

METROPOLITAN COAL

ENVIRONMENTAL MANAGEMENT STRATEGY



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Revision Status Register

Section/Page/ Annexure	Revision Number	Amendment/Addition	Distribution	DP&I Approval Date
All	A0	Original	DoP	September 2009
All	A1	Amendments to reflect current Metropolitan Coal Management Plans	DoP	14 November 2011
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January 2013

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1 INTRODUCTION

The Metropolitan Coal Project (the Project) was granted approval (Project Approval) under Part 3A of the *Environmental Planning and Assessment Act, 1979* (EP&A Act) by the Minister for Planning on 22 June 2009. A copy of the Project Approval is available on the Peabody website (<http://www.peabodyenergy.com.au>).

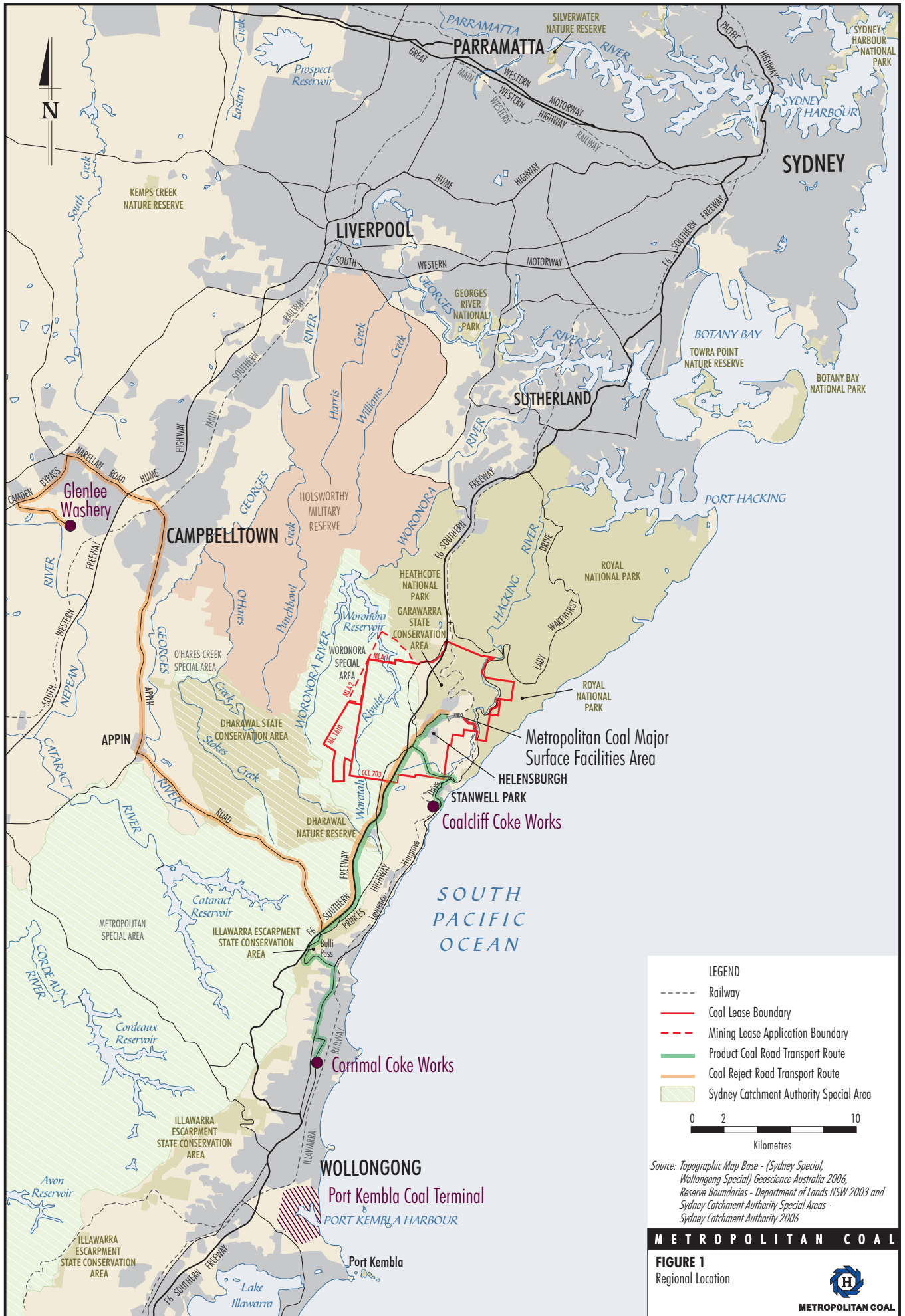
The Project comprises continuation, upgrade and extension of underground coal mining operations and surface facilities at Metropolitan Coal, which is located approximately 30 kilometres (km) north of Wollongong in New South Wales (NSW) (Figure 1). The Approved underground mining Project layout is shown on Figure 2. The extent of the mine's Major Surface Facilities Area is shown on Figure 3.

1.1 PURPOSE AND SCOPE

This Environmental Management Strategy (the EMS) has been developed to provide the strategic framework for environmental management at Metropolitan Coal in accordance with Condition 1, Schedule 7 of the Project Approval. Table 1 indicates where each component of the condition is addressed within this EMS.

**Table 1
EMS Requirements**

Project Approval Condition Requirement	EMS Section
<u>Schedule 7, Condition 1</u>	
<i>The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Director-General. The strategy must:</i>	This document
<i>a) be submitted to the Director-General for approval by the end of September 2009;</i>	-
<i>b) provide the strategic framework for environmental management of the project;</i>	This document
<i>c) identify the statutory approvals that apply to the project;</i>	Section 3
<i>d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;</i>	Section 5
<i>e) describe the procedures that would be implemented to:</i> <ul style="list-style-type: none"> • <i>keep the local community and relevant agencies informed about the operation and environmental performance of the project;</i> • <i>receive, handle, respond to, and record complaints;</i> • <i>resolve any disputes that may arise during the course of the project;</i> • <i>respond to any non-compliance; and</i> • <i>respond to emergencies.</i> 	Section 6.1 Section 6.2 Section 6.3 Sections 7 and 8 Section 9
<i>f) include:</i> <ul style="list-style-type: none"> • <i>copies of the various strategies, plans and programs that are required under the conditions of this approval once they have been approved; and</i> • <i>a clear plan depicting all the monitoring currently being carried out within the project area.</i> 	Section 3.1 Attachment 1



LEGEND

- Railway
- Coal Lease Boundary
- - - Mining Lease Application Boundary
- Product Coal Road Transport Route
- Coal Reject Road Transport Route
- ▨ Sydney Catchment Authority Special Area

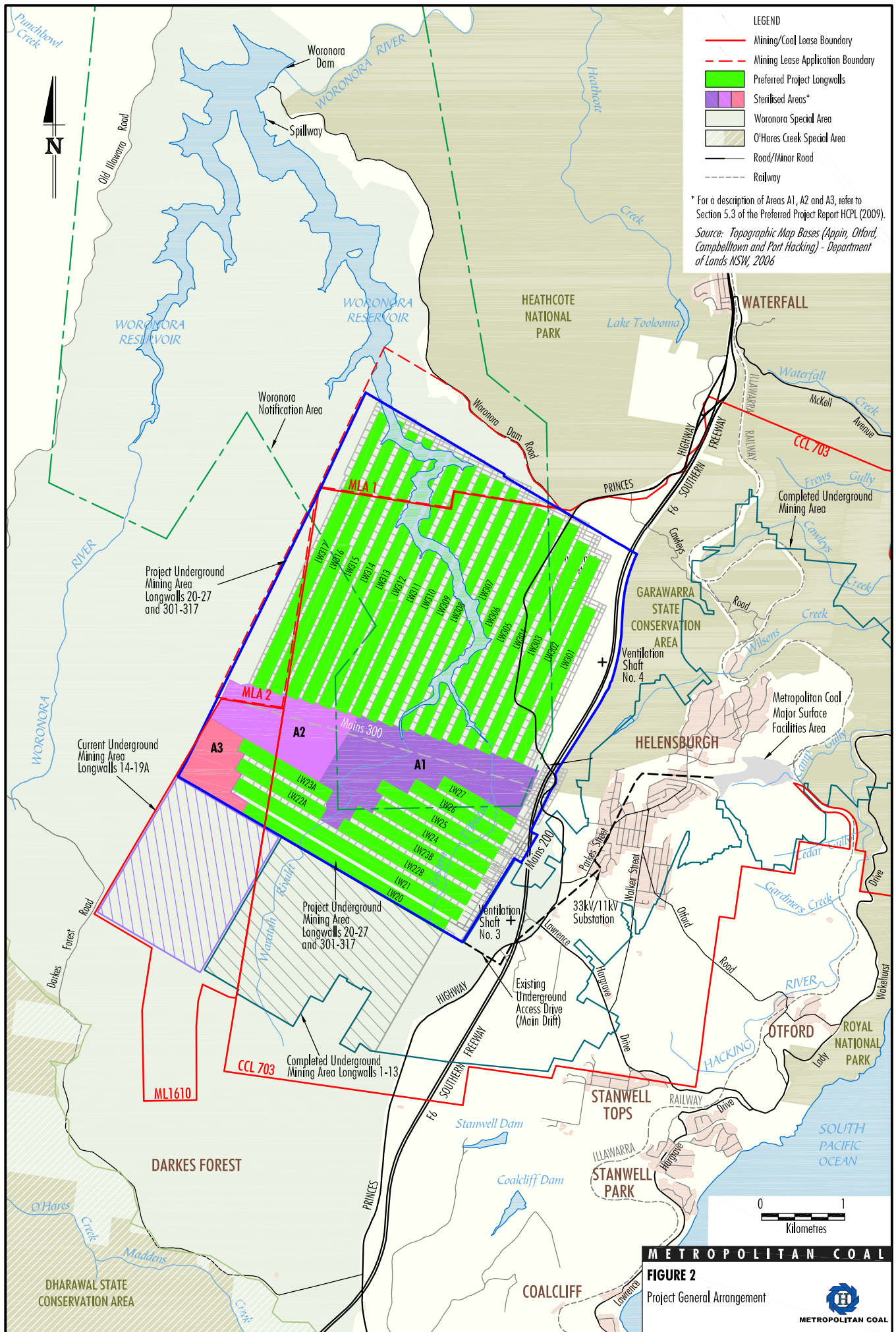
0 2 10
Kilometres

Source: Topographic Map Base - (Sydney Special, Wollongong Special) Geoscience Australia 2006, Reserve Boundaries - Department of Lands NSW 2003 and Sydney Catchment Authority Special Areas - Sydney Catchment Authority 2006

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FIGURE 1
Regional Location

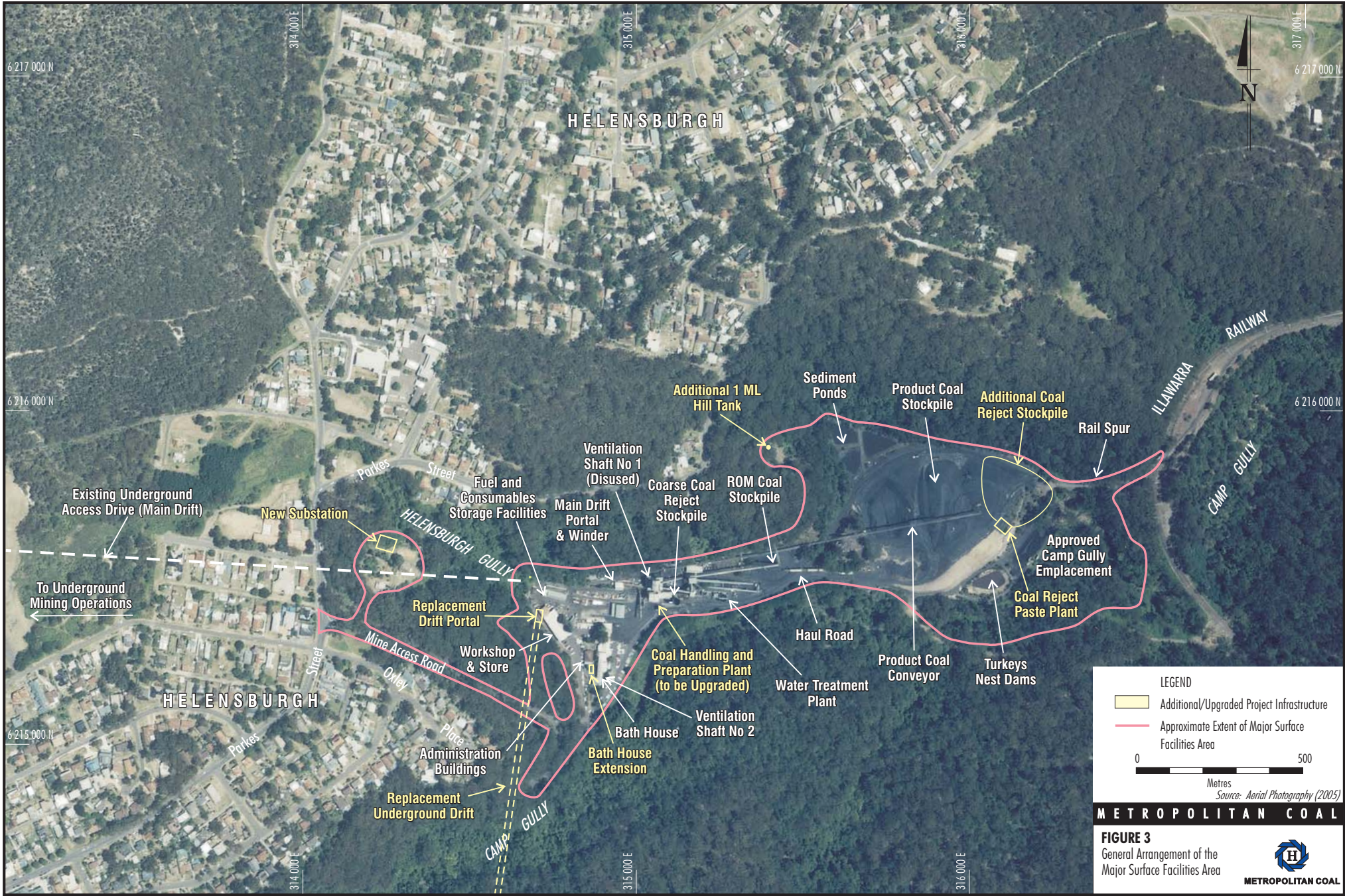
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FIGURE 2
Project General Arrangement

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This EMS has been prepared to assist those undertaking the works at Metropolitan Coal to apply appropriate environmental management measures. Where there is any conflict between the provisions of this EMS and the contractual obligations of any mining contractor, the statutory requirements are to take precedence. In the case of any real or perceived ambiguity between elements of this environmental management strategy and statutory requirements, a contractor shall first request clarification from Metropolitan Coal prior to implementing that element of the EMS over which the ambiguity is identified.

As a public document, this EMS has been developed as an auditable management tool for Metropolitan Coal and government agencies, and provides the community with information relating to environmental management at Metropolitan Coal.

This EMS also sets out the procedures for periodic review and where necessary revision of the EMS, so that it is maintained to reflect current mining operations to the satisfaction of the Director-General of the NSW Department of Planning and Infrastructure (DP&I) (Section 2).

2 EMS REVIEW AND UPDATE

In accordance with Condition 4, Schedule 7 of the Project Approval, this EMS will be reviewed at a minimum of three months following submission of an:

- audit under Condition 8 of Schedule 7;
- incident report under Condition 6 of Schedule 7;
- annual review under Condition 3 of Schedule 7; and

if necessary, revised to the satisfaction of the Director-General of the DP&I, to ensure the EMS is updated on a regular basis and to incorporate any recommended measures to improve environmental performance.

The EMS will also be reviewed within three months of approval of any Project modification and if necessary, revised to the satisfaction of the DP&I.

The revision status of this EMS is indicated on the title page of each copy. The distribution register for controlled copies of the EMS is described in Section 2.1.

