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Published on 13 August 2008

Statement No. 773

**STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED
(PURSUANT TO THE PROVISIONS OF THE
ENVIRONMENTAL PROTECTION ACT 1986)**

**WINDIMURRA VANADIUM PROJECT: LAND CLEARING & MINING
BELOW THE BASE OF WEATHERING
80 KILOMETRES SOUTH-EAST OF MOUNT MAGNET
SHIRE OF MOUNT MAGNET**

Proposal:

The proposal involves land clearing and mining below the base of weathering for the recommencement and extension of the Windimurra Vanadium Mine which ceased operations in 2004. The mine and associated infrastructure are located approximately 80 kilometres south-east of Mount Magnet, in the Shire of Mount Magnet.

An additional 272 hectares of land will be cleared, beyond the 350 hectares already cleared for the original mine, and open pit mining will take place to a pit depth of 90 metres. Processing of approximately 3.9 million tonnes per annum of ore will produce approximately 10,500 tonnes per annum of vanadium pentoxide flake and ferrovandium.

Proponent:

Windimurra Vanadium Limited

Proponent Address:

Level 4, 76 King's Park Road, WEST PERTH WA 6005

Assessment Number:

1743

Report of the Environmental Protection Authority: Bulletin 1288

The proposal referred to in the above report of the Environmental Protection Authority may be implemented. The implementation of that proposal is subject to the following conditions and procedures:

1 Proposal Implementation

1-1 The proponent shall implement the proposal as assessed by the Environmental Protection Authority and described in schedule 1 of this statement subject to the conditions and procedures of this statement.

Published on 13 August 2008

2 Proponent Nomination and Contact Details

- 2-1 The proponent for the time being nominated by the Minister for the Environment under sections 38(6) or 38(7) of the *Environmental Protection Act 1986* is responsible for the implementation of the proposal.
- 2-2 The proponent shall notify the Chief Executive Officer (CEO) of the Department of Environment and Conservation of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.

3 Time Limit of Authorisation

- 3-1 The authorisation to implement the proposal provided for in this statement shall lapse and be void within five years after the date of this statement if the proposal to which this statement relates is not substantially commenced.
- 3-2 The proponent shall provide the CEO of the Department of Environment and Conservation with written evidence which demonstrates that the proposal has substantially commenced on or before the expiration of five years from the date of this statement.

4 Compliance Reporting

- 4-1 The proponent shall submit to the CEO of the Department of Environment and Conservation environmental compliance reports annually reporting on the previous twelve-month period, unless required by the CEO of the Department of Environment and Conservation to report more frequently.
- 4-2 The environmental compliance reports shall address each element of an audit program approved by the CEO of the Department of Environment and Conservation and shall be prepared and submitted in a format acceptable to the CEO of the Department of Environment and Conservation.
- 4-3 The environmental compliance reports shall:
 - 1 be endorsed by signature of the proponent's Managing Director or a person, approved in writing by the CEO of the Department of Environment and Conservation, delegated to sign on behalf of the proponent's Managing Director;
 - 2 state whether the proponent has complied with each condition and procedure contained in this statement;
 - 3 provide verifiable evidence of compliance with each condition and procedure contained in this statement;
 - 4 state whether the proponent has complied with each key action contained in any environmental management plan or program required by this statement;

- 5 provide verifiable evidence of conformance with each key action contained in any environmental management plan or program required by this statement;
 - 6 identify all non-compliances and non-conformances and describe the corrective and preventative actions taken in relation to each non-compliance or non-conformance;
 - 7 review the effectiveness of all corrective and preventative actions taken; and
 - 8 describe the state of implementation of the proposal.
- 4-4 The proponent shall make the environmental compliance reports required by condition 4-1 publicly available in a manner approved by the CEO of the Department of Environment and Conservation.

5 Performance Review and Reporting

- 5-1 The proponent shall submit to the CEO of the Department of Environment and Conservation Performance Review Reports at the conclusion of the first, third, fifth, seventh and ninth years after the start of implementation of the proposal and then, at such intervals as the CEO of the Department of Environment and Conservation may regard as reasonable, which address:
- 1 the major environmental risks and impacts; the performance objectives, standards and criteria related to these; the success of risk reduction/impact mitigation measures and results of monitoring related to the management of the major risks and impacts;
 - 2 the level of progress in the achievement of sound environmental performance, including industry benchmarking, and the use of best available technology where practicable; and
 - 3 significant improvements gained in environmental management which could be applied to this and other similar projects.

6 Vegetation

- 6-1 In implementing the proposal, the proponent may take the gazetted priority species *Grevillea inconspicua* and *Calytrix erosipetala*, which have been recorded or are likely to occur as shown in Figures 4, 5 and 6 (attached), and delineated by AMG coordinates listed in schedule 2.
- 6-2 The proponent shall monitor flora and vegetation outside the areas of permitted removal referred to in condition 6-1. This monitoring is to be carried out to the satisfaction of the CEO of the Department of Environment and Conservation.

6-3 The proponent shall submit the results of monitoring referred to in condition 6-2 to the CEO of the Department of Environment and Conservation at times determined by the CEO of the Department of Environment and Conservation.

