

METROPOLITAN COAL LONGWALLS 301-303

EXTRACTION PLAN



ATTACHMENT 2 RELEVANT CONSULTATION RECORDS

ATTACHMENT 2 RELEVANT CONSULTATION RECORDS

**Table A2-1
Consultation with Landholders**

Date	Contact Type	Description
The State of New South Wales (Crown Lands Nowra District Office)		
15/07/2016	Email from Metropolitan Coal*	Letter (dated 14 July 2016) providing information on the development of the Extraction Plan and consideration of subsidence effects and potential subsidence impacts and environmental consequences on Crown Land.
18/07/2016	Email from Crown Lands Nowra District Office	Request for the Nowra District Office to be supplied with a copy of or link to the Extraction Plan component studies, and provision of relevant contact details.
24/08/2016	Email from Metropolitan Coal	Sought clarification as to whether NSW Crown Lands would like to receive a copy of the Extraction Plan on submission to the Department of Planning and Environment (DP&E) or following DP&E approval.
24/08/2016	Email from Crown Lands Nowra District Office	Clarification provided (a copy of the Extraction Plan on submission to the DP&E).
17/10/2016	Email from Metropolitan Coal	Letter (dated 17 October 2016) advising that Metropolitan Coal had further shortened Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex, with provision of revised Longwalls 301-303 layout.
The State of New South Wales (Garawarra State Conservation Area – NSW National Parks and Wildlife Service)		
15/07/2016	Telephone call from Metropolitan Coal Manager-Technical Services	To advise of proposed mining of Longwalls 301- 303 and upcoming correspondence in relation to the Extraction Plan.
15/07/2016	Email from Metropolitan Coal*	Letter (dated 14 July 2016) providing information on the development of the Extraction Plan and consideration of subsidence effects and potential subsidence impacts and environmental consequences on the Garawarra State Conservation Area.
17/10/2016	Email from Metropolitan Coal	Letter (dated 17 October 2016) advising that Metropolitan Coal had further shortened Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex, with provision of revised Longwalls 301-303 layout.
Sutherland Shire Sport Flying Association		
15/07/2016	Email from Metropolitan Coal*	Letter (dated 14 July 2016) providing information on the development of the Extraction Plan and consideration of subsidence effects and potential subsidence impacts and environmental consequences on the Crown Land that is used for the club's activities.
15/07/2016	Email from Sutherland Shire Sport Flying Association	Advised that Sutherland Shire Sport Flying Association has no queries regarding Longwalls 301 – 303 given the distance of the longwalls from the club house and air strip. Requested information regarding Longwalls 304, 305 and 306.

**Table A2-1
Consultation with Landholders**

Date	Contact Type	Description
Sutherland Shire Sport Flying Association (Continued)		
15/07/2016	Email from Metropolitan Coal	Advised that Longwall 304 on would be the subject of a new Extraction Plan, with offer to meet to discuss the future mining plans.
17/10/2016	Email from Metropolitan Coal	Letter (dated 17 October 2016) advising that Metropolitan Coal had further shortened Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex, with provision of revised Longwalls 301-303 layout.
Robert and Carolyn Stewart		
28/06/2016	Informal meeting (Metropolitan Coal Manager-Technical Services and Robert Stewart)	Discussed proposed mining of Longwalls 301- 303 and proposed correspondence in relation to the Extraction Plan.
15/07/2016	Email from Metropolitan Coal*	Letter (dated 14 July 2016) providing information on the development of the Extraction Plan and consideration of subsidence effects and potential subsidence impacts and environmental consequences on land owned by Robert and Carolyn Stewart.
17/10/2016	Email from Metropolitan Coal	Letter (dated 17 October 2016) advising that Metropolitan Coal had further shortened Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex, with provision of revised Longwalls 301-303 layout.
The Trustees of the Macedonian Orthodox Monastery		
15/07/2016	Telephone call from Metropolitan Coal Manager-Technical Services	To advise of proposed mining of Longwalls 301- 303 and upcoming correspondence in relation to the Extraction Plan.
15/07/2016	Email from Metropolitan Coal*	Letter (dated 14 July 2016) providing information on the development of the Extraction Plan and consideration of subsidence effects and potential subsidence impacts and environmental consequences on land owned by The Trustees of the Macedonian Orthodox Monastery.
17/10/2016	Email from Metropolitan Coal	Letter (dated 17 October 2016) advising that Metropolitan Coal had further shortened Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex, with provision of revised Longwalls 301-303 layout.

* Letter attached to the email was subsequently mailed to the recipient.

