

**EL 32 / 2001
SCOTIA
NORTH EAST TASMANIA**

ANNUAL REPORT

FOR THE YEAR ENDING

19TH APRIL 2007

VOLUME 2

APPENDICES

VAN DIEMAN MINES PTY LIMITED

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**VOLUME 2 - APPENDICES
TABLE OF CONTENTS**

	PAGE NO
11.0 APPENDICES	1 - 111
11.1 REPORT ON NATURAL VALUES OF SOIL STOCKPILE AT SCOTIA MINE LEASE.	1 - 3
11.2 GEOPHYSICAL SURVEY, GROUND PENETRATING RADAR ENDURANCE AND SCOTIA MINE SITES	4 - 38
11.3 GPR PROFILES SCOTIA	39 - 111
a. PROFILES 1, WAYPOINTS 034 TO 036, 11 SHEETS	39 - 52
b. PROFILES 2, WAYPOINTS 039 TO 040, 13 SHEETS	53 - 66
c. PROFILES 3, WAYPOINTS 042 TO 044, 9 SHEETS	67 - 76
d. PROFILES 4, WAYPOINTS 047 TO 051, 8 SHEETS	77 - 85
e. PROFILES 5, WAYPOINTS 034 TO 036, 6 SHEETS	86 - 92
f. PROFILES 6, WAYPOINTS 039 TO 040, 7 SHEETS	93 - 100
g. PROFILES 7, WAYPOINTS 042 TO 044, 5 SHEETS	101 - 106
h. PROFILES 8, WAYPOINTS 047 TO 051, 4 SHEETS	107 - 111

11.1 REPORT ON NATURAL VALUES OF SOIL STOCKPILE AT SCOTIA MINE
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Report on natural values of soil stockpile at Scotia Mine Lease.

For

Van Dieman Mining Pty Ltd

August 2006.

An investigation of the natural values of a soil stockpile situated on Crown Land near the Ringarooma River was undertaken on the 25th July 2006. The stockpile was deposited at the site during a previous mining operation (up to 60 years ago) and since this time it has regenerated naturally with native vegetation. The plant species occurring on this stockpile were determined at the request of the proponent (following discussions with the Mineral Resources Tasmania). The stockpile is approximately 10m wide and 50-80m long reaching a maximum height of approximately 2m. It is proposed to process the stockpile at its present location to recover the mineral resource contained within it.

The vegetation occurring on the stockpile is classified as *Eucalyptus amygdalina* woodland and has the same structure as the surrounding vegetation. This vegetation community is considered to be well reserved on a state-wide basis.

The stockpile contains a number of mature *E. amygdalina* trees (generally 10-15m high) and isolated *E. viminalis* (white gum) trees. There are number of tall shrubs on the pile including *Leptospermum scoparium* (manuka), *Kunzea ambigua* (white kunzea), *Allocasuarina littoralis* (necklace sheoak) and *banksia marginata* (yellow banksia). Groundcover species present include *Lomandra longifolia* (sagg), *Pteridium esculentum* (bracken) and *Lepidosperma concavum* (sword sedge). A complete list of species occurring on the stockpile is provided in the Table 1.

No threatened species were recorded on the stockpile and given the small amount of vegetation to be disturbed it provides no significant fauna habitat.

The processing of the stockpile will require the removal of all the vegetation.

This will have no significant impact on the natural values of the areas as all species occurring on the stockpile are common and widespread in the area.

Table 1 – Species occurring on the soil stockpile.

Species name	Common name
<i>Acacia genistifolia</i>	Spreading wattle
<i>Acacia melanoxylon</i>	Blackwood
<i>Acacia terminalis</i>	Sunshine Wattle
<i>Acacia verticillata subsp. verticillata</i>	Prickly moses
<i>Allocasuarina littoralis</i>	Bulloak
<i>Banksia marginata</i>	Silver Banksia
<i>Carex sp</i>	
<i>Carex appressa</i>	
<i>Centrolepis fascicularis</i>	Tufted Centrolepis
<i>Eucalyptus amygdalina</i>	Black peppermint
<i>Eucalyptus viminalis subsp. viminalis</i>	Manna Gum
<i>Gnaphalium indutum</i>	Cudweed
<i>Hypochoeris radicata</i>	Cat's ear
<i>Juncus pallidus</i>	Pale Rush
<i>Juncus sp</i>	Rush
<i>Kunzea ambigua</i>	White Kunzea
<i>Lepidosperma concavum</i>	Hill Sword-sedge
<i>Leptospermum scoparium var. scoparium</i>	Broad-leaf Manuka
<i>Lomandra longifolia</i>	Sagg
<i>Plantago coronopus subsp. coronopus</i>	Buckhorn plantain
<i>Pteridium esculentum</i>	Bracken
<i>Pterostylis falcata</i>	Sickle greenhood
<i>Styphelia adscendens</i>	Golden Heath

