

# Development Consent

## Section 89E of the *Environmental Planning and Assessment Act 1979*

As delegate of the Minister for Planning, the Planning Assessment Commission of New South Wales (the Commission) approves the development application referred to in Schedule 1, subject to the conditions in Schedules 2 to 6.

These conditions are required to:

- prevent, minimise, and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the development.

**Member of the Commission**

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Sydney

2015

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### SCHEDULE 1

**Application Number:**

SSD-5144

**Applicant:**

Centennial Mandalong Pty Limited

**Consent Authority:**

Minister for Planning

**Land:**

See Appendix 1

**Development:**

Mandalong Southern Extension Project

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Blue Type represents June 2016 modification

Orange Type represents September 2016 modification

## DEFINITIONS

Adaptive management	Adaptive management includes monitoring subsidence effects and impacts and, based on the results, modifying the mine plan (including potentially modifying mining height, longwall width or any other element of the mine plan) as mining proceeds to ensure that the effects, impacts and/or associated environmental consequences remain within the predicted and/or designated ranges and in compliance with the conditions of this consent
Annual review	The review of operations required by Condition 12 of Schedule 6
Approved mine plan	The approved mine plan for the development, as shown in Figure 2 of Appendix 2
Applicant	Centennial Mandalong Pty Limited, or any other person or persons who rely on this consent to carry out the development that is subject to this consent
ARI	Average recurrence interval
BCA	Building Code of Australia
Built features	Includes any building or work erected or constructed on land, including dwellings, outbuildings and infrastructure such as any formed road, street, path, walk, or driveway and any pipeline, water, sewer, telephone, gas or other service main
CCC	Community Consultative Committee
CES	Cooranbong Entry Site, as shown in Figure 6 of Appendix 2
Conditions of this consent	Conditions contained in Schedules 2 to 6 inclusive
Construction activities	Construction activities at the MSSS, <a href="#">TL24 relocation area</a> , MMAS and the expansion of the Borehole Dam at the CES as described in the EIS, together with the construction of gas engines as described in EA (MOD 4)
CPI	Consumer Price Index, as published by the Australian Bureau of Statistics
Day	The period from 7.00 am to 6.00 pm on Monday to Saturday, and 8.00 am to 6.00 pm on Sundays and Public Holidays
Department	Department of Planning and Environment
DES	Delta Entry Site
Development	The development described in the EIS and EA MOD 4
<a href="#">DPI Fisheries</a>	<a href="#">Department of Primary Industries - Fisheries</a>
<a href="#">DPI Water</a>	<a href="#">Department of Primary Industries - Water</a>
<a href="#">DRE</a>	<a href="#">Division of Resources and Energy, within the NSW Department of Industry</a>
EA (MOD 4)	The modification application DA 97/800 - MOD 4 and accompanying Environmental Assessment entitled <i>Mandalong Mine Modification to Development Consent Environmental Assessment</i> , dated September 2008
EIS	Environmental Impact Statement titled <i>Mandalong Southern Extension Project Environmental Impact Statement</i> , dated September 2013; associated response to issues raised in submissions, titled <i>Mandalong Southern Extension Project Response to Submissions</i> , dated March 2014; and additional information regarding residual concerns, titled <i>Mandalong Southern Extension Project Response to RTS submissions</i> , dated July 2014
Environmental consequences	The environmental consequences of subsidence impacts, including: damage to built features; loss of surface water flows to the subsurface; loss of standing pools; slope changes to streams; adverse water quality impacts; development of iron bacterial mats; rock falls; landslides; damage to Aboriginal heritage sites; impacts on aquatic ecology; and ponding.
EPA	Environment Protection Authority
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
EPL	Environment Protection Licence issued under the POEO Act
Evening	The period from 6.00 pm to 10.00 pm
Exploration activities	Prospecting operations, as defined under the <i>Mining Act 1992</i>
Feasible	Feasible relates to engineering considerations and what is practical to build or to implement
First workings	Development of main headings, longwall gate roads, related cut throughs and the like
Ha	Hectare
Heritage item	An item as defined under the <i>Heritage Act 1977</i> and/or an Aboriginal object or Aboriginal place as defined under the <i>National Parks and Wildlife Act 1974</i>
HLLS	Hunter Local Land Services
Incident	A set of circumstances that: <ul style="list-style-type: none"> <li>causes or threatens to cause material harm to the environment; and/or</li> <li>breaches or exceeds the limits or performance measures/criteria in this consent</li> </ul>

Land	As defined in the EP&A Act, except for where the term is used in the noise and air quality conditions in Schedules 3 and 5 of this consent where it is defined to mean the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this consent
LMCC	Lake Macquarie City Council
Mandalong Coal Delivery System	The underground conveyor which delivers coal from the project's underground workings to the Wyee Coal Unloader, as regulated under DA 35-4-2004
Material harm to the environment	Actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial
Mining operations	Includes the extraction, processing, handling, storage and transportation of coal carried out on the site
Minister	Minister for Planning, or delegate
Minor	Not very large, important or serious
Mitigation	Activities associated with reducing the impacts of the development prior to or during those impacts occurring
MMAS	Mandalong Mine Access Site, as shown in Figure 4 of Appendix 2
MSB	Mine Subsidence Board
MSSS	Mandalong South Surface Site, as shown in Figure 5 of Appendix 2
Negligible	Small and unimportant, such as to be not worth considering
Night	The period from 10pm to 7am on Monday to Saturday, and 10.00 pm to 8.00 am on Sundays and Public Holidays
OEH	Office of Environment and Heritage
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Privately-owned land	Land that is not owned by a public agency, or a mining company (or its subsidiary)
Public infrastructure	Linear and related infrastructure and the like that provides services to the general public, such as roads, railways, water supply, drainage, sewerage, gas supply, electricity, telephone, telecommunications, etc
Reasonable	Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential improvements
Reasonable Costs	The costs agreed between the Department and the Applicant for obtaining independent experts to review the adequacy of any aspects of an Extraction Plan
Registered Aboriginal Parties	Aboriginal community stakeholders listed in Table 1 of Appendix 6
Rehabilitation	The restoration of land disturbed by the development to a good condition to ensure it is safe, stable and non-polluting
Remediation	Activities associated with partially or fully repairing or rehabilitating the impacts of the development or controlling the environmental consequences of this impact
ROM coal	Run-of-mine coal
Safe, serviceable & repairable	Safe means no danger to users who are present, serviceable means available for its intended use, and repairable means damaged components can be repaired economically
Second workings	Extraction of coal from longwall panels, mini-wall panels or pillar extraction
Secretary	The Secretary of the Department, or nominee
SEE (Mod 1)	<a href="#">Statement of Environmental Effects titled, 'Mandalong Mine Transmission Line TL24 Relocation Project' dated March 2016 and prepared by Centennial Coal Company Limited, and the Response to Submissions document dated May 2016</a>
SEE (Mod 2)	<a href="#">Statement of Environmental Effects titled 'Mandalong Mine Longwall 22 &amp; 23 First Workings Modification' dated August 2016 and prepared by Centennial Coal Company Limited</a>
Site	All land to which the development application applies, including the longwall mining domains and the surface facilities sites, as listed in Appendix 1 and shown in Appendix 2
Statement of commitments	The Applicant's commitments, as set out in the EIS, and shown in Appendix 8
Steep slopes	An area of land having a gradient greater than 1 in 3 (33% or 18.3°)
Subsidence	The totality of subsidence effects, subsidence impacts and environmental consequences of subsidence impacts
Subsidence effects	Deformation of the ground mass due to mining, including all mining-induced ground movements, such as vertical and horizontal displacement, tilt, strain and curvature
Subsidence impacts	Physical changes to the ground and its surface caused by subsidence effects, including tensile and shear cracking of the rock mass, localised buckling of strata caused by valley closure, upsidence and surface depressions or troughs

Surface facilities sites

TL24 relocation area

The MMAS, the CES and the MSSS, as shown in the relevant Figures in Appendix 2

Transmission Line 24, as shown in Figure 7 of Appendix 2

## SCHEDULE 2 ADMINISTRATIVE CONDITIONS

### OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

1. In addition to meeting the specific performance measures and criteria established under this consent, [the Applicant must](#) implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the development.

### TERMS OF CONSENT

2. [The Applicant must](#) carry out the development:
  - (a) generally in accordance with the EA (MOD 4);
  - (b) generally in accordance with the EIS, SEE (Mod 1) and SEE (Mod 2);
  - (c) generally in accordance with the Development Layout;
  - (d) in accordance with the Statement of Commitments; and
  - (e) in accordance with the conditions of this consent.

*Note: The Development Layout is shown in Appendix 2.*

3. If there is any inconsistency between the [documents identified in condition 2\(a\) and \(b\)](#), the more recent document shall prevail to the extent of the inconsistency. [The conditions of this consent shall prevail to the extent of any inconsistency with the documents identified in condition 2\(a\) and \(b\) or the Statement of Commitments.](#)
4. [The Applicant must comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of:](#)
  - (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent (including any stages of these documents);
  - (b) any reviews, reports or audits commissioned by the Department regarding compliance with this consent; and
  - (c) the implementation of any actions or measures contained in these documents.

### LIMITS ON CONSENT

#### Mining Operations

5. The Applicant may carry out mining operations on the site until 31 December 2040.

*Note: Under this consent, the Applicant is required to rehabilitate the site and perform additional undertakings to the satisfaction of either the Secretary or DRE. Consequently this consent will continue to apply in all other respects other than the right to conduct mining operations until the rehabilitation of the site and these additional undertakings have been carried out satisfactorily.*

6. The Applicant may only carry out [second workings](#) within the area covered by the approved mine plan.

#### Coal Extraction and Delivery

7. In any calendar year, [the Applicant must](#) not:
  - (a) extract more than 6 million tonnes of ROM coal from the site;
  - (b) deliver more than 6 million tonnes of ROM coal to the CES; and/or
  - (c) deliver more than 6 million tonnes of ROM coal to the Mandalong Coal Delivery System.

#### Hours of Operation

8. [The Applicant must](#) comply with the operating hours in Table 1.

**Table 1: Operating hours**

Activity	Operating Hours
Mining operations, maintenance activities and shaft construction	24 hours a day, 7 days per week
Construction activities (except shaft construction)	7.00 am to 6.00 pm on Monday to Friday, and 8.00 am to 1.00 pm on Saturday, with no construction activities on Sunday or on public holidays, except where carried out underground

*Note: This condition does not apply in the event of a direction from police or other relevant authority for safety or emergency reasons regarding works which may need to be undertaken to avoid loss of life, property loss and/or to prevent environmental harm.*

## **STRUCTURAL ADEQUACY**

9. **The Applicant must** ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures that are part of the development, are constructed in accordance with:
- (a) the relevant requirements of the BCA; and
  - (b) any additional requirements of the MSB, where the building or structure is located on land within a declared Mine Subsidence District.

*Notes:*

- *Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works.*
- *Part 8 of the EP&A Regulation sets out the requirements for the certification of the development.*
- *Under Section 15 of the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the MSB's approval before subdivision or constructing any improvements in a Mine Subsidence District.*

## **DEMOLITION**

10. **The Applicant must** ensure that all demolition work is carried out in accordance with *Australian Standard AS 2601-2001: The Demolition of Structures*, or its latest version.

## **OPERATION OF PLANT AND EQUIPMENT**

11. **The Applicant must** ensure that all plant and equipment used at the site is:
- (a) maintained in a proper and efficient condition; and
  - (b) operated in a proper and efficient manner.

## **COMMENCEMENT OF DEVELOPMENT UNDER THIS CONSENT**

12. **The Applicant:**
- (a) **must** notify the Secretary in writing of the proposed date of commencement of development under this consent; and
  - (b) may only commence development under this consent once the Secretary has agreed in writing that all prerequisites to the commencement of that development have been met.

## **SURRENDER OF EXISTING DEVELOPMENT CONSENT**

13. By 30 April 2017, or as otherwise agreed by the Secretary, **the Applicant must** surrender the development consent DA 97/800 in accordance with Section 104A of the EP&A Act.

*Note: This requirement does not extend to the surrender of construction and occupation certificates for existing and proposed building works under Part 4A of the EP&A Act. Surrender of a consent or approval should not be understood as implying that works legally constructed under a valid consent or approval can no longer be legally maintained or used.*

## SCHEDULE 3 ENVIRONMENTAL CONDITIONS – GENERAL

### NOISE

#### Construction Noise

1. **The Applicant must** ensure that the noise generated by construction activities (excluding shaft construction) is managed in accordance with the requirements of the *Interim Construction Noise Guideline* (DECC, 2009), as may be updated from time to time.

#### Operational Noise Criteria

2. **The Applicant must** ensure that the operational noise generated by the development (including maintenance activities, shaft construction and exploration drilling) does not exceed the criteria in Table 2 at any residence on privately-owned land.

**Table 2: Operational Noise Criteria**

Receiver	Noise Limit (dB(A))			
	Day ( $L_{Aeq}(15\ min)$ )	Evening ( $L_{Aeq}(15\ min)$ )	Night ( $L_{Aeq}(15\ min)$ )	Night ( $L_{A1}(1\ min)$ )
R2	40	40	40	52
R3	42	42	42	52
R4	39	39	39	52
R5	41	41	41	61
R6	40	40	40	61
R7 & R8	43	43	43	61
R9	42	42	42	61
R10	39	39	39	61
All other residences on privately-owned land	35	35	35	45

*Note: The receiver locations in Table 2 are shown in Figure 1 of Appendix 4.*

Noise generated by the development is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the *NSW Industrial Noise Policy*. Appendix 3 sets out the meteorological conditions under which these criteria apply, and the requirements for evaluating compliance with these criteria.

However, these criteria do not apply if the Applicant has an agreement with the relevant landowner to exceed the noise criteria in Table 2, and the Applicant has advised the Department in writing of the terms of this agreement.

#### Operating Conditions

3. **The Applicant must:**
  - (a) implement best management practice to minimise the construction, operational and road noise of the development;
  - (b) use its best endeavours to facilitate the connection to, and use of, a permanent electricity source to undertake ventilation shaft sinking activities at the MSSS;
  - (c) operate an on-site noise management system that uses a combination of predictions, forecasting, and attended and unattended monitoring of all noise associated with the development, to ensure compliance with the relevant conditions of this consent, including noise during construction and operations;
  - (d) minimise the noise impacts of the development during meteorological conditions under which the noise limits in this consent do not apply (see Appendix 3); and
  - (e) regularly assess noise monitoring data to determine whether the development is complying with the relevant conditions of consent,
to the satisfaction of the Secretary.

#### Noise Management Plan

4. **The Applicant must** prepare a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must:
  - (a) be prepared in consultation with the EPA, by suitably qualified and experienced persons whose appointment has been approved by the Secretary;



- (b) be submitted to the Secretary for approval prior to the commencement of construction of the MSSS, or by 31 March 2016, whichever is sooner;
- (c) describe the measures that would be implemented to ensure compliance with the noise criteria and operating conditions of this consent, including management of out-of-hours noise associated with shaft construction;
- (d) describe the proposed noise management system in detail;
- (e) include a monitoring program that evaluates and reports on:
  - the effectiveness of the noise management system;
  - compliance against the noise criteria in this consent; and
  - compliance against the noise operating conditions in condition 3 above;
- (f) defines what constitutes a noise incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any noise incidents; and
- (g) outlines procedures to manage responses to any complaints or issues raised by the owners of affected residences.

The Applicant must implement the approved management plan as approved from time to time by the Secretary.

## BLASTING

### Blasting Restriction

- 5. The Applicant must carry out blasting on the surface of the site only between 9.00 am and 5.00 pm Monday to Saturday inclusive. No blasting is allowed on Sundays, Public Holidays, or at any other time, without the written approval of the Secretary.

### Operating Conditions

- 6. The Applicant must implement best blasting management practice to:
  - (a) protect the safety of people in the surrounding area;
  - (b) protect public infrastructure and private property in the surrounding area from any damage; and
  - (c) minimise the dust and fume emissions of any blasting, to the satisfaction of the Secretary.

## AIR QUALITY & GREENHOUSE GAS

### Odour

- 7. The Applicant must ensure that no offensive odours are emitted from the site, as defined under the POEO Act.

### Air Quality Criteria

- 8. The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that the particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 3 at any residence on privately-owned land.

Table 3: Air quality criteria

Pollutant	Averaging Period	Criterion
Particulate matter < 10 µm (PM <sub>10</sub> )	Annual	a,d 30 µg/m <sup>3</sup>
Particulate matter < 10 µm (PM <sub>10</sub> )	24 hour	b 50 µg/m <sup>3</sup>
Total suspended particulates (TSP)	Annual	a,d 90 µg/m <sup>3</sup>
<sup>c</sup> Deposited dust	Annual	<sup>b</sup> 2 g/m <sup>2</sup> /month      a,d 4 g/m <sup>2</sup> /month

Notes to Table 3:

a Cumulative impact (ie increase in concentrations due to the development plus background concentrations due to all other sources).

b Incremental impact (ie increase in concentrations due to the development alone, with zero allowable exceedances of the criteria over the life of the development).

c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.

d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Secretary.

e “Reasonable and feasible avoidance and mitigation measures” includes, but is not limited to, the operational requirements in conditions 9 and 10 to develop and implement an air quality management system that ensures operational responses to the risks of exceedance of the criteria.

## Operating Conditions

9. **The Applicant must:**
- (a) implement best practice air quality management at the site to minimise the
    - off-site odour, fume and dust emissions of the development; and
    - release of greenhouse gas emissions from the development;
  - (b) minimise any visible off-site air pollution generated by the development;
  - (c) minimise the surface disturbance of the site;
  - (d) operate a comprehensive air quality management system to ensure compliance with the relevant conditions of this consent;
  - (e) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note *d* to Table 3), to the satisfaction of the Secretary.

## Air Quality & Greenhouse Gas Management Plan

10. **The Applicant must** prepare an Air Quality & Greenhouse Gas Management Plan for the development, to the satisfaction of the Secretary. This plan must:
- (a) be prepared in consultation with EPA, by suitably qualified and experienced persons whose appointment has been approved by the Secretary;
  - (b) be submitted to the Secretary for approval prior to the commencement of construction of the MSSS, or by 31 March 2016, whichever is sooner;
  - (c) describe the measures that would be implemented to ensure compliance with the relevant air quality criteria and operating conditions of this consent;
  - (d) describe the on-site air quality management system; and
  - (e) include an air quality monitoring program that:
    - adequately supports the air quality management system;
    - evaluates and reports on:
      - compliance with the air quality criteria;
      - the effectiveness of the air quality management system; and
      - compliance against the air quality operating conditions in condition 9 above; and
    - defines what constitutes an air quality incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any air quality incidents.

**The Applicant must implement the approved management plan as approved from time to time by the Secretary.**

## METEOROLOGICAL MONITORING

11. During the life of the development, **the Applicant must** ensure that there is a suitable meteorological station operating in the vicinity of the site that:
- (a) complies with the requirements in the *Approved Methods for Sampling of Air Pollutants in New South Wales* guideline; and
  - (b) is capable of continuous real-time measurement of temperature lapse rate in accordance with the *NSW Industrial Noise Policy*.

## WATER

### Water Supply

12. **The Applicant must** ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of mining operations to match its available water supply.

*Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain the necessary water licences for the development.*

### Water Pollution

13. Unless an EPL authorises otherwise, **the Applicant must** comply with Section 120 of the POEO Act.
14. **The Applicant must** implement all reasonable and feasible measures to reduce water pollution associated with the discharge of mine-water (particularly salinity and dissolved or suspended metals associated with groundwater pumped from underground mine workings) required to comply with any EPL applying to the development.

## Mine-Water Discharges Management Plan

15. The Applicant must prepare a Mine-Water Discharges Management Plan for the development to the satisfaction of the Secretary. This plan must:
- be prepared by suitably qualified and experienced persons whose appointment has been approved by the Secretary;
  - be submitted to the Secretary for approval by 30 June 2016 unless otherwise agreed by the Secretary;
  - describe the measures that would be implemented to ensure compliance with conditions 13 and 14 and relevant performance measures in Table 4;
  - include targets, developed in co-operation with the EPA, to reduce acute and chronic toxicity from mine-water discharges from the CES to achieve the in-stream water quality and aquatic ecology objectives and criteria required by condition 16 below;
  - include measures, developed in co-operation with the EPA to be implemented over 2-year, 10-year and life-of-project timeframes to reduce the salinity and metals toxicity in mine-water discharged from the CES to achieve these targets; and
  - take into account relevant requirements of the Water Management Plan required by condition 17 below.

The Applicant must implement the approved management plan as approved from time to time by the Secretary.

## Water Management Performance Measures

16. The Applicant must comply with the performance measures in Table 4, to the satisfaction of the Secretary.

**Table 4: Water Management Performance Measures**

Feature	Performance Measure
Potable Water	<ul style="list-style-type: none"> <li>Minimise the use of potable water from the public supply for purposes where non-potable water is acceptable.</li> </ul>
MMAS MSSS	<ul style="list-style-type: none"> <li>Design, install and maintain erosion and sediment controls generally in accordance with the series <i>Managing Urban Stormwater: Soils and Construction</i> including <i>Volume 1</i>, <i>Volume 2A – Installation of Services</i> and <i>Volume 2C – Unsealed Roads</i>.</li> <li>Design, install and maintain any infrastructure within 40 m of watercourses generally in accordance with the <i>Guidelines for Controlled Activities on Waterfront Land</i> (DPI 2007), or the latest version.</li> <li>Design, install and maintain creek crossings generally in accordance with the <i>Policy and Guidelines for Fish Friendly Waterway Crossings</i> (DPI Fisheries 2003) and <i>Why Do Fish Need To Cross The Road? Fish Passage Requirements for Waterway Crossings</i> (DPI Fisheries 2003), or the latest versions.</li> </ul>
Sediment Dams	<ul style="list-style-type: none"> <li>Maintain dams generally in accordance with the series <i>Managing Urban Stormwater: Soils and Construction – Volume 1</i> and <i>Volume 2E Mines and Quarries</i>.</li> </ul>
Clean water diversions	<ul style="list-style-type: none"> <li>Design, install and maintain new clean water diversion structures to convey the 100 year ARI flood.</li> <li>Maximise as far as reasonable and feasible the diversion of clean water around disturbed areas on site.</li> </ul>
Mine water storages	<ul style="list-style-type: none"> <li>Design, install and maintain mine water storage infrastructure to ensure no unlicensed or uncontrolled discharge of mine water off-site.</li> </ul>
Aquatic and riparian ecosystems (including affected sections of LT, Stony and Lords Creeks, unnamed watercourses receiving discharges from Hawkmount Quarry and CES, Muddy Creek and Muddy Lake)	<ul style="list-style-type: none"> <li>Maintain or improve baseline channel stability</li> <li>Develop site-specific in-stream water quality and aquatic ecology (macroinvertebrate health and ecotoxicity assessment) objectives and criteria in consultation with the EPA and in accordance with any EPL applying to the CES.</li> </ul>
Chemical and hydrocarbon storage	<ul style="list-style-type: none"> <li>Chemical and hydrocarbon products to be stored in bunded areas in accordance with the relevant Australian Standards.</li> </ul>

## Water Management Plan

17. The Applicant must prepare a Water Management Plan for the development to the satisfaction of the Secretary. This plan must:

- (a) be prepared in consultation with [DPI Water](#) and the EPA, by suitably qualified and experienced persons whose appointment has been approved by the Secretary;
- (b) be submitted to the Secretary for approval prior to commencement of construction of the MSSS, or by 31 March 2016, whichever is sooner;
- (c) include detailed performance criteria and describes measures to ensure that the Applicant complies with the Water Management Performance Measures in Table 4;
- (d) include the following, in addition to the standard requirements for management plans (see condition 2 of Schedule 6):
  - (i) a Site Water Balance, that includes details of:
    - water use and management on site;
    - any off-site water discharges; and
    - reporting procedures, including the preparation of a site water balance for each calendar year of the development; and
    - investigates and implements all reasonable and feasible measures to minimise potable water use and to recycle water;
  - (ii) a Surface Water Management Plan, that includes:
    - detailed baseline data on water flows and quality in the watercourses that could be affected by the development;
    - a detailed description of the development's water management systems, including the:
      - clean water diversion systems;
      - erosion and sediment controls; and
      - minewater management systems;
    - detailed performance criteria, including trigger levels, for investigating any potentially adverse impacts associated with:
      - the water management systems;
      - downstream surface water quality;
      - downstream watercourse channel stability, particularly for the Fassifern Archery Club section of LT Creek;
      - stream and riparian vegetation health; and
      - downstream flooding impacts;
    - a program to monitor and report on:
      - the effectiveness of the water management systems;
      - surface water flows and water quality, and the condition of stream and riparian vegetation in the watercourses on site and downstream of the site;
      - macroinvertebrate health and ecotoxicity parameters downstream of mine-water discharges; and
      - downstream flooding impacts;
    - reporting procedures for the results of the monitoring program; and
    - a plan to respond to any exceedances of the performance criteria, and mitigate any adverse surface water impacts of the development.

