED CROWN LAND ( MOUNT SHEILA 6751)  
LOT 3007 ON PLAN 58290 ( MOUNT SHEILA 6751)  
LOT 9 ON PLAN 47815 ( MOUNT SHEILA 6751)  
LOT 9 ON PLAN 47815 ( TOM PRICE 6751)  
LOT 36 ON PLAN 51845 ( TOM PRICE 6751)  
UNALLOCATED CROWN LAND ( MOUNT SHEILA 6751)  
LOT 26 ON PLAN 241873 ( TOM PRICE 6751)  
LOT 26 ON PLAN 241873 ( TOM PRICE 6751)  
LOT 56 ON PLAN 216344 ( TOM PRICE 6751)  
LOT 10 ON PLAN 241873 ( TOM PRICE 6751)  
LOT 3000 ON PLAN 44791 ( TOM PRICE 6751)  
LOT 3013 ON PLAN 44791 ( TOM PRICE 6751)  
LOT 10 ON PLAN 241873 ( TOM PRICE 6751)  
LOT 10 ON PLAN 241873 ( TOM PRICE 6751)  
LOT 9 ON PLAN 47815 ( TOM PRICE 6751)  
LOT 26 ON PLAN 241873 ( TOM PRICE 6751)  
LOT 35 ON PLAN 93088 (House No. 35 KANBERRA TOM PRICE 6751)  
ROAD RESERVE ( TOM PRICE 6751)  
LOT 271 ON PLAN 15093 (Lot No. 271 JABBARUP TOM PRICE 6751)  
ROAD RESERVE ( TOM PRICE 6751)  
LOT 277 ON PLAN 15091 (Lot No. 277 JABBARUP TOM PRICE 6751)  
LOT 35 ON PLAN 93088 (House No. 35 KANBERRA TOM PRICE 6751)  
LOT 1235 ON PLAN 15091 (Lot No. 1235 KANBERRA TOM PRICE 6751)  
ROAD RESERVE ( TOM PRICE 6751)  
LOT 35 ON PLAN 93088 (House No. 35 KANBERRA TOM PRICE 6751)  
LOT 289 ON PLAN 188298 (Lot No. 289 KANBERRA TOM PRICE 6751)  
LOT 26 ON PLAN 241873 ( TOM PRICE 6751)  
LOT 9 ON PLAN 47815 ( MOUNT SHEILA 6751)  
LOT 26 ON PLAN 241873 ( TOM PRICE 6751)  
UNALLOCATED CROWN LAND ( MOUNT SHEILA 6751)  
LOT 32 ON PLAN 55948 ( MOUNT SHEILA 6751)  
UNALLOCATED CROWN LAND ( MOUNT SHEILA 6751)  
PART LOT 99 ON PLAN 238653 ( MOUNT SHEILA 6751)  
PART LOT 99 ON PLAN 238653 ( MOUNT SHEILA 6751)  
LOT 32 ON PLAN 55948 ( MOUNT SHEILA 6751)  
PART LOT 99 ON PLAN 238653 ( MOUNT SHEILA 6751)  
LOT 107 ON PLAN 243223 ( MOUNT SHEILA 6751)  
LOT 106 ON PLAN 243222 ( MOUNT SHEILA 6751)  
PART LOT 99 ON PLAN 238653 ( MOUNT SHEILA 6751)



PART LOT 99 ON PLAN 238653 ( MOUNT SHEILA 6751)  
 LOT 32 ON PLAN 55948 ( MOUNT SHEILA 6751)  
 PART LOT 99 ON PLAN 238653 ( MOUNT SHEILA 6751)  
 Shire of Ashburton

Local Government Area:  
 Colloquial name:

#### 1.4. Application

|                    |           |                    |   |
|--------------------|-----------|--------------------|---|
| Clearing Area (ha) | No. Trees | Method of Clearing | For the purpose of:                         |
| 82                 |           | Mechanical Removal | Water/gas/cable/pipeline/power installation |