2.1 DISTRIBUTION REGISTER

In accordance with Condition 10, Schedule 7 'Access to Information', Metropolitan Coal will make the EMS publicly available on the Peabody website. A hard copy of the EMS will also be maintained at the Metropolitan Coal site.

Metropolitan Coal recognises that the various regulators have different distribution requirements, both in relation to whom documents should be sent and in what format. An Environmental Management Plan and Monitoring Program Distribution Register will be established in consultation with the relevant agencies and infrastructure owners that indicates:

- to whom the Metropolitan Coal plans and programs, such as the EMS, will be distributed;
- the format (i.e. electronic or hard copy) of distribution; and
- the format of revision notification.

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Metropolitan Coal will make the Distribution Register publicly available on the Peabody website.

Metropolitan Coal is responsible for maintaining the Distribution Register and for ensuring that the notification of revisions is sent by email or post as appropriate.

In addition, Metropolitan Coal employees with local computer network access will be able to view the controlled electronic version of this EMS on the Metropolitan Coal local area network. Metropolitan Coal will not be responsible for maintaining uncontrolled copies beyond ensuring the most recent version is maintained on Metropolitan Coal's computer system and the Peabody website.

3 STATUTORY REQUIREMENTS

Metropolitan Coal's statutory obligations are contained in:

- (i) the conditions of the Project Approval;
- (ii) relevant licences and permits, including conditions attached to mining leases: and
- (iii) other relevant legislation.

These are described below.

3.1 EP&A ACT APPROVAL

Condition 1, Schedule 7 of the Project Approval requires the preparation of an EMS to the satisfaction of the Director-General of the DP&I. The Project Approval also requires Metropolitan Coal to prepare numerous environmental management plans and monitoring programs, as outlined in Table 2 below.

The relationship of this EMS to the Metropolitan Coal Environmental Management Structure and to the Metropolitan Coal Longwalls 20-22 Extraction Plan is shown on Figure 4.

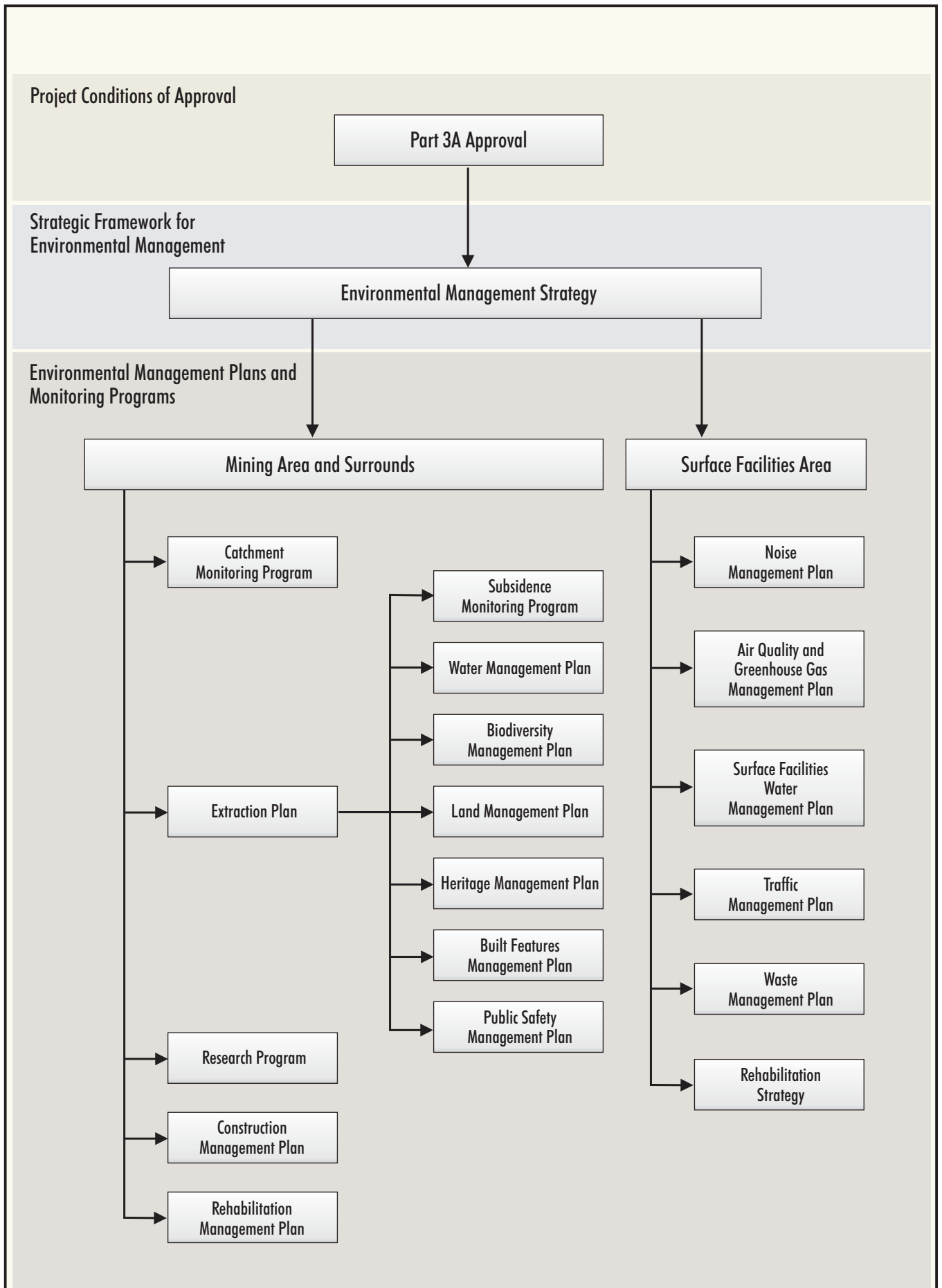
**Table 2
Metropolitan Coal Environmental Management Plans and Monitoring Programs**

Environmental Management Plans and Monitoring Programs	Timing	Consultation/Satisfaction of
Environmental Management Strategy	Submitted by end September 2009	To the satisfaction of the Director-General of the DP&I
Catchment Monitoring Program	Prior to carrying out any second workings in the mining area	Consultation with NOW, SCA and DECCW (now OEH). To the satisfaction of the Director-General of the DP&I
Extraction Plan, incorporating:	Prior to carrying out any second workings in the mining area	To the satisfaction of the Director-General of the DP&I
a) Subsidence Monitoring Program (including a Coal Resource Recovery Plan);	Prior to carrying out any second workings in the mining area	To the satisfaction of NSW I&I – Mineral Resources (now NSW T&I – Mineral Resources)
b) Water Management Plan;	Prior to carrying out any second workings in the mining area	Consultation with DECCW (now OEH), SCA and NOW. To the satisfaction of the Director-General of the DP&I
c) Biodiversity Management Plan;	Prior to carrying out any second workings in the mining area	Consultation with DECCW (now OEH) and NSW I&I (Fisheries) (now NSW T&I [Fisheries]). To the satisfaction of the Director-General of the DP&I

Table 2 (Continued)
Metropolitan Coal Environmental Management Plans and Monitoring Programs

Environmental Management Plans and Monitoring Programs	Timing	Consultation/Satisfaction of
d) Land Management Plan;	Prior to carrying out any second workings in the mining area	Consultation with SCA. To the satisfaction of the Director-General of the DP&I
e) Heritage Management Plan;	Prior to carrying out any second workings in the mining area	Consultation with DECCW (now OEH) and relevant Aboriginal groups. To the satisfaction of the Director-General of the DP&I
f) Built Features Management Plan; and	Prior to carrying out any second workings in the mining area	Consultation with the owner of the relevant feature. To the satisfaction of the Director-General of the DP&I
g) Public Safety Management Plan.	Prior to carrying out any second workings in the mining area	Consultation with NSW I&I – Mineral Resources (now NSW T&I – Mineral Resources) and Dams Safety Committee (for any mining within the Dams Safety Notification Area). To the satisfaction of the Director-General of the DP&I
Research Program	Submitted by end 2010	Consultation with NOW, DECCW (now OEH), SCA and NSW I&I (now NSW T&I). To the satisfaction of the Director-General of DP&I
Construction Management Plan – Woronora Special Area	Prior to construction works	Consultation with SCA. To the satisfaction of the Director-General of the DP&I
Rehabilitation Management Plan	Submitted prior to carrying out any second workings in the mining area	Consultation with relevant stakeholders. To the satisfaction of the Director-General of NSW I&I – Mineral Resources (now NSW T&I – Mineral Resources)
Noise Management Plan	Submitted by end June 2010	Consultation with DECCW (now OEH). To the satisfaction of the Director-General of the DP&I
Air Quality and Greenhouse Gas Management Plan	Submitted by end June 2010	Consultation with DECCW (now OEH). To the satisfaction of the Director-General of the DP&I
Surface Facilities Water Management Plan	Submitted by end June 2010	Consultation with NOW and DECCW (now OEH). To the satisfaction of the Director-General of the DP&I
Traffic Management Plan	Submitted by end February 2010	Consultation with RTA (now RMS), WCC, local schools and the CCC. To the satisfaction of Director-General of the DP&I
Waste Management Plan	Submitted by end June 2010	To the satisfaction of the Director-General of the DP&I
Rehabilitation Strategy – Surface Facilities Area	Approved by end October 2011	Consultation with relevant stakeholders, WCC and CCC. To the satisfaction of the Director-General of the DP&I

CCC = Community Consultative Committee; DECCW = NSW Department of Environment, Climate Change and Water (now OEH = Office of Environment and Heritage); NOW = NSW Office of Water; NSW I&I = NSW Industry and Investment (now NSW T&I = NSW Trade and Investment); SCA = Sydney Catchment Authority; RTA = NSW Roads and Traffic Authority (now RMS = NSW Roads and Maritime Safety); WCC = Wollongong City Council



Condition 12, Schedule 2 of the Project Approval allows Metropolitan Coal, with the approval of the Director-General of the DP&I, to prepare and submit any strategies, plans or programs required by the Project Approval on a progressive basis. Where a management plan or monitoring program is required before carrying out any development, or stage of development, the plans/programs may be prepared and submitted in relation to either discrete components of the mine or for a specified time period.

In accordance with Condition 10, Schedule 2 'Access to Information', copies of the various environmental management plans and programs that are required under the conditions of the Project Approval will be made available on the Peabody website (<http://www.peabodyenergy.com.au>).

Plans showing the current environmental monitoring locations at Metropolitan Coal are provided in Attachment 1.

3.2 LICENCES, PERMITS AND LEASES

In addition to the Project Approval, all activities at or in association with Metropolitan Coal will be undertaken in accordance with the following licences, permits and leases which have been issued or are pending issue.

- The conditions of mining leases issued by the NSW Department of Primary Industries – Mineral Resources (now NSW Trade and Investment [NSW T&I]), under the NSW *Mining Act, 1992* (e.g. Consolidated Coal Lease [CCL] 703, Mining Lease 1610, Coal Lease 379, Mining Purpose Lease 320 and Authorisation 200).
- The *Mining Operations Plan 2005 – 2012* approved by NSW T&I.
- The conditions of Environment Protection Licence (EPL) No. 767 issued by the NSW Office of Environment and Heritage under the NSW *Protection of the Environment Operations Act, 1997*. Revision of the EPL will be required prior to the commencement of mine activities that differ from those currently licensed.
- The prescribed conditions of new mining leases issued by NSW T&I, under the NSW *Mining Act, 1992* for the two Mining Lease Application areas to the west of CCL 703 and specific surface access leases within CCL 703 for the installation of surface facilities as required. An application for the mining leases has been lodged and their grant is pending.
- Water extraction licences issued by the NSW Office of Water (now part of the OEH) under the *Water Act, 1912*.
- Mining and occupational health and safety related approvals granted by NSW T&I and WorkCover NSW.
- Supplementary approvals obtained from the Sydney Catchment Authority (SCA) for surface activities within the Woronora Special Area (e.g. existing stream remediation approvals).

3.3 OTHER LEGISLATION

Metropolitan Coal will conduct the Project consistent with the Project Approval and any other legislation that is applicable to an approved Part 3A Project under the EP&A Act.

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The following Acts may be applicable to the conduct of the Project (HCPL, 2008):

- *Contaminated Land Management Act, 1997;*
- *Dangerous Goods (Road and Rail Transport) Act, 2008;*
- *Mining Act, 1992;*
- *Noxious Weeds Act, 1993;*
- *Rail Safety Act, 2008;*
- *Roads Act, 1993;*
- *Protection of the Environment Operations Act, 1997;*
- *Threatened Species Conservation Act, 1995;*
- *Sydney Water Catchment Management Act, 1998;*
- *Coal Mine Health and Safety Act, 2002;*
- *Crown Lands Act, 1989;*
- *Dams Safety Act, 1978;*
- *Energy and Utilities Administration Act, 1987;*
- *Fisheries Management Act, 1994;*
- *Water Act, 1912;* and
- *Water Management Act, 2000.*

Relevant licences or approvals required under these Acts will be obtained as required.

Metropolitan Coal will keep up to date with changes in legislation, policy and guidelines through:

- review of NSW Minerals Council Environment Committee minutes and attendance at Committee meetings;
- liaison with government agencies;
- legal opinion, as required; and
- participation in professional development seminars.

4 PROJECT DESCRIPTION

On the 22 June 2009, Project Approval was granted for the ongoing operation of Metropolitan Coal, including associated construction/development activities. The Project Approval is for 23 years of mining at a rate of up to 3.2 million tonnes per annum (Mtpa) of run-of-mine (ROM) coal, including approval to transport up to 2.8 Mtpa of product coal from the site.

The main activities associated with development of Metropolitan Coal mine will include:

- ongoing surface and underground exploration activities;
- continued development of underground mining operations;

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- upgrades of the existing mining and materials handling systems to facilitate an increased ROM coal production rate (up to approximately 3.2 Mtpa);
- continued use of the existing Metropolitan Coal Major Surface Facilities Area and the existing supporting infrastructure;
- production of approximately 2.8 Mtpa of hard coking and semi-hard coking coal (including minor quantities of thermal coal) for export and domestic markets;
- upgrades of the Coal Handling and Preparation Plant to facilitate increased production of washed coal, including the addition of a beneficiation circuit;
- coal reject will continue to be produced, with quantities to increase in line with increased ROM coal production;
- continued transport of coal reject to the Glenlee Washery (with annual road movements capped at the existing maximum rate);
- continued transport of product coal by road to Coalcliff and Corrimal Coke Works;
- construction of a coal reject paste plant and associated coal reject stockpile, pumping, pipeline and underground delivery systems to facilitate the underground emplacement of coal reject materials;
- train loading and train movements associated with the transport of product coal to Port Kembla Coal Terminal 24 hours per day, seven days per week;
- surface access and associated works within the Woronora Special Area and surrounds that is required for environmental monitoring, management and remediation of mine subsidence;
- upgrades and/or extension of the existing supporting infrastructure systems (e.g. underground access, water management system, yard area, conveyor transfers and drives, ventilation, gas management and electrical systems) as required;
- extension of the life of Metropolitan Coal by approximately 23 years; and
- other associated minor infrastructure, plant, equipment and activities.

5 ENVIRONMENTAL MANAGEMENT RESPONSIBILITY, PERSONNEL AND ROLES

Implementation of the EMS will be the responsibility of the General Manager, including compliance with all applicable laws, regulations, licences, approvals and achievement of the desired environmental outcomes. The General Manager may delegate authority to conduct activities as appropriate to the Technical Services Manager, Environment and Community Manager, Mine Manager, Occupational Health and Safety (OH&S) Manager or other suitably qualified and/or experienced personnel and/or consultants as required.

A general overview of the responsibility of Metropolitan Coal personnel in regard to the implementation of this EMS is provided below.

- As described above, the General Manager has an overview role for this EMS and is responsible for ensuring the overall compliance of Metropolitan Coal with legislation and approvals and that adequate resources are provided to implement this EMS.
- The General Manager will be responsible for maintaining information on the website with assistance from Peabody personnel situated in the Brisbane Head Office.