[The Applicant must implement the approved management plan as approved from time to time by the Secretary.](#)

## BIODIVERSITY

### Land Management Strategy

18. By 3 December 2016, [the Applicant must](#) finalise and implement a Land Management Strategy, to compensate for the clearing of 15.6 hectares of *Coastal Foothills Spotted Gum – Ironbark Forest*. The Land Management Strategy must:
  - (a) be finalised in consultation with OEH;
  - (b) define conservation areas, habitat restoration areas and riparian protection areas within the parcels of land shown in red outline in [Figures 1 and 2](#) of Appendix 7;
  - (c) make arrangements to manage, protect and provide long-term security for the Land Management Strategy areas;
 to the satisfaction of the Secretary.

### Biodiversity Management Plan

19. [The Applicant must](#) prepare a Biodiversity Management Plan for the development to the satisfaction of the Secretary. This plan must:
  - (a) be prepared in consultation with OEH and HLLS, and submitted to the Secretary for approval by 31 December 2016;
  - (b) describe the short-term, medium-term, and long-term measures that would be implemented to:
    - manage remnant vegetation and habitat at the surface facilities sites; and
    - implement the Land Management Strategy;

- (c) include detailed performance and completion criteria for the Land Management Strategy;
- (d) include a detailed description of the measures that would be implemented over the next 3 years (to be updated for each 3-year period following initial preparation of the plan) to:
  - enhance the quality of existing vegetation and fauna habitat;
  - minimise the impacts to fauna, including undertaking pre-clearance surveys;
  - replace cleared hollow-bearing trees with appropriate nest boxes at a ratio of at least 2:1;
  - manage salinity;
  - control erosion, weeds, feral pests and unauthorised access; and
  - manage bushfire risk; and
- (e) include a program to monitor and report on these measures, and progress against the performance and completion criteria.

The Applicant must implement the approved management plan as approved from time to time by the Secretary.

## Conservation Bond

20. Within 6 months of the approval of the Biodiversity Management Plan, unless the Secretary agrees otherwise, the Applicant must lodge a Conservation Bond with the Department, to ensure that the Land Management Strategy is implemented in accordance with the performance and completion criteria of the Biodiversity Management Plan.

The sum of the bond must be determined by:

- (a) calculating the full cost of implementing the Land Management Strategy (other than land acquisition costs); and
- (b) employing a suitably qualified quantity surveyor to verify the calculated costs.

The Secretary will release the bond if the Land Management Strategy is completed generally in accordance with the completion criteria in the Biodiversity Management Plan. If the Land Management Strategy is not completed generally in accordance with the completion criteria in the Biodiversity Management Plan, the Secretary will call in all, or part of, the Conservation Bond, and arrange for the satisfactory completion of the relevant works.

Notes:

- Alternative funding arrangements for long-term management of the Land Management Strategy, such as provision of capital and management funding as agreed by OEH as part of a Biobanking Agreement, or transfer to the conservation reserve estate can be used to reduce the liability of the Conservation Bond.
- The sum of the bond may be reviewed in conjunction with any revision to the Biodiversity Management Plan.

## HERITAGE

### Archaeological Surveys

21. The Applicant must:
- (a) engage a suitably qualified archaeologist, whose appointment has been approved by the Secretary, to undertake sub-surface archaeological testing in areas A, B and C within the MSSS as shown on Figure 2 of Appendix 6;
  - (b) undertake the surveys prior to the commencement of construction of the MSSS, in consultation with OEH and Registered Aboriginal Parties;
  - (c) provide the results of these surveys to the Department, OEH and the Registered Aboriginal Parties;
  - (d) analyse the significance of any heritage sites/items identified during the surveys; and
  - (e) detail appropriate measures to avoid, minimise and/or mitigate impacts to these sites/items in the Heritage Management Plan required under condition 22 below for surface disturbance impacts, and under condition 6(l) of Schedule 4 for subsidence impacts, to the satisfaction of the Secretary.

### Heritage Management Plan

22. The Applicant must prepare a Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:
- (a) be prepared in consultation with OEH and Registered Aboriginal Parties;
  - (b) be submitted to the Secretary for approval, prior to commencement of construction of the MSSS, or by 31 March 2016, whichever is sooner; and
  - (c) include:
    - a description of the measures that would be implemented to:
      - protect, monitor and/or manage Aboriginal Cultural Heritage sites/items (including any proposed archaeological investigations and/or salvage measures);
      - manage the discovery of previously unidentified Aboriginal items;

- maintaining and managing reasonable access for Aboriginal stakeholders to heritage items on the Applicant's land;
- ongoing consultation with Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage;
- a short-term and long-term strategy for the storage of any Aboriginal Cultural Heritage items salvaged on site; and
- a protocol for the management of impacts to Historic Heritage sites/items, including archival recording where impacts to Historic Heritage sites/items cannot be avoided.

The Applicant must implement the approved management plan as approved from time to time by the Secretary.

*Note: This plan can be incorporated with any Heritage Management Plan for Centennial's other mines and/or mine infrastructure on the Central Coast/Lake Macquarie areas.*

## TRAFFIC AND TRANSPORT

### Mandalong South Surface Site

23. The Applicant must, at its own cost, prior to construction of the MSSS access road:
  - (a) construct, a BAR/CHL intersection off Mandalong Road to provide safe access to the MSSS, in accordance with *Guide to Road Design* (Austroads 2009); and
  - (b) install appropriate advance warning signs on both approaches to the intersection, to the satisfaction of LMCC.
24. The Applicant must design and construct the MSSS access road to:
  - (a) avoid impacting *Melaleuca Biconvexa* trees; and
  - (b) not cause greater than minor increases to existing flood impacts at properties adjoining the access road.
25. Prior to the commencement of construction of the MSSS, and again within 3 months of the completion of construction, the Applicant must commission a suitably qualified independent expert, whose appointment has been approved by the Secretary, to undertake a pavement condition report for the section of Mandalong Road that will be used by construction traffic associated with the project. This report must:
  - (a) be submitted to the Secretary for approval;
  - (b) include a review of the pavement condition of the road identifying any deficiencies;
  - (c) recommend appropriate pavement repairs taking into consideration the axle loads and quantity of construction traffic associated with the project; and
  - (d) ensure the recommended repairs are in accordance with the *Guide to Road Design* (Austroads).
26. Within 3 months of the submission of the pavement condition reports required under condition 25, unless otherwise agreed or required by the Secretary, the Applicant must, in consultation with Council, and to the satisfaction of the Secretary, repair damaged sections of Mandalong Road in accordance with the recommendations of the pavement condition reports.

### Construction Traffic Management Plan

27. The Applicant must prepare a Construction Traffic Management Plan for the construction of the MSSS, to the satisfaction of the Secretary. This plan must:
  - (a) be prepared in consultation with LMCC and any Mandalong residents likely to be affected by construction traffic;
  - (b) be approved by the Secretary prior to the commencement of construction of the MSSS; and
  - (c) include a drivers' code of conduct for the construction of the MSSS;
  - (d) detail the measures that would be applied to:
    - limit the noise and dust impacts of construction traffic;
    - monitor and repair any damage to the section of Mandalong Road that will be used by construction traffic associated with the project; and
    - avoid and/or limit potential road safety and amenity conflicts between construction traffic and other road users (including pedestrians, cyclists and horseriders) on Mandalong Road, including:
      - hours during which heavy vehicle movements will be avoided (including during school bus hours) and/or minimised; and
      - other measures (such as voluntary speed limits, avoidance of convoying, separation distances, and driver safety signage) to avoid and/or limit such impacts.

The Applicant must implement the approved management plan as approved from time to time by the Secretary.



## VISUAL

### Visual Amenity and Lighting

28. **The Applicant must:**
- implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development;
  - take all practicable measures to further reduce visual impacts from the development, including:
    - screen planting along Mandalong Road on the approaches to the MSSS (insofar as this does not affect sightlines for traffic using the MSSS intersection);
    - other appropriate visual impact mitigation measures for residences with direct views of the MSSS (such as landscaping treatments or vegetation screens); and
  - ensure that all external lighting associated with the development complies with *Australian Standard AS4282 (INT) 1995 - Control of Obtrusive Effects of Outdoor Lighting*; and
  - take all practical measures to shield views of mining operations from users of public roads and privately-owned residences, to the satisfaction of the Secretary.

## WASTE

29. **The Applicant must**
- minimise and monitor the waste generated by the development;
  - ensure that the waste generated by the development is appropriately stored, handled and disposed of;
  - manage on-site sewage treatment and disposal in accordance with the requirements of LMCC and EPA; and
  - report on waste management and minimisation in the Annual Review, to the satisfaction of the Secretary.

## BUSHFIRE MANAGEMENT

30. **The Applicant must:**
- ensure appropriate Asset Protection Zones are maintained at the surface facilities sites, to the satisfaction of LMCC;
  - ensure that the surface facilities sites are suitably equipped to respond to fires; and
  - assist the Rural Fire Service and emergency services as much as possible if there is a fire in the vicinity of the site.

## REHABILITATION

### Rehabilitation Objectives

31. **The Applicant must** rehabilitate the MMAS and MSSS to the satisfaction of DRE. This rehabilitation must be generally consistent with the proposed rehabilitation strategy described in the EIS, and comply with the objectives in Table 5.

**Table 5: Rehabilitation Objectives**

<b>Feature</b>	<b>Objective</b>
Mine site (as a whole)	<ul style="list-style-type: none"><li>Safe, stable &amp; non-polluting</li></ul>
Surface infrastructure	<ul style="list-style-type: none"><li>To be decommissioned and removed, unless DRE agrees otherwise.</li><li>MMAS and MSSS sites to be made safe, and hydraulically and geotechnically stable.</li><li>MMAS site to be appropriately prepared for industrial land-use where SP1 zoning applies, while ecological values to be maintained and enhanced where E2 zoning applies</li><li>MSSS site to be revegetated with suitable local native plant species, and to a landform consistent with the surrounding environment.</li></ul>
Revegetated final landforms	<ul style="list-style-type: none"><li>Stable and sustain the intended land use</li><li>Consistent with surrounding topography to minimise visual impacts</li><li>Incorporate relief patterns and design principles consistent with natural drainage</li></ul>
Native flora and fauna	<ul style="list-style-type: none"><li>Flora species used in rehabilitation selected to re-establish and complement local and regional biodiversity</li><li>Rehabilitated areas contribute to achieving self-sustaining biodiversity habitats</li></ul>

All watercourses subject to mine-water discharges and/or subsidence impacts	<ul style="list-style-type: none"> <li>Hydraulically and geomorphologically stable, with aquatic ecology and riparian vegetation that is the same, or better than prior to mining</li> </ul>
Steep slopes	<ul style="list-style-type: none"> <li>No additional risk to public safety compared to prior to mining</li> </ul>
Built features damaged by mining operations	<ul style="list-style-type: none"> <li>Repair to pre-mining condition or equivalent unless the: <ul style="list-style-type: none"> <li>owner agrees otherwise; or</li> <li>damage is fully restored, repaired or compensated for under the <i>Mine Subsidence Compensation Act 1961</i></li> </ul> </li> </ul>
Community	<ul style="list-style-type: none"> <li>Ensure public safety.</li> <li>Minimise the adverse socio-economic effects of mine closure.</li> </ul>

### Progressive Rehabilitation

32. **The Applicant must** rehabilitate the site progressively, that is, as soon as is practicable following disturbance, to the satisfaction of DRE.

### Rehabilitation Management Plan

33. **The Applicant must** prepare a Rehabilitation Management Plan for the development, to the satisfaction of the Secretary and DRE. This plan must:
- be prepared consultation with DRE, OEH, **DPI Water**, LMCC and the CCC;
  - be submitted to the Secretary and DRE for approval by 31 March 2016, or as otherwise agreed by the Secretary;
  - be prepared in accordance with relevant guidelines and consistent with the rehabilitation objectives in the EIS and in Table 5;
  - describe how the performance of the rehabilitation would be monitored and assessed against the objectives in Table 5;
  - provide for detailed mine closure planning, including measures to minimise socio-economic effects associated with mine closure, to be developed prior to the site being placed on care and maintenance; and
  - be integrated with the other management plans required under this consent.

**The Applicant must implement the approved management plan as approved from time to time by the Secretary.**

*Note: The Rehabilitation Management Plan must address all land impacted by the mine, whether prior to or following the date of this consent.*

## SURFACE INFRASTRUCTURE MANAGEMENT

### Gas Drainage

34. **The Applicant must** ensure that all gas drainage pipelines (other than connection points, monitoring points, dewatering facilities, regulation points or isolation points) between gas drainage plants are buried, unless otherwise agreed with the relevant landowner, or unless burial is inappropriate for safety or other reasons, to the satisfaction of the Secretary.

### Surface Infrastructure Management Plans

35. **The Applicant must** prepare a Gas Drainage Management Plan, a Service Boreholes Management Plan and a PED Communications Management Plan in respect of construction and use of future surface gas drainage and management infrastructure, future service boreholes and future PED communications infrastructure, respectively, to the satisfaction of the Secretary. Each of these plans must be submitted to the Secretary for approval prior to the construction of the relevant infrastructure and must include the Applicant's commitments regarding:
- community consultation;
  - landholder agreements;
  - assessment of noise, air quality, traffic, biodiversity, heritage, public safety and other impacts in accordance with approved methods;
  - avoidance of significant impacts and minimisation of impacts generally;
  - beneficial re-use or flaring of drained hydrocarbon gases, wherever practicable (in the case of the Gas Drainage Management Plan);
  - achievement of applicable standards and goals;
  - mitigation and/or compensation for significant noise, air quality and visual impacts; and
  - rehabilitation of disturbed sites.



The Applicant must implement the approved management plan as approved from time to time by the Secretary.

#### **Exploration Activities Management Plan**

36. The Applicant must prepare an Exploration Activities Management Plan for the development to the satisfaction of the Secretary. This Plan must:
- (a) be prepared by suitably qualified and experienced person/s whose appointment has been approved by the Secretary;
  - (b) be prepared in consultation with DRE;
  - (c) be submitted to the Secretary for approval within 6 months of the date of this consent or prior to carrying out exploration activities causing surface disturbance (whichever is the earlier), unless the Secretary agrees otherwise;
  - (d) include a description of the measures that would be implemented for:
    - managing exploration activities;
    - consulting with and compensating affected landowners;
    - avoiding threatened species, populations or their habitats and EECs;
    - minimising clearance and disturbance of native vegetation;
    - minimising erosion and sedimentation;
    - achieving applicable standards and goals; and
    - rehabilitating disturbed areas.

The Applicant must implement the approved management plan as approved from time to time by the Secretary.

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## SCHEDULE 4 ENVIRONMENTAL CONDITIONS – UNDERGROUND MINING

### SUBSIDENCE

#### Performance Measures – Natural and Heritage Features

1. The Applicant must ensure that the development complies with the performance measures in Table 6, to the satisfaction of the Secretary.

**Table 6: Subsidence Impact Performance Measures**

<b>Watercourses</b>	
3 <sup>rd</sup> Order and above streams Groundwater-dependent Ecosystems	<ul style="list-style-type: none"> <li>No connective cracking between the surface, or the base of the alluvium, and the underground workings.</li> <li>No subsidence impact or environmental consequence greater than minor.</li> </ul>
1 <sup>st</sup> and 2 <sup>nd</sup> Order streams	<ul style="list-style-type: none"> <li>No subsidence impact or environmental consequences greater than predicted in the EIS.</li> <li>No connective cracking between the surface and the underground workings.</li> </ul>
Aquatic and riparian ecosystems, including affected sections of Morans Creek, Wyee Creek and Mannering Creek	<ul style="list-style-type: none"> <li>Maintain or improve baseline channel stability.</li> <li>Develop site-specific in-stream water quality objectives in accordance with ANZECC 2000 and <i>Using the ANZECC Guidelines and Water Quality Objectives in NSW</i> procedures (DECC 2006), or their latest versions.</li> </ul>
<b>Land</b>	
Steep slopes and rock outcrops	<ul style="list-style-type: none"> <li>No subsidence impact or environmental consequence greater than predicted in the EIS.</li> </ul>
Agriculture	<ul style="list-style-type: none"> <li>No loss of agricultural productivity greater than minor.</li> </ul>
<b>Biodiversity</b>	
Threatened species, threatened populations and endangered ecological communities	<ul style="list-style-type: none"> <li>Negligible environmental consequences.</li> </ul>
<b>Heritage sites</b>	
Stone Arrangement RPS TBM 32	<ul style="list-style-type: none"> <li>Negligible subsidence impacts or environmental consequences</li> </ul>
All other Aboriginal Cultural Heritage sites/items at the site	<ul style="list-style-type: none"> <li>No subsidence impact or environmental consequence greater than predicted in the EIS.</li> </ul>
<b>Mine workings</b>	
First workings under an approved Extraction Plan beneath any feature where performance measures in this table require negligible subsidence impacts or negligible environmental consequences	<ul style="list-style-type: none"> <li>To remain long-term stable and non-subsiding.</li> </ul>
Second workings	<ul style="list-style-type: none"> <li>To be carried out only within the approved mine plan, in accordance only with an approved Extraction Plan.</li> </ul>

**Notes:**

- Classification of streams in accordance with Strahler stream order system.
- Detailed performance indicators (including impact assessment criteria) for each of these performance measures will be detailed in the various management plans that are required under this consent.
- Measurement and/or monitoring of compliance with performance measures and performance indicators is to be undertaken using generally accepted methods that are appropriate to the environment and circumstances in which the feature or characteristic is located. These methods are to be fully described in the relevant management plans. In the event of a dispute over the appropriateness of proposed methods, the Secretary will be the final arbiter.

2. The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the performance measures in Table 6. Any exceedance of these performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation, notwithstanding actions taken pursuant to condition 3 below. Where any exceedance of these performance measures has occurred, the Applicant must, at the earliest opportunity:
  - (a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur;
  - (b) consider all reasonable and feasible options for remediation and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and
  - (c) implement remediation measures as directed by the Secretary, to the satisfaction of the Secretary.

## Offsets

3. If the Applicant exceeds the performance measures in Table 6 and the Secretary determines that:
  - (a) it is not reasonable or feasible to remediate the impact or environmental consequences; or
  - (b) remediation measures implemented by the Applicant have failed to satisfactorily remediate the impact or environmental consequence,
 then **the Applicant must** provide a suitable offset to compensate for the impact or environmental consequence, to the satisfaction of the Secretary.

*Note: An offset required under this condition must be proportionate with the significance of the impact or environmental consequence.*

## Performance Measures – Built Features

4. **The Applicant must** ensure that the development does not cause any exceedances of the performance measures in Table 7, to the satisfaction of the Secretary.

**Table 7: Subsidence Impact Performance Measures**

<b>Key Public Infrastructure</b>	
M1 Motorway	Always safe and serviceable.
Main Northern Railway	
330 kV power supply infrastructure	Damage that does not affect safety or serviceability must be fully repairable, and must be fully repaired.
<b>Other Built Infrastructure</b>	
Power lines and power poles	Always safe.
Telecommunications infrastructure	Serviceability should be maintained wherever practicable.
Privately-owned residences	
Local Roads	Loss of serviceability must be fully compensated.
Other built features and improvements, (including access roads, farm dams, swimming pools, tracks and fences)	Damage must be fully repairable, and must be fully repaired or else replaced or fully compensated.
<b>Public Safety</b>	
Public Safety	Negligible additional risk.

### Notes:

- Key public infrastructure is shown in Figure 2 of Appendix 2 and in Figure 1 of Appendix 5
- Other built infrastructure is shown in Figure 1 of Appendix 5.
- The Applicant will be required to define more detailed performance indicators for each of these performance measures in the Built Features Management Plan, Property Subsidence Management Plans and Public Safety Management Plan (see condition 6 below).
- Measurement and/or monitoring of compliance with performance measures and performance indicators is to be undertaken using generally accepted methods that are appropriate to the environment and circumstances in which the feature or characteristic is located. These methods are to be fully described in the relevant management plans. In the event of a dispute over the appropriateness of proposed methods, the Secretary will be the final arbiter.
- Requirements regarding safety or serviceability do not preclude preventative or mitigatory actions being taken prior to or during mining in order to achieve or maintain these outcomes.
- Requirements under this condition may be met by measures undertaken in accordance with the Mine Subsidence Compensation Act 1961.

5. Any dispute between the Applicant and the owner of any built feature over the interpretation, application or implementation of the performance measures in Table 7 is to be settled by the Secretary, following consultation with DRE. Any decision by the Secretary shall be final and not subject to further dispute resolution under this consent.