#### 1.5. Decision on application

Decision on Permit Application: Grant  
 Decision Date: 17 May 2012

## 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 82 is described as Hummock grasslands, low tree steppe; snappy gum over <i>Triodia wiseana</i>                    | The proposed clearing of 82 hectares within a 163 hectare area is for the purpose of pipeline construction and associated activities including surge tanks, chlorination units, pump stations, booster station, site offices, equipment laydown areas, car parks and storage areas.  | Excellent: Vegetation structure intact; disturbance affecting individual species, weeds non-aggressive (Keighery 1994)         | Condition of the vegetation was established from flora survey undertaken in September 2008 (Mattiske Consulting Pty Ltd 2008) and November 2010 (Pilbara Flora 2011). |
| Mapped Beard vegetation association 29 is described as Sparse low woodland; mulga, discontinuous in scattered groups                                  | The vegetation under application consists of 10 vegetation associations:<br><br>Open woodland of <i>Eucalyptus victrix</i> , <i>Eucalyptus camaldulensis</i> var. <i>obtusa</i> over <i>Acacia citrinoviridis</i> over <i>Petalostyllis labicheoides</i> , <i>Acacia pyrifolia</i> over <i>Tephrosia rosea</i> var. <i>clementii</i> , <i>Themeda triandra</i> and <i>Cleome viscosa</i> within major creeklines with sandy soils.   | To<br><br>Degraded; Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994) |   |
| Mapped Beard vegetation association 567 is described as Hummock grasslands, shrub steppe; mulga & kanji over soft spinifex & <i>Triodia basedowii</i> | Low woodland of <i>Eucalyptus xerothermica</i> and <i>Corymbia hamersleyana</i> over <i>Acacia maitlandii</i> , <i>Acacia bivenosa</i> , <i>Petalostyllis labicheoides</i> , <i>Rulingia luteiflora</i> over <i>Themeda triandra</i> and <i>Triodia pungens</i> in minor creeklines.   |  |   |
| Mapped Beard vegetation association 157 is described as Hummock grasslands, grass steppe; hard spinifex, <i>Triodia wiseana</i>                       | Tall shrubland of <i>Acacia bivenosa</i> , <i>Acacia ancistrocarpa</i> , <i>Acacia maitlandii</i> , <i>Acacia monticola</i> with occasional emergent <i>Corymbia deserticola</i> subsp. <i>deserticola</i> and <i>Eucalyptus leucophloia</i> over <i>Gompholobium polyzyga</i> , <i>Rulingia luteiflora</i> and <i>Triodia pungens</i> on sandy loam in minor gullies.   |  |   |
| Mapped Beard vegetation association 18 is described as Low woodland; mulga ( <i>Acacia aneura</i> )<br><br>(Shepherd 2009)                            | Low woodland to low open forest of <i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia pruinocarpa</i> , <i>Grevillea berryana</i> over <i>Eremophila galeata</i> , <i>Acacia tetragonophylla</i> , <i>Eremophila forrestii</i> over <i>Triodia pungens</i> on sandy loam flats and broad plains.<br><br>Low woodland of <i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia pruinocarpa</i> over <i>Acacia tetragonophylla</i> over <i>Triodia pungens</i> on snay flats and broad plains.<br><br>Low woodland of <i>Acacia aneura</i> var. <i>aneura</i> , <i>Corymbia hamersleyana</i> and <i>Acacia pruinocarpa</i> on mid upper slopes on edges of hills and ranges |  |   |
|   | Hummock grassland of <i>Triodia pungens</i> and <i>Triodia wiseana</i> with <i>Eucalyptus gamophylla</i> , <i>Eucalyptus leucophloia</i> , <i>Acacia aneura</i> var. <i>aneura</i> , <i>Acacia pruinocarpa</i> on gravelly soil on lower and mid slopes.   |  |   |
|   | Hummock grassland of <i>Triodia wiseana</i> with emergent <i>Eucalyptus leucophloia</i> , <i>Corymbia deserticola</i> subsp. <i>deserticola</i> on gravelly soils on mid o upper slopes of small ranges.   |  |   |

Hummock grassland of *Triodia wiseana* with emergent *Acacia leucophloia*, *Corymbia deserticola* subsp. *deserticola* over *Acacia bivenosa*, *Themeda triandra* on gravelly soils on upper slopes of ranges and;

Hummock grassland of *Triodia wiseana* with *Acacia inaequilatera*, *Eucalyptus leucophloia*, *Acacia bivenosa* and mixed *Senna glutinosa* subsp. *glutinosa* on gravelly soils on mid and upper slopes of basalt ranges ( Matiske Consulting Pty Ltd 2008).

### 3. Assessment of application against clearing principles

#### Comments

This amendment has been made in response to an administrative error which occurred at condition 11(b) and 11(c) relating to the revegetation to be undertaken and the definition of local provenance under Permit 4919/1.

A review of current environmental information reveals no new additional information. Therefore the assessment against the clearing principles has not changed and can be found in the Clearing Permit Decision Report CPS 4919/1.

#### Methodology

### Planning instrument, Native Title, Previous EPA decision or other matter.

#### Comments

No submissions from the public have been received.

Administrative changes to the permit conditions have been made to bring the conditions in line with current Department of Environment and Conservation practice.

#### Methodology

### 4. References

Keighery, B.J. (1994) *Bushland Plant Survey: A Guide to Plant Community Survey for the Community*. Wildflower Society of WA (Inc). Nedlands, Western Australia.

Matiske Consulting Pty Ltd (2008) *Flora and Vegetation on the Pipeline Corridor from the Fortescue Borefield to Tom Price*. Prepared for Pilbara Iron. Supporting information for CPS 4919/1, Hamersley iron Pty Ltd. DEC ref A479551

Pilbara Flora (2011) *Flora and Vegetation Surveys for the Paraburdoo Magazine and the Tom Price Powerline Infrastructure Areas*. Supporting Information for Clearing Permit Application CPS 4919/1. Prepared for Rio Tinto Iron Ore. January 2011. DEC Ref: A479551.

Shepherd, D.P. (2009) Adapted from: Shepherd, D.P., Beeston, G.R., and Hopkins, A.J.M. (2001), *Native Vegetation in Western Australia*. Technical Report 249. Department of Agriculture Western Australia, South Perth.

### 5. Glossary

| Term  | Meaning  |
|-------|--|
| BCS   | Biodiversity Coordination Section of DEC                 |
| CALM  | Department of Conservation and Land Management (now BCS) |
| DAFWA | Department of Agriculture and Food                       |
| DEC   | Department of Environment and Conservation               |
| DEP   | Department of Environmental Protection (now DEC)         |
| DoE   | Department of Environment                                |
| DoIR  | Department of Industry and Resources                     |
| DRF   | Declared Rare Flora                                      |
| EPP   | Environmental Protection Policy                          |
| GIS   | Geographical Information System                          |
| ha    | Hectare (10,000 square metres)                           |
| TEC   | Threatened Ecological Community                          |
| WRC   | Water and Rivers Commission (now DEC)                    |