6-4 The proponent shall immediately provide proposed management measures to the CEO of the Department of Environment and Conservation in the event that the requirements of condition 6-1 are not met or are not likely to be met.

7 Mine Closure and Rehabilitation

7-1 Prior to the commencement of productive mining, the proponent shall conduct surveys of the proposal area to collect baseline information on the following:

1. pre-mining soil profiles;
2. groundwater levels;
3. surface water flows;
4. vegetation complexes; and
5. landscape and landforms.

7-2 As mining progresses, the proponent shall commence rehabilitation of the mine site area in accordance with the following:

1. Re-establishment of vegetation in the rehabilitation area to be comparable with that of the pre-mining vegetation such that the following criteria are met within four years following the cessation of productive mining:
 - (1) flora and vegetation are re-established with not less than 70 percent coverage (not including weed species); and
 - (2) weed coverage less than 10 percent.
2. A schedule of rate of rehabilitation acceptable to the CEO of the Department of Environment and Conservation.

7-3 The proponent shall ensure that the final pit lake does not cause significant environmental impacts arising from groundwater pollution or through attracting native fauna which may subsequently be harmed.

7-4 In liaison with the Department of Environment and Conservation, the proponent shall monitor progressively the performance of rehabilitation against the criteria in condition 7-2 based on annual reporting in spring.

7-5 The proponent shall submit annually a report of the rehabilitation performance monitoring required by condition 7-4 to the CEO of the Department of Environment and Conservation.

David Templeman MLA
MINISTER FOR THE ENVIRONMENT; CLIMATE CHANGE; PEEL

Schedule 1

Windimurra Vanadium project: Land clearing and mining below the base of weathering (Assessment No. 1743)

General Description

The proposal involves land clearing and mining below the base of weathering for the recommencement and extension of the already approved Windimurra Vanadium mine. The life of the mine will be more than 20 years.

An additional 272 hectares of land will be cleared and open pit mining will take place to a pit depth of 90 metres. Processing of approximately 3.9 million tonnes per annum of ore will produce approximately 10,500 tonnes per annum of vanadium pentoxide flake and ferrovandium.

The proposal is described in the following document – MBS Environmental: *Windimurra Vanadium Project: Land clearing and mining below the base of weathering* – Environmental Protection Statement, Draft 5, April 2008.

Summary Description

A summary of the key proposal characteristics is presented in Table 1.

Table 1 – Summary of Key Proposal Characteristics

Element	Description
Size of pit	Not more than 4,000 metres x 290 metres
Depth of pit	Not more than 90 metres
Total area of disturbance	Not more than 622 hectares (includes 350 hectares already cleared for the original mine)

Figures (attached)

Figure 1 – Location Plan

Figure 2 – Land Clearing Requirements

Figure 3 – Location of Priority Flora

Figure 4 – Calcine Waste Disposal Facility extension *Grevillea inconspicua* boundary