## Extraction Plan

6. **The Applicant must** prepare an Extraction Plan for all second workings on site, to the satisfaction of the Secretary. Each Extraction Plan must:
  - (a) be prepared by suitably qualified and experienced persons whose appointment has been approved by the Secretary;
  - (b) be approved by the Secretary before the Applicant carries out any of the second workings covered by the plan;
  - (c) include detailed plans of existing and proposed first and second workings and any associated surface development;
  - (d) include detailed performance indicators for each of the performance measures in Tables 6 and 7;

- (e) provide revised predictions of the potential subsidence effects, subsidence impacts and environmental consequences of the proposed second workings, incorporating any relevant information obtained since the commencement date of this consent;
- (f) describe the measures that would be implemented to ensure compliance with the performance measures in Tables 6 and 7, and manage or remediate any impacts and/or environmental consequences;
- (g) include a Built Features Management Plan, which has been prepared in consultation with DRE and the owners of affected built features, to manage the potential subsidence impacts and/or environmental consequences of the proposed second workings, and which:
  - addresses in appropriate detail all items of key public infrastructure (with particular consideration to tension/angle/suspension towers on transmission lines), and other public infrastructure;
  - has been prepared following appropriate consultation with the owner/s of potentially affected feature/s;
  - recommends appropriate remedial measures and includes commitments to mitigate, repair, replace or compensate all predicted impacts on potentially affected built features in a timely manner; and
  - in the case of all key public infrastructure, and other public infrastructure except roads, trails and associated structures, reports external auditing for compliance with ISO 31000 (or alternative standard agreed with the infrastructure owner), and provides for annual auditing of compliance and effectiveness during extraction which may impact the infrastructure;
- (h) include a Property Subsidence Management Plan for each privately-owned property affected by the proposed second workings, prepared in consultation with the landowner, which includes:
  - a detailed structural inspection of residences and all other structures on the property;
  - a detailed subsidence impact assessment for the property, including (where relevant):
    - a flood impact assessment, including a prediction of the minimum freeboard of the residence in a 1 in 100 year ARI flood event, and, where this prediction shows the minimum freeboard at the residence to be less than 0.5 m in a 1 in 100 year ARI flood event:
      - recommends such works to raise, remediate or relocate the residence and/or provide suitable access to the property, prior to undermining the residence; or
      - where these works are unable to be undertaken, offers to acquire the whole of the property, or such part of the property requested by the landowner where subdivision is approved, in accordance with conditions 3 and 4 of Schedule 5;
    - slope stability assessments at the properties shown in Figure 2 of Appendix 5, or at any other property as nominated by the Secretary, which must:
      - be undertaken at least 12 months prior to undermining the property;
      - be undertaken in consultation with DRE, by a suitably qualified geotechnical expert;
      - recommend measures to manage and/or mitigate the risks and impacts associated with slope instability and rock roll-out at the residence, and the risk to the safety of persons; and
      - include a timeframe for the implementation of the recommended measures;
    - soil erosion assessment, which recommends measures to avoid, mitigate and otherwise respond to increased soil erosion (including tunnel erosion) impacts; and
  - appropriate measures, commitments and timeframes to mitigate, repair, replace or otherwise compensate the impacts to the property;
- (i) include a Water Management Plan, which has been prepared in consultation with EPA and [DPI Water](#), which provides for the management of the potential impacts and/or environmental consequences of the proposed second workings on watercourses and aquifers, including:
  - detailed baseline data on groundwater levels, yield and quality in the region, and in privately-owned groundwater bores that could be affected by the second workings;
  - surface water and groundwater impact assessment criteria, including trigger levels for investigating any potentially adverse impacts on water resources or water quality;
  - a program to monitor and report on stream morphology and stream flows, and assessment of any changes resulting from subsidence impacts, including scouring and ponding;
  - a program to monitor flooding (including updated flood modelling); with recommendations to minimise, manage and mitigate (whether prospectively or retrospectively) flood impacts on residences, private properties, roads, other infrastructure and other built features;
  - a groundwater monitoring program which:
    - includes a comprehensive monitoring bore network, ensuring all bore casings are above ground level and are purged before sampling;
    - samples on a monthly basis for the first two years of the development, and quarterly thereafter, unless directed by the Secretary;
    - monitors and reports on:
      - groundwater inflows to the mine;

- background changes in groundwater yield/quality against mine-induced changes; and
- impacts to:
  - regional and local (including alluvial) aquifers;
  - groundwater supply to private bores; and
  - groundwater dependent ecosystems and riparian vegetation;
- a program to validate the groundwater model for the development, and compare monitoring results with modelled predictions; and
- a plan to respond to any exceedances of the groundwater assessment criteria;
- (j) include a Biodiversity Management Plan, which has been prepared in consultation with OEH, which establishes baseline data for existing habitat, including water table depth, vegetation condition, stream morphology and threatened species habitat, and provides for the management of the potential impacts and/or environmental consequences of the proposed second workings on aquatic and terrestrial flora and fauna, with a specific focus on threatened species, populations and their habitats; endangered ecological communities; and water dependent ecosystems;
- (k) include a Land Management Plan, which has been prepared in consultation with any affected public authorities, to manage the potential impacts and/or environmental consequences of the proposed second workings on land in general;
- (l) include a Heritage Management Plan, which has been prepared in consultation with OEH [and Registered Aboriginal Parties](#), to manage the potential environmental consequences of the proposed second workings on both Aboriginal and non-Aboriginal heritage items, and reflects the requirements of [condition 22](#) of Schedule 3;
- (m) include a Public Safety Management Plan, which has been prepared in consultation with DRE, to ensure that the proposed second workings do not impact on public safety;
- (n) include a Subsidence Monitoring Program, which has been prepared in consultation with DRE to:
  - provide data to assist with the management of the risks associated with conventional and non-conventional subsidence;
  - validate the subsidence predictions;
  - analyse the relationship between the predicted and resulting subsidence effects and predicted and resulting impacts under the plan and any ensuing environmental consequences; and
  - inform the Contingency Plan and adaptive management process;
- (o) Trigger Action Response Plans addressing all features in Tables 6 and 7, which contain:
  - appropriate triggers to warn of the development of an increasing risk of exceedance of any performance measure;
  - specific actions to respond to high risk exceedance of any performance measure to ensure that the measure is not exceeded; and
  - an assessment of remediation measures that may be required if exceedances occur and the capacity to implement the measures;
- (p) include a Contingency Plan that expressly provides for:
  - adaptive management where monitoring indicates that there has been an exceedance of any performance measure in Tables 6 and 7, or where any such exceedance appears likely; and
  - an assessment of the remediation measures that may be required if exceedances occur and the capacity to implement the measures;
- (q) proposes appropriate revisions to the Rehabilitation Management Plan required under [condition 33](#) of Schedule 3; and
- (r) include a program to collect sufficient baseline data for future Extraction Plans.

[The Applicant must implement the approved Extraction Plan as approved from time to time by the Secretary.](#)

**Notes:**

- *This condition does not apply to mining operations covered by an approved Subsidence Management Plan in place at the date of commencement of this consent.*
- *In accordance with condition 5 of Schedule 6, the preparation and implementation of Extraction Plans may be staged, with each plan covering a defined area of underground workings. In addition, these plans are only required to contain management plans that are relevant to the specific underground workings that are being carried out.*

7. [The Applicant must](#) ensure that the management plans required under [conditions 6\(g\)-\(q\)](#) above include:
  - (a) an assessment of the potential environmental consequences of the Extraction Plan, incorporating any relevant information that has been obtained since the date of commencement of this consent; and
  - (b) a detailed description of the measures that would be implemented to remediate predicted impacts.

### Archaeological Surveys

8. [The Applicant must:](#)
  - (a) use its best endeavours to undertake archaeological surveys of privately-owned land which was not surveyed in the EIS, prior to subsidence impacts occurring on that land;
  - (b) analyse the significance of any heritage sites/items identified during the surveys; and

- (c) include appropriate measures to avoid, minimise and/or mitigate impacts to the identified sites/items in the Heritage Management Plan required under condition 6(l) above, to the satisfaction of the Secretary.

#### **Grinding Groove Trial Mitigation**

- 9. Prior to the extraction of Longwall 25, **the Applicant must** undertake trial mitigation works at grinding groove sites RPS DF04 and RPS PS11, in consultation with Forestry Corporation of NSW, OEH and Registered Aboriginal Parties, and to the satisfaction of the Secretary.
- 10. **The Applicant must:**
  - (a) monitor the effectiveness of the trial mitigation works during and following the extraction of Longwall 25;
  - (b) provide a report on the monitoring to the Secretary, OEH and Registered Aboriginal Parties; and
  - (c) use the report to inform the impact avoidance, management and mitigation strategies in future Extraction Plans covering other grinding groove sites, to the satisfaction of the Secretary.

#### **Rock Shelter Monitoring**

- 11. **The Applicant must** implement a monitoring program of subsidence effects at rock shelter sites 45-3-1228 and 45-3-1233 in the Extraction Plan for Longwall 34 or, if access to these sites is not granted by the landowner, other rock shelter sites as agreed to in writing with the Secretary. This monitoring **must** be:
  - (a) undertaken by a suitably qualified archaeologist, whose appointment has been approved by the Secretary,
  - (b) undertaken in consultation with OEH and Registered Aboriginal Parties; and
  - (c) used to inform impact management of rock shelter sites under future Extraction Plans required under this consent, to the satisfaction of the Secretary.

#### **First Workings**

- 12. The Applicant may carry out first workings on site, other than in accordance with an approved Extraction Plan, provided that DRE is satisfied that the first workings are designed to remain stable and non-subsiding, except insofar as they may be impacted by approved second workings.

#### **Payment of Reasonable Costs**

- 13. **The Applicant must** pay all reasonable costs:
    - (a) incurred by the Department to engage suitably qualified, experienced and independent experts to review the adequacy of any aspect of an Extraction Plan; and
    - (b) to the owner of privately-owned land subject to a Property Subsidence Management Plan under condition 6(h) above, to obtain legal and/or other advice on the Property Subsidence Management Plan.
-



## SCHEDULE 5

### ADDITIONAL PROCEDURES

#### NOTIFICATION OF LANDOWNERS

1. As soon as practicable after obtaining monitoring results showing:
  - (a) an exceedance of any relevant criteria in Schedule 3, **the Applicant must** notify affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the development is again complying with the relevant criteria; and
  - (b) an exceedance of any relevant air quality criteria in Schedule 3, **the Applicant must** send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and/or existing tenants of the land (including the tenants of any mine-owned land).

#### INDEPENDENT REVIEW

2. If an owner of privately-owned land considers the development to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land.

If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision **the Applicant must**:

- (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:
  - consult with the landowner to determine his/her concerns;
  - conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 3; and
  - if the development is not complying with these criteria, identify and implement measures to ensure compliance with the relevant criteria; and
- (b) give the Secretary and landowner a copy of the independent review.

#### LAND ACQUISITION

3. Within 3 months of receiving a written request from a landowner with acquisition rights, **the Applicant must** make a binding written offer to the landowner based on:
  - (a) the current market value of the landowner's interest in the land at the date of this written request, as if the land was unaffected by the project, having regard to the:
    - existing and permissible use of the land, in accordance with the applicable planning instruments at the date of the written request; and
    - presence of improvements on the land and/or any approved building or structure which has been physically commenced at the date of the landowner's written request, and is due to be completed subsequent to that date;
  - (b) the reasonable costs associated with:
    - relocating within the Lake Macquarie City Council or **Central Coast** Council local government areas, or to any other local government area determined by the Secretary; and
    - obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is to be acquired; and
  - (c) reasonable compensation for any disturbance caused by the land acquisition process.

However, if at the end of this period, the Applicant and landowner cannot agree on the acquisition price of the land and/or the terms upon which the land is to be acquired, then either party may refer the matter to the Secretary for resolution.

Upon receiving such a request, the Secretary will request the President of the NSW Division of the Australian Property Institute to appoint a qualified independent valuer to:

- consider submissions from both parties;
- determine a fair and reasonable acquisition price for the land and/or the terms upon which the land is to be acquired, having regard to the matters referred to in paragraphs (a)-(c) above;
- prepare a detailed report setting out the reasons for any determination; and
- provide a copy of the report to both parties.

Within 14 days of receiving the independent valuer's report, **the Applicant must** make a binding written offer to the landowner to purchase the land at a price not less than the independent valuer's determination.

However, if either party disputes the independent valuer's determination, then within 14 days of receiving the independent valuer's report, they may refer the matter to the Secretary for review. Any request for a review must be accompanied by a detailed report setting out the reasons why the party disputes the independent

valuer's determination. Following consultation with the independent valuer and both parties, the Secretary will determine a fair and reasonable acquisition price for the land, having regard to the matters referred to in paragraphs (a)-(c) above, the independent valuer's report, the detailed report of the party that disputes the independent valuer's determination and any other relevant submissions.

Within 14 days of this determination, **the Applicant must** make a binding written offer to the landowner to purchase the land at a price not less than the Secretary's determination.

If the landowner refuses to accept the Applicant's binding written offer under this condition within 6 months of the offer being made, then the Applicant's obligations to acquire the land shall cease, unless the Secretary determines otherwise.

4. **The Applicant must** pay all reasonable costs associated with the land acquisition process described in condition 3 above, including the costs associated with obtaining Council approval for any plan of subdivision (where permissible), and registration of this plan at the Office of the Registrar-General.
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## SCHEDULE 6

### ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

#### ENVIRONMENTAL MANAGEMENT

##### Environmental Management Strategy

1. **The Applicant must** prepare an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must:
  - (a) be submitted to the Secretary for approval prior to the commencement of construction of the MSSS, or by 31 March 2016, whichever is sooner;
  - (b) provide the strategic framework for environmental management of the development;
  - (c) identify the statutory approvals that apply to the development;
  - (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;
  - (e) describe the procedures that would be implemented to:
    - keep the local community and relevant agencies informed about the operation and environmental performance of the development;
    - receive, handle, respond to, and record complaints;
    - resolve any disputes that may arise during the course of the development;
    - respond to any non-compliance; and
    - respond to emergencies; and
  - (f) include:
    - copies of any strategies, plans and programs approved under the conditions of this consent; and
    - a clear plan depicting all the monitoring required to be carried out under the conditions of this consent.

**The Applicant must implement the approved strategy as approved from time to time by the Secretary.**

##### Management Plan Requirements

2. **The Applicant must** ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:
  - (a) detailed baseline data;
  - (b) a description of:
    - the relevant statutory requirements (including any relevant approval, licence or lease conditions);
    - any relevant limits or performance measures/criteria; and
    - the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;
  - (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;
  - (d) a program to monitor and report on the:
    - impacts and environmental performance of the development; and
    - effectiveness of any management measures;
  - (e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;
  - (f) a program to investigate and implement ways to improve the environmental performance of the development over time;
  - (g) a protocol for managing and reporting any:
    - incidents;
    - complaints;
    - non-compliances with statutory requirements; and
    - exceedances of the impact assessment criteria and/or performance criteria; and
  - (h) a protocol for periodic review of the plan.

*Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.*

##### Application of Existing Management Plans

3. Prior to the approval of management plans under this consent, **the Applicant must** manage development undertaken pursuant to this consent in accordance with any equivalent or similar management plan/s required under development consent DA 97/800.

## Relationships between Management Plans

4. The Water, Biodiversity and Heritage Management Plans required by [conditions 17, 19 and 22](#) of Schedule 3, respectively, are to be prepared in respect of all parts of the development that are not covered by an Extraction Plan or Subsidence Management Plan. In particular, the Water, Biodiversity and Heritage Management Plans should address all areas subject to existing or proposed surface disturbance associated with the development.

## Staged Submission of Strategies, Plans or Programs

5. With the approval of the Secretary, the Applicant may submit any strategies, plans or programs required by this consent on a progressive basis.

*Note: If the submission of any strategy, plan or program is to be staged, then the Applicant must ensure that existing strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.*

## Consolidation of Strategies, Plans or Programs

6. With the approval of the Secretary, the Applicant may incorporate any strategies, plans or programs required by this consent (except those required under condition 6 of Schedule 4) with the strategies, plans and programs required for Centennial's mining operations within the general vicinity of the development.

## Revision of Strategies, Plans and Programs

7. Within 3 months of:
  - (a) the submission of an incident report under condition 10 below;
  - (b) the submission of an annual review under condition 12 below;
  - (c) the submission of an audit report under condition 13 below; or
  - (d) any modification to the conditions of this consent, (unless the conditions require otherwise), [the Applicant must](#) review, and if necessary revise, the strategies, plans, and programs required under this consent to the satisfaction of the Secretary.

Where this review leads to revisions in any such document, then within 4 weeks of the review, the revised document must be submitted to the Secretary for approval.

*Note: This condition ensures that strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the development.*

## Adaptive Management

8. The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedules 3 and 4. Any exceedance of these criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.

Where any exceedance of these criteria and/or performance measures has occurred, the Applicant must, at the earliest opportunity:

- (a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not reoccur;
- (b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and
- (c) implement remediation measures as directed by the Secretary, to the satisfaction of the Secretary.

## Community Consultative Committee

9. The Applicant must establish a Community Consultative Committee (CCC) for the development to the satisfaction of the Secretary. This CCC must be operated in general accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Developments* (Department of Planning, 2007, or its latest version).

*Notes:*

- *The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent.*
- *In accordance with the Guidelines, the CCC must include an independent chair and appropriate representation from the Applicant, Council, recognised environmental groups and the local community.*

- This condition may be satisfied by a CCC for the Mandalong Mine already in place as at the date of this consent, and the Secretary will accept continued representation from existing CCC members.
- The requirement for this CCC may be fulfilled by a regional CCC for Centennial's mines and mine infrastructure in the Central Coast/Lake Macquarie areas.

## REPORTING

### Incident Reporting

10. The Applicant must immediately notify the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the development, the Applicant must notify the Secretary and any other relevant agencies as soon as practicable after the Applicant becomes aware of the incident. Within 7 days of the date of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.

### Regular Reporting

11. The Applicant must regularly report the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.

## ANNUAL REVIEW

12. By the end of March each year, or as otherwise agreed by the Secretary, the Applicant must submit a report to the Department reviewing the environmental performance of the development to the satisfaction of the Secretary. This review must:
  - (a) describe the development (including any rehabilitation) that was carried out in the past calendar year, and the development that is proposed to be carried out over the current calendar year;
  - (b) include a comprehensive review of the monitoring results and complaints records of the development over the past calendar year, which includes a comparison of these results against the:
    - (i) relevant statutory requirements, limits or performance measures/criteria;
    - (ii) requirements of any plan or program required under this consent;
    - (iii) monitoring results of previous years; and
    - (iv) relevant predictions in the documents identified in condition 2(a) and (b) of Schedule 2;
  - (c) identify any non-compliance over the past calendar year, and describe what actions were (or are being) taken to ensure compliance;
  - (d) identify any trends in the monitoring data over the life of the development;
  - (e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and
  - (f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the development.

## INDEPENDENT ENVIRONMENTAL AUDIT

13. By 31 March 2016, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:
  - (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
  - (b) include consultation with the relevant agencies;
  - (c) assess the environmental performance of the development and assess whether it is complying with the requirements in this consent and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals);
  - (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals;
  - (e) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under the abovementioned approvals; and
  - (f) be conducted and reported to the satisfaction of the Secretary.

*Note: This audit team must be led by a suitably qualified auditor and include experts in any field specified by the Secretary.*

14. Within 12 weeks of commencing this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.

## ACCESS TO INFORMATION

15. Within 3 months of the date of this consent, [the Applicant must](#):
- (a) make copies of the following publicly available on its website:
    - (i) the documents referred to in condition 2(a) and (b) of Schedule 2;
    - (ii) all current statutory approvals for the development;
    - (iii) all approved strategies, plans and programs required under the conditions of this consent;
    - (iv) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;
    - (v) a complaints register, updated monthly;
    - (vi) minutes of CCC meetings for the last 2 years;
    - (vii) the annual reviews of the development;
    - (viii) any independent environmental audit of the development, and the Applicant's response to the recommendations in any audit;
    - (ix) any other matter required by the Secretary; and
  - (b) keep this information up-to-date, to the satisfaction of the Secretary.
-

## APPENDIX 1: SCHEDULE OF LAND

Lot	Sch	DP
68		755271
172		755271
21		248498
11		872456
82		755238
201		855397
16		248498
200		855397
5		247539
18		248498
226		755271
14		248498
192		755238
1		822126
502		730395
3		552101
1		552101
2		552101
501		730395
4		253901
21		631659
2		253901
A		389823
2		620993
186		755271
902		541065
902		542306
2		862597
2		1001669
43		755238
2		1154049
122		1140714
195		755238
6		111906
10		650915
107		755238
118		755238
29		755238
60		9632
116		755238
1		552883
3		261460
5		755238
861		835160
4		957458
903		542306
52		755238
18		813385
180		755238
12		582283
90		755238
93		9632
41		1037312
25		755238
1		834388
114		755238
31		826779
1		392111
42		1037312
41		755238
181		859434
54		755238
5		8926
2		851648
12		869483
1062		878387
1		823774

Lot	Sch	DP
21		812406
2		504749
6		261460
14		813385
47		755238
13		813385
51		851636
27		829792
580		733227
731		719040
30		826779
132		755238
1		840145
2		840145
11		869483
1002		819530
302		878333
5		568228
1		1001669
1		862597
49		815727
7		800491
10		800491
36		755238
4		7917
1001		819530
7		8926
92		661018
8		7917
2		7917
5		253901
121		1140714
112		1113510
111		1113510
2		834388
33		610386
1		357347
61		858044
2		132398
142		1052663
8	13	13447
23	6	13447
1	12	13447
5	12	13447
11	12	13447
9	12	13447
10	12	13447
300		832473
7	12	13447
12	12	13447
8	12	13447
		76485
20		1064820
355		755242
		83865
		81673
		81078
71		1112050
70		1112050
661		1115844
2		1017178
7079		1073310
24		1064820
28		1064820
2		854428
5		10720
162		848737

Lot	Sch	DP
7023		1068373
7025		1030778
141		1052663
101		828713
524		771299
		70240
3		10720
212		1012916
209		1012916
11		46770
8		46770
543		727762
91		857037
203		1012916
207		1012916
5		324031
214		1012916
202		1012916
1		560664
7003		1030927
545		727762
544		727762
216		1012916
		70849
208		1012916
222		1012916
125		882928
215		1012916
7		46770
12		46770
218		1012916
4		46770
210		1012916
2		46770
127		882928
307		1006483
53		867406
308		1006483
24		13318
17		13318
15		13318
19		13318
15	13	13447
7024		1068372
		71661
13	23	758707
18		13318
20		13318
		68621
22		13318
324		1006483
312		1006483
315		1006483
22		8009
3		13318
54		9632
11		261891
10		261891
1		555891
2		10720
4		262159
100		715718
1		1088606
115		882928
		76102
10		1088606
11		1088606