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- The Technical Services Manager and Environment and Community Manager will have shared responsibility to ensure this EMS is implemented across Metropolitan Coal. They will be responsible for ensuring that all works are carried out in an environmentally competent manner (i.e. in accordance with legislation and approvals). They will also be responsible for environmental reporting, inspections, training, authority liaison and rehabilitation planning.
- The Environment and Community Manager will generally be responsible for maintaining the complaints register (Section 6.2) and representation on the Community Consultative Committee (CCC) (Section 6.1).
- Line managers, supervisors and coordinators will be responsible for ensuring activities under their supervision are completed in accordance with this EMS and related sub-plans, procedures, and programs.
- Operational personnel engaged in field activities must comply with the requirements of this EMS.

Though retaining the responsibilities identified above, the Technical Services Manager, Mine Manager and Environment and Community Manager may, at their discretion, delegate specific tasks to suitably qualified and/or experienced operational personnel and/or consultants.

6 INFORMATION DISSEMINATION, COMPLAINTS MANAGEMENT AND DISPUTE RESOLUTION

6.1 INFORMATION DISSEMINATION

Metropolitan Coal is committed to a policy of regular liaison with the local community and strives to maintain positive relationships with stakeholders.

Dissemination of information to the local community and relevant agencies regarding Metropolitan Coal, its progress and environmental management performance will be achieved via the following communication and reporting mechanisms.

Community Consultative Committee

In accordance with Condition 5, Schedule 7 of the Project Approval, a Community Consultative Committee (CCC) has been established for Metropolitan Coal to the satisfaction of the Director-General of the DP&I. The CCC replaced the Community Reference Group which was established for the mine during the Environmental Assessment (EA) preparation and approvals phase of Metropolitan Coal.

The CCC will be operated in general accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (the Guidelines) (Department of Planning, 2007, or its latest version).

In accordance with the Guidelines, the membership of the CCC will be comprised of an independent chair and appropriate representation from Metropolitan Coal, affected councils, recognised environmental groups and the general community in Helensburgh and the area of the mine. The CCC will meet at least twice per year.

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In accordance with Condition 10, Schedule 7 of the Project Approval, a copy of the minutes of CCC meetings will be made publicly available on the website. It is the responsibility of the Environment and Community Manager to ensure minutes of the CCC meetings are taken and are made available on the website.

In addition to their tabling at CCC meetings, relevant environmental monitoring results pertaining to individual landholders will be provided to those landholders on request. Metropolitan Coal will seek advice from each relevant landholder as to their desire to receive monitoring results.

Copies of all management plans/strategies or monitoring programs, together with the results of independent audits and annual reports will also be provided to the CCC and made publicly available via the website.

Annual Review

In accordance with Condition 3, Schedule 7 of the Project Approval, Metropolitan Coal will conduct an Annual Review of the environmental performance of the Project by the end of October 2010, and annually thereafter.

The Annual Review will:

- (a) *describe the works that were carried out in the past year, and the works that are proposed to be carried out over the next year;*
- (b) *include a comprehensive review of the monitoring results and complaints records of the project over the past year, which includes a comparison of these results against the*
 - *the relevant statutory requirements, limits or performance measures/criteria;*
 - *the monitoring results of previous years; and*
 - *the relevant predictions in the EA, PPR, and Extraction Plan;*
- (c) *identify any non-compliance over the last 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 project;*
- (e) *identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and*
- (f) *describe what measure will be implemented over the next year to improve the environmental performance of the project.*

In accordance with Condition 10, Schedule 7 of the Project Approval, a copy of Annual Reviews (over the last five years) will be made available on the website.

Peabody Website

In accordance with Condition 10, Schedule 7 of the Project Approval, the Peabody website will be maintained as a means of providing information to stakeholders and interested parties about the operation and environmental performance of Metropolitan Coal. In accordance with best practice guidelines and the Project Approval, the structure and content of the website will include the following:

- background and overview of Metropolitan Coal, including geological information and location maps;
- copies of and/or hyperlinks to all current statutory approvals held for the Metropolitan Coal (e.g. EPL);

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- downloadable copies of all EA documents and key supporting documents;
- downloadable copies of all currently approved management plans and monitoring programs, including this EMS;
- a summary of environmental monitoring results, reported in accordance with the various plans and programs approved under the Project Approval;
- the Complaints Register, which is to be updated on a monthly basis;
- a copy of any Independent Environmental Audit reports and Metropolitan Coal's response to the recommendations in any audit;
- a copy of any Annual Reviews (over the last five years);
- details on the CCC, along with recent minutes and the contact details of the CCC chair; and
- community liaison information, including the role of key Metropolitan Coal personnel in terms of community liaison and the complaints handling process (including all relevant contact details).

It is the responsibility of the General Manager with assistance from Peabody personnel located in the Brisbane Head Office to ensure that information provided on the website relevant to Metropolitan Coal is maintained.

Other Methods

Metropolitan Coal will maintain regular formal and informal contact with relevant government agencies. In the event of non-compliance or a potential non-compliance with respect to statutory criteria or guidelines, copies of the reports will be provided to the relevant agencies. Metropolitan Coal may also utilise the local press to present feature articles on Metropolitan Coal.

6.2 COMPLAINTS RECEIPT AND RESPONSE PROCEDURES

The Environment and Community Manager is responsible for maintaining a system for recording complaints.

Metropolitan Coal will maintain public signage advertising the telephone number on which environmental complaints can be made. The Environment and Community Manager is responsible for ensuring that the currency and effectiveness of the service is maintained. Notifications of complaints received are to be provided as quickly as practicable to the Environment and Community Manager.

Complaints and enquiries do not have to be received via the telephone line and may be received in any other form. Any complaint or enquiry relating to environmental management or performance is to be relayed to the Environment and Community Manager as soon as practicable. All employees are responsible for ensuring the prompt relaying of complaints. All complaints will be recorded in a complaints register.

For each complaint, the following information will be recorded in the complaints register:

- date and time of complaint;
- method by which the complaint was made;
- personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
- nature of the complaint;

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- the action(s) taken by Metropolitan Coal in relation to the complaint, including any follow-up contact with the complainant; and
- if no action was taken by Metropolitan Coal, the reason why no action was taken.

The Environment and Community Manager is responsible for ensuring that all complaints are appropriately investigated, actioned and that information is fed back to the complainant, unless requested to the contrary.

In accordance with Condition 10, Schedule 7 of the Project Approval, the complaints register will be made publicly available on the website and updated on a monthly basis. A summary of complaints received and actions taken will be presented to the CCC as part of the operational performance review.

6.3 DISPUTE RESOLUTION

In the event that any complainant does not consider Metropolitan Coal's response or reactions to have adequately addressed their concerns, the following procedure will be adopted:

- A meeting will be convened with the Environment and Community Manager together with any other relevant Metropolitan Coal manager (e.g. Technical Services Manager, Mine Manager, General Manager) to seek resolution of the matter. The complainant may be provided with a written response from Metropolitan Coal detailing the results of investigations to date and the agreed actions to be taken in respect of the measures to be implemented.
- On implementation of the nominated measures, the resolution process will be one of informed discussion involving the complainant and the Environment and Community Manager. The complainant will be made fully aware of the Metropolitan Coal's environmental monitoring and management systems.

Every effort will be made by Metropolitan Coal to ensure that concerns are addressed in a manner that results in a mutually acceptable outcome. If after following the above procedure the complainant believes the matter remains unresolved and no further agreement can be reached as to additional measures to be undertaken, the Independent Dispute Resolution Process will be entered into (Appendix 7 of the Project Approval). The DP&I would manage this process in consultation with the General Manager (or other Metropolitan Coal manager as appropriate) and the complainant.

7 INCIDENTS

An incident is defined as a set of circumstances that causes or threatens to cause material harm to the environment, and/or breaches or exceeds the limits or performance measures/criteria in the Project Approval.

The reporting of incidents will be conducted in accordance with Condition 6, Schedule 7 of the Project Approval. Metropolitan Coal will notify the Director-General of the DP&I and any other relevant agencies of any incident associated with the Project as soon as practicable after Metropolitan Coal becomes aware of the incident. Within seven days of the date of the incident, Metropolitan Coal will provide the Director-General of the DP&I and any relevant agencies with a detailed report on the incident.

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8 RESPONSE TO NON-COMPLIANCES

Compliance with all approvals, plans and procedures will be the responsibility of all personnel (staff and contractors) employed on or in association with Metropolitan Coal, and will be developed through promotion of Metropolitan Coal ownership under the direction of the General Manager.

The Technical Services Manager and/or Environment and Community Manager will undertake regular inspections, internal audits and initiate directions identifying any remediation/rectification work required, and areas of actual or potential non-compliance.

As described in Section 7, Metropolitan Coal will notify the Director-General of the DP&I and any other relevant agencies of any incident associated with Metropolitan Coal as soon as practicable after Metropolitan Coal becomes aware of the incident. Within seven days of the date of the incident, Metropolitan Coal will provide the Director-General of the DP&I and any relevant agencies with a detailed report on the incident.

A review of Metropolitan Coal's compliance with all conditions of the Project Approval, mining leases and all other approvals and licences will be undertaken prior to (and included within) each Annual Review. The Annual Review will be made publicly available on the Peabody website.

Additionally, in accordance with Condition 8, Schedule 7 of the Project Approval, an independent environmental audit will be undertaken by the end of December 2011, and a minimum of once every three years thereafter. A copy of the audit report will be submitted to the Director-General of the DP&I and made publicly available on the Peabody website. The independent audit will be undertaken by an appropriately qualified, experienced and independent team of experts whose appointment has been endorsed by the Director-General of the DP&I.

9 EMERGENCY RESPONSE

In accordance with Part 5, Subdivision 5 of the *Coal Mines Health and Safety Act, 2002* and associated *Coal Mines Health and Safety Regulations, 2006*, Metropolitan Coal has developed a Surface Emergency Management Plan (SEMP) which forms part of the Metropolitan Coal Emergency Management System. The objective of the SEMP is to document procedures and standards for use in emergency situations on the surface at Metropolitan Coal.

Metropolitan Coal has a number of OH&S management plans that form part of the Metropolitan Coal Emergency Management System. These include:

- Underground Emergency Management Plan;
- Surface Emergency Management Plan;
- First Aid Management Plan; and
- Firefighting Capability Management Plan.

The Bushfire Preparedness Plan also includes fuel management and general housekeeping measures, procedures to minimise the risk of bushfire, response to bushfire in the Woronora Special Area and evacuation in case of an emergency.

Any emergency situations or incidents which do or could potentially have caused environmental harm will be reported to OEH and other relevant authorities.

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All site personnel will receive an appropriate level of emergency preparedness and response training, with regular updates through tool box talks. Any changes to emergency procedures are to be documented and communicated to all personnel.

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ATTACHMENT 1
CURRENT MONITORING LOCATIONS

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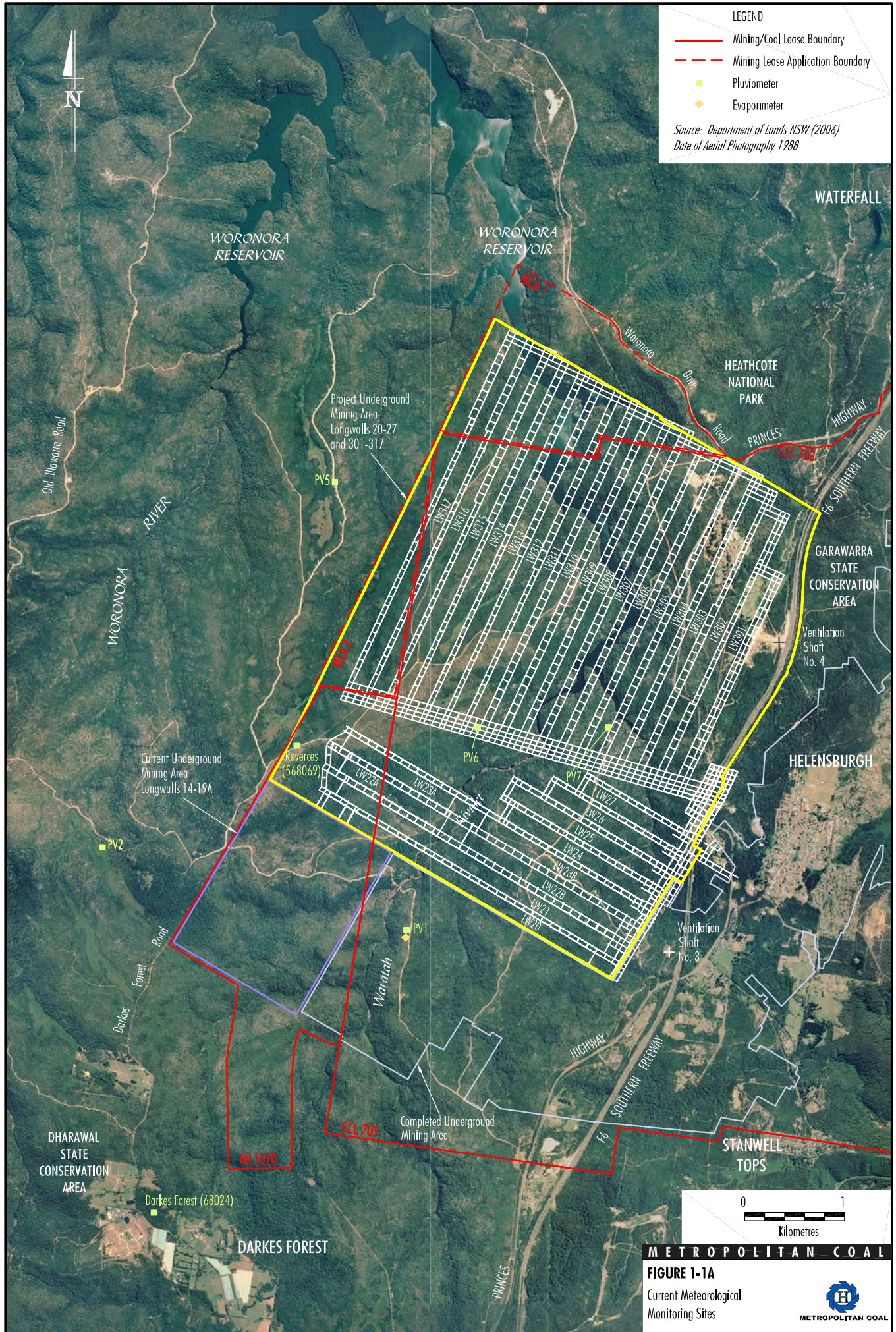
ATTACHMENT 1-1
MINING AREA AND SURROUNDS
WATER MONITORING LOCATIONS

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LEGEND

- Mining/Cool Lease Boundary
- - - Mining Lease Application Boundary
- Pluviometer
- ◆ Evaporimeter