Figure 5 – West of pit *Calytrix erosipetala* boundary

Figure 6 – South of pit *Calytrix erosipetala* boundary

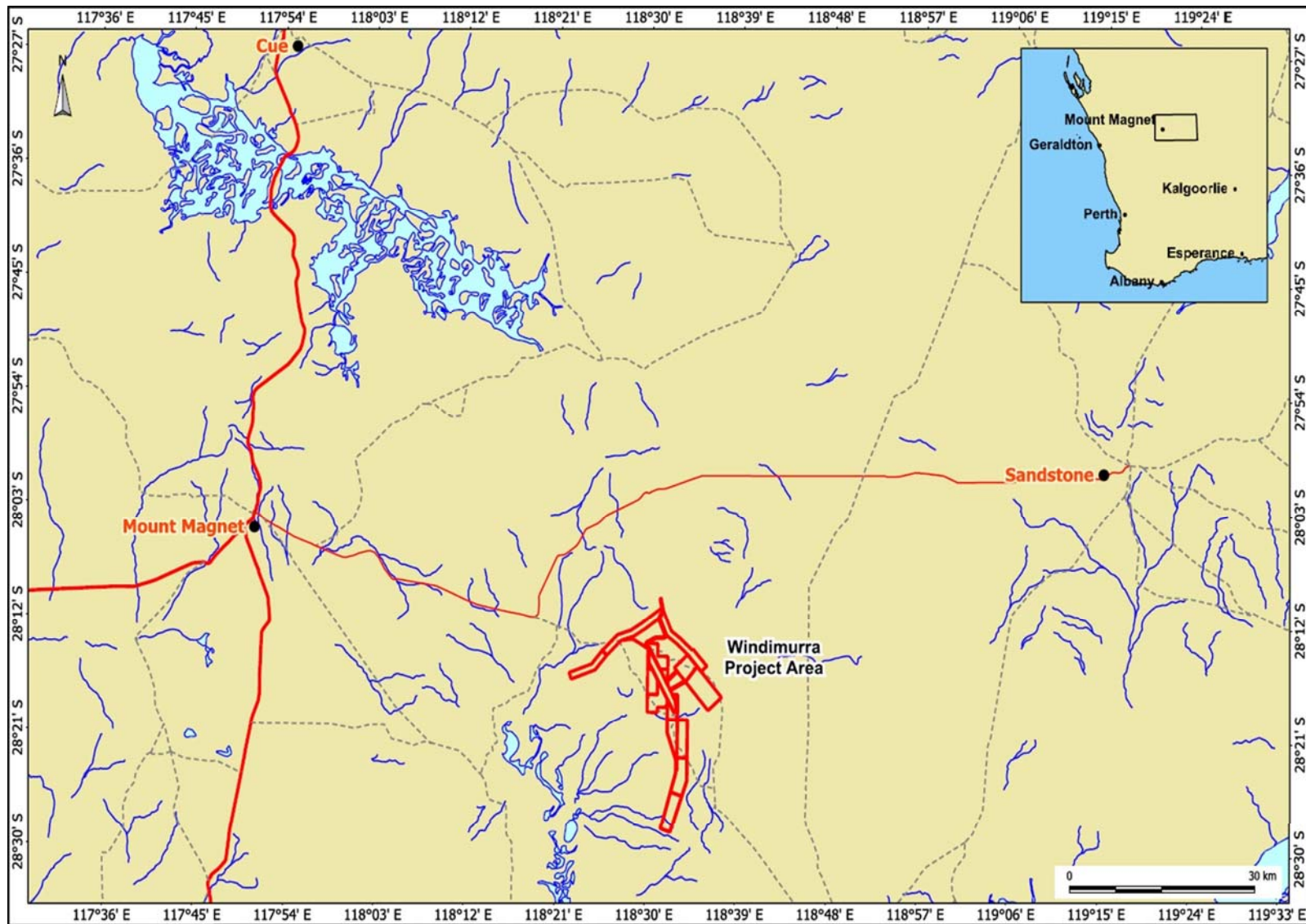