Lot	Sch	DP
6		775655
15		262159
2		262159
122		882928
107		882928
9		262159
106		882928
11		777034
2		557230
403		1001919
1034		1049569
9		13318
5		748323
323		1006483
322		1006483
404		1001919
405		1001919
7		262159
13		262159
5		262160
84		9632
46		9632
83		9632
34		9632
36		9632
30		664329
8		262159
10		775655
7		775655
2		1099987
1		1099987
17		236664
14		236664
24		21403
7		21403
34		21403
4		21403
8		21403
16		21403
26		21403
2		21403
1		120999
25		21403
10		21403
33		21403
32		585407
39		21403
29		21403
28		21403
44		21403
11		21403
35		21403
36		21403
13		21403
30		21403
15		236664
18		236664
4		236664
40		21403
32		21403
7		236664
11		571835
42		21403
31		585407
23		21403
3		21403
31		21403

Lot	Sch	DP
38		21403
3		236664
1		555211
22		21403
F		21403
12		21403
14		21403
6		236664
1		661791
37		21403
15		21403
20		236664
5		21403
1		236664
41		21403
1		21403
E		21403
B		21403
8		236664
D1		378159
19		236664
6		21403
9		21403
29		585406
34		585407
12		585402
4		958953
11		585401
1		537744
10		1042380
2		549382
9		236664
30		585406
8		585401
9		585401
7		585400
10		571835
6		585400
5		585400
14		585402
1		502247
2		509850
2		236664
3		958953
5		236664
201		702506
16		236664
2		958953
128		755242
12		236664
31		553798
10		585401
53		25812
52		25812
15		585403
11		701945
1		958953
18		585403
16		585403
51		25812
1		309399
1		509850
192		592808
5		958953
2		505715
1		243785
17		585403
191		592808
13		236664

Lot	Sch	DP
1		838687
11		236664
33		585407
4		585399
27		21403
		66365
202		702506
43		21403
491		619394
13		585402
32		553798
7		31746
4		1014877
11		131034
11		841261
7041		93591
7036		93590
100		624192
1		360488
2		1002965
7		17737
2		17737
4		208441
6		17737
26		508705
27		508705
7039		93587
101		624192
3		208441
3		17737
28		508705
5		17737
3		1014877
35		9632
4		17737
7		1014877
33		9632
3		1002965
7047		93594
152		755242
7042		93588
1		819348
75		755242
3		31746
12		31746
51		1044496
22		1069976
2		501458
A		369364
C		443445
9		31746
1		796812
2		215590
1		21373
151		755242
C		369364
84		755242
11		31746
8		31746
21		1069976
161		872445
163		755242
4		1045010
13		31746
143		755242
102		826748
83		755242
1		1043880
85		755242

Lot	Sch	DP
146		755242
60		755242
2		31746
141		755242
57		755242
54		755242
53		755242
15	20	758707
1	3	758707
21		8009
129		861903
17	18	758707
21	2	758707
5		21373
13	43	758707
9	21	758707
3		1045010
1		727748
2		21373
272		1006208
56		755242
58		755242
160		755242
161		755242
1		807685
2		511786
14		31746
1		1045010
16	21	758707
12	2	758707
1	5	758707
3	31	758707
19		8009
16	20	758707
2	6	758707
4	31	758707
16		11249
4	19	758707
3	9	758707
5		220921
7	1	758707
15	8	758707
9		22944
23		8009
6	31	758707
11		11249
1	18	758707
8		11249
11	21	758707
12	21	758707
4	9	758707
3	40	758707
11	8	758707
14	9	758707
8	19	758707
5	18	758707
17	20	758707
4		8009
20	3	758707
2	32	758707
13		11249
A		103559
9	19	758707
7	23	758707
50		663624
19	3	758707
1	17	758707
8	21	758707
10	18	758707

Lot	Sch	DP
1	40	758707
11	2	758707
11		529466
1	31	758707
2		524687
30		8009
2	16	758707
16	8	758707
7031		93597
4		22034
342		865314
8	9	758707
13	5	758707
11	43	758707
9	18	758707
22		628036
18	3	758707
13	19	758707
5	8	758707
C		103559
4	32	758707
7		22034
4		220921
33		8009
11	3	758707
34		8009
19	8	758707
25		8009
13	26	758707
6	1	758707
17		31746
7048		93599
3		11249
5	6	758707
4	8	758707
21	18	758707
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2		1143022
1		590896
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14	44	758707
6		220921
32		11249
13	18	758707

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17	43	758707
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25		11249
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3	44	758707
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16	43	758707
29		8009
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11		8009
15	2	758707
101		1053223
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7051		93589
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15		8009
7		8009
101		872891
1		1106669
7325		1141789
8	18	758707
1		1047043

Lot	Sch	DP
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7029		1121279
43		1094102
7056		1124688
469		755242
7032		93586
178		755242
46		1183213
166		1182991
165		1182991
126		1171789
125		1171789
122		1171789
107		1171789
104		1171789
118		1171789
119		1171789
120		1171789
121		1171789
101		1171789
1		1164463
3		1164463
1		1163044
134		1150713
136		1150713
131		1150713
7327		1141932
		79692
181		1097047
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120		755242
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533		720684
13	11	758707
22		876359
3		246326
2	24	758707
12	11	758707

Lot	Sch	DP
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701		1030086
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13	24	758707
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14	10	758707
7	14	758707
4		221493
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10	10	758707
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1	25	758707
B		432124
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16	24	758707
15	15	758707
163		872460
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7	12	758707
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17	24	758707
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28		854657
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201		536216
342		1048875
381		864650
569		1040179
21		866905
64		854657
564		1040179
63		555770
60		854657
962		1006265
90		650040
117		1000690
85		1006474
732		857114
566		1040179
39		854657
6		21063
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35		854657
17		854657
13		854657
		53836
31		854657
151		1044544
87		1006474
411		1044138
106		662079
123		558570
46		854657
562		1040179

Lot	Sch	DP
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71		854657
5		854657
565		1040179
731		857114
79		854657
124		558570
7052		1055701
4		21063
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1		860927
343		755242
127		755242
7069		1021263
72		1044657
3		514880
6		264590
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4		246326
27		854657
4		854657
192		719818
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92		755242
87		755242
72		854657
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14		594056
461		755242
478		755242
101		862162
32		854657
101		869330
460		755242
343		567025
111		792868
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43		854657
2		514880
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131		801632
4		264590
7		854657
74		854657
125		755242
504		755242
1		221493
1		21063
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142		610758
102		706551
2		21063
402		632295
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66		854657
47		854657
25		854657
22		854657
78		854657
408		755242
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15	14	758707
11	23	1996
3	40	1996
15	11	758707

Lot	Sch	DP
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1211		1001980
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28	45	1996
19	14	758707
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9	10	7495
15	7	1996
36	43	1996
17	20	7495
6	32	1996
2	41	1996
25	17	1996
5	42	1996
2	9	7495
26		854657
6	14	7495
11	49	1996
48		854657
221		877678
41		854657
171		633298
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10		854657
1	12	1996
26	48	1996
7	14	1996
8	41	1996
21	33	1996
8	23	1996
28	11	1996
30	42	1996
4	43	1996
22	46	1996
30	39	1996
22	31	1996
3	44	1996
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23	32	1996
34	17	1996
6	49	1996
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2	3	7495
10	13	7495
401		632295
10	22	1996
13	49	1996
18	11	1996
14	27	7495
2	6	7495
9	35	1996
13	3	7495
4	3	7495
21	17	1996
3	25	7495
27	41	1996
3	16	1996
6	9	7495
1	41	1996
12	17	1996
10	43	1996
101		884142
17	23	1996
46		571738
4	49	1996
42	43	1996

Lot	Sch	DP
20	31	1996
11	42	1996
302		1043732
21	48	1996
2	5	7495
23	49	1996
2		1033665
21	41	1996
12	29	7495
38	30	1996
5	18	7495
39	43	1996
24	48	1996
1	42	1996
6	24	7495
9	48	1996
3	7	7495
14	12	1996
6	20	7495
4	2	7495
11	39	1996
10	45	1996
5	9	7495
5	40	1996
20	48	1996
5	12	1996
4	12	1996
102		884142
18	45	1996
3	33	1996
6	15	7495
8	28	7495
5		24502
14	14	7495
5	5	7495
23	47	1996
8	14	7495
1	4	7495
16	22	1996
14	33	1996
6	43	1996
32	43	1996
1	14	7495
3	3	7495
9	42	1996
14	22	1996
18	32	1996
10	27	7495
19	32	1996
11	48	1996
15	48	1996
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12	1	1996
12	22	1996
1	5	7495
9	47	1996
11	16	1996
1		514880
10	29	7495
25	36	1996
15		854657
171		569306
14		854657
172		569306
2		568690
69		854657
63		854657
101		706551
82		566373

Lot	Sch	DP
2		1045978
9	19	7495
200		875138
1	34	1996
9	20	7495
8	16	1996
7	27	7495
201		875138
16	30	1996
3	41	1996
1	8	1996
36	30	1996
34	40	1996
5	14	7495
7	30	1996
5	1	1996
3	32	1996
2	17	1996
10	46	1996
29	17	1996
1	7	7495
5	20	7495
7	5	7495
13	33	1996
18	39	1996
22	48	1996
2		516048
9	15	7495
3	43	1996
19	28	7495
39	3	1996
10	49	1996
5	49	1996
10	39	1996
7	18	7495
5	24	7495
23	46	1996
10	26	7495
3	1	1996
6	12	7495
35	30	1996
8		24502
11	19	7495
271		731388
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12	45	1996
29	39	1996
25	11	1996
18	47	1996
7	22	1996
45	30	1996
13	30	1996
5	15	7495
20	30	1996
10	25	7495
82		559739
10	31	7495
13	48	1996
23	30	1996
13	32	1996
21	30	1996
11	25	7495
21	31	1996
13	27	7495
42	30	1996
8	46	1996
38	27	1996
9	45	1996
6	16	1996

Lot	Sch	DP
9	22	1996
9	41	1996
3	5	7495
7	28	7495
42		1061369
7		24502
15	2	1996
11	3	7495
2		566983
4	27	7495
1	2	7495
17	47	1996
12	7	1996
4	47	1996
13	39	1996
21	16	1996
7	14	7495
12	19	7495
1		24502
2	2	7495
14	20	7495
22	43	1996
16	11	1996
12	3	7495
6	5	7495
A		383142
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2	15	7495
26	42	1996
13	1	1996
12	15	7495
2	1	1996
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9	23	1996
15	11	1996
6	39	1996
13	16	1996
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201		1039941
24	39	1996
3	19	7495
151		574245
16	48	1996
50		854657
11	14	7495
15	30	1996
2	33	1996
15	41	1996
19	29	7495
33	30	1996
13	15	7495
202		549422
1		568690
341		567025
62		854657
32		1035689
2		525617
21		854657
64		555770
67		854657
17	2	1996
9	25	7495
1	43	1996
14	49	1996
6	26	7495
7	8	1996
4	40	1996
16	49	1996



Lot	Sch	DP
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4	13	7495
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8	27	7495
17	11	1996
2	25	7495
9	49	1996
10	23	1996
17	43	1996
3	39	1996
5	26	7495
15	31	7495
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13	41	1996
12	20	7495
14	32	1996
13	47	1996
5	16	1996
36	3	1996
5	14	1996
19	41	1996
3	26	7495
14	31	7495
8	32	1996
13	29	7495
2	20	7495
4	16	1996
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17	49	1996
25	46	1996
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34	30	1996
15	24	7495
7	39	1996
11	10	7495
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5	17	1996
11	30	1996
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9	31	7495
6	21	7495
12	33	1996
5	7	7495
33	17	1996
8	6	1996
16	47	1996
20	45	1996
6	9	1996
12	42	1996
15	29	7495
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25	48	1996
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18	20	7495
5	25	7495
8	12	1996
26	32	1996
23	48	1996
14	29	7495
19	31	1996
13	17	1996
3	28	7495
101		831082
9	26	7495
550		729024
8	15	7495
9	32	1996
102		546936

Lot	Sch	DP
11	31	7495
32	30	1996
33	43	1996
2	4	7495
301		1007084
14	16	1996
8	1	1996
25	43	1996
6	12	1996
7	21	7495
14	30	1996
1		615504
10	32	1996
3	14	1996
14	15	7495
14	48	1996
5	33	1996
20	41	1996
1	25	7495
7	16	1996
26	30	1996
1		557434
5	27	7495
19	11	1996
27	30	1996
22	49	1996
32	17	1996
3	20	7495
3	10	7495
4	14	7495
7070		1021262
12	25	7495
10	10	7495
1	17	1996
28	48	1996
121		1093163
52		1092257
340		755242
341		755242
459		755242
115		1094421
11	27	7495
100		1088623
102		1182075
131		1171789
110		1171789
109		1171789
113		1171789
115		1171789
132		1171789
412		1149105
10		1145045
11		1145045
11		1140859
14		1140859
7301		1141022
51		1123011
7308		1138891
102		1129336
101		1129336
1011		1128828
44		1125666
46		1125666
47		1125666
1		1107398
32		1104806
1		1091490
102		1075098
143		15150

Lot	Sch	DP
772		566928
111		15150
91		4800
126		15150
106		15150
34		790154
2		608315
125		15150
78		4800
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101		15150
2		393644
138		15150
48		7744
122		15150
1		809444
16		722264
6	29	7495
1	3	7495
4	9	7495
7	15	7495
3	12	1996
8	43	1996
31	43	1996
9	30	1996
7	33	1996
3	14	7495
1	U	6747
30	30	1996
5	30	1996
871		792373
22	39	1996
6	18	7495
100		880216
31	42	1996
6	42	1996
16	7	1996
8	45	1996
90		872723
27	48	1996
6	30	1996
200		1039941
3	C	16511
15	33	1996
7	35	1996
5	8	1996
10	42	1996
21	36	1996
2		615504
12	31	7495
16	29	7495
78		778375
1	D	16511
1		303221
8	C	16511
1	31	7495
102		831082
6	25	7495
1	36	1996
2	43	1996
19	17	1996
802		878765
10	19	7495
2	D	16511
17	S	6747
15	A	7766
8	D	16511
7	C	16511
9	C	16511

Lot	Sch	DP
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8	29	7495
18	29	7495
3	D	16511
151		15150
12	S	6747
134		15150
124		15150
150		15150
16	A	7766
761		553373
70		4800
79		778375
874		792373
8	B	7766
149		15150
16		6325
6		7744
2		7744
1	4	2799
26	3	2799
31	1	2799
1		505054
61		19828
9		7744
12		7744
28	3	2799
11		793589
2		573133
151		844839
30	1	2799
1		816174
10		7744
391		556611
66		12993
27		262501
5		7744
16	1	2799
2		564573
16	3	2799
22		548495
42		7744
27	3	2799
5		6325
2		585399
2		555883
25		12993
11	4	2799
93		19828
49		7744
6		6325
24		262501
2		801501
2		816174
51		612189
4	4	2799
10	4	2799
45		7744
50		7744
3		865799
1		7744
10	1	2799
2		505054
68		12993
1		456508
20	1	2799
32		1034933
1		624849
547		805897

Lot	Sch	DP
411		520793
1		328353
1		365231
2		732167
84		19828
14	A	7766
168		15150
11	B	7766
4		235035
762		553373
123		15150
1		235035
4		865799
133		15150
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114		15150
1		780248
92		4800
7005		1032132
144		15150
1		555883
89		4800
65		4800
751		563578
421		556602
135		15150
120		15150
22		585404
71		4800
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155		15150
5	B	7766
116		15150
3	B	7766
103		15150
B		358934
3		235035
11		803750
102		15150
130		15150
8A	A	7766
79		4800
7A	A	7766
6	B	7766
11		839702
6	A	7766
100		862723
154		15150
153		15150
872		792373
13	S	6747
4	B	7766
6A	A	7766
7	D	16511
13	A	7766
5	D	16511
210		883447
3		712811
15	S	6747
4	D	16511
202		619145
3	3	2799
16	2	2799
5	3	2799
431		604046
392		556611
26		12993
30		4800
34		4800

Lot	Sch	DP
102		19828
68		19828
35	1	2799
28		585406
95		19828
80		19828
9		6325
12		793589
51		615359
12	1	2799
65		19828
24	1	2799
412		520793
90		19828
14	1	2799
3	4	2799
19		585404
76		19828
69		12993
67		12993
A		363123
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23		6325
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69		19828
85		19828
13		6325
18	1	2799
3		585399
21		585404
67		19828
11		859161
21		548495
13		793589
5		449314
92		19828
20		585404
2		503611
4		6325
7	3	2799
21	1	2799
11	3	2799
1		564573
88		19828
12	4	2799
83		19828
18		6325
70		794193
89		19828
15		793589
25	3	2799
77		19828
1		573133
24		6325
81		19828
3		755242
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17		6325
82		19828
3		6325
118		521713
63		19828
31		790154
210		545241
41		575937
1		629227
11		828895
2		624849
167		15150

Lot	Sch	DP
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27		585406
10		17011
211		545241
447		755242
27		456275
46		4800
31		4800
2		629227
283		563610
47		4800
116		659006
12		828895
2		853595
27		4800
7008		1030354
1		178951
23		4800
351		554283
42		612282
24		4800
1		555953
A		103242
1		621697
1		654586
1		17011
100		705921
33		790154
60		16770
40		6961
67		9149
26		585405
107		9149
71		9149
70		9149
24		12993
101		9149
61		12993
46		12993
1		310026
441		517403
31		12993
39		16770
54		9149
2		538275
99		9149
52		16770
115		9149
83		9149
1		524410
49		9149
A		103687
38		6961
14		259424
2		524410
66		9149
74		9149
90		9149
32		12993
64		9149
43		9149
37		16770
114		9149
17		12993
112		9149
50		9149
362		614968
23		16770
64		12993

Lot	Sch	DP
37		528601
19		16770
27		16770
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8		16770
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94		9149
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63		9149
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252		1069932
501		589634
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112		867567
20		12993

Lot	Sch	DP
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22		12993
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76		9149
47		9149
71		12993
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Lot	Sch	DP
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49		12993
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38		16770
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119		9149
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108		755218
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5		1180679
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24		264502
2	B	1014
14	B	1014
169		755218
13	B	1014
11	B	1014
12		264503
10	B	1014
5	B	1014
10		1050120
13	C	1014
10		262501
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2	C	1014
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16		262501
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8	C	1014
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Lot	Sch	DP
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112		755218
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109		755218
108		866864
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173		755218
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22		129122

Lot	Sch	DP
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12	E	1014
12	A	1014
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10	A	1014
11	A	1014
11	E	1014
13	A	1014
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1	E	1014
2		609712
13	E	1014
10	E	1014
4	E	1014
3	E	1014
7	D	1014
1	D	1014
6	E	1014
13	D	1014
9	D	1014
10	C	1014
5	D	1014
15		129157
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8	D	1014
15	D	1014
11	D	1014
4	D	1014
12	D	1014
14	D	1014
9	C	1014
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23	J	1021
16	G	1021
20	J	1021
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18	J	1021
21	J	1021
16	L	1021
10	L	1021
7	G	1021
9	H	1021
9	F	1021
9	L	1021
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6	G	1021
9	G	1021
2	J	1021
10	J	1021
4	L	1021
11	F	1021
22	I	1021
12	I	1021
3	K	1021
18	I	1021

Lot	Sch	DP
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2	H	1021
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2	N	1021
5	L	1021
16	J	1021
14	J	1021
15	I	1021
5	E	1014
8	L	1021
7	J	1021
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2	L	1021
1	I	1021
6	D	1014
6	L	1021
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3	J	1021
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24	I	1021
7	I	1021
6	I	1021
13	I	1021
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2	D	1014
13	J	1021
5	J	1021
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216		239175
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2	I	1021
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6	J	1021
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2	G	1021
1	H	1021

Lot	Sch	DP
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101		9632
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96		9632
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100		755223
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B		378498
302		806475

Lot	Sch	DP
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8	L	6747
22	T	6747
9	L	6747
12	L	6747
13	K	6747
5	N	6747
22	N	6747
6	N	6747
2	T	6747
6	L	6747
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5	T	6747
1	T	6747
20	N	6747
4	T	6747
3	T	6747
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20	T	6747
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21	N	6747
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28		1158510
27		1158510
23		1158510
21		1158510
7310		1163329
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136		776411
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53		7744
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11	J	27655
161		1028142
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156		755218
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162		1028142
1621		601496
159		15150
12		857352
158		15150
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36		16511
15	N	6747
11	N	6747
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3	36	1996
14	J	27655

Lot	Sch	DP
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82		749085
89		749085
2	J	27655
22	V	6747
20	D	16511
93		749085
10	N	6747
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10	D	16511
18	44	1996
13	J	27655
39		707797
8	44	1996
23	V	6747
5	J	27655
8	J	27655
16	J	27655
11	40	1996
17	J	27655
9	J	27655
13	D	16511
15	J	27655
21	V	6747
27		707797
56		737287
46		737287
59		737287
24	V	6747
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62		737287
23	D	16511
14	44	1996
13	C	16511
18	M	6747
29	D	16511
18	C	16511
26	D	16511
25	C	16511
37		16511
31	C	16511
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29	C	16511
26	C	16511
16	D	16511
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27	C	16511
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47		707797
13	44	1996

Lot	Sch	DP
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129		749085
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201		713574
103		1012067
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205		713574
47		1000757
185		776411
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65		1000757
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33		862349
35		1017406
105		1012067
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124		1012067
204		713574
104		1012067
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136		712898
14		836004
138		1012067
210		713574
43		707797
47		737287
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29		707797
29	40	1996
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8	L	27655
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73		737287
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10		707797
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35		737287
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Lot	Sch	DP
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67		737287
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11	37	1996
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16	44	1996
51		707797
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11	44	1996
30		707797
5		707797
16	37	1996
27	40	1996
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85		749085
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179		21486
53		21486
197		21486
24		21486
97		21486
22		21486
105		1014052
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107		21486
176		21486
160		776411
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104		21486
140		21486
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92		1014052
80		21486
150		776411

Lot	Sch	DP
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125		1014052
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194		21486
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185		21486
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100		1014052
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19		21486
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134		21486
103		21486
167		776411
102		1014052
15		733537
191		21486
14		857352
158		21486
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16		733537
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66		21486
83		21486
57		21486
78		1014052
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81		21486
198		21486
37		21486
186		21486
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103		1014052
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124		21486
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148		776411
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33		21486
247		1012069
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134		1012067
221		713574
1270		855250
116		712898
207		713574

Lot	Sch	DP
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218		713574
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11		857352
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95		1014052
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129		21486
125		21486
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Lot	Sch	DP
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130		21486
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175		776411
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224		713574

Lot	Sch	DP
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223		713574
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137		1012067
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231		1098666
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227		1012069
243		1012069
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240		1012069
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9		7316
2		1042365
248		1012069
1		1042365
3		577826

Lot	Sch	DP
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19		7316
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15		7316
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13		7316
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13		809450
14		809450
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1	4	13447
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22	4	13447
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Lot	Sch	DP
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11	L	6747
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3	M	6747
29	T	6747

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A	T	319704
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301		806475
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99		9632
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72		12993
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127		15150
107		15150
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66		4800
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146		15150
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Lot	Sch	DP
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79		19828
19		6325
75		19828
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1		617884
72		794193