Source: Department of Lands NSW (2006)
Date of Aerial Photography 1988



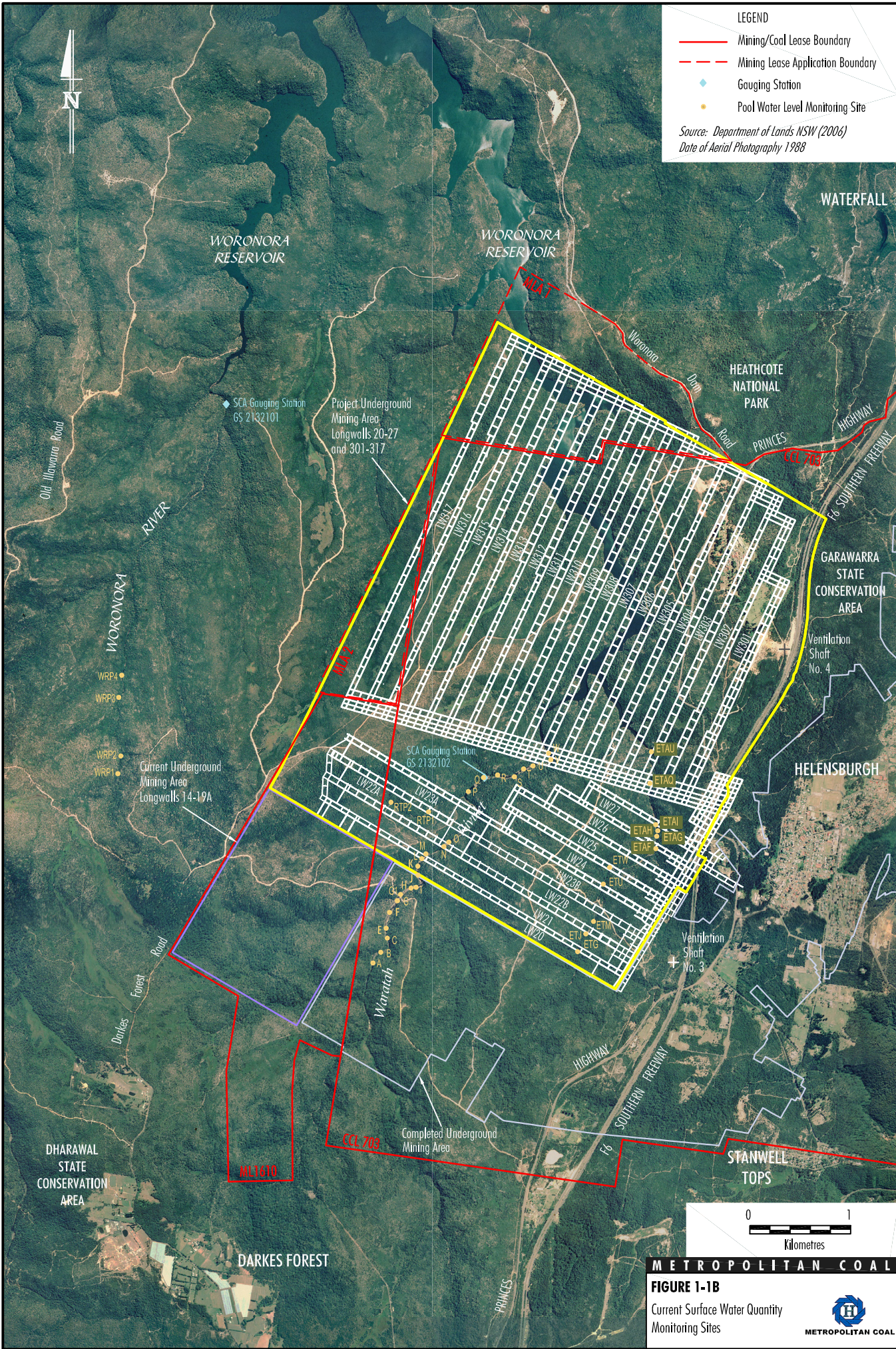
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FIGURE 1-1A
Current Meteorological Monitoring Sites

LEGEND

- Mining/Cool Lease Boundary
- - - Mining Lease Application Boundary
- ◆ Gauging Station
- Pool Water Level Monitoring Site

Source: Department of Lands NSW (2006)
Date of Aerial Photography 1988



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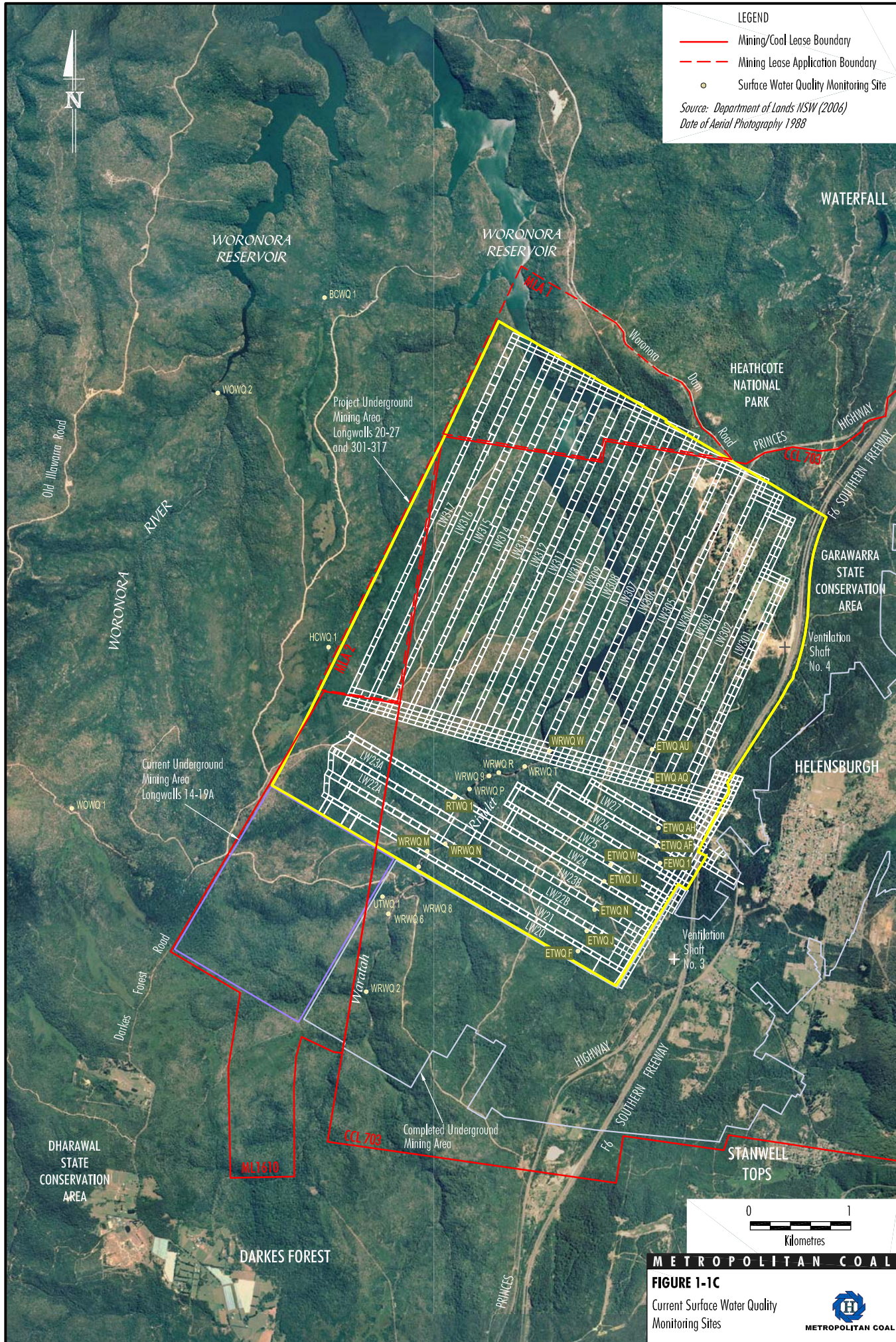
FIGURE 1-1B
Current Surface Water Quantity Monitoring Sites



LEGEND

- Mining/Cool Lease Boundary
- - - Mining Lease Application Boundary
- Surface Water Quality Monitoring Site

*Source: Department of Lands IISW (2006)
Date of Aerial Photography 1988*



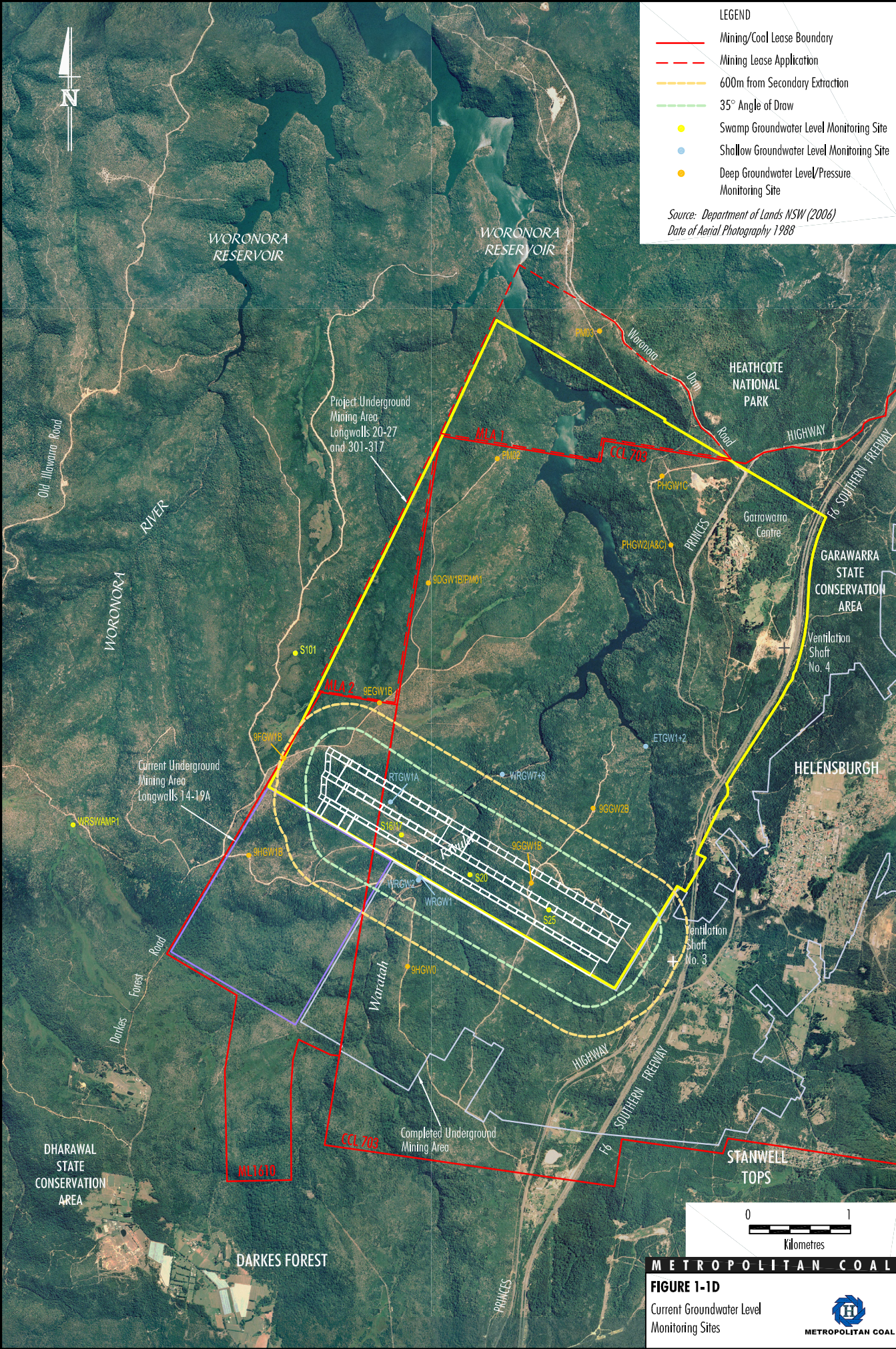
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FIGURE 1-1C
Current Surface Water Quality Monitoring Sites

LEGEND

- Mining/Coal Lease Boundary
- - - Mining Lease Application
- - - 600m from Secondary Extraction
- - - 35° Angle of Draw
- Swamp Groundwater Level Monitoring Site
- Shallow Groundwater Level Monitoring Site
- Deep Groundwater Level/Pressure Monitoring Site

*Source: Department of Lands NSW (2006)
Date of Aerial Photography 1988*



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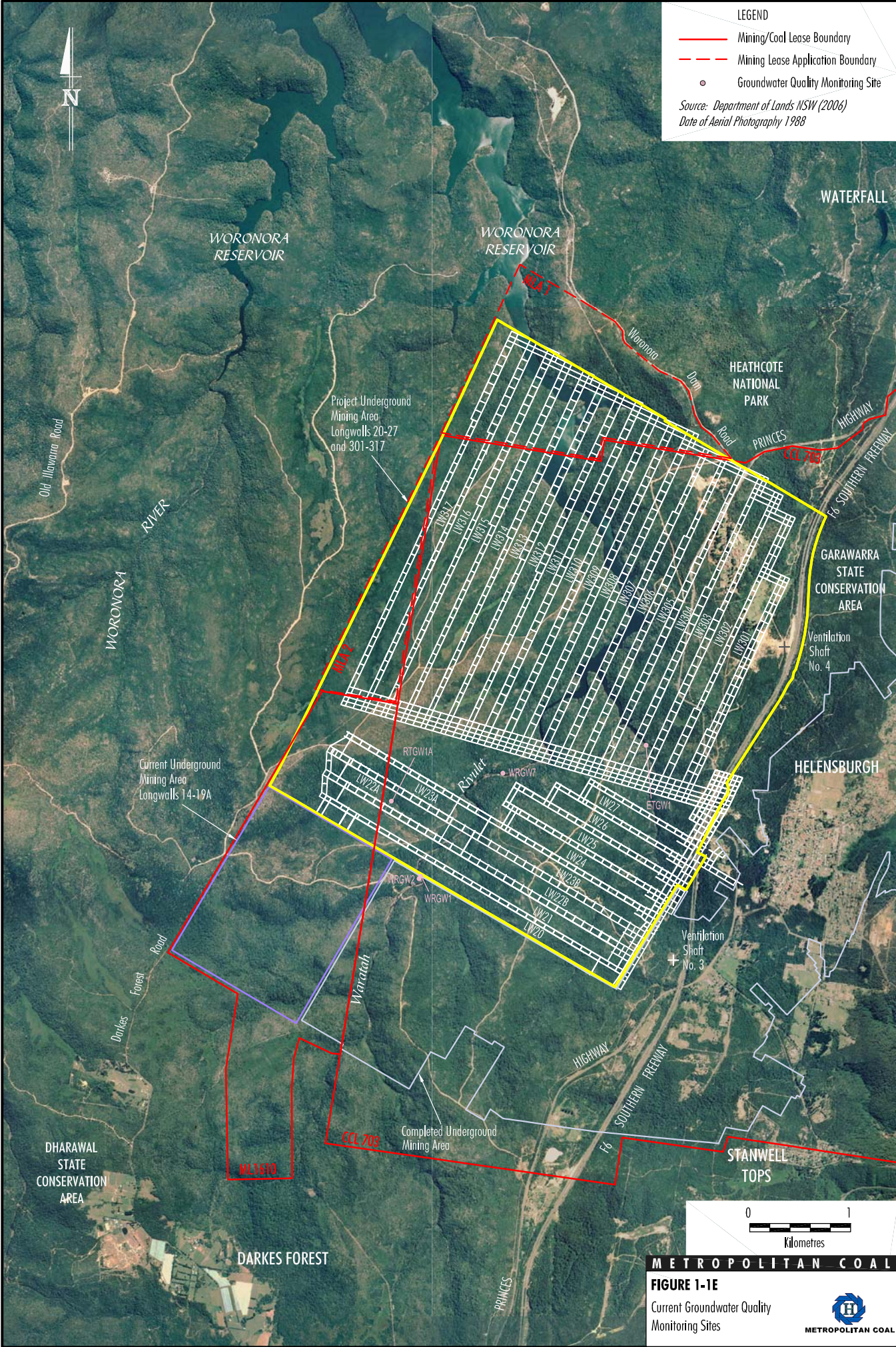
FIGURE 1-1D
Current Groundwater Level Monitoring Sites



LEGEND

- Mining/Cool Lease Boundary
- - - Mining Lease Application Boundary
- Groundwater Quality Monitoring Site