Figure 1: Location Plan

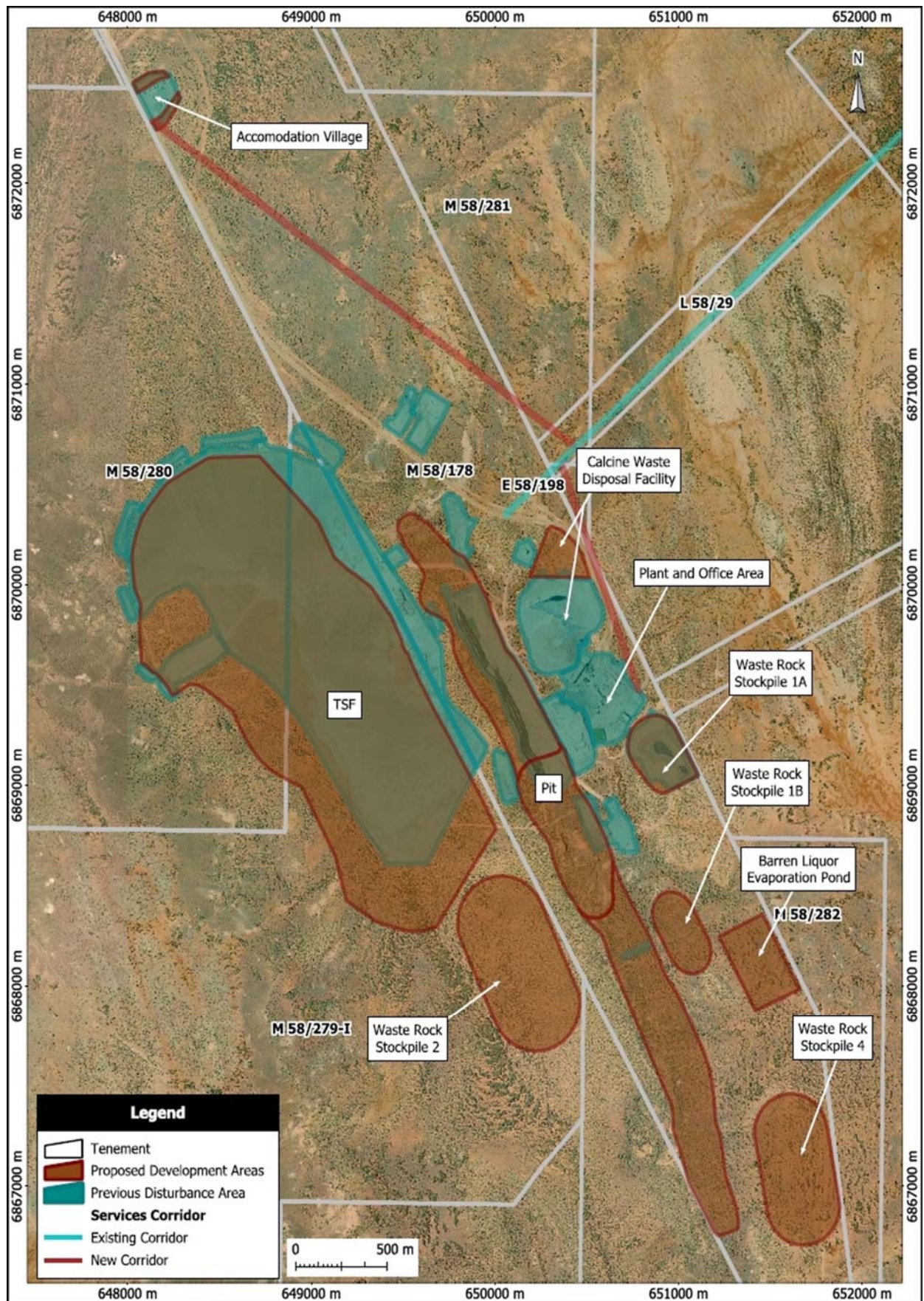


Figure 2: Land Clearing Requirements

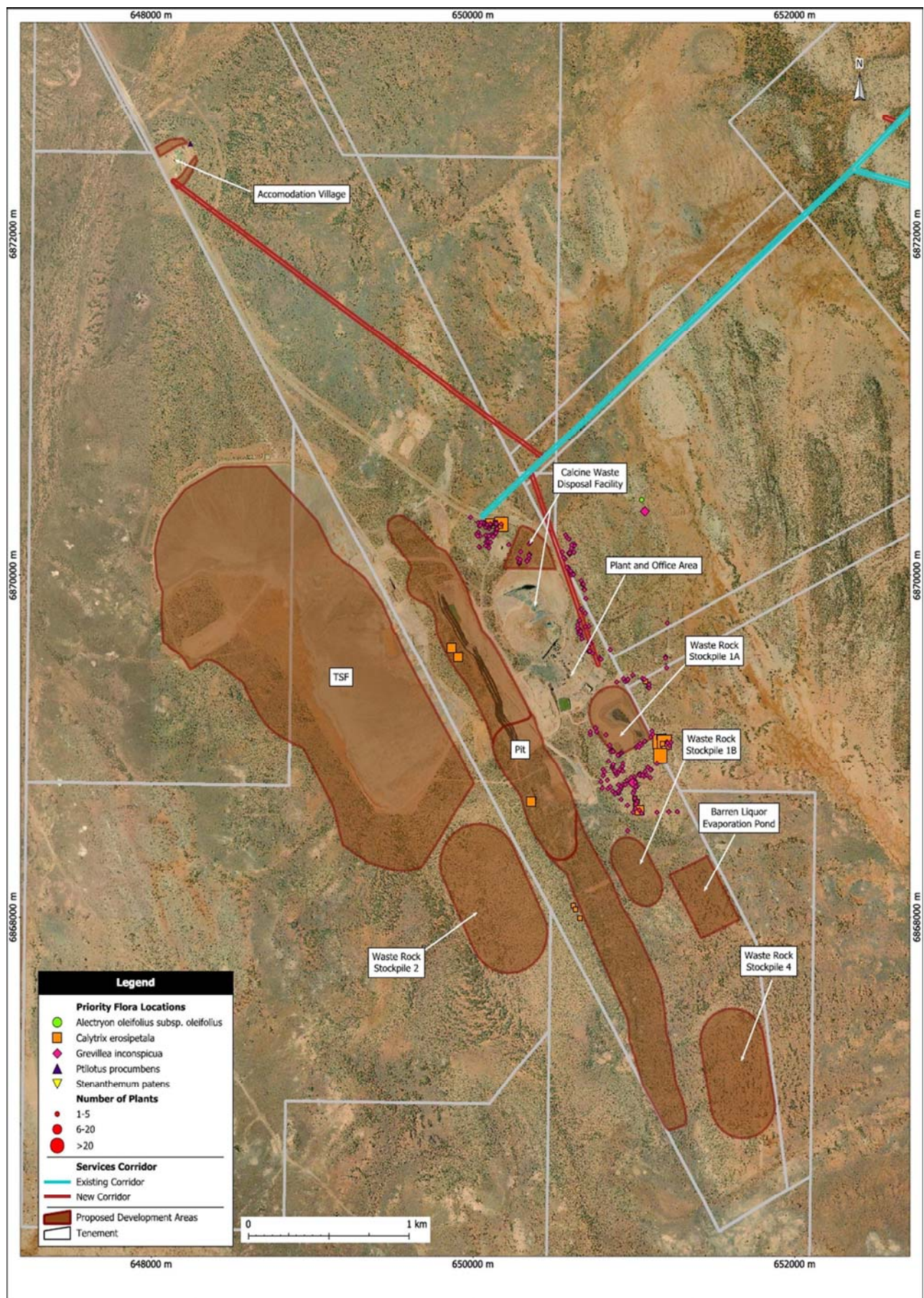