Lot	Sch	DP
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31		612188
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100		803620
109		15150
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221		1066496
1		210785
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77		778375
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12	C	16511
6	D	16511
14	S	6747
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16	S	6747
1	C	16511
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33		16511
9	D	16511
2	C	16511
8	A	7766
4		712811
11	S	6747
3	U	6747
1	B	7766
9	B	7766
211		883447
2		712811
5	C	16511
1221		1006152
108		15150
156		15150
9	A	7766
85		4800
68		4800
44		7744
64		4800
73		4800
12		803750
117		15150
69		4800
157		15150
4		7744
222		1066496
72		4800

Lot	Sch	DP
141		15150
83		4800
128		15150
145		15150
132		15150
52		7744
121		15150
90		4800
112		15150
771		566928
142		15150
105		15150
35		790154
13		803750
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3		210785
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152		15150
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113		15150
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31		1034933
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122		1103767
121		1103767
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2		1107398
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43		1125666
45		1125666
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622		1148233
621		1148233
411		1149105
114		1171789
112		1171789
108		1171789
111		1171789
128		1171789
129		1171789
101		1182075
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42		714085
11	32	1996
5	28	7495
15	22	1996
2	10	7495

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7	25	7495
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26	43	1996
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19	45	1996
5	31	7495
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2	28	7495
17	30	1996
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19	39	1996
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13	14	7495
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37	3	1996
25	32	1996
2	27	1996
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5	12	7495
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6	41	1996
1	28	7495
12	28	7495
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22	36	1996
3	11	7495
4	33	1996
17	32	1996
5	21	7495
13	43	1996
21	39	1996
4	30	1996
13	12	1996
22	42	1996
3	23	7495
8	31	7495
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19	42	1996
25	39	1996
32	40	1996
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1	29	7495
21	43	1996
14	1	1996
2	30	1996
6	47	1996
14	26	7495
22	30	1996
7	32	1996
16	16	1996
7	45	1996
2	27	7495

Lot	Sch	DP
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16	27	7495
8	35	1996
12	30	1996
34	39	1996
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2	7	7495
2	36	1996
38	3	1996
20	33	1996
7	29	7495
1	48	1996
27	11	1996
7	42	1996
6	3	7495
4	23	7495
10	48	1996
29	48	1996
1	44	1996
24	17	1996
4	1	1996
12	48	1996
12	43	1996
16	2	1996
8	4	7495
31	48	1996
38	43	1996
15	26	7495
29	44	1996
6	19	7495
3	9	7495
15	47	1996
9	43	1996
4	45	1996
18	22	1996
3	42	1996
24	41	1996
14	47	1996
23	42	1996
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10	41	1996
8	18	7495
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5	45	1996
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12		854657
37		854657
30		854657
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7	31	7495
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7	10	7495
12	32	1996

Lot	Sch	DP
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19	49	1996
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2	11	7495
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7	12	1996
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24	46	1996
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Lot	Sch	DP
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30	48	1996
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15	15	7495
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27	43	1996
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110		792868
76		854657
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6		24502
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8	26	7495
8	49	1996

Lot	Sch	DP
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8	47	1996
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23	36	1996
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62		503169
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272		731388
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4	11	7495
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16	20	7495
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19	27	1996

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38		854657
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19	30	1996
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14	39	1996
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22	32	1996
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4	14	1996

Lot	Sch	DP
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23	16	1996
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465		755242
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172		633298
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71		1044657
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171		700147

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141		711151
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516		39482
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139		755242
132		801632
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1	13	758707
119		853723
120		853723
18	10	758707
11		1036804
13	12	758707
5		221493
19	12	758707
17	10	758707
16	14	758707
42		877350
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12	14	758707
4	11	758707
14	12	758707
10	11	758707
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17	12	758707
16	11	758707
11	27	758707
11	24	758707
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931		790219
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1212		1001980
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19	10	758707
14	24	758707
15	24	758707
15	10	758707
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8	11	758707
9	15	758707
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20	14	758707
5	24	758707
8	24	758707
3	14	758707
2	14	758707
17	14	758707
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8	15	758707
930		790219
5	12	758707
95		665946
9	27	758707
7	10	758707
9	24	758707
12	27	758707
18	14	758707
14	11	758707
6	10	758707
11	11	758707
15	12	758707
3	10	758707
20	12	758707
6	24	758707
10	27	758707
5	11	758707
8	27	758707
6	12	758707
3		804316
1		502914
9	10	758707
18	24	758707
3		800964
5	14	758707
12	24	758707
9	12	758707
19	11	758707
2		264590
99		755242
7		21063
1		264590
488		755242
123		755242
11		703269
133		755242
8		264590
2		730938
9		264590
140		755242
138		755242
126		755242
98		755242
3		21063
115		755242
177		755242
31		809617
3		929116

Lot	Sch	DP
3		264590
89		658755
2		246326
1		923530
567		1040179
563		1040179
7053		1055701
1		923244
1		730938
7044		93598
1		921780
97		755242
71		625580
733		857114
72		1107394
7300		1141580
73		1107394
2		1164463
182		1097047
183		1097047
7055		1124688
124		1171789
1		1172497
41		1094102
116		1171789
16	19	758707
52		1044496
12		8009
5	1	758707
341		865314
18	1	758707
6	21	758707
17		8009
12	43	758707
5		21089
10	20	758707
1		1061375
1		8009
7038		1021489
13	2	758707
20	1	758707
32		1032041
1		22034
20	5	758707
20	21	758707
12	26	758707
6		8009
18	18	758707
1		11249
7	8	758707
19	18	758707
7	9	758707
51		871090
12		11249
17	19	758707
10	33	758707
2	2	758707
10	43	758707
9	20	758707
2	27	758707
19		31746
16		31746
2		819348
2		831930
1		501458
148		755242
7306		1145752
1		1143022
135		1150713

Lot	Sch	DP
133		1150713
102		1171789
117		1171789
103		1171789
106		1171789
105		1171789
127		1171789
162		1169663
2		1183568
47		1183213
48		1183213
49		1183213
1		860244
1		1094503
7026		1070830
520		43409
14	19	758707
3	19	758707
7040		93591
20		31746
532		704447
20		8009
14	2	758707
17		11249
7	43	758707
6	9	758707
27		8009
14	1	758707
26		11249
32		8009
3		22034
2		11249
1		21089
8	43	758707
16	44	758707
18		11249
26		803877
2		21089
1		632805
17	2	758707
13	1	758707
9	43	758707
6		22034
5	19	758707
1	32	758707
4	1	758707
6	19	758707
22	2	758707
7		22944
2	31	758707
16	2	758707
21		11249
20	10	758707
16	26	758707
12	19	758707
2		549437
1	43	758707
15	43	758707
11	44	758707
4		11249
3	1	758707
7	21	758707
8		22034
4	26	758707
1	44	758707
5	44	758707
17	44	758707
15	18	758707
2	1	758707

Lot	Sch	DP
A		347689
15	44	758707
5	26	758707
2	44	758707
8		8009
1		809113
15	3	758707
15	26	758707
102		872891
14		8009
344		865314
12	18	758707
7	18	758707
6	18	758707
6	8	758707
20	2	758707
19	2	758707
4	44	758707
22		11249
20		11249
6		11249
1	2	758707
10	9	758707
10	4	758707
3	16	758707
9	33	758707
4	20	758707
14	18	758707
3	3	758707
21		628036
15		11249
17	26	758707
31		8009
4		22944
9	9	758707
14	8	758707
2	3	758707
4		21089
10		11249
11	18	758707
10		31746
23		31746
162		755242
1		215590
2		508750
78		755242
A		396531
5		31746
162		872445
23		11249
B		103559
14		11249
8	1	758707
87		1051952
18		31746
14	21	758707
1		121285
10	19	758707
B		347689
19	1	758707
9		11249
7	3	758707
7	33	758707
2	18	758707
1	1	758707
4	2	758707
10	21	758707
13	21	758707
18	2	758707

Lot	Sch	DP
2		8009
1	27	758707
19		11249
9		8009
2	43	758707
3		220921
18	19	758707
3		21089
20	18	758707
3	18	758707
2		1061375
6	26	758707
3	33	758707
28		11249
7037		1021489
52		871090
31		11249
30		11249
1		510965
26		8009
5	32	758707
5	43	758707
6	3	758707
13	8	758707
7	26	758707
13		8009
11	26	758707
3	2	758707
6	27	758707
72		755242
144		755242
61		755242
121		866321
24		803877
271		1006208
5		46770
118		587386
B		443445
12		847210
15		31746
145		755242
102		564680
68		755242
6		46770
149		755242
3		215590
217		818749
5		215590
11		847210
150		755242
142		755242
111		1003323
55		755242
33		9632
122		866321
A		402238
6		1014877
7035		93590
12		841261
518		41966
121		852340
25		508705
15		844164
24		508705
7034		93590
101		826748
1		17737
122		852340
C		402238

Lot	Sch	DP
31		9632
561		1040182
2		807685
91		864664
90		864664
147		755242
2		537744
69		755242
6		21373
102		1053223
6		31746
11		1042380
1		31746
2		1045010
132		755242
521		43409
1		285639
21		31746
117		587386
2		1043880
164		755242
1		822176
122		881828
B		328561
8		1014877
1		1014877
B		402238
2		208441
121		881828
7033		93586
1		1002965
1		126678
1		208441
1		354959
3		262160
47		9632
32		9632
62		9632
14		262159
2		262160
1		262160
5		775655
10		262159
8		775655
11		262159
45		9632
34		9632
48		9632
3		1088606
401		1001919
2		1088606
10		13318
313		1006483
		66682
2		529914
13		13318
16		13318
314		1006483
8		13318
3		262159
23		13318
310		1006483
25		13318
12		777034
316		1006483
119		882928
124		882928
1		262159
1		46770

Lot	Sch	DP
		70725
		69494
30		702647
2		555891
		68221
219		1012916
105		882928
3		46770
111		882928
6		262159
14		661114
9		46770
128		882928
201		1012916
10		46770
1		324031
223		1012916
108		882928
221		1012916
109		882928
120		882928
112		882928
37		9632
1		10720
55		9632
211		553196
558		755242
1		1064641
4		555891
212		553196
3		555891
4		324031
7022		1068373
7		613014
		73052
31		1064820
		81288
30		1064820
26		1064820
21		1064820
		76401
5		1088606
6		1088606
7		1088606
8		1088606
12		1088606
9		1088606
		77448
		77602
		80923
		81394
		82036
51		1181165
22		1064820
15		1064820
12		1064820
2		1047043
113		882928
114		882928
309		1006483
13		46770
171		755242
220		1012916
555		821108
306		1006483
2	12	13447
17	13	13447
7	13	13447
18	13	13447

Lot	Sch	DP
10	13	13447
5	13	13447
11	13	13447
14	12	13447
13	12	13447
4	12	13447
13	13	13447
15	12	13447
6	12	13447
16	12	13447
12	13	13447
6	13	13447
301		832473
206		1012916
2		618212
174		755242
462		755242
92		857037
1		132398
3		618212
161		848737
557		729949
1		854428
559		1075667
52		1017175
327		755242
1		1019085
34		610386
54		867406
63		858044
1		557230
1		1063659
300		878333
3		557230
60		1007162
6		253901
1		382470
6		800491
301		878333
4		168774
198		727714
16		813385
1		8926
1061		878387
1		851648
15		813385
20		812406
148		755238
4		8926
153		755238
62		755238
101		755238
8		8926
3		7917
1		7917
3		168774
1		957458
3		8926
6		8926
102		834295
12		813385
11		813385
5		7917
732		719040
1		261460
3		957458
311		625394
1		126595
52		867220

Lot	Sch	DP
11		582283
72		755238
A		110119
92		9632
28		755238
180		859434
6		755238
63		755238
70		882407
56		755238
22		812406
901		542306
22		1003511
52		851636
46		755238
9		800491
194		755238
8		755238
61		755238
51		867220
2		261460
1		125136
103		755238
44		755238
24		755238
113		1113510
3		1154049
24		812406
1		1090233
1		623517
17		755238
3		3039
2		755238
93		755238
862		835160
504		730395
2		805044
10		262720
8		262720
9		262720
3		805044
6		772171
145		755238
53		755238
122		755238
12		111906
131		755238
59		755238
7300		1145151
4		1154049
1		1154049
1		253901
3		253901
49		755245
43		755245
1		620993
16		788481
15		788481
1		518081
2		719762
1		772871
503		730395
4		247539
8		111906
12		838870
3		247539
158		755271
7		247539
17		248498

Lot	Sch	DP
59		755271
15		248498
19		248498
1		1095214
1		1202946
1		1202811
1		1077362
140		755238
556		729949
316		755242
31		262501
11		1050120
96		755238
89		755238
2		536372
570		1040179
100		1116960
100		1150513
156		1162774
5		285639
2		285639
3		285639
1		536372
51		867406
69		772148
2		1063659
2		740760
179		755238
152		755238
144		755238
17		813385
1		740760
2		1090233
3		1090233
1		553093
2		553093
39		755238
147		755238
94		755238
115		755238
1		805044
135		755238
2		552883
150		755238
4		805044
95		755238
168		755271
153		755271
91		755238
140		755238
556		729949
158		1012067
44		862349
316		755242
1		1089567
2		614183
31		262501
12		755218
13		755218
67		755238
13		1058676
96		755238
89		755238
623		711394
31		1101735
7		755218
210		755218
48		755218
11		755218

Lot	Sch	DP
8		755218
9		755218
97		755218
14		755218
7306		1164232
2		536372
570		1040179
156		1162774
100		1116960
100		1150513
2		285639
5		285639
4		285639
5002		585398
1		536372
1		1127461
52		867406
2		553093
69		772148
11		111906
76		755238
2		740760
151		755238
193		755238
179		755238
94		755238
115		755238
144		755238
1		805044
17		813385
135		755238
2		552883
95		755238
2		1090233
45		1159229
168		755271
153		755271
177		755238



## APPENDIX 2: DEVELOPMENT LAYOUT



**Figure 1: Development Application Area**



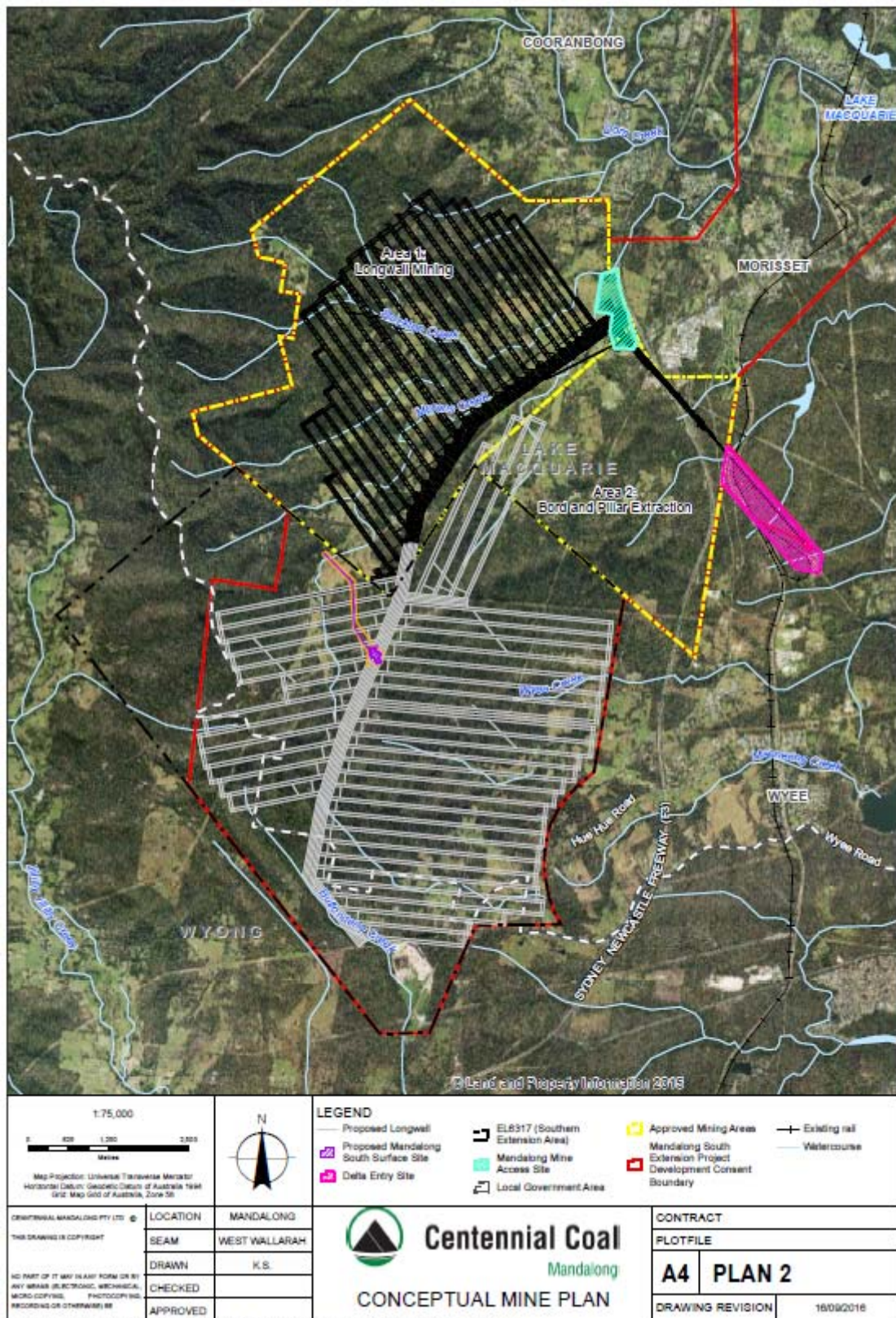
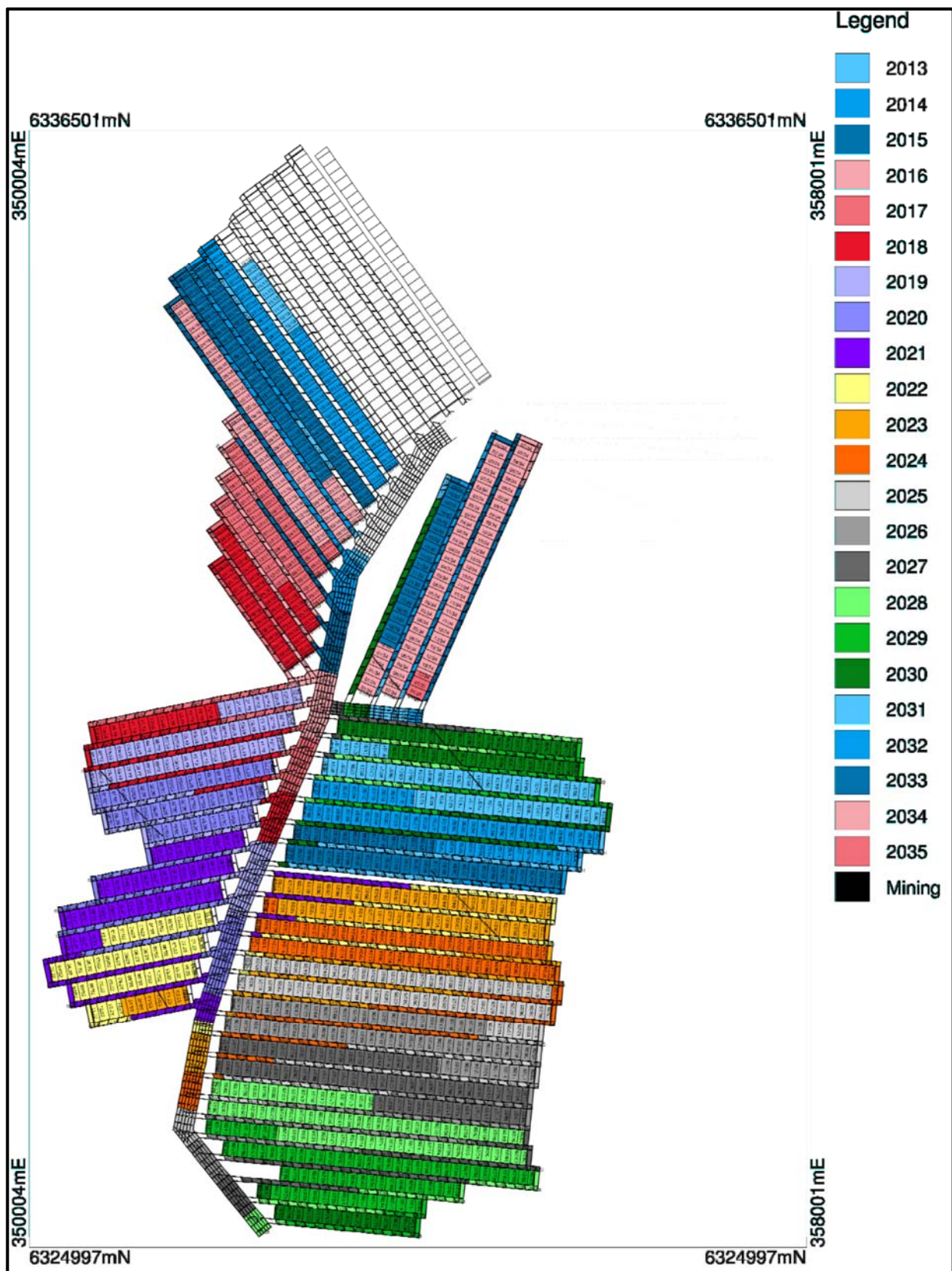