*Source: Department of Lands NSW (2006)
Date of Aerial Photography 1988*



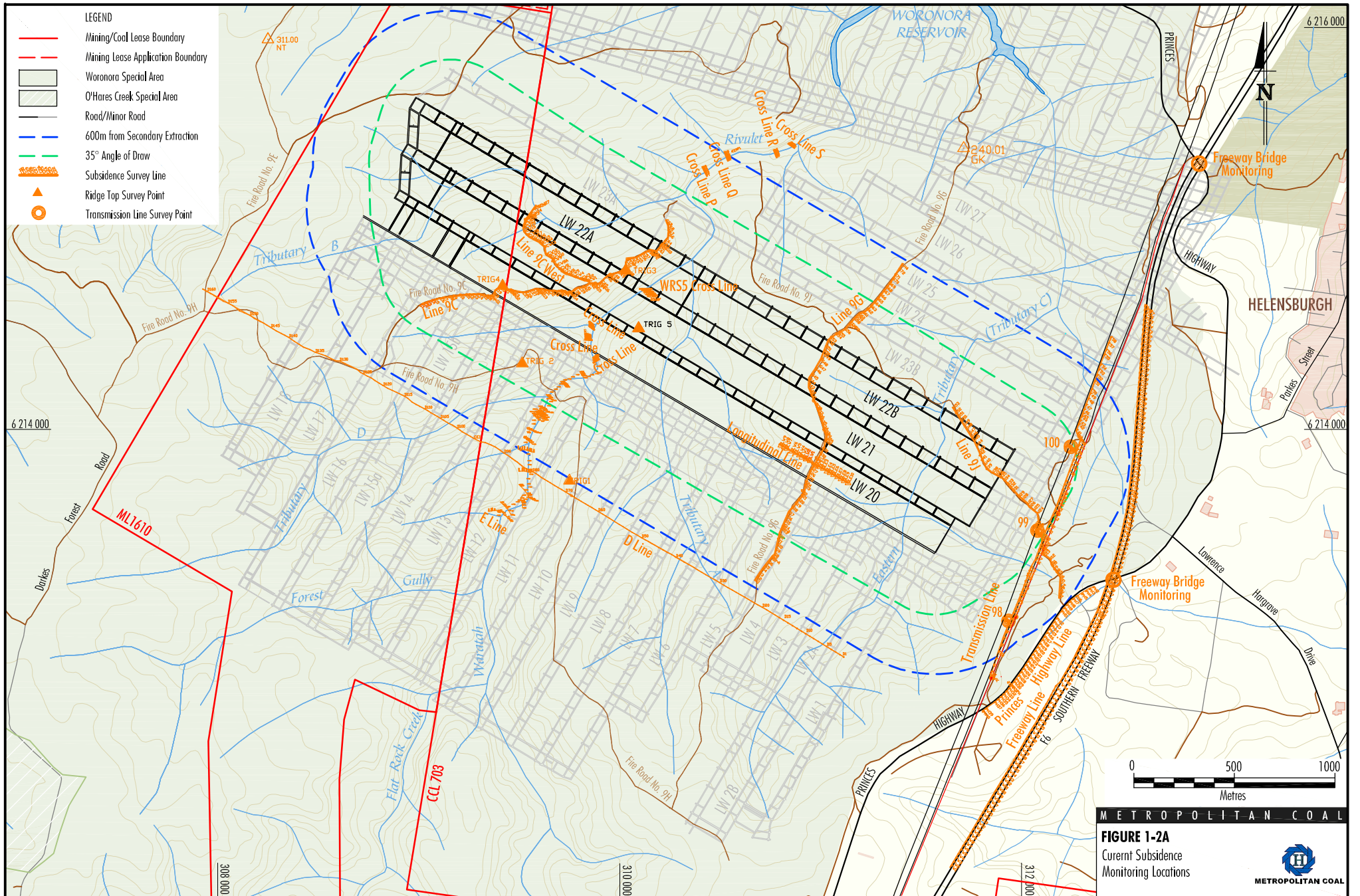
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FIGURE 1-1E
Current Groundwater Quality Monitoring Sites



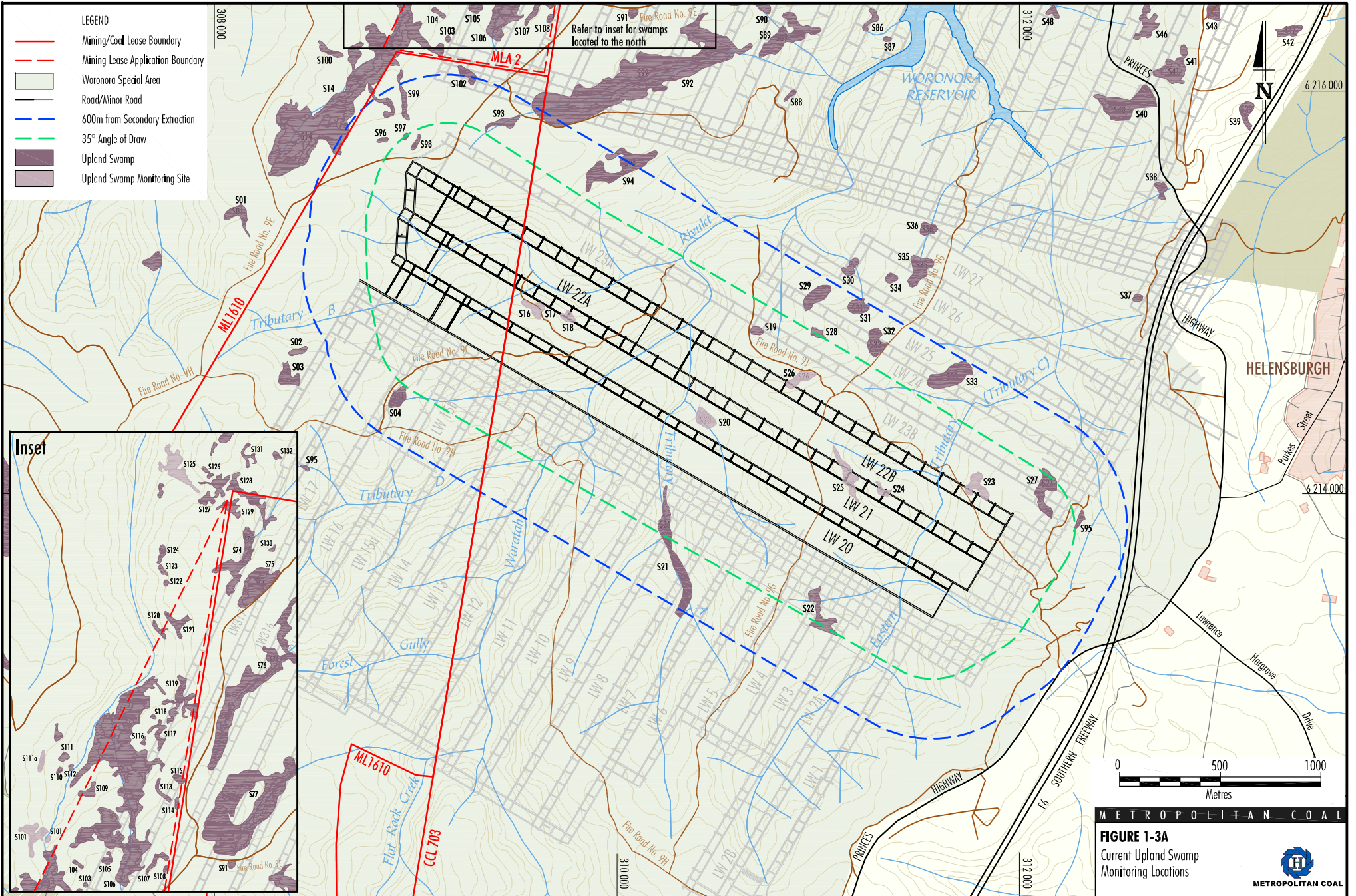
ATTACHMENT 1-2
MINING AREA AND SURROUNDS
SUBSIDENCE MONITORING LOCATIONS

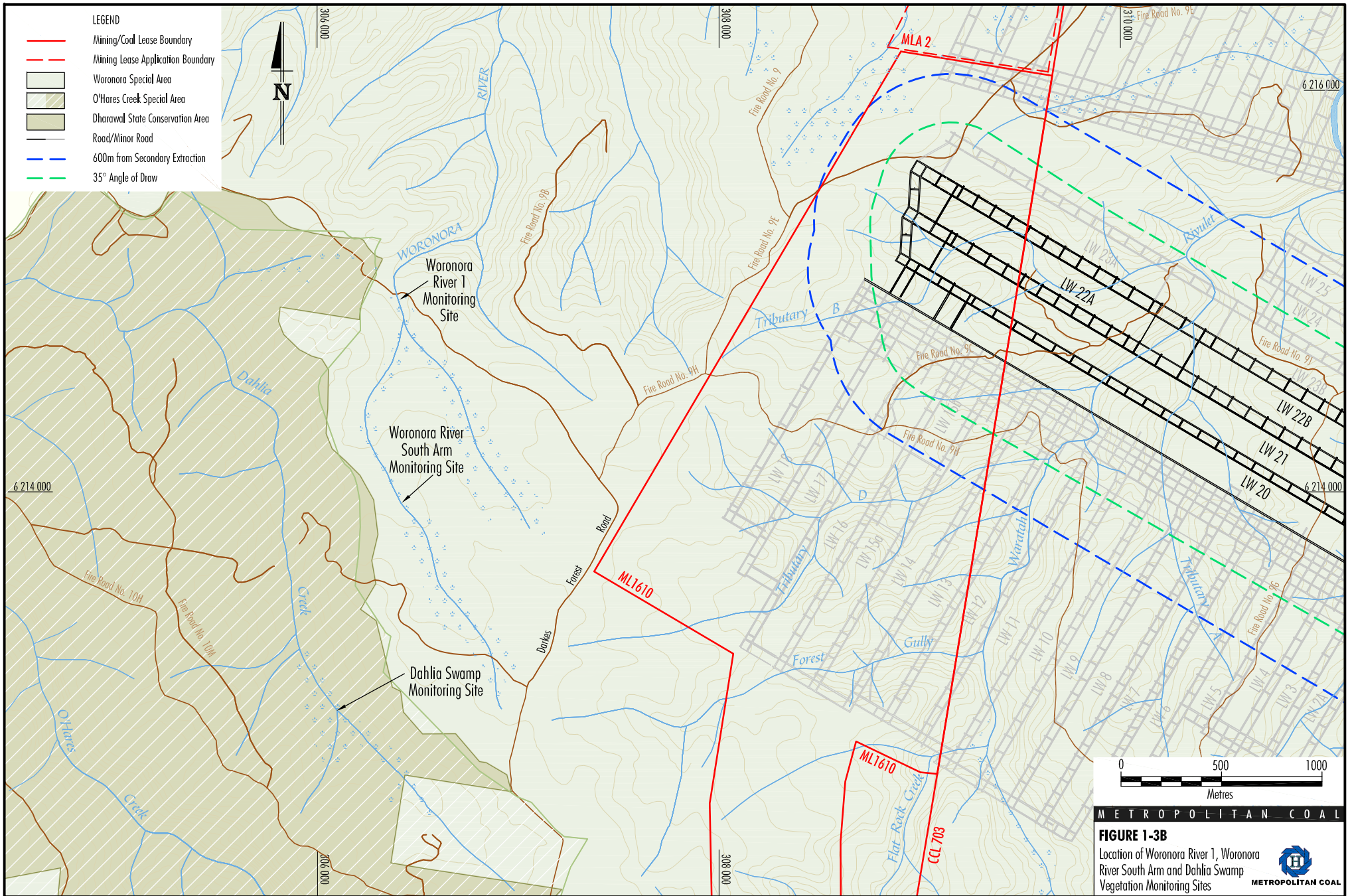
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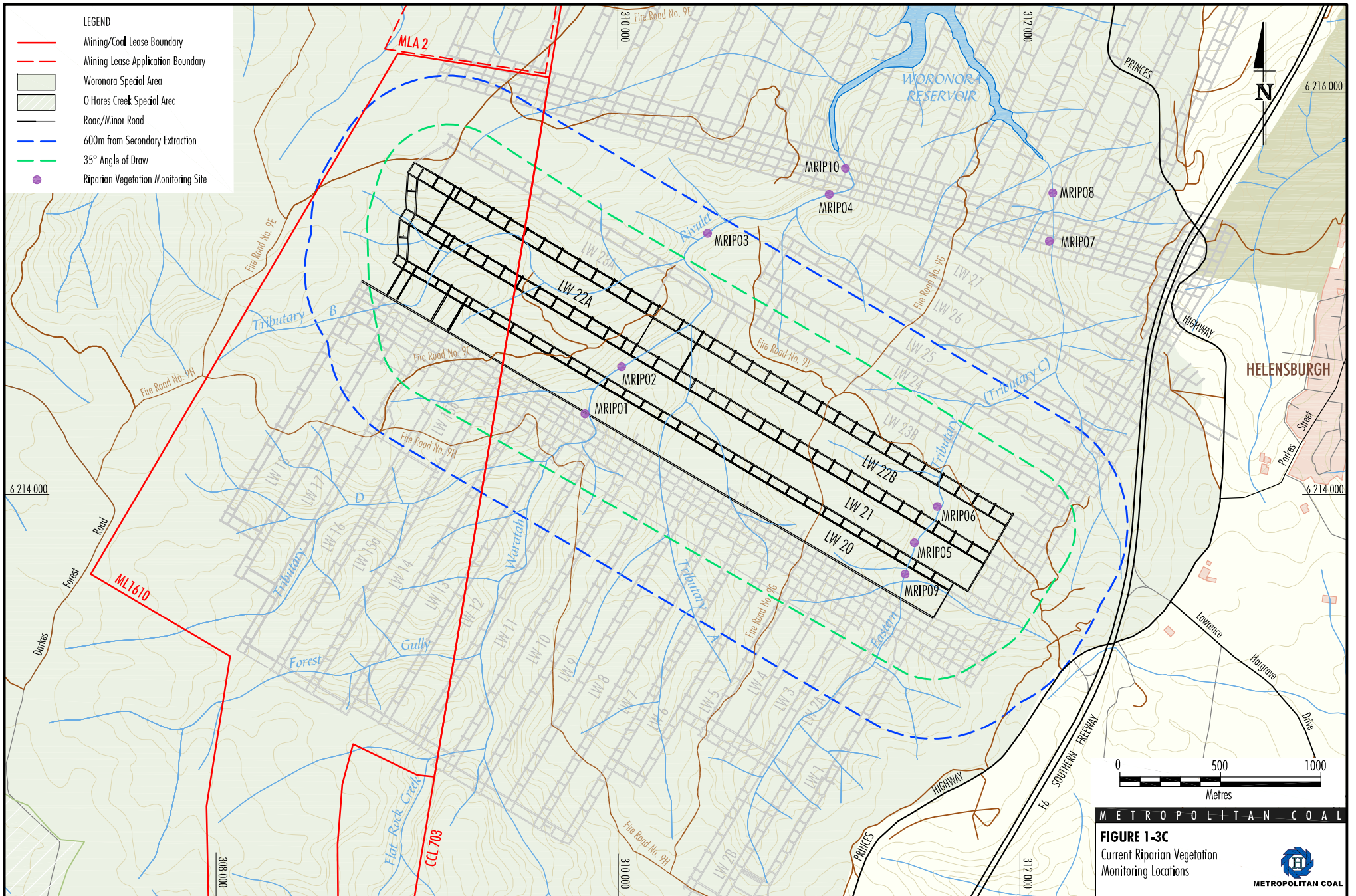