Figure 3: Location of DEC Priority Flora

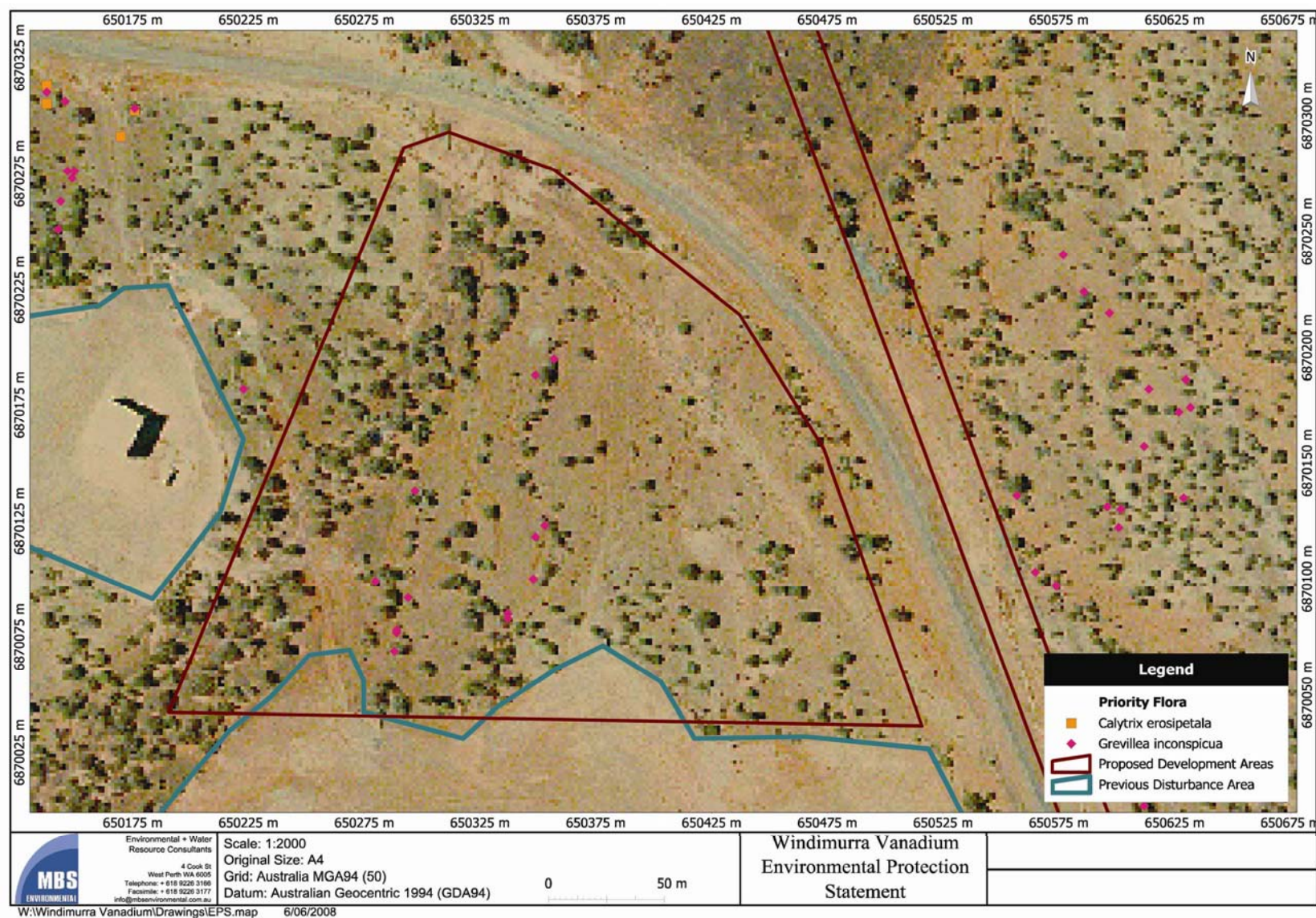


Figure 4: Calcine Waste Disposal Facility extension *Grevillea inconspicua* boundary