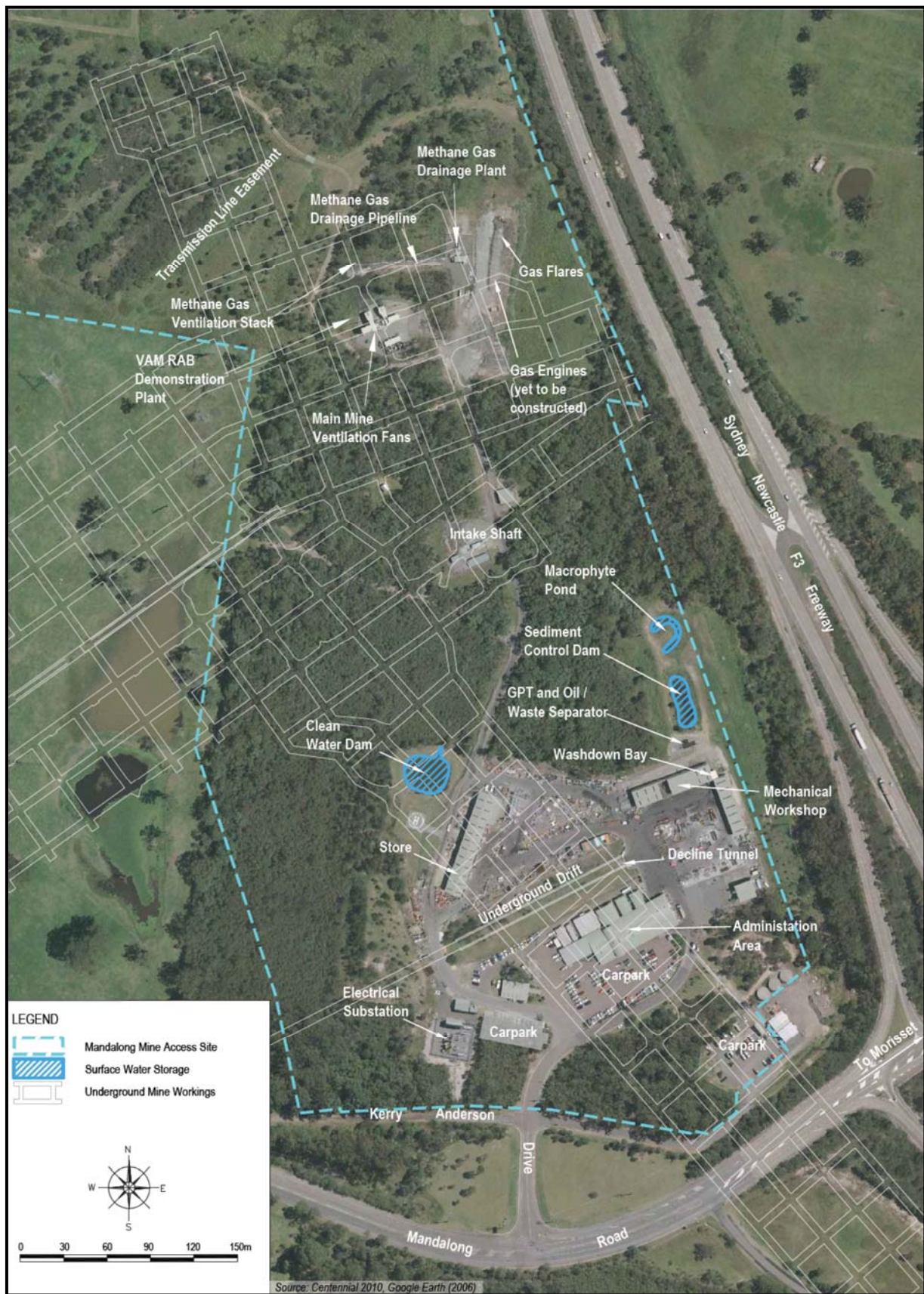
Figure 2: Approved Mine Plan





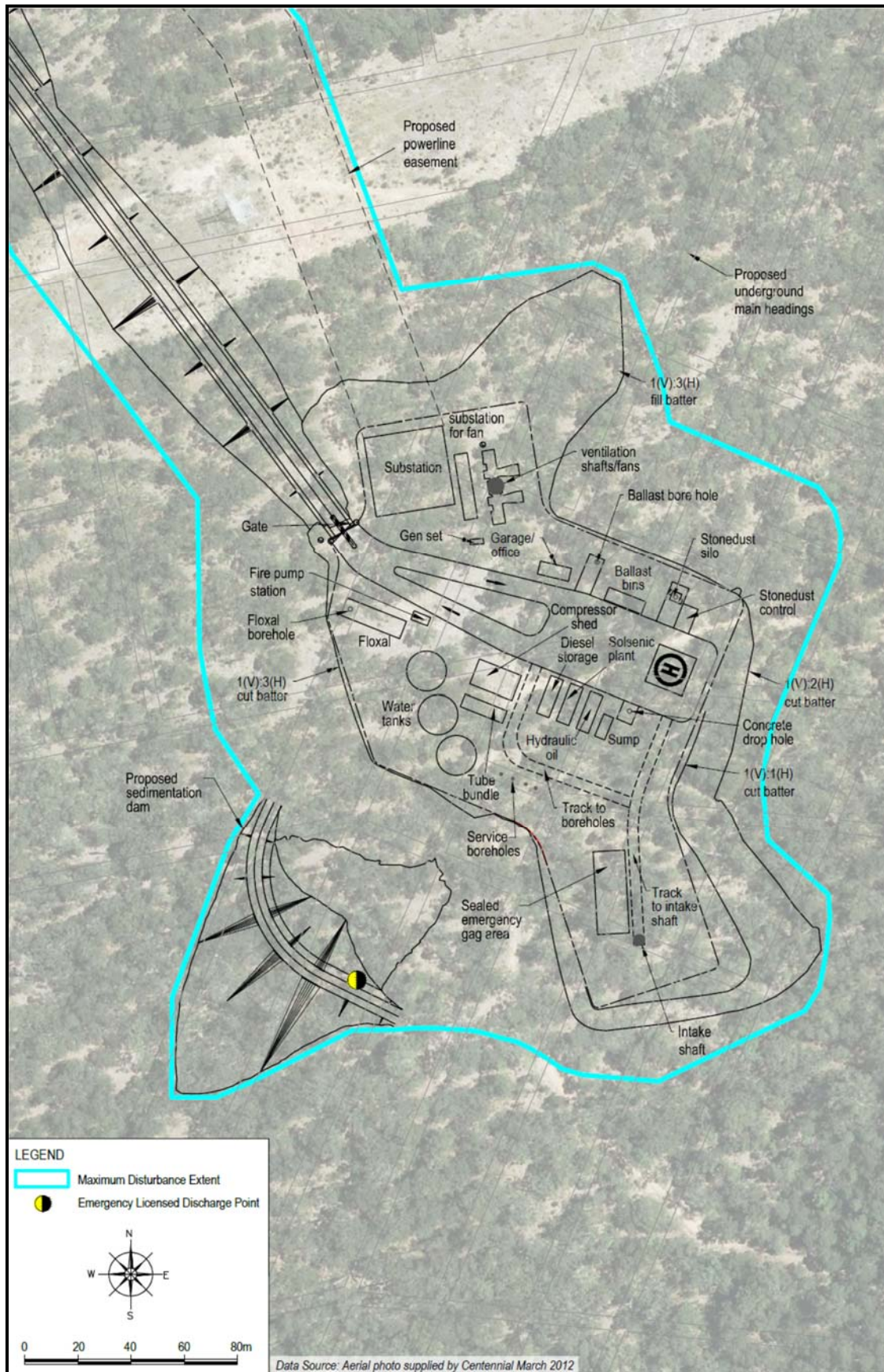
**Figure 3:** Centennial's Indicative Extraction Schedule (not binding)





**Figure 4: Mandalong Mine Access Site**





**Figure 5: Mandalong South Surface Site**





Figure 6: Cooranbong Entry Site



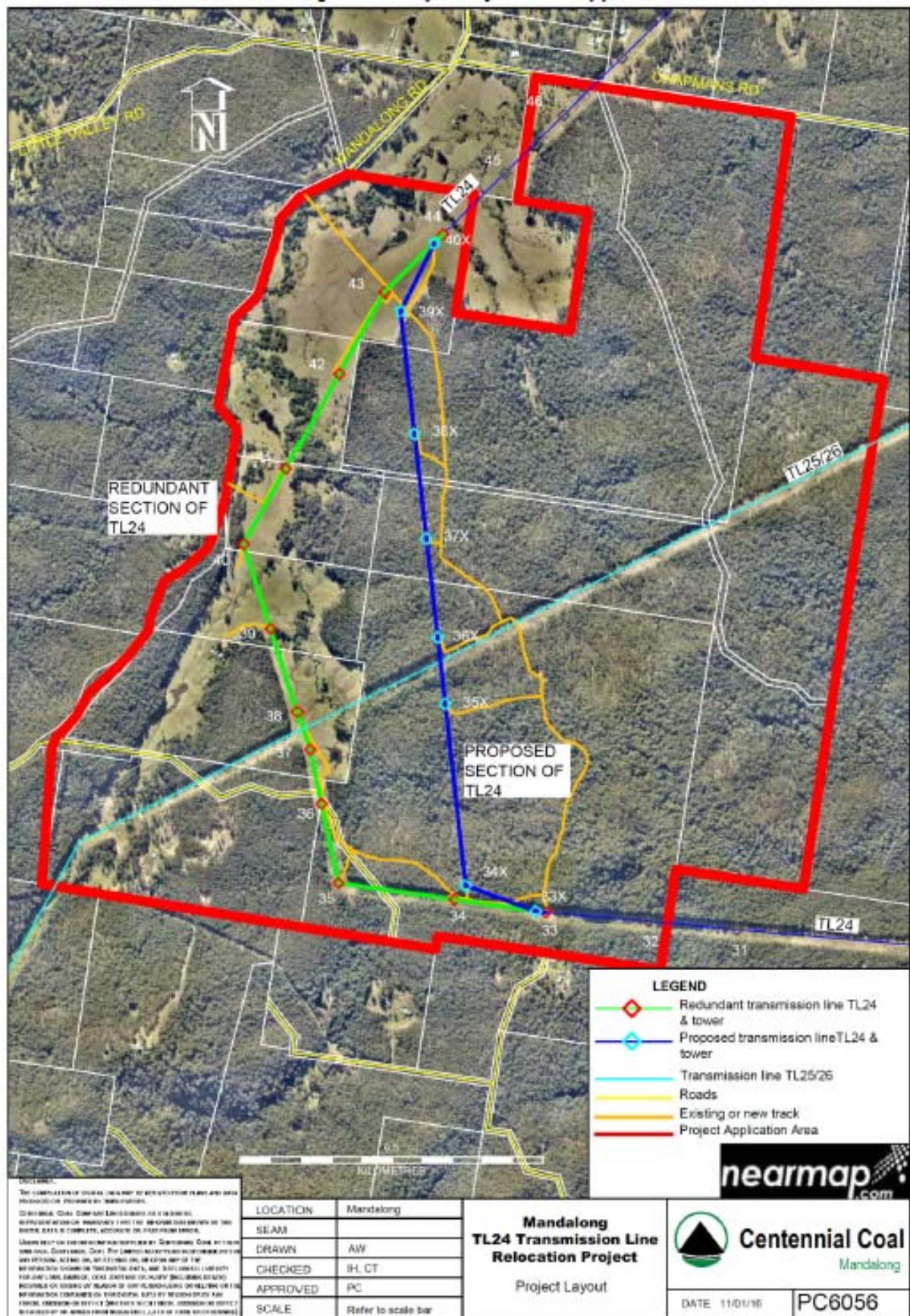


Figure 7: Relocated TL24 Transmission Line

## APPENDIX 3: NOISE ASSESSMENT

### Applicable Meteorological Conditions

1. The noise criteria in Table 2 of the conditions are to apply under all meteorological conditions except the following:
  - (a) Wind speeds greater than 3 m/s at 10 m above ground level; or
  - (b) Temperature inversion conditions between 1.5 °C and 3°C/100m and wind speeds greater than 2 m/s at 10 m above ground level; or
  - (c) Temperature inversion conditions greater than 3°C/100m.

### Determination of Meteorological Conditions

2. Except for wind speed at microphone height, the data to be used for determining meteorological conditions **must** be that recorded by the meteorological station located **in the vicinity of** the site.

### Compliance Monitoring

3. Attended monitoring is to be used to evaluate compliance with the relevant conditions of this consent.
4. Unless the Secretary agrees otherwise, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the *NSW Industrial Noise Policy* (as amended from time to time), in particular the requirements relating to:
  - (a) monitoring locations for the collection of representative noise data;
  - (b) meteorological conditions during which collection of noise data is not appropriate;
  - (c) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and
  - (d) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration.



## APPENDIX 4: NOISE RECEIVER LOCATIONS

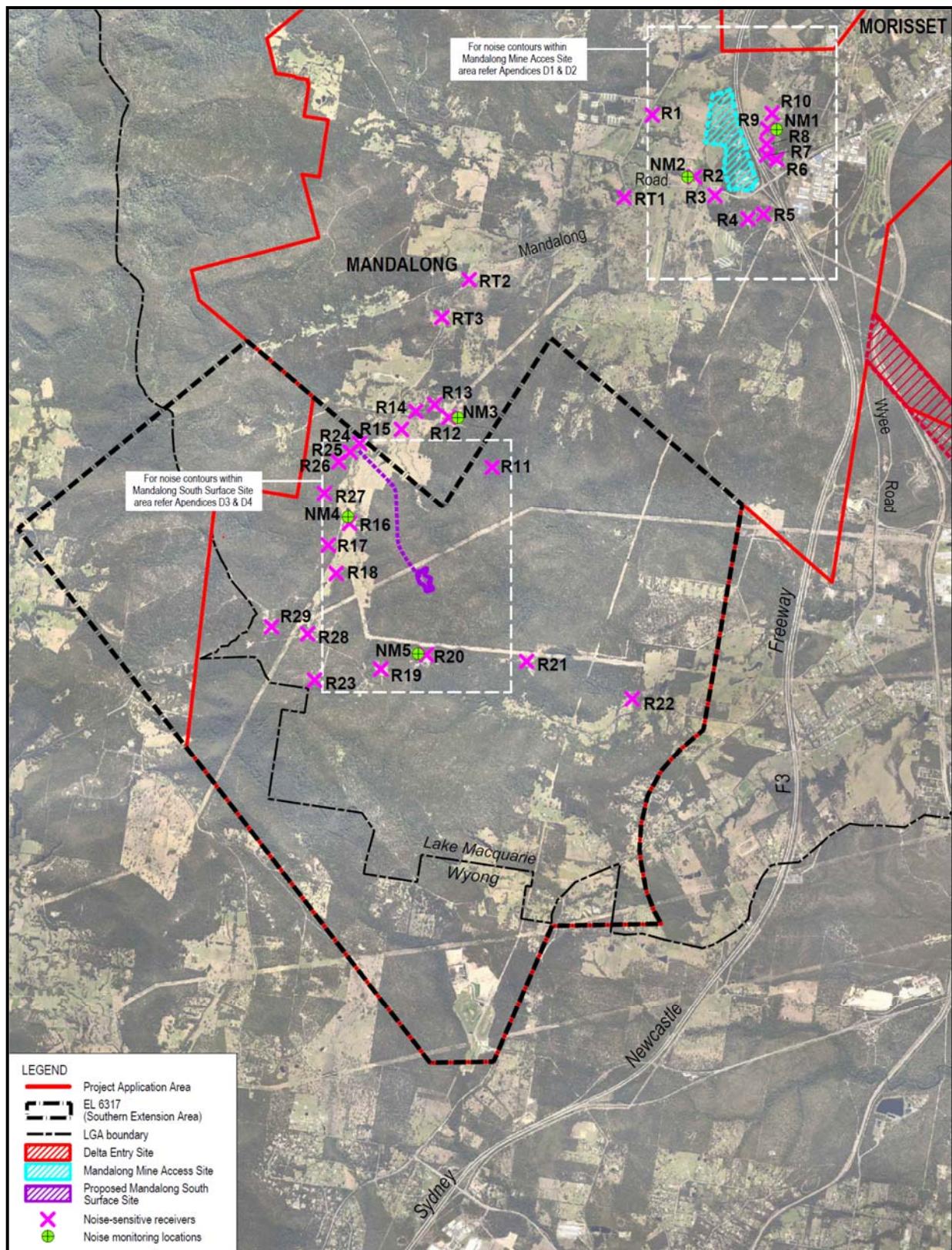


Figure 1: Representative noise receivers



APPENDIX 5: BUILT FEATURES

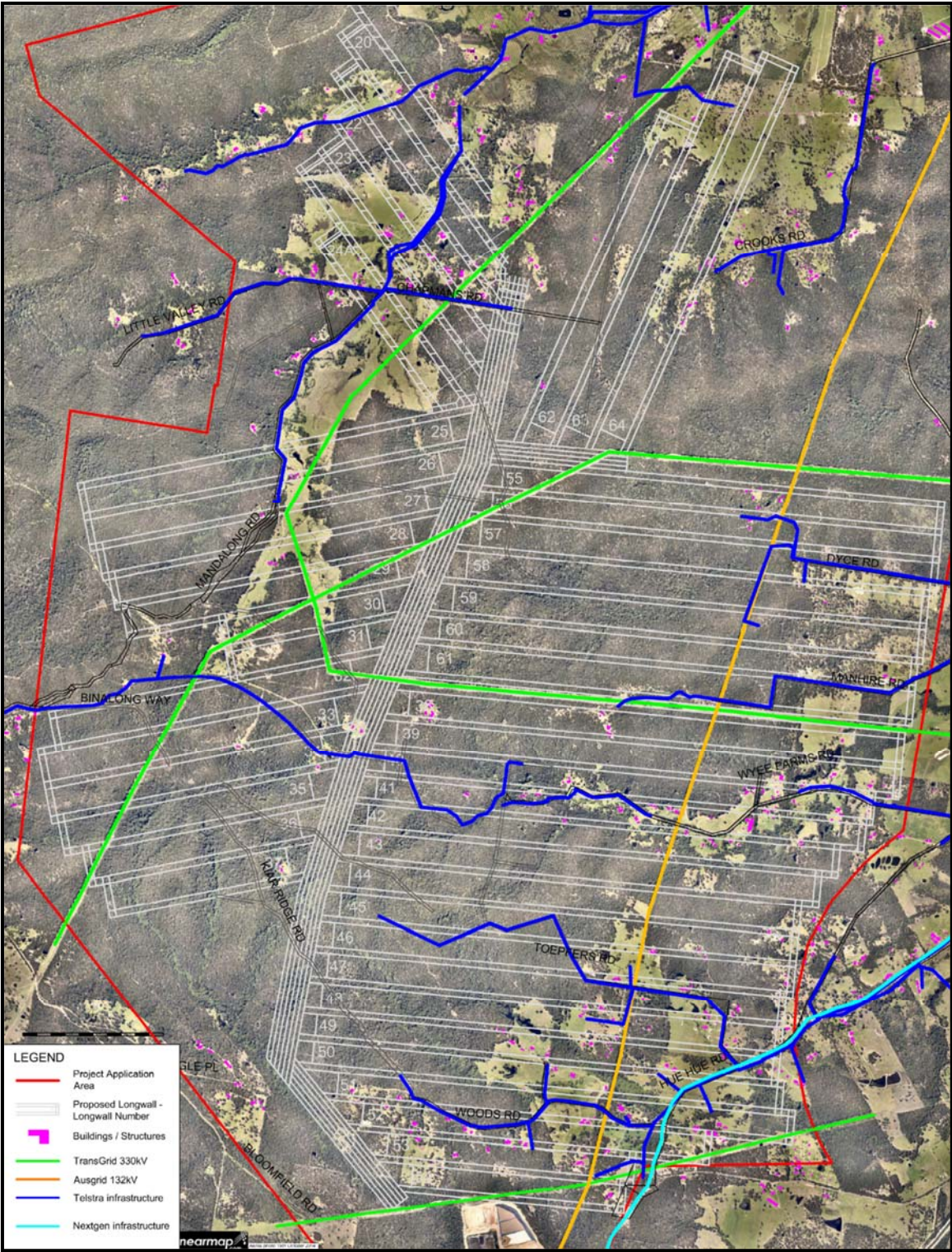
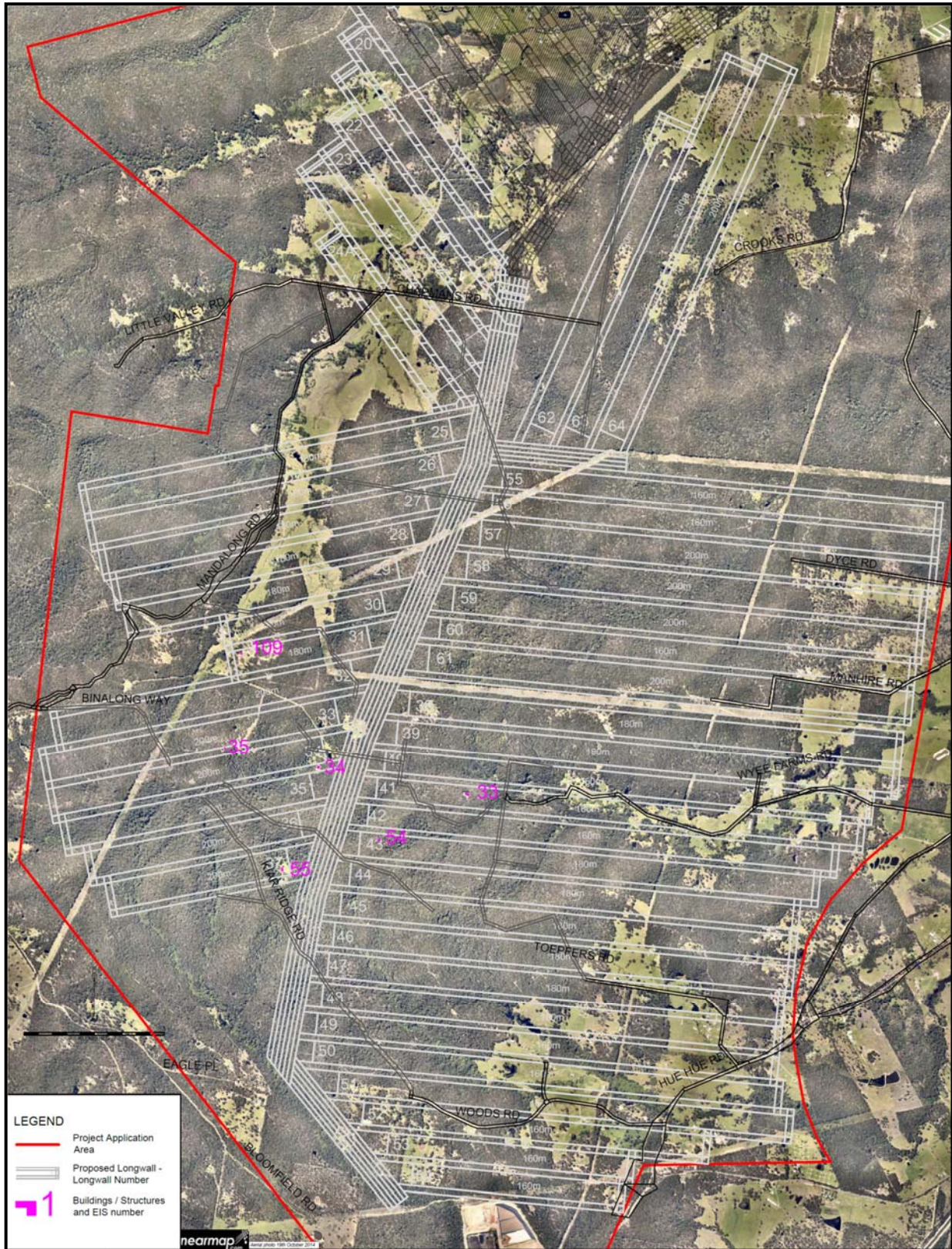