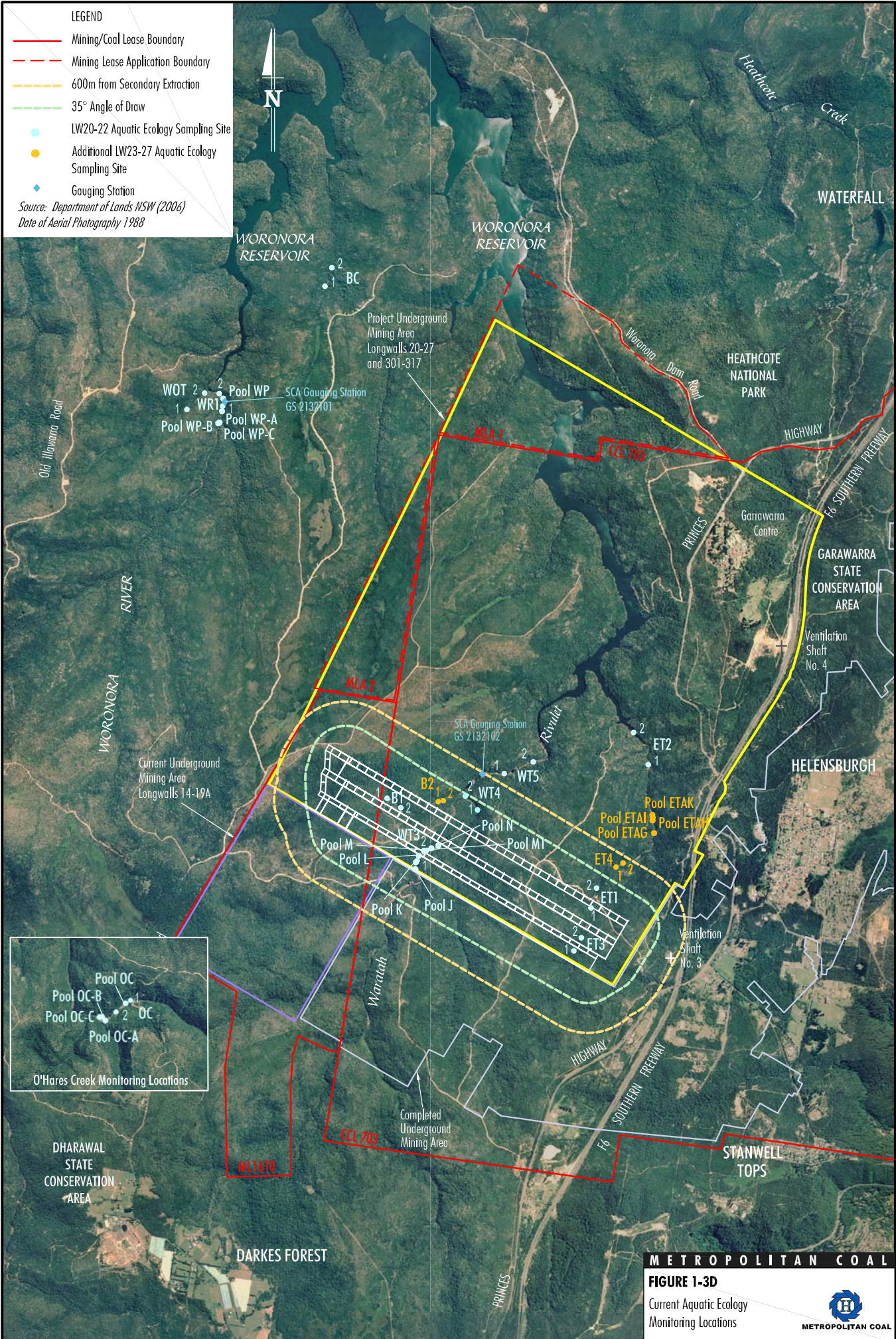
ATTACHMENT 1-3
MINING AREA AND SURROUNDS
BIODIVERSITY MONITORING LOCATIONS

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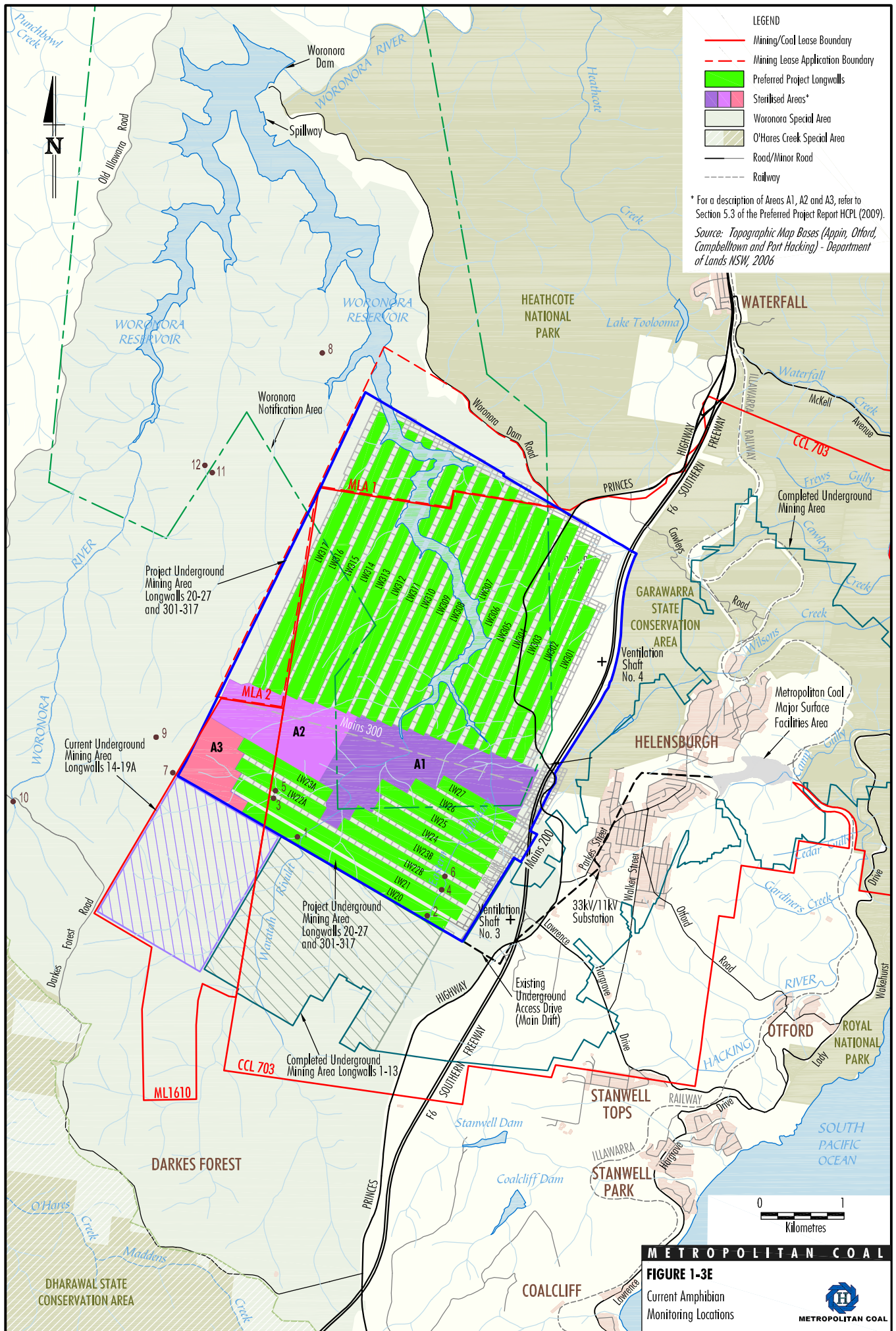




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FIGURE 1-3D
Current Aquatic Ecology Monitoring Locations

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FIGURE 1-3E
 Current Amphibian Monitoring Locations

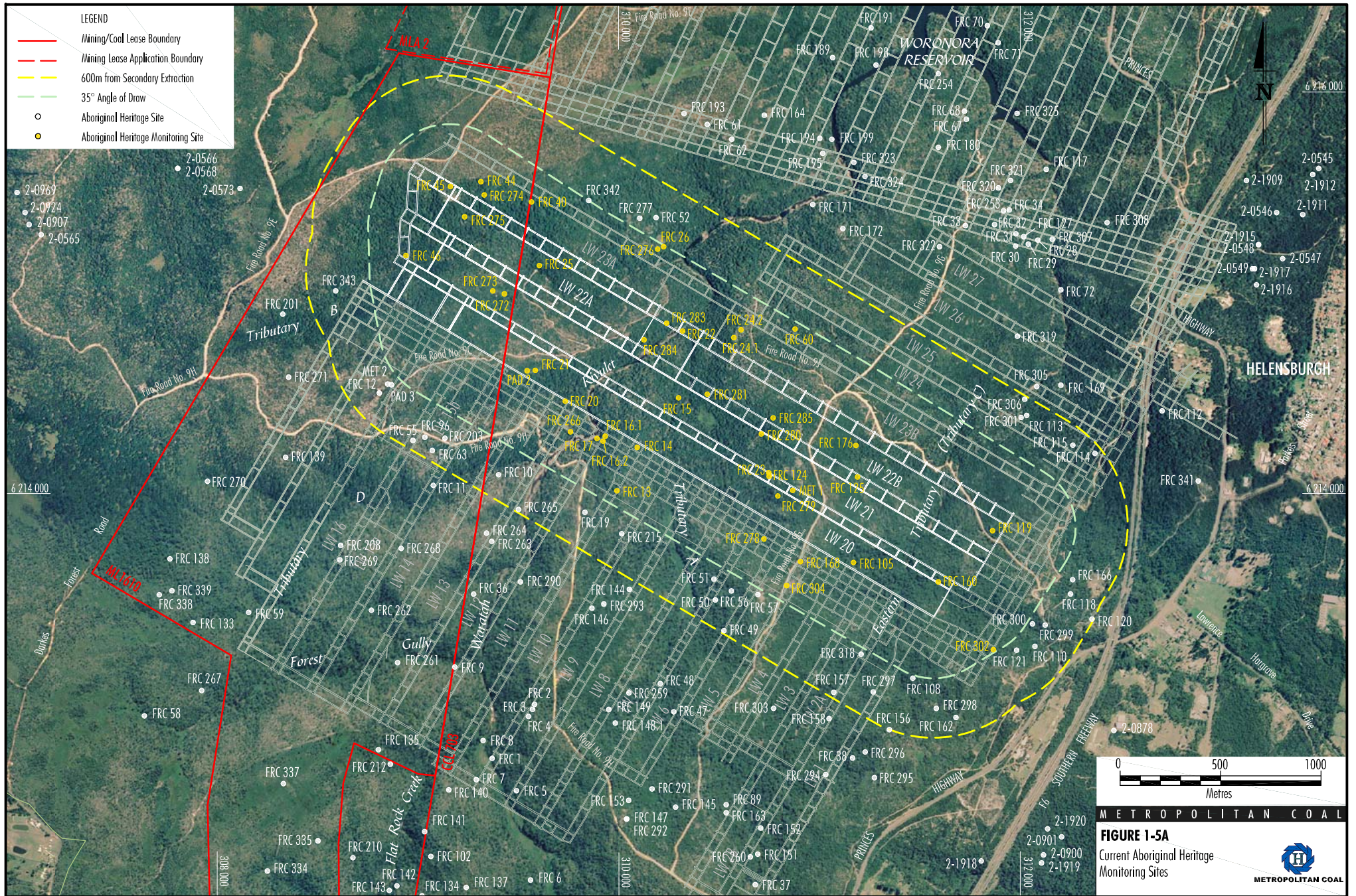
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ATTACHMENT 1-4
MINING AREA AND SURROUNDS
LAND MONITORING LOCATIONS

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ATTACHMENT 1-5
MINING AREA AND SURROUNDS
HERITAGE MONITORING LOCATIONS

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FIGURE 1-5A
Current Aboriginal Heritage Monitoring Sites



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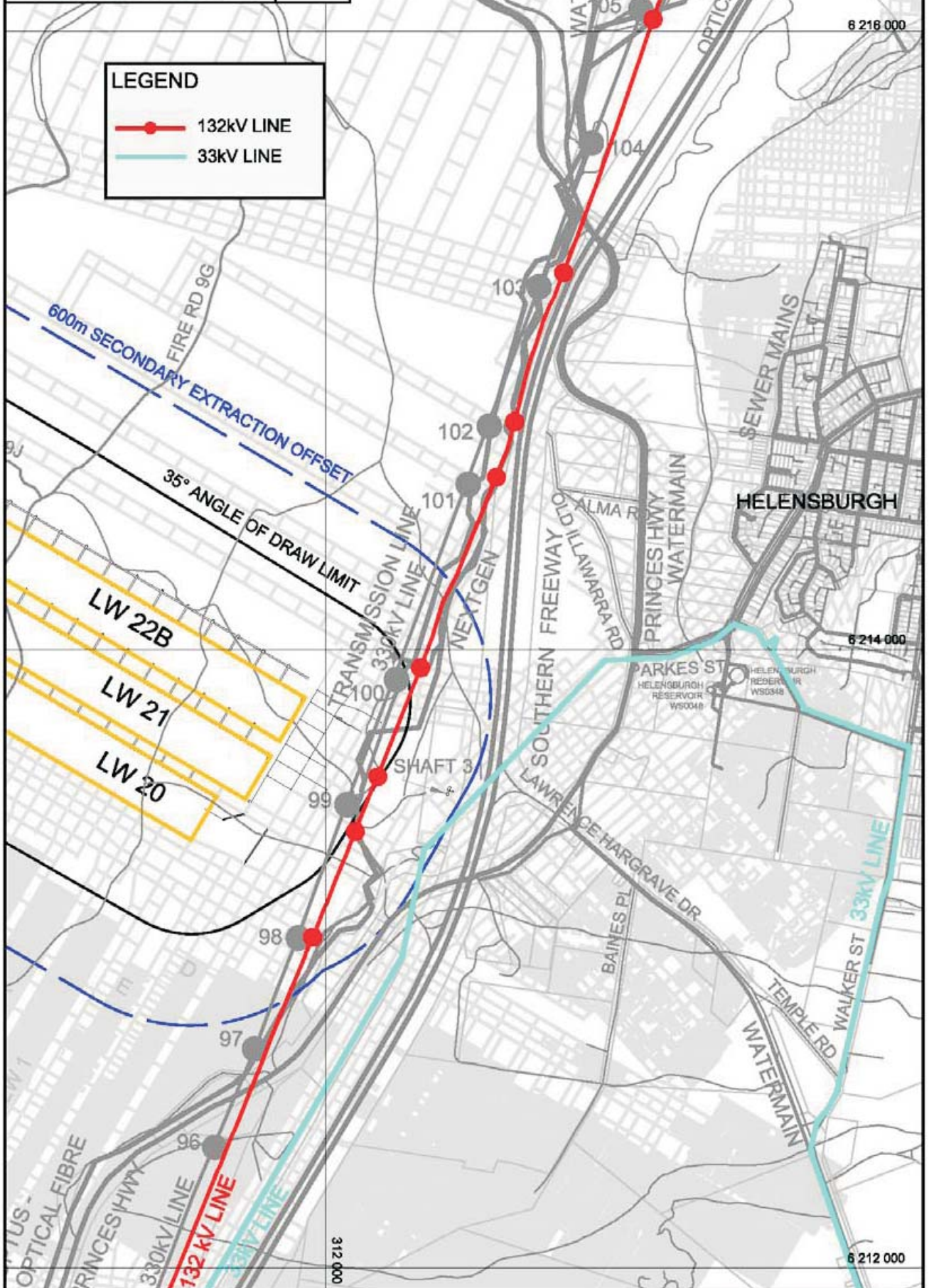
ATTACHMENT 1-6
MINING AREA AND SURROUNDS
BUILT FEATURES MONITORING LOCATIONS

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Table 1 outlines the specific infrastructure items that are monitored in accordance with the Built Features Management Plan. The locations of the infrastructure items are included on Figures 1-6A to 1-6G.