11.2 GEOPHYSICAL SURVEY, GROUND PENETRATING RADAR ENDURANCE AND SCOTIA MINE SITES:

11.3 GPR PROFILES SCOTIA:

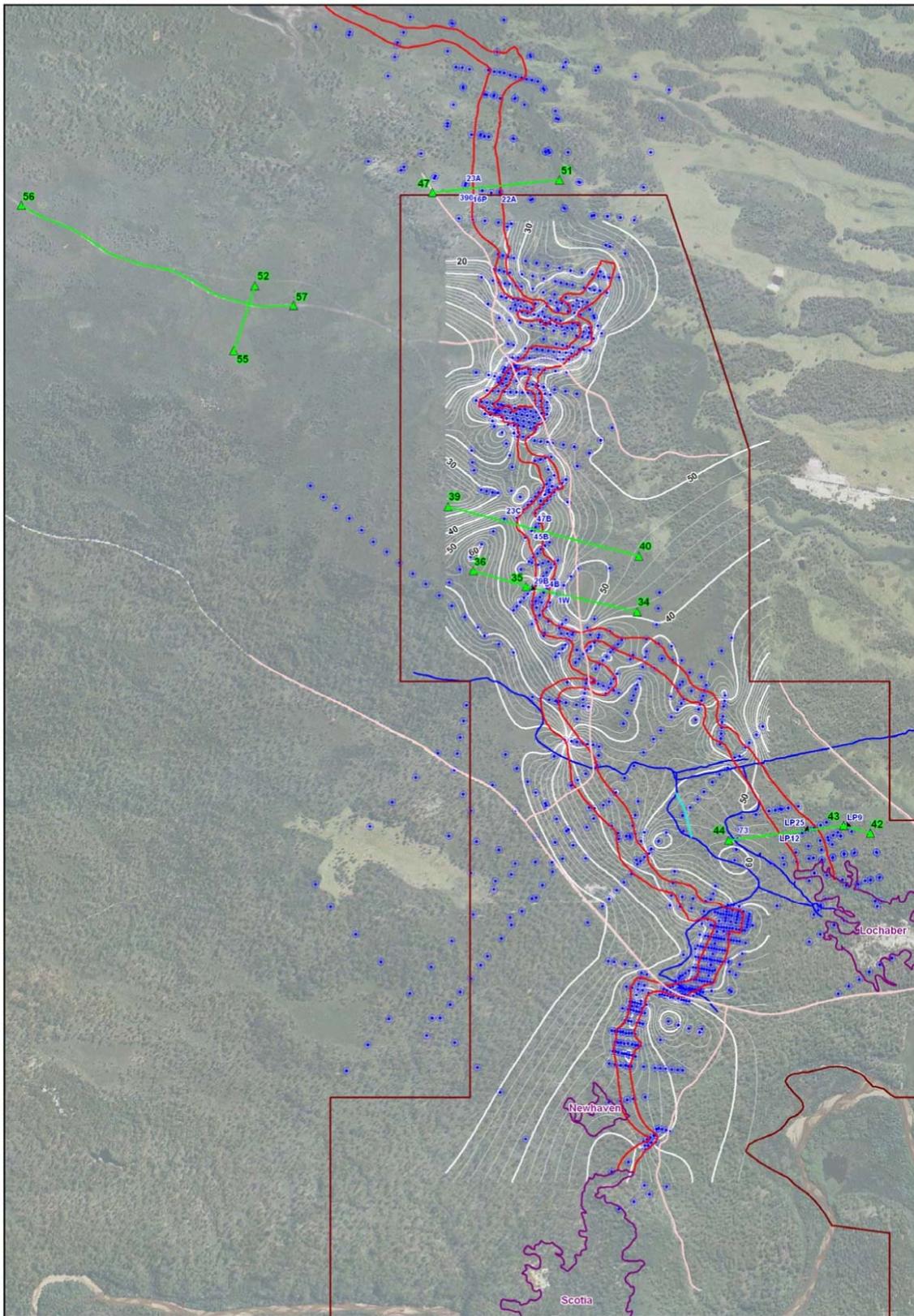
Note that the profiles start and finish points are GPS waypoints as set out on the accompanying Plan. Profiles included in this appendix include:

A. ANTENNA 25 MHz:

PROFILES 1	WAYPOINTS 034 TO 036	11 SHEETS
PROFILES 2	WAYPOINTS 039 TO 040	13 SHEETS
PROFILES 3	WAYPOINTS 042 TO 044	9 SHEETS
PROFILES 4	WAYPOINTS 047 TO 051	8 SHEETS

B. ANTENNA 100 MHz:

PROFILES 5	WAYPOINTS 034 TO 036	6 SHEETS
PROFILES 6	WAYPOINTS 039 TO 040	7 SHEETS
PROFILES 7	WAYPOINTS 042 TO 044	5 SHEETS
PROFILES 8	WAYPOINTS 047 TO 051	4 SHEETS



Scotia - Depth to Basement Contour Map with GPR test survey lines

VDMmap0608-020

PROFILES 1

WAYPOINTS 034 TO 036

11 SHEETS

PROFILES 2

WAYPOINTS 039 TO 040

13 SHEETS

PROFILES 3

WAYPOINTS 042 TO 044

9 SHEETS

PROFILES 4

WAYPOINTS 047 TO 051

8 SHEETS

PROFILES 5

WAYPOINTS 034 TO 036

6 SHEETS

PROFILES 6

WAYPOINTS 039 TO 040

7 SHEETS

PROFILES 7

WAYPOINTS 042 TO 044

5 SHEETS

PROFILES 8

WAYPOINTS 047 TO 051

4 SHEETS