Figure 1: Built features in the Southern Extension Area





**Figure 2:** Residences potentially affected by slope instability or rock rollout

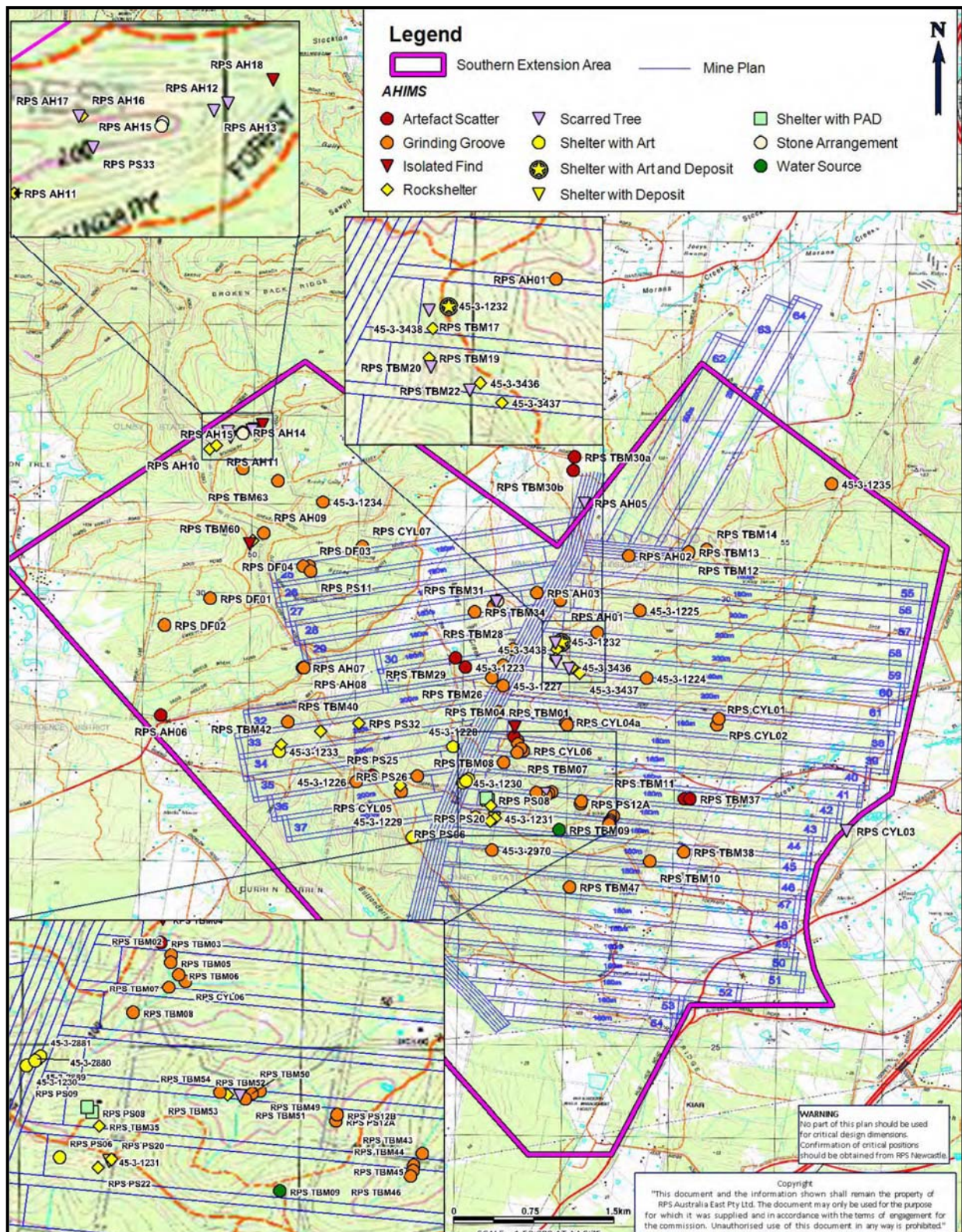




**Figure 3:** Properties potentially affected by a 1 in 100 year ARI flood event



## APPENDIX 6: ABORIGINAL CULTURAL HERITAGE



**Figure 1: Aboriginal Cultural Heritage Sites**



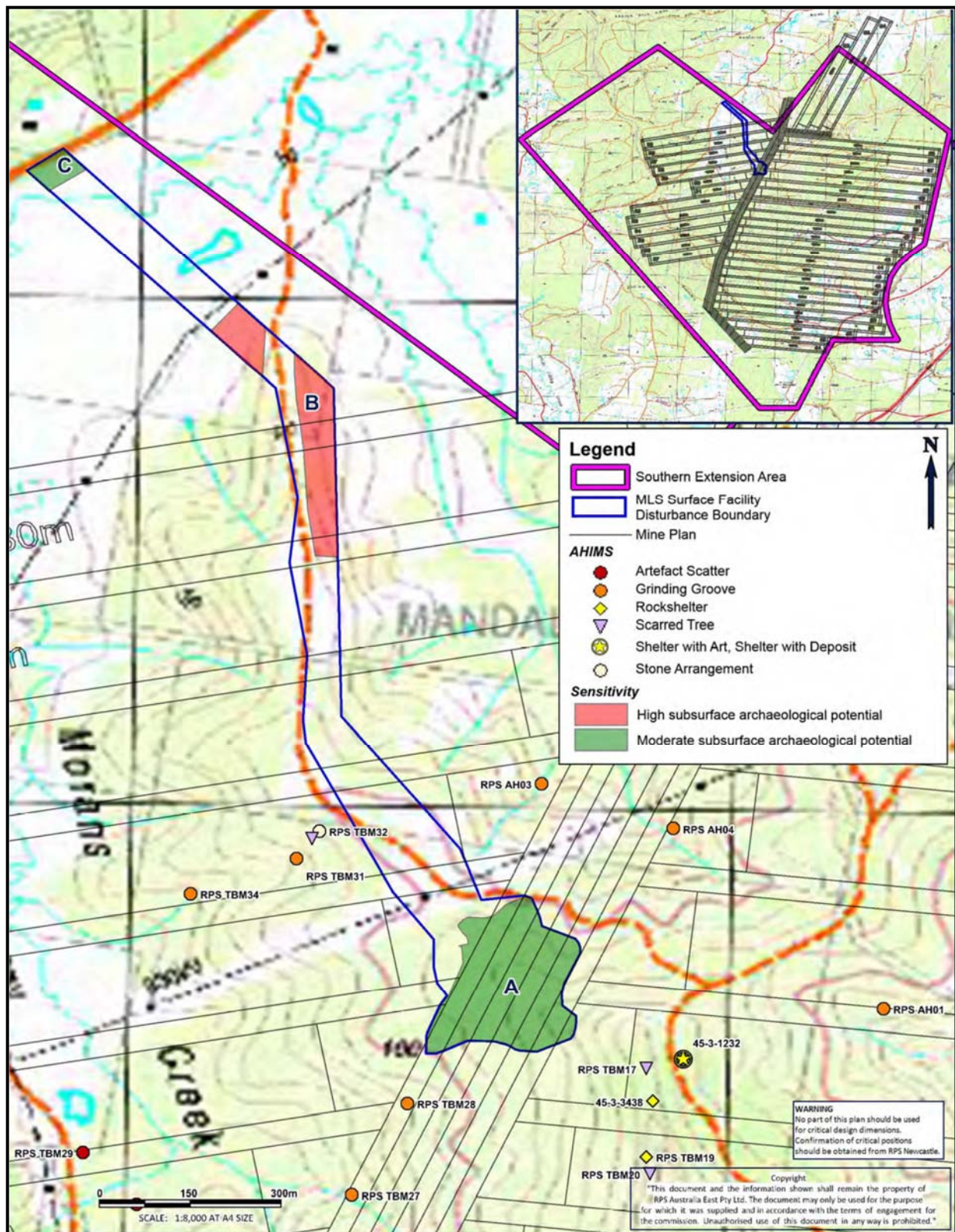


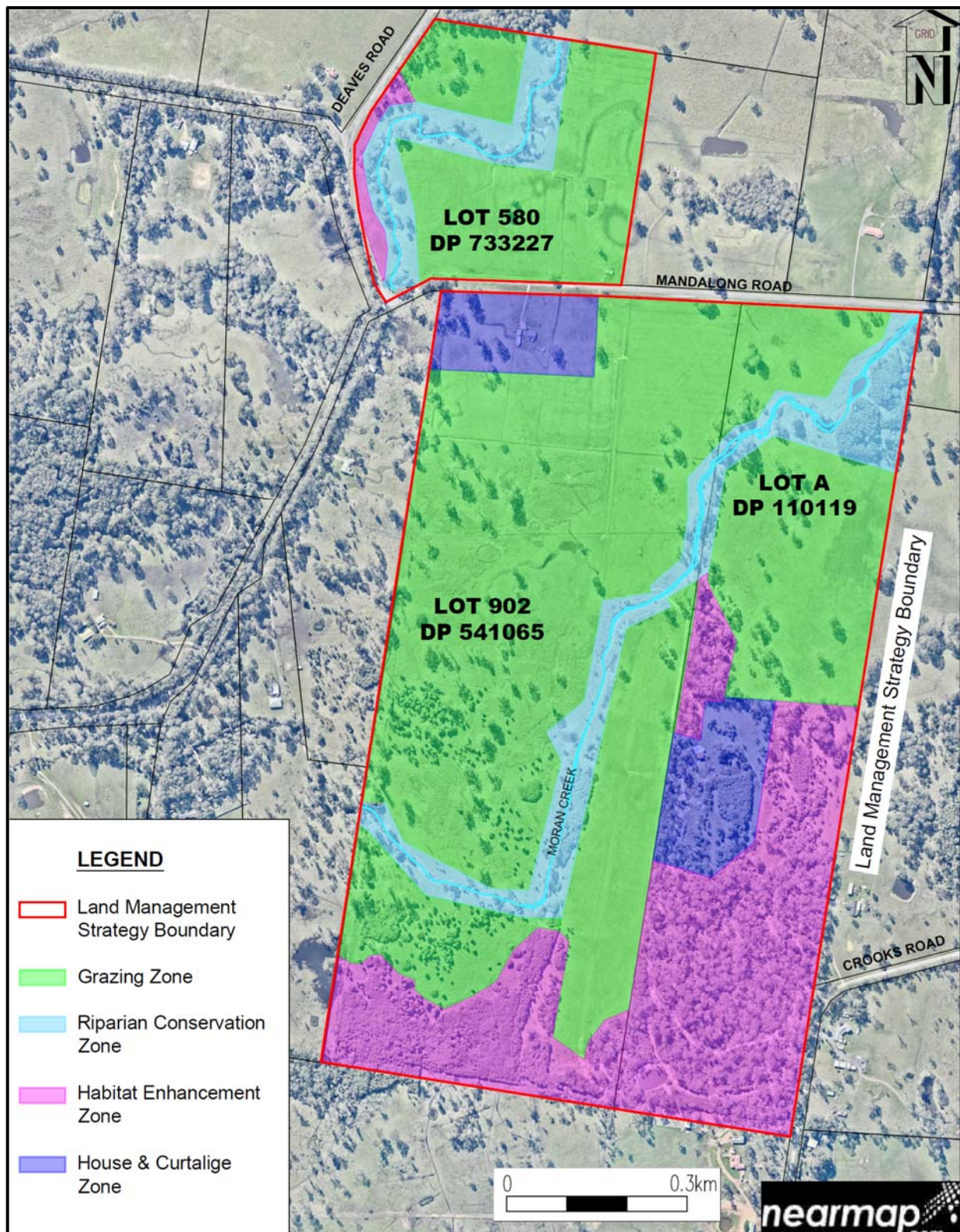
Figure 2: Areas of the MSSH subject to additional archaeological survey

**Table 1:** *Registered Aboriginal Parties*

Awakabal Descendants Traditional Owners Aboriginal Corporation
Awakabal Traditional Owners Aboriginal Corporation
Bahtabah Local Aboriginal Land Council
Biraban Local Aboriginal Land Council
Cacatua Culture Consultants
Darkinjung Local Aboriginal Land Council
Guringai Tribal Link
Wonn 1
Yula-Punaal Education and Healing Aboriginal Corporation

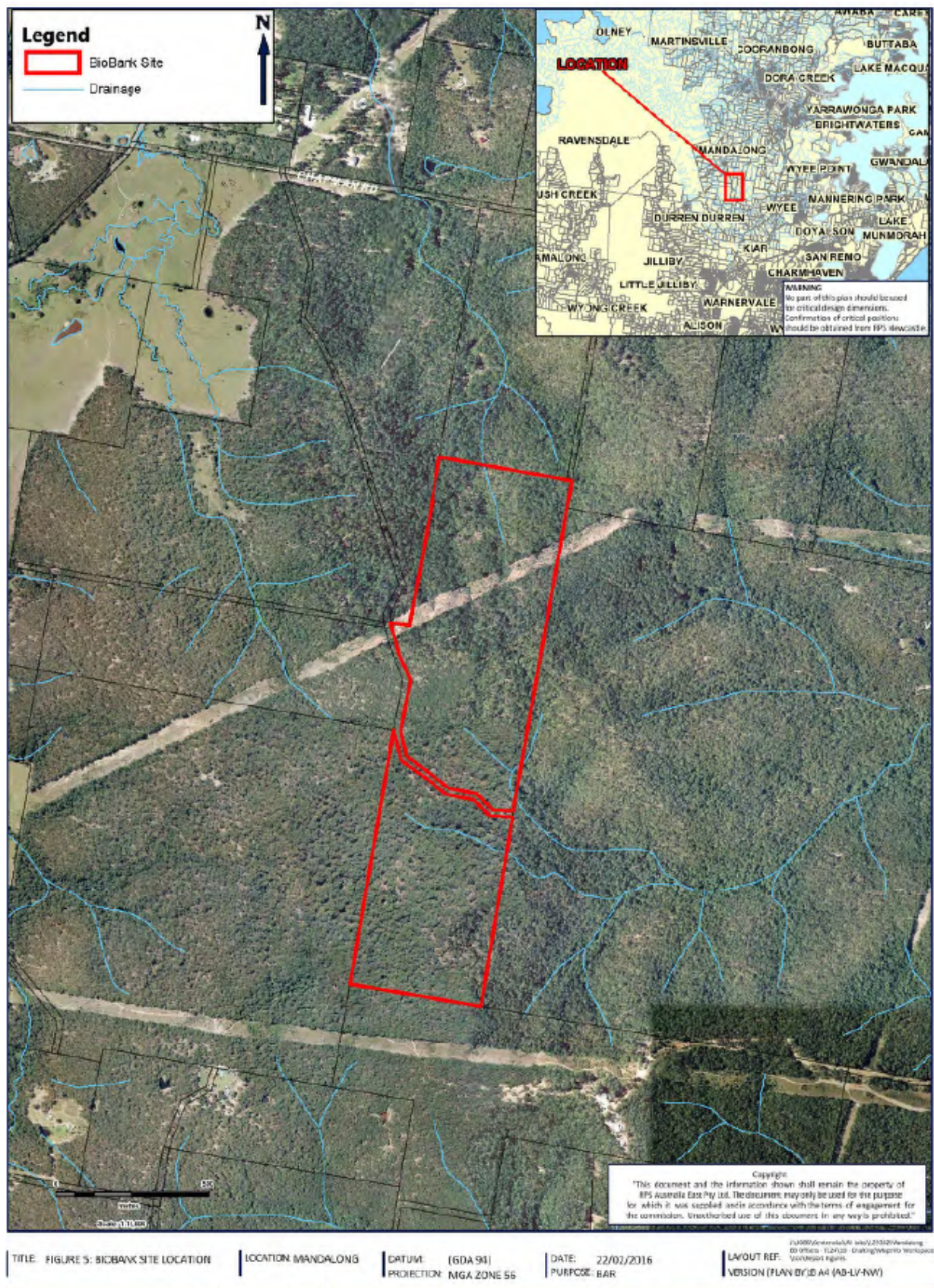


## APPENDIX 7: LAND MANAGEMENT STRATEGY



*Figure 1: Land Management Strategy*





## APPENDIX 8: APPLICANT'S STATEMENT OF COMMITMENTS

Desired Outcome	Commitment/Action
	<b>Construction Management</b>
Minimise impacts from construction activities from the Mandalong South Surface Site on the environment and sensitive receivers.	<p>Six months prior to the commencement of construction activities at the Mandalong South Surface Site (MSSS), Centennial Mandalong will develop a Construction Environmental Management Plan for the construction phase of the Mandalong South Surface Site and access road. The Construction Environmental Management Plan will ensure:</p> <ul style="list-style-type: none"> <li>• That vegetation to be removed is clearly marked using temporary fencing (flagging tape or similar) to delineate boundaries and minimise the potential for equipment to accidentally enter areas to be retained.</li> <li>• That vegetation adjacent to the disturbance footprint of the proposed Mandalong South Surface Site and access road is fenced (fauna friendly fencing) prior to construction activities to reduce damage from uncontrolled or accidental access.</li> <li>• That material stockpiles are established within already disturbed areas and not within areas of retained vegetation.</li> <li>• Appropriate topsoil management including: <ul style="list-style-type: none"> <li>– Topsoil will be maintained in a slightly moist condition during stripping, and material will not be stripped in either an excessively dry or wet condition.</li> <li>– Stripping will be timed to take place in unison with any vegetation clearing activity. If planning to mix groundcover/grass with the soil (i.e. not removing groundcover prior to soil stripping), a weed assessment will be undertaken prior to stripping.</li> <li>– Where possible, grading or pushing soil into windrows with graders or dozers for later collection will be undertaken as a preferential less aggressive soil handling systems.</li> <li>– The surface of soil stockpiles will be left coarsely structured (as much as possible) in order to promote infiltration and minimise erosion until vegetation is established, and to prevent anaerobic zones forming.</li> <li>– Topsoil stockpiles will generally be maintained no higher than three metres.</li> <li>– If long-term stockpiling is planned (i.e. greater than three months), the stockpiles will be seeded and fertilised as soon as possible. An annual cover crop species that produces sterile florets or seeds will be sown. A rapid growing and healthy annual pasture sward will provide sufficient competition to minimise the emergence of undesirable weed species. The annual pasture species will not persist in the rehabilitation areas, however will provide sufficient competition for emerging weed species and enhance the desirable micro-organism activity in the soil.</li> <li>– Prior to re-spreading stockpiled topsoil, an assessment of weed infestation on stockpiles will be undertaken to determine if individual stockpiles require herbicide application and / or 'scalping' of weed species prior to topsoil spreading.</li> </ul> </li> <li>• That clearing activities are timed, where possible, to avoid removal of hollow-bearing trees during breeding season of threatened species.</li> <li>• That a specialist ecologist is engaged to supervise vegetation clearing and ensure vegetation clearing, particularly the removal of hollow-bearing trees, is undertaken as outlined in this EIS.</li> <li>• Noise impacts are minimised with mitigation measures included in the Noise Management Plan.</li> <li>• Air quality impacts are minimised with mitigation measures included in the Air Quality and Greenhouse Gas Management Plan.</li> <li>• Traffic impacts are minimised by covering loads of bulk material haulage trucks travelling to and from the proposed MSSS and included in the Construction Traffic Management Plan.</li> </ul> <p>A copy of the Construction Traffic Management Plan will be provided to Lake Macquarie City Council for review and comment on construction traffic management prior to the commencement of construction activities.</p>
	Rock hammering activities will be undertaken in areas that are away from the majority of residences and limited to between 8.00 am and 4.00 pm Monday to Friday and between 9.00 am and 1.00 pm on Saturdays (no rock hammering on Sundays or public holidays).
	Where necessary, and in consultation with potentially affected residents, temporary noise barriers will be established and maintained.
	To provide acoustic shielding for the shaft sinking activity at the Mandalong South Surface Site, a temporary barrier measuring seven metres high and 20 metres long will be installed at a distance of 20 metres from the drill rig at the intake shaft site (see <b>Figure 54</b> of the EIS).



Desired Outcome	Commitment/Action
	In exceptional circumstances, Centennial Mandalong will include in the Construction Environmental Management Plan the consideration of (a) installing double glazing, (b) subsidising residents to relocate during noisy periods and (c) residents with existing medical conditions.
<b>Exploration Drilling</b>	
Enable Centennial Mandalong to conduct exploration activities in an environmentally responsible manner with due consideration to the community	Due-diligence field inspections and targeted surveys of proposed drill sites and access tracks will be undertaken by a qualified ecologist prior to commencement of works to ensure the potential for localised issues are minimised and, where necessary, appropriately managed.
	Prior to the commencement of works, Centennial Mandalong will ensure that the <i>Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales</i> (DECCW 2010) is followed prior to the commencement of works. Proposed drill sites and access tracks will be inspected according to the protocols in the approved ACHMP.
	Consultation with potentially noise affected landholders will be undertaken in accordance with a Stakeholder Engagement Strategy in which all neighbouring landholders and any residents within 450 metres of a drill rig are notified of the timing, location and anticipated duration of the exploration drilling activities. Where drilling is to be undertaken in close proximity of residents, noise mitigation measures will be implemented.
	Specific bushfire risk treatment actions will be implemented, including: <ul style="list-style-type: none"> <li>No drilling will be conducted on total fire ban days;</li> <li>Fire fighting equipment will be kept on active sites at all times; and</li> <li>Hot work activities will be required to obtain internal work permits.</li> </ul> Access provisions to each drill site will be identified prior to commencement of works.
	Upon completion of exploration activities, all boreholes and surface disturbance will be sealed and rehabilitated in accordance with the appropriate guidelines at the time.
<b>Mining Operation</b>	
Continue mining operations of the Mandalong Mine	Centennial Mandalong will continue to extract ROM coal at a rate of up to 6 Mtpa.
	Centennial Mandalong will continue to operate Mandalong Mine 24 hours a day, seven days per week.
<b>Environmental Management and Reporting</b>	
Enable Centennial Mandalong to manage its operations in an environmentally appropriate manner	Centennial Mandalong will review and update the Mandalong Mine Environmental Management Strategy (EMS), including issue-specific environmental management plans and monitoring programs. The review will take into consideration the environmental assessments undertaken as part of this EIS, the commitments made in this EIS and all relevant consent conditions.
	Centennial Mandalong will include a process to review the groundwater, surface water and flood models as part of the Water Management Plan.
	Centennial will consult with NSW Fisheries in the development of the Water Management Plan.
Enable Centennial Mandalong to meet its statutory reporting obligations	Centennial Mandalong will continue to report environmental monitoring results on Centennial's website in accordance with the POEO Act requirements.
	Each year, Centennial Mandalong will prepare an Annual Review, which will report environmental monitoring results and evaluate performance for the previous 12 month period, to be distributed to the relevant government agencies and the Mandalong Mine Community Consultative Committee.
<b>Subsidence Monitoring and Management</b>	
Manage subsidence associated with coal extraction from Mandalong Mine	Six months prior to the development of longwall 25, Centennial Mandalong will prepare the first Extraction Plan to manage subsidence associated with the proposed mining in the Southern Extension Area.
	As part of the development of each Extraction Plan, Centennial Mandalong will update the Public Safety Management Plan and Built Features Management Plans in consultation with the relevant infrastructure owners.
<b>Soil and Land Capability</b>	
Appropriate management of topsoil during	Centennial Mandalong will incorporate soil stripping, handling, stockpiling and transportation management activities into the Construction Environmental Management Plan for the Mandalong South Surface Site.