**Table 1
Built Features Monitoring Locations**

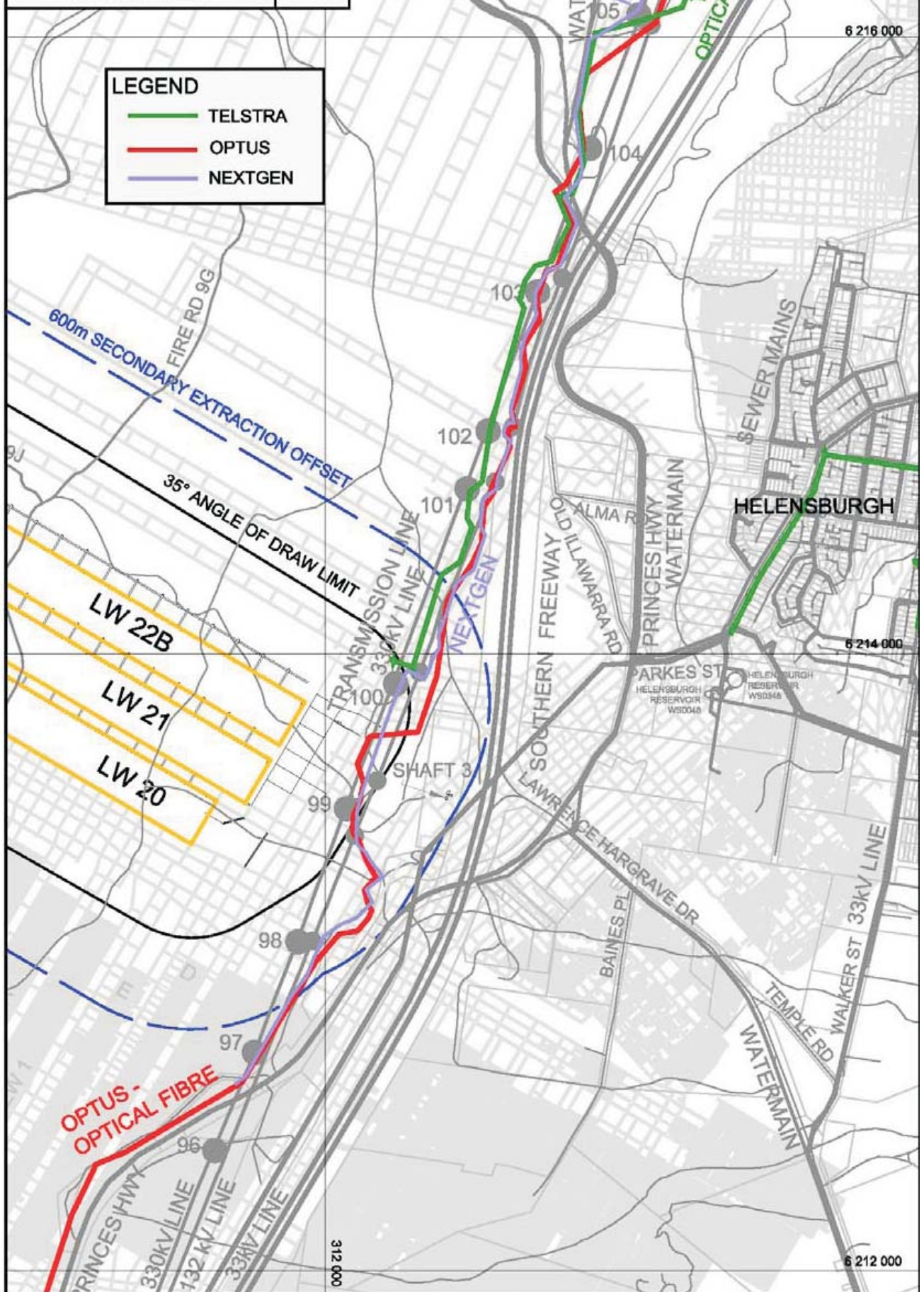
Built Feature	Figure Reference	Monitoring Locations
Integral Energy Infrastructure	Figure 1-6A	<ul style="list-style-type: none"> • Access tracks within 600 m of Longwalls 20-22 secondary extraction. • Transmission line.
Nextgen Infrastructure	Figure 1-6B	<ul style="list-style-type: none"> • Access tracks within 600 m of Longwalls 20-22 secondary extraction. • Fibre optic cable. • Pit entries.
Optus Infrastructure	Figure 1-6B	<ul style="list-style-type: none"> • Access tracks within 600 m of Longwalls 20-22 secondary extraction. • Fibre optic cable.
RailCorp Infrastructure	Figure 1-6C	<ul style="list-style-type: none"> • Rail line. • Stanwell Park Viaduct.
Roads and Maritime Safety Infrastructure	Figure 1-6D	<ul style="list-style-type: none"> • Bridge 1. • Bridge 2. • Southern Freeway pavement. • 12 cuttings along the Southern Freeway from Kelly's Creek to Bridge 2. • Culverts along the Southern Freeway.
Sydney Water Infrastructure	Figure 1-6E	<ul style="list-style-type: none"> • Pipelines and water tanks.
Telstra Infrastructure	Figure 1-6B	<ul style="list-style-type: none"> • Access tracks within 600 m of Longwalls 20-22 secondary extraction. • Transmission line. • Fibre optic cable.
TransGrid Infrastructure	Figure 1-6F	<ul style="list-style-type: none"> • Access tracks within 600 m of Longwalls 20-22 secondary extraction. • Towers 96 to 102. • Transmission line from Towers 96 to 102.
Wollongong City Council Infrastructure	Figure 1-6G	<ul style="list-style-type: none"> • Old Princes Highway pavement from the F6 Southern Freeway off-ramp for a distance of 1,000 m along the road to the south of the off-ramp. • Culverts associated with the Old Princes Highway located approximately: <ul style="list-style-type: none"> - adjacent to the F6 Southern Freeway off-ramp; - 800 m south of the off-ramp; - 1,100 m south of the off-ramp; and - 1,200 m south of the off-ramp.



MINE SUBSIDENCE ENGINEERING CONSULTANTS
 Level 1, 226 Victoria Ave, Chatswood, NSW 2067
 PO Box 3047, Willoughby North, NSW 2068
 Tel. (02) 9413 3777 Fax (02) 9413 3822

METROPOLITAN COLLIERY
 OPTICAL FIBRE CABLES

Figure 5

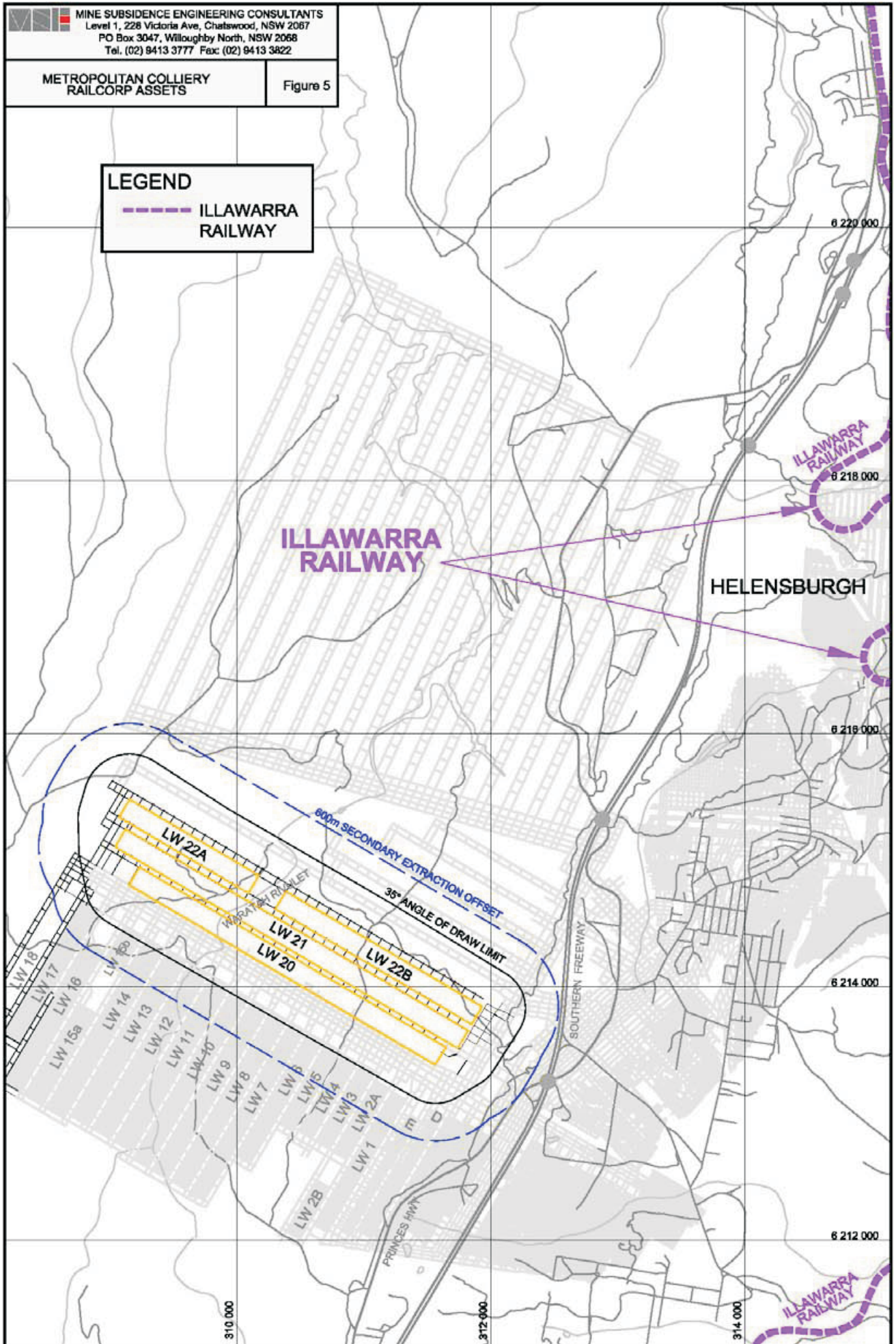


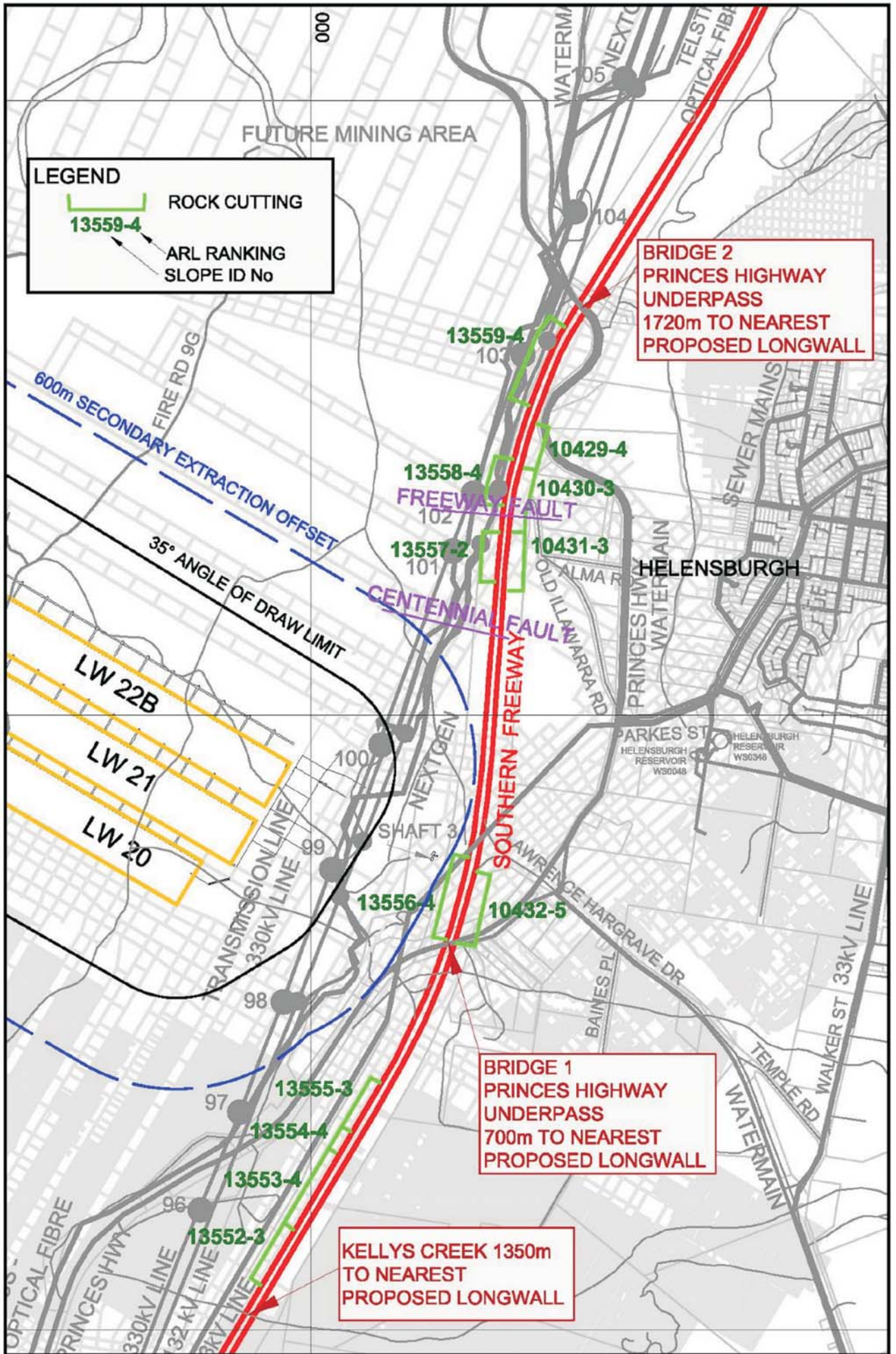
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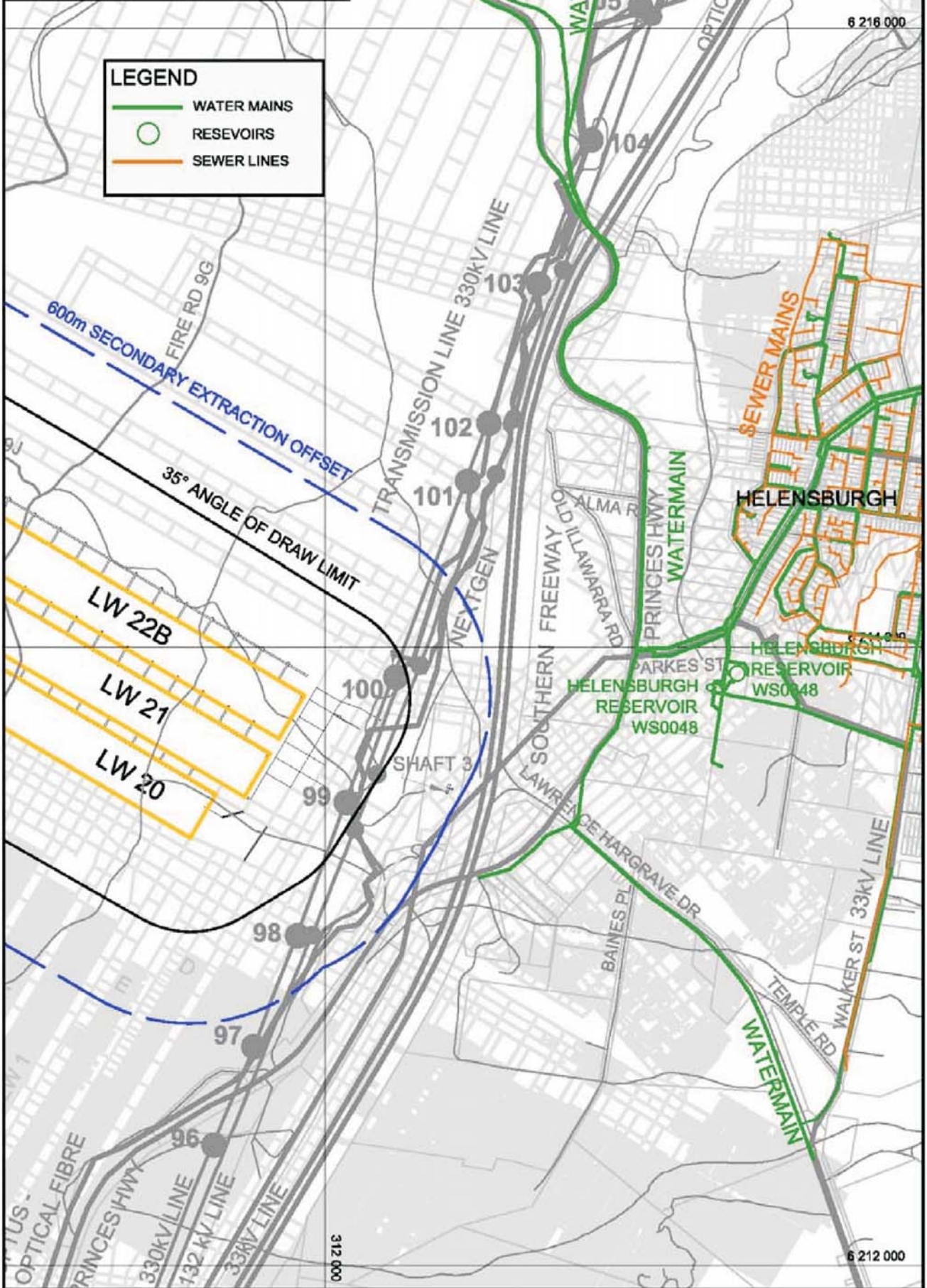
METROPOLITAN COLLIERY
RAILCORP ASSETS