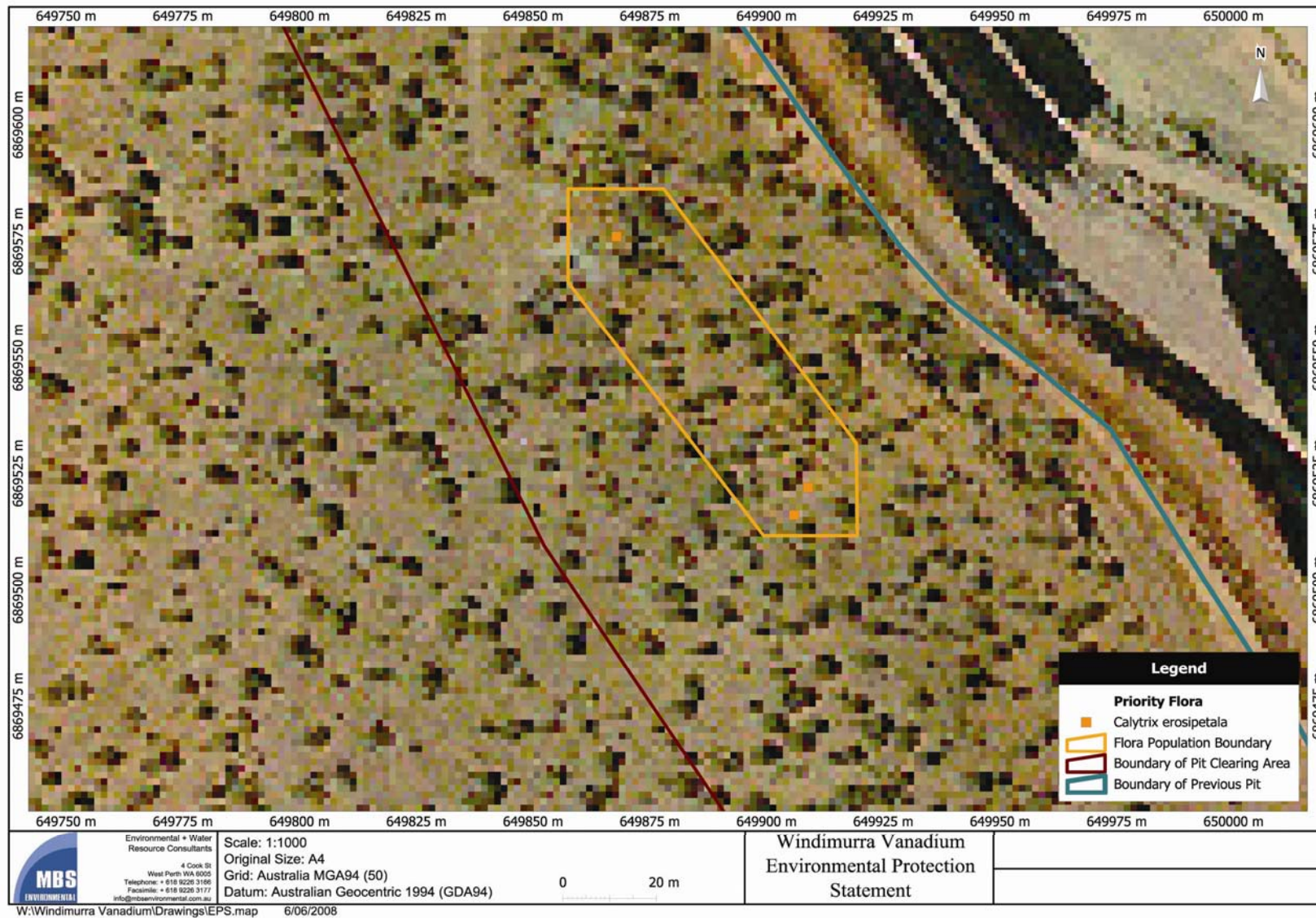


Figure 5: West of pit Calytrix erosipetala boundary

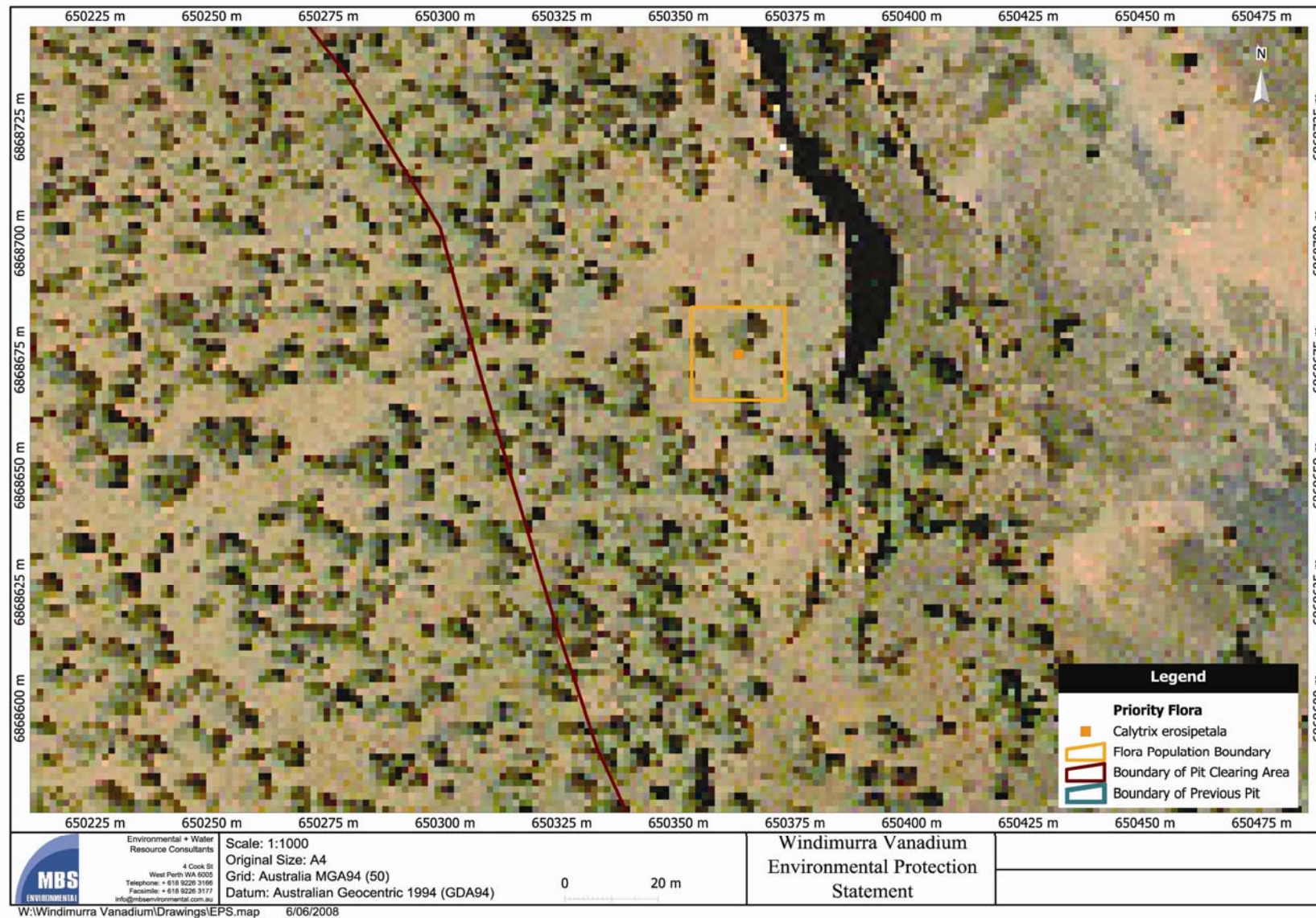


Figure 6: South of pit Calytrix erosipetala boundary

Schedule 2

Windimurra Vanadium project: Land clearing and mining below the base of weathering (Assessment No. 1743)

AMG coordinates for *Grevillea inconspicua* and *Calytrix erosipetala* in areas of permitted removal delineated by figures 4, 5 and 6.

Name	Easting	Northing
CWDF Extension	650292.1029	6870286.2220
Perimeter of <i>Grevillea inconspicua</i>	650190.4869	6870042.4737
	650515.8994	6870036.5960
	650473.4322	6870156.1522
	650437.2235	6870214.3705
	650357.0802	6870276.6467
	650311.5422	6870292.9767
<i>Calytrix erosipetala</i> South of pit	650352.815	6868666.361
	650352.815	6868686.361
	650372.815	6868686.361
	650372.815	6868666.361
<i>Calytrix erosipetala</i> West of Pit	649857.527	6869586.263
	649857.527	6869566.221
	649899.397	6869511.651
	649919.439	6869511.651
	649919.241	6869531.494
	649877.966	6869586.263

Attachment 1 to Statement 773

Change to Proposal

Proposal: Windimurra Vanadium Project: Land Clearing and mining
below the base of weathering

Proponent: Midwest Vanadium Pty Ltd

Change:

Component	Quantities/Description
Land Clearing Requirements	As shown in Figure 2

Components of changed Proposal:

Component	Quantities/Description
Revised Land Clearing Requirements	As shown in Figure 7

Figure 7: Revised Land Clearing Requirements

Dr Paul Vogel
Chairman
Environmental Protection Authority
under delegated authority