Desired Outcome	Commitment/Action
construction activities	Centennial Mandalong will ensure that soils in the Wyong Soil Landscape Unit are not disturbed as a result of construction activities so that they do not pose a risk to Acid Sulphate Soil mobilisation.
Managing topsoil resources for future rehabilitation uses	During construction of the Mandalong South Surface Site, Centennial Mandalong will develop and maintain a soil inventory to keep track of topsoil materials available for planned rehabilitation activities.
<b>Groundwater</b>	
Minimise and monitor groundwater impacts on the environment and registered water users	For each Extraction Plan, Centennial Mandalong will include in the Water Management Plan (Condition 6 of Schedule 4) the following: <ul style="list-style-type: none"> <li>Proposed locations of nested monitoring bores at locations where the depth of cover is less than 250 metres. This is primarily throughout the north-eastern extent within the Wyee Creek and Mannering Creek catchments. It is intended to install three monitoring bores (nested) above each of the proposed longwall panels (2 years prior to mining and pending landholder granting access) where the depth of cover is less than 250 metres to monitored groundwater levels, pH and electrical conductivity. Monitoring will continue for a period of 2 years following the completion of mining in the subsequent adjacent panel.</li> <li>Groundwater monitoring bores and/or vibrating wire piezometers within the Southern Extension Area to monitor the height of groundwater depressurisation prior to extraction of longwalls with lower depth of cover. An adaptive management approach will be adopted to ensure that if there is a risk of fracturing extending up to alluvial aquifers (based on monitoring data) actions will be taken to mitigate these impacts.</li> <li>Installation of groundwater monitoring bores within areas of groundwater dependant ecosystems.</li> <li>Monitoring of bore GW078601, which is the only registered water supply bore within the Southern Extension Area, subject to landowner approval.</li> </ul>
	Centennial Mandalong will commit to implement "make good provisions" to any water supply work where the drawdown impacts exceed the 2 metre criteria as specified in the NSW Aquifer Interference Policy.
	Each year, Centennial Mandalong will engage a specialist to undertake an analysis of alluvial groundwater levels to identify non-rainfall related trends.
	During construction of the shafts at the Mandalong South Surface Site and where blind boring techniques are employed, Centennial Mandalong will ensure groundwater loss is limited by minimising the construction time and the time that the shafts are unlined. Centennial Mandalong will also use non-hazardous polymer drilling muds during boring to reduce the flow of groundwater into the hole.
<b>Surface Water</b>	
Monitor surface water impacts on the environment	For each Extraction Plan, Centennial Mandalong will include in the Water Management Plan (Condition 6 of Schedule 4) the following: <ul style="list-style-type: none"> <li>Monitoring of the watercourses within the Southern Extension Area to be undermined, particularly in locations identified as potential scouring points, to evaluate watercourse stability. Monitoring will be undertaken before and after undermining of the areas, with additional inspection of these locations following significant rainfall events.</li> <li>Surface water quality monitoring at the same locations within the Southern Extension Area used to gather background information.</li> <li>Continuous stream flow monitoring on Morans Creek, Mannering Creek, and Wyee Creek will be undertaken 2 years prior to mining and for 2 years after the completion of mining the adjacent longwall panel.</li> <li>TARPs for the management of subsidence impacts on watercourses in consultation with relevant government agencies.</li> </ul>
Manage impacts to waterways as a result of ongoing operations within the Project Application Area	Centennial Mandalong will undertake any works within watercourses and on the floodplain in accordance with the <i>Guidelines for Controlled Activities on Waterfront Land (2012)</i> .
<b>Water Management</b>	
Appropriate management and discharge of mine	If the quality of mine water collected in the Borehole Dam is not suitable for discharge from the Cooranbong Entry Site, the water will be pumped back underground for recirculation

Desired Outcome	Commitment/Action
water at Cooranbong Entry Site	<p>(additional filtration and sediment settlement) through the Cooranbong Colliery goaf storage area before returning to the Borehole Dam.</p> <p>The storage volume of the Borehole Dam at the Cooranbong Entry Site will be increased to increase the settling capacity. In addition baffles will be retrofitted in the Borehole Dam to provide increased residence time and a flocculent will be introduced.</p> <p>Aquatic macroinvertebrate monitoring and sediment sampling will be undertaken every six months (spring and autumn).</p>
<b>Flora and Fauna</b>	
Minimise impacts to ecology within the Southern Extension Area	As part of the detailed design phase for the Mandalong South Surface Site, Centennial Mandalong will ensure that that proposed access road is aligned to minimise disturbance and avoid removal of any <i>M. biconvexa</i> specimens.
	Centennial Mandalong will implement a vegetation condition monitoring programme 2 years before, during and 2 years after completion of mining in the adjacent longwall panel in sensitive environments (which will include floodplains and groundwater dependant ecosystems).
	As part of the construction activities at the Mandalong South Surface Site, a wheel wash will be installed to help prevent soil-borne disease (Phytophthora), pathogenic fungus (Myrtle Rust) transmission and weed seed dispersal.
	<p>Centennial Mandalong will develop a Biodiversity Management Plan that includes:</p> <ul style="list-style-type: none"> <li>• Identification of weed management, monitoring and control practices to minimise the spread of exotic species.</li> <li>• Incorporation of the existing Wetland Management Plan.</li> <li>• Trigger Action Response Plan.</li> </ul>
Offset the ecological impacts of the Project	<p>Centennial Mandalong will install nest boxes to compensate for the loss of 9 hollow bearing trees containing 18 habitat hollows as a result of the construction of the MSSS.</p> <ul style="list-style-type: none"> <li>• Nest boxes will be installed at a ratio of 1:1 (i.e. one nest box for every habitat hollow removed).</li> <li>• A mixture of nest box types are used to compensate for the variety of hollows being removed.</li> <li>• Nest box sizes will target microbats, gliders and possums.</li> <li>• All nest boxes will be rear entry.</li> <li>• The majority of nest boxes will be placed at a westerly aspect to maximize chances of colonization.</li> <li>• Standard nest box design (i.e. single walled nest boxes) will be used rather than double walled nest boxes as previous monitoring has identified a sharper uptake of animals in single-walled nest boxes.</li> </ul>
<b>Aboriginal Heritage</b>	
Monitor, mitigate and manage impacts to Aboriginal heritage sites	Centennial Mandalong will update the Centennial Northern Holding's ACHMP (in consultation with the relevant government agencies and registered Aboriginal parties) to take into consideration the commitments made in the EIS and any relevant consent conditions.
	Immediately prior to and during construction of the Mandalong South Surface Site, Centennial Mandalong will ensure that a combination of silt and protective fencing is installed to ensure that run-off does not impact Aboriginal sites down slope of this area and that Aboriginal sites upslope are not inadvertently impacted by construction activities.
	Centennial Mandalong will develop a cultural heritage awareness component of the induction for contractors involved in the construction activities in consultation with the Aboriginal community.
	Centennial Mandalong will ensure all employees and contractors working within the Southern Extension Area are made aware of their statutory obligations for Aboriginal heritage under the NPW Act 1974 as part of the site induction process.
Offset the Aboriginal heritage impacts of the Project	Within 12 months following development consent, Centennial Mandalong will formalise an agreement to authorise the local Aboriginal community access to suitable areas within its land holdings in the Southern Extension Area that contain Aboriginal cultural heritage sites.
<b>Non-Indigenous Heritage</b>	

Desired Outcome	Commitment/Action
Minimise impacts to items of European heritage	Six months prior to the commencement of construction activities associated with the Mandalong South Surface Site, Centennial Mandalong will ensure that the Landing Skid 2 is recorded by a qualified historical archaeologist.
	In the event that any additional non-Indigenous cultural heritage material is identified or uncovered during construction and/or exploration works, Centennial Mandalong will ensure that any surface works in the area ceases and will contact a heritage consultant to assess the condition of the item. Centennial Mandalong will adopt the appropriate mitigation measures, as provided by the heritage consultant, before recommencement of work.
	Centennial Mandalong will ensure that all employees and contractors working within the Southern Extension Area will be made aware of their statutory obligations for non-Indigenous heritage under the <i>NSW Heritage Act 1977</i> as part of the site induction process.
<b>Air Quality</b>	
Monitor air quality impacts	<p>Centennial Mandalong will update the Air Quality and Greenhouse Gas Management Plan to include the following:</p> <ul style="list-style-type: none"> <li>• Additional deposited dust gauges around the proposed Mandalong South Surface Site for both the construction and operational phases.</li> <li>• A PM10 and PM2.5 monitoring system, which will be used for model verification purposes and particulate management at the Mandalong Mine Access Site.</li> </ul> <p>The optimal location for these additional monitoring activities, along with the method and frequency of the monitoring activities, will be determined in consultation with a suitably qualified consultant.</p>
Mitigate air quality impacts	The fan evasée at the Mandalong South Surface Site will be designed and constructed to face away from nearby surrounding residential receivers.
	The proposed MSSS access road will be sealed.
	All trucks carrying bulk materials (gravel, sand etc.) to the MSSS will have their loads covered.
Understand the source of particulate matter	Within six months following development consent, Centennial Mandalong will commission additional studies to establish the source of the particulate matter entering the mine and the contribution of this to the total emissions from the ventilations fans at the Mandalong Mine Access Site. These studies will inform the need for and scope of mitigation measures and management strategies considered necessary to address particulate matter emission from the ventilation fans.
<b>Greenhouse Gas</b>	
Reduce energy and diesel usage	<p>Centennial Mandalong will update the existing Energy Savings Action Plan to include:</p> <ul style="list-style-type: none"> <li>• Use of power factor correction units at the Mandalong South Surface Site, which will improve the efficiency of the electrical power used in the underground workings and hence reduce the overall power consumption.</li> <li>• Underground storage/goaf areas will be used in the management of mine water to enable filtration and sediment settlement prior to the water being pumped to the surface. This will reduce energy losses through the ability to pump cleaner water with the use of high efficiency positive displacement pumps.</li> <li>• Bulk storage tanks/silos and boreholes will be installed at the Mandalong South Surface Site for the delivery of stone dust, concrete and ballast direct to the underground mine workings. This will result in significant diesel fuel savings by avoiding the transport of such materials via the decline tunnel.</li> </ul>
Mitigate greenhouse gas emissions from the Project	Centennial Mandalong will progress the construction and commissioning of the gas flares, along with evaluating the electricity potential and capacity of the gas engines, at the Mandalong Mine Access Site to reduce greenhouse gas emissions.
	Centennial Mandalong will continue the trial of the VAM-RAB unit currently being constructed at the Mandalong Mine Access Site in order to determine whether it is a viable strategy for VAM abatement in the future.
	Centennial Mandalong will pay the relevant price per tonne of CO <sub>2</sub> -e (carbon tax), depending on the year the liability is incurred, or purchase offsets. Where offsets are available and considered cost-effective, Centennial Mandalong will purchase only from registered suppliers under the relevant domestic or international certification scheme (the latter from July 2015 onwards).
<b>Noise</b>	

Desired Outcome	Commitment/Action
Monitor noise impacts from the Project	Centennial Mandalong will update the existing Noise Management Plan to include quarterly operator-attended noise monitoring at and around the Mandalong South Surface Site.
<b>Traffic</b>	
Provide suitable and safe vehicle access to the Mandalong South Surface Site from Mandalong Road	<p>As part of the detailed design phase for the Mandalong South Surface Site, Centennial Mandalong will ensure:</p> <ul style="list-style-type: none"> <li>The access intersection from Mandalong Road to the proposed Mandalong South Surface Site is designed to be constructed as an at-grade (two roadways joining at the same level) BAR/CHL intersection (basic right turn treatment / channelised left turn) providing a left turn turning lane into the site.</li> <li>The intersection is designed in accordance with Guide to Road Design Part 4A – Design of Unsignalised and Signalised Intersections (Austroads 2009).</li> <li>That LMCC are consulted regarding the final location of the intersection.</li> </ul> <p>Appropriate sight distances along Mandalong Road and appropriate turning templates for heavy vehicles are achieved.</p>
Identify and address any impact on road pavements as a result of construction	Within 3 months of completion of construction activities at the Mandalong South Surface Site, Centennial Mandalong, in consultation with LMCC, will undertake a road dilapidation review to identify areas of road pavement deterioration requiring maintenance treatment that could be directly attributed to the construction activities. These areas will be rehabilitated to Council's satisfaction by Centennial Mandalong.
<b>Visual Amenity</b>	
Minimising visual impacts from the Mandalong South Surface Site	During construction of the Mandalong South Surface Site, Centennial Mandalong will ensure that, wherever possible, infrastructure items are dark in tone and constructed of non-reflective materials.
	Within six months of construction activities at the Mandalong South Surface Site being completed, Centennial Mandalong will undertake landscape works, including along the proposed MSSS access road, such as shrub and tree planting, to increase the level of existing screening.
<b>Bushfire</b>	
Provide safe egress in the event of a bushfire	During construction of the Mandalong South Surface Site, Centennial Mandalong will establish an alternative egress route from the Mandalong South Surface Site and ensure it has a carrying capacity exceeding 15 tonnes.
Reduce risk of injury to personnel at the Mandalong South Surface Site in the event of a bushfire	Prior to commissioning the operation of the Mandalong South Surface Site, Centennial Mandalong will provide a safe place or fire bunker at the Mandalong South Surface Site to address the potential for an employee/contractor/visitor to be trapped at the surface site and unable to evacuate via the access road or alternate egress route.
Reduce risk to Centennial Mandalong infrastructure and local landholders' properties from bushfire	Within six months following development consent, Centennial Mandalong will review and update the existing Emergency Management System to incorporate the findings and conclusions of the bushfire risk assessment (Ecobiological 2013), the commitments made in the EIS and all relevant consent conditions.
	Subject to approval from the NSW Rural Fire Service, Centennial Mandalong will engage a specialist to undertake mosaic burns of forest vegetation outside of the designated APZ on a cyclic basis to reduce overall fuel loads approaching the APZ.
	<p>Within three months of the completion of construction activities, Centennial Mandalong will establish the following Asset Protection Zones (APZs) in order provide a defensible space around infrastructure and avoiding flame contact and radiant heat exceeding 40 kilowatts per square metre:</p> <p>Mandalong Mine Access Site – an APZ will be established around the gas drainage and ventilation management infrastructure to the following distances - 20 metres to the north, south and west; and 10 metres to the east.</p> <p>Mandalong South Surface Site – an APZ will be established around the infrastructure to the following distances – 45 metres to the north and south; 20 metres to the east; and 30 metres to the west.</p> <p>Fuel reduction will be undertaken within these APZs by regular grass slashing, weed control, reducing tree canopy cover to less than 30 percent, lopping tree branches within three metres of ground fuels, reducing the shrub layer density to less than 20 percent, and removing timber piles and combustible materials.</p>

Desired Outcome	Commitment/Action
	<p>Within six months following development consent, Centennial Mandalong will extend the water supply system at the Mandalong Mine Access Site to include reticulated water supply and hydrant access in the area containing the gas drainage and ventilation infrastructure.</p> <p>Prior to commissioning the operation of the Mandalong South Surface Site, Centennial Mandalong will ensure the Mandalong South Surface Site has a dedicated water supply of greater than 20,000 litres for bushfire protection. This supply will be connected to a hydrant system or a stand pipe with suitable truck access.</p> <p>Centennial Mandalong will ensure buildings that contain combustible infrastructure include ember protection similar to the relevant standards in the <i>Australian Standard AS3959-2009 – Construction of Buildings in Bushfire-Prone Areas</i>. This will generally involve sealing or screening areas with gaps greater than 3 millimetres.</p>
<b>Dangerous Goods</b>	
Provide safe storage, handling and disposal of dangerous goods	Within six months following development consent, Centennial Mandalong will review and update the existing Emergency Management System and Pollution Incident Response Management Plan to incorporate the Project, the commitments made in this EIS and all relevant consent conditions.
<b>Social</b>	
Continue to engage with stakeholders	Within six months following development consent, Centennial Mandalong will update the existing Stakeholder Engagement Strategy to provide a consistent management framework for the identification and consultation with stakeholders that have an interest in the mine.
Meet Centennial's corporate social responsibility objectives	<p>Centennial Coal has established, in consultation with LMCC, a Morisset / Mandalong Community Fund with The Lake Macquarie Foundation.</p> <p>Centennial Coal has committed the following:</p> <ul style="list-style-type: none"> <li>(a) \$50,000 upon the granting of the Development Consent; and</li> <li>(b) \$50,000 on each anniversary of the granting of the Development Consent until the total amount given by the Donor is \$500,000.</li> </ul> <p>The above payments are subject to the Mandalong Mine operating and any annual payment otherwise due will be reduced proportionally to reflect any period during which the Mandalong Mine is not operating.</p> <p>The Lake Macquarie Foundation will distribute the income from the fund:</p> <ul style="list-style-type: none"> <li>(a) to worthy community organisations in the Morisset and Mandalong areas; and</li> <li>(b) after consultation with a representative from each of the Morisset and Mandalong communities.</li> </ul>
<b>Post-Mining Closure and Rehabilitation</b>	
Rehabilitate the mine to an agreed final land use	<p>Within five years of mine closure, Centennial Mandalong will prepare a detailed Mine Closure Management Plan with the aim of creating a land use capability compatible with the pre-mining land use (unless other beneficial uses are pre-determined and agreed). In addition to addressing the removal of surface infrastructure, the Plan will include:</p> <ul style="list-style-type: none"> <li>• Rehabilitation of disturbed areas including spreading of stockpiled topsoil accordance with commitments in this EIS, revegetation using locally occurring native plant species, and rehabilitation of disturbed land to a condition that is self-sustaining or where maintenance requirements are consistent with an agreed post-mining land use; and</li> <li>• Final rehabilitation success criteria.</li> </ul>

### Mod 1 – Mandalong Transmission Line TL24 Relocation Project

Category	Commitment/Action
General	<p>Prior to commencement of construction activities for the Project, a Construction Environmental Management Plan (CEMP) will be developed. The CEMP will address mitigation and management actions identified for the relevant environmental values.</p> <p>TransGrid's existing Environmental Management System and supporting policies and procedures are in place for the operation and maintenance of TL24.</p>
Ecology	<p>A Flora and Fauna Management Plan will form an Appendix to the CEMP. This plan will include:</p> <ul style="list-style-type: none"> <li>• Unnecessary vegetation clearing will be avoided by marking the clearing limit with flagging tape;</li> <li>• All contractors will be advised of the designated work area through a site induction</li> </ul>



Category	Commitment/Action
	<p>process;</p> <ul style="list-style-type: none"> <li>• Vehicles/machinery will use designated access tracks. Speeds will be limited to 40 kilometres per hour to reduce the potential of fauna strike and to reduce dust generation;</li> <li>• Measures will be implemented as required to prevent the spread of weeds and potential importation of Phytophthora;</li> <li>• Where possible, clearing activities should be timed to avoid removal of hollow-bearing trees during breeding season of threatened species (avoiding winter and spring); and</li> <li>• A suitably qualified person is to be present to supervise hollow-bearing tree clearing within the impact area.</li> </ul> <p>Lot 152 DP 755238 will be included in the Mandalong Mine Land Management Strategy to offset the impacts of vegetation clearing for the Project.</p>
Erosion and Sediment Control	<p>An Erosion and Sediment Control Plan (ESCP) will form an Appendix to the CEMP. The ESCP will identify works as necessary to ensure the required protection is given to downslope lands and waterways. The ESCP will specifically address:</p> <ul style="list-style-type: none"> <li>• Tunnel soil erosion; and</li> <li>• Mitigation and management measures in accordance with Managing Urban Stormwater: Soils and Construction – Vol 1 (Landcom, 2004) – also known as the 'Blue Book'.</li> </ul>
Traffic	<p>A Construction Traffic Management Plan will form an Appendix to the CEMP to address the impacts of the construction works on the local road network.</p> <p>Construction traffic will not exceed 79 vph.</p>
Heritage	<p>The CEMP will include the following:</p> <ul style="list-style-type: none"> <li>• 'No go zone' to be established at sites AHIMS#45-3-1227, AHIMS#45-3-3534, AHIMS#45-3-3539, AHIMS#45-3-3541 and AHIMS#45-3-3540 for the duration of the proposed works;</li> <li>• If unrecorded Aboriginal objects are identified in the TL24 Easement during future works, all works in the immediate area must cease and the area should be cordoned off as appropriate with high visibility tape. OEH must be notified via the Enviroline (131 555) so that the site can be adequately assessed and managed;</li> <li>• If skeletal remains are identified all work must cease in the immediate area to prevent any further harm to the remains. Local NSW Police must be contacted immediately. No action is to be undertaken until police provide written notification. If the remains are identified as Aboriginal, the OEH Enviroline (131 555) must be contacted. No work is to continue until OEH provides written notification about the action plan for the management of the skeletal remains and formulated a management plan if required;</li> <li>• If during the course of development works, suspected historic cultural heritage material is uncovered, work should cease in that area immediately. The OEH Enviroline (131 555) should be notified and works only recommence when an approved management strategy has been developed;</li> <li>• L1 landing skid: If it is not possible to avoid harming the skid, it will be archivally recorded by a qualified historical archaeologist prior to dismantling. The archival recording should be in accordance with How to Prepare Archival Records of Heritage Items (NSW Heritage Office) and Photographic Recording of Heritage Items using Digital Film or Capture (NSW Heritage Office 2006); and</li> <li>• L3 landing skid: The area of the skid will be cordoned off to ensure no inadvertent physical impact.</li> </ul>
Air Quality	<p>The CEMP will include air quality mitigation and management strategies which will include:</p> <ul style="list-style-type: none"> <li>• Standard work procedures to minimise emissions of particulate matter for example maintaining plant and equipment to ensure optimal operating conditions; and</li> <li>• Utilising water sprays/carts to dampen exposed surfaces and trafficable areas including operations near R16 and R20 due to the close proximity of the tower to the residence.</li> </ul>
Noise	<p>The CEMP will include noise mitigation and management strategies which will include:</p> <ul style="list-style-type: none"> <li>• Restrict construction activities to the day-time period as per the NSW Interim Construction Noise Guideline (DECCW, 2009) being Monday to Friday 07:00 to 18:00, Saturday 08:00 to 13:00 and no work on Sundays or public holidays. Exceptions to this include emergency works or delivery of equipment or materials outside of standard hours as requested by police or other authorities for safety reasons. [Noting that there may be a requirement for TransGrid to undertake some stringing or cutting in activities outside of the daytime hours stipulated in the ICNG if any of the required outages on the lines are not possible during normal construction times]; and</li> </ul>

Category	Commitment/Action
	<ul style="list-style-type: none"> <li>• All equipment will be inspected and maintained on a regular basis to ensure good working order; and</li> <li>• Community consultation will be undertaken prior to commencement of construction.</li> </ul>