Figure 5

LEGEND
- - - ILLAWARRA RAILWAY







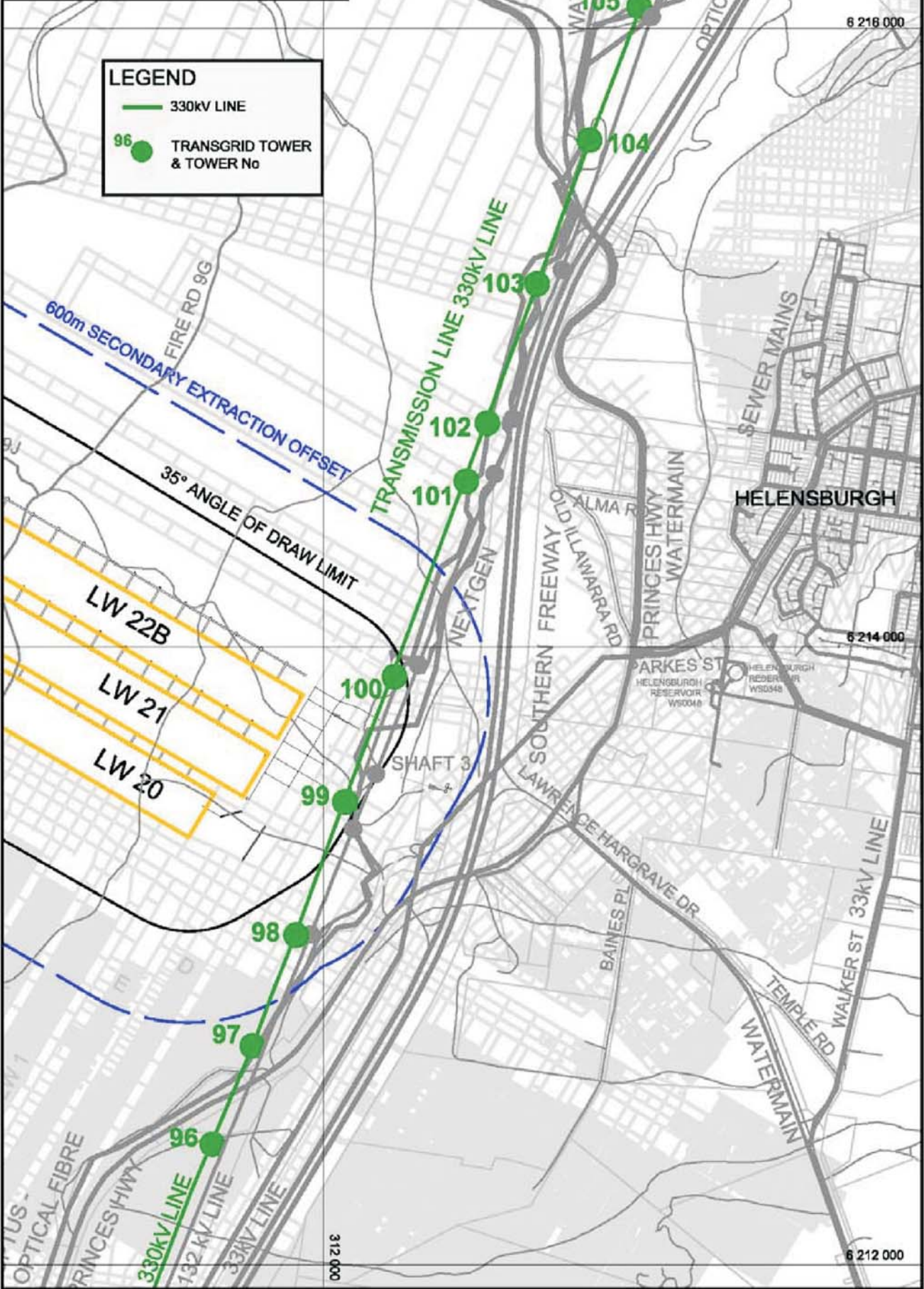


FIGURE I-6F

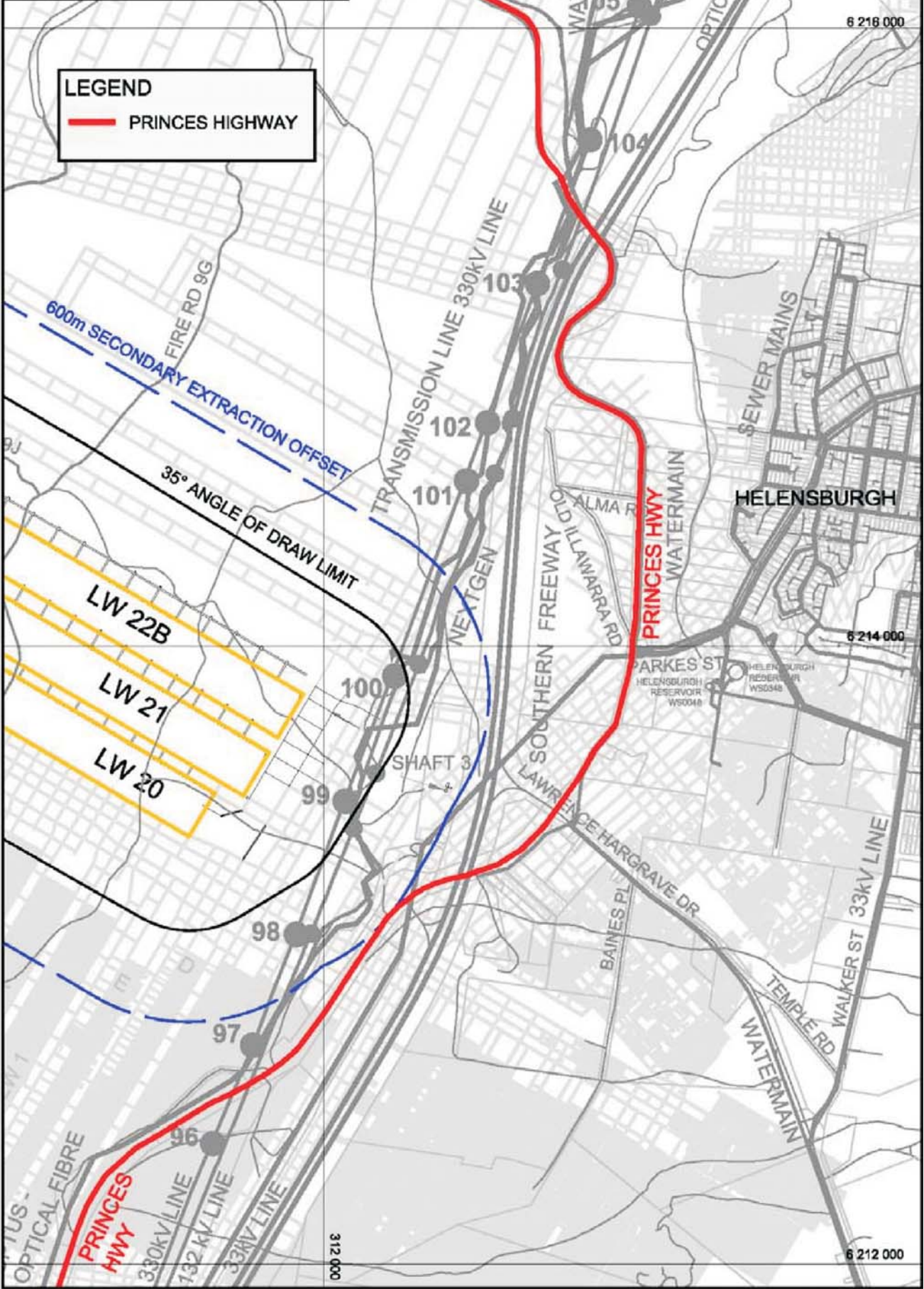
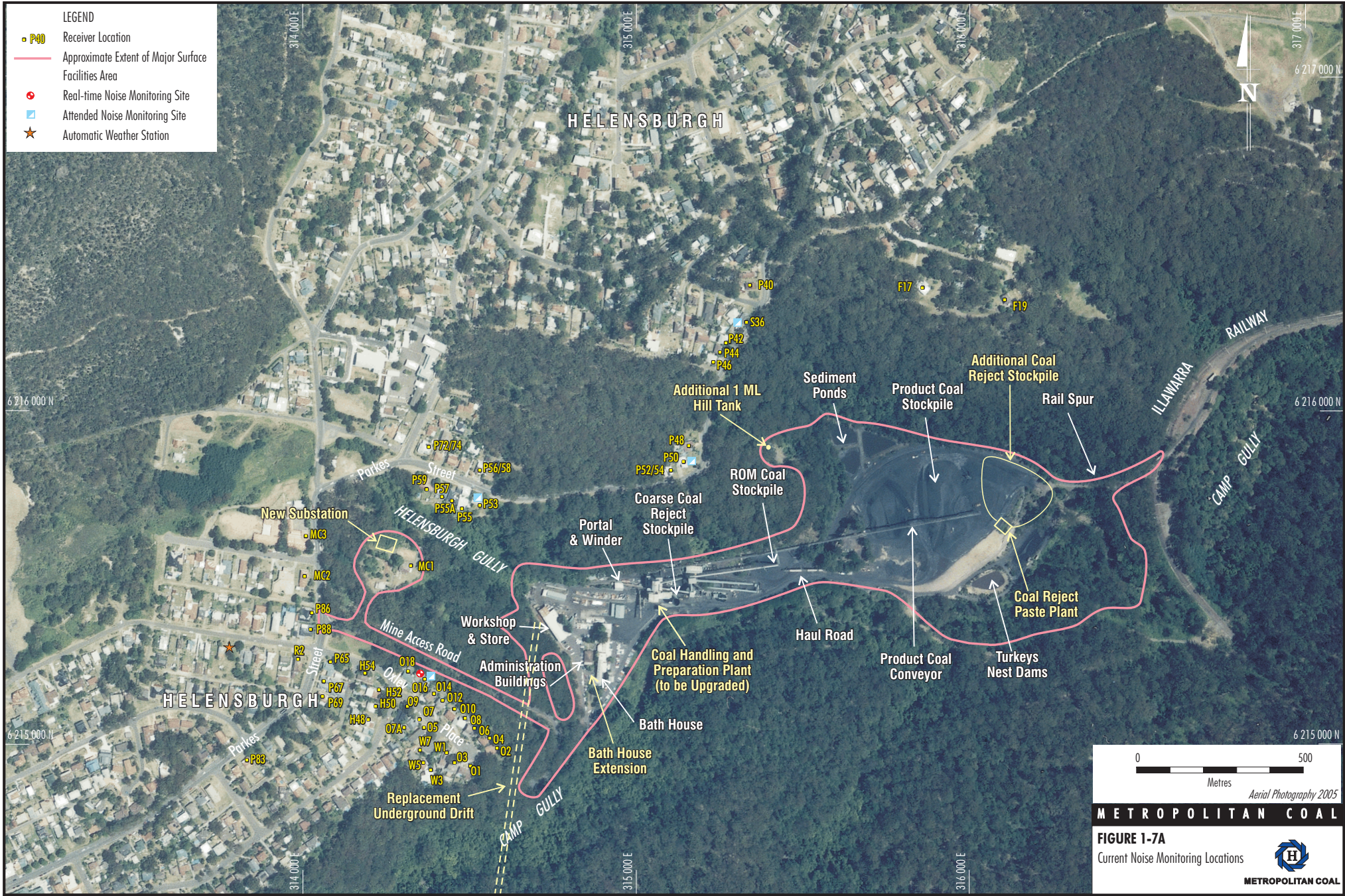


FIGURE I-6G

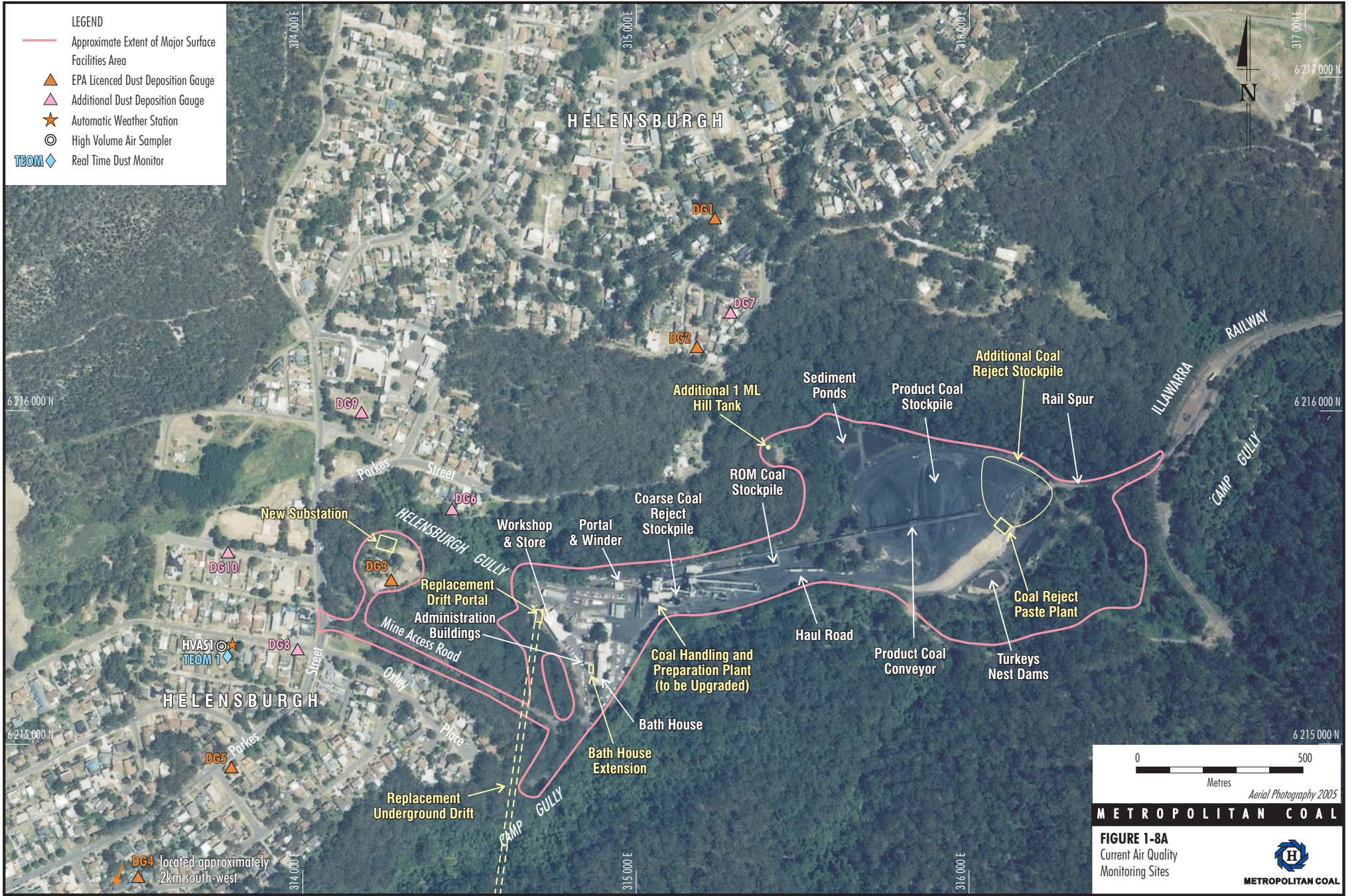
ATTACHMENT 1-7
SURFACE FACILITIES AREA
NOISE MONITORING LOCATIONS

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ATTACHMENT 1-8
SURFACE FACILITIES AREA
AIR QUALITY MONITORING LOCATIONS

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ATTACHMENT 1-9
SURFACE FACILITIES AREA
WATER MONITORING LOCATIONS

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