Approval date: 24.2.09

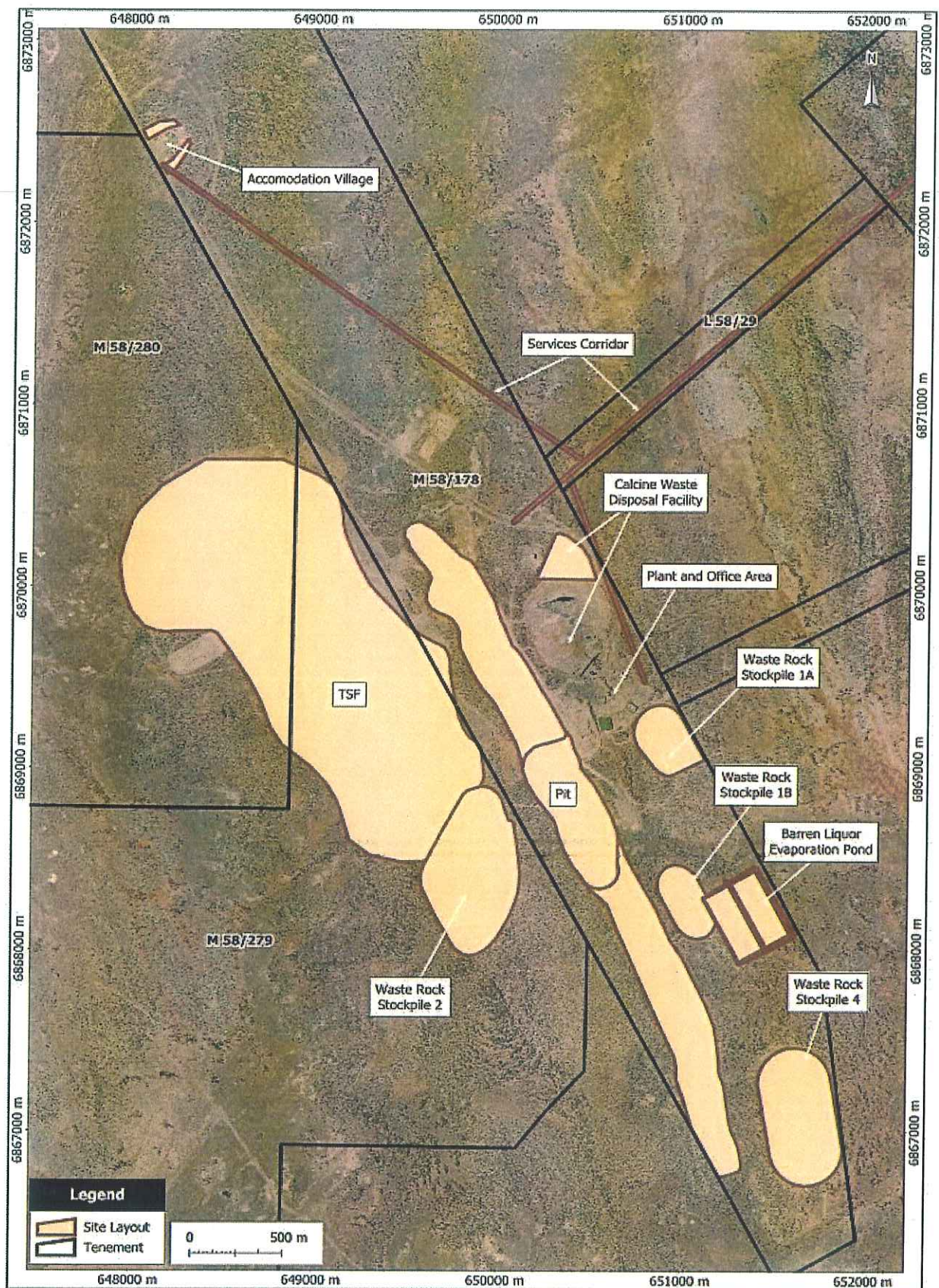


Figure 7: Revised Land Clearing Requirements

Attachment 2 to Statement 773

Change to Proposal

Proposal: **Windimurra Vanadium Project: Land Clearing and mining below the base of weathering**

Proponent: Midwest Vanadium Pty Ltd

Change:

Element	Description of Proposal	Description of approved change to proposal
Size of pit	Not more than 4,000 metres x 290 metres	Not more than 4,000 metres x 290 metres
Depth of Pit	Not more than 90 metres	Not more than 90 metres
Total Area of Disturbance	Not more than 622 ha (including 350 ha of land cleared for the original mine)	Not more than 610 ha in total
Land Clearing Requirements	As shown in Figure 7 [attached to Ministerial Statement 773]	As shown in Figure 8 [attached to Ministerial Statement 773]

Dr Paul Vogel
Chairman
Environmental Protection Authority
under delegated authority

Approval date: 23 August 2011



Source: Midwest Vanadium Pty Ltd and Google Earth (2005)

0 0.5 1.0 1.5km
Main Scale 1:30 000
0 100 200 300m
Inset Scale 1:6 000

Legend

- Approved Area of Land Clearing, Ministerial Statement 773, Approval Date 24/2/2009
- Mining Tenement Boundary
- Proposed Areas to be Cleared

**Proposed Additional Land Clearing
for Ministerial Statement 773**

File Name (A4): 6054_058.dgn
20110822 16.01

Figure 8 – Additional Clearing Areas

Attachment 3 to Ministerial Statement 773

Change to proposal approved under section 45C of the *Environmental Protection Act 1986*

This Attachment replaces Table 1 and Figure 2 of Schedule 1 and Attachment 1 and Attachment 2 to Ministerial Statement 773

Proposal: Windimurra Vanadium project: Land clearing and mining below the base of weathering

Proponent: Windimurra Vanadium Limited

Changes:

- Increase width of the pit from 290 metres to 430 metres (increase of 140 metres).
- Increase the depth of the pit from 90 metres to 150 metres (increase of 60 metres).
- Increase the total disturbance area and vegetation clearing from 610 hectares to 815 hectares (increase of 205 hectares).

Table 1: Summary of the Proposal

Proposal Title	Windimurra Vanadium Project
Short Description	The proposal involves land clearing and mining below the base of weathering for the recommencement and extension of the already approved Windimurra Vanadium mine.

Table 2: Location and authorised extent of physical and operational elements

Element	Location	Previously Authorised Extent	Authorised Extent
Size of pit	Figure 9	Not more than 4,000 x 290 metres	Not more than 4,000 x 430 metres
Depth of Pit		Not more than 90 metres	Not more than 150 metres
Total Area of Disturbance	Figure 9	Not more than 610 hectares in total	Not more than 815 hectares in total
Land Clearing Requirements	Figure 9	As shown in Figure 8 (attached to Ministerial Statement 773)	As shown in Figure 9

Note: Text in **bold** in Table 2 indicates a change to the proposal.

Table 3: Abbreviations

Abbreviation	Term
ha	hectare
m	metre

Figures

Figure 1 – Deleted

Figure 2 – Replaced by Figure 9

Figure 3 – Deleted

Figure 4 – Calcine Waste Disposal Facility extension *Grevillea inconspicua* boundary

Figure 5 – West of pit *Calytrix erosipetala* boundary
Figure 6 – South of pit *Calytrix erosipetala* boundary
Figure 7 – Replaced by Figure 9
Figure 8 – Replaced by Figure 9
Figure 9 (attached) – Development Envelope



Dr Tom Hatton
CHAIRMAN
Environmental Protection Authority
under delegated authority

Approval date: 10 Dec 2019



Figure 9 – Development Envelope