**Table A2-2
Consultation with Infrastructure Owners**

Date	Contact Type	Description
Endeavour Energy		
10/06/2016	Metropolitan Coal and Endeavour Energy meeting	Discussed performance to date for Longwalls 22- 27, proposed mining of Longwalls 301-303 and Extraction Plan preparation. DRE representative attended meeting, NSW Principal Subsidence Engineer. Set framework for expectations in the upcoming Longwalls 301-303 BFMP-Endeavour Energy.
18/07/2016	Email from Metropolitan Coal	Provision of draft Subsidence Letter Report in relation to Endeavour Energy assets, with proposed agenda for meeting.
2/08/2016	Email from Metropolitan Coal	Provision of revised Subsidence Letter Report, updated to include Endeavour Energy's distribution poles nearby Garrawarra Facility.
4/08/2016 – 8/08/2016	Series of emails between Metropolitan Coal and Endeavour Energy	Emails to arrange risk assessment meeting for the Built Features Management Plan (BFMP) – Endeavour Energy.
19/08/2016	Metropolitan Coal and Endeavour Energy meeting	Meeting and risk assessment for the BFMP – Endeavour Energy.
21/09/2016	Email from Metropolitan Coal	Provision of draft BFMP – Endeavour Energy (Version A) for review/comment.
21/10/2016	Telephone message from Metropolitan Coal	Seeking feedback on draft BFMP – Endeavour Energy.
28/10/2016	Follow-up call from Metropolitan Coal	Feedback from Endeavour Energy re: BFMP – Endeavour Energy indicating that no issues with BFMP as drafted and that Endeavour Energy would provide a letter supporting the BFMP – Endeavour Energy.
Vocus (previously Nextgen)		
19/07/2016	Telephone call from Metropolitan Coal Manager-Technical Services	Introductory call in relation to the preparation of the Longwalls 301-303 Extraction Plan and associated BFMP for Nextgen assets, and confirmation of relevant contact.
19/07/2016	Email from Metropolitan Coal	Email explaining the preparation of the Longwalls 301-303 Extraction Plan and associated BFMPs, provision of draft Subsidence Letter Report for Nextgen assets, and proposal to meet to discuss the subsidence predictions and conduct a risk assessment.
4/08/2016 – 11/08/2016	Series of emails between Metropolitan Coal and Nextgen	Emails to arrange timing and attendees for meeting.
11/08/2016	Metropolitan Coal and Nextgen representative meeting	Telstra representative to also represent Nextgen. [Risk assessment meeting held for Telstra assets, applicable to Nextgen assets.]
2/09/2016	Email from Metropolitan Coal	Provision of draft BFMP – Nextgen Group (Version A) for review/comment.
16/09/2016	Follow-up call from Metropolitan Coal	Seeking feedback on draft BFMP – Nextgen.

Table A2-2 (Continued)
Consultation with Infrastructure Owners

Date	Contact Type	Description
Vocus (Continued)		
24/10/2016	Email from Nextgen	Provision of a draft Nextgen Management Plan Agreement for inclusion in the BFMP, including risk assessment.
26/10/2016	Email from Metropolitan Coal	Provision of a revised draft BFMP – Nextgen (Version B) and comments on the draft Nextgen Management Plan Agreement.
26/10/2016	Email from Nextgen	Provision of a revised draft Nextgen Management Plan Agreement for inclusion in the BFMP.
7/11/2016	Email from Nextgen	Feedback from Nextgen re: BFMP – Nextgen email indicating agreeance with the BFMP (Version B) and will sign off by 5 th December when their field manager returns from leave.
TransGrid		
31/05/2016	Metropolitan Coal and TransGrid meeting	Discussed performance to date for Longwalls 22-27, proposed mining of Longwalls 301-303 and Extraction Plan preparation. DRE representative attended meeting - NSW Principal Subsidence Engineer. Set framework for expectations in the upcoming Longwalls 301-303 BFMP-TransGrid.
18/07/2016	Email from Metropolitan Coal	Email explaining the preparation of the Longwalls 301-303 Extraction Plan and associated BFMPs, provision of draft Subsidence Letter Report for TransGrid assets, and proposal to meet to discuss the subsidence predictions and conduct a risk assessment.
19/08/2016	Telephone call from Metropolitan Coal Manager-Technical Services	To discuss arrangements for meeting (timing and attendees).
26/08/2016	Metropolitan Coal and TransGrid meeting	Meeting and risk assessment for the BFMP – TransGrid.
21/09/2016	Email from Metropolitan Coal	Provision of draft BFMP – TransGrid (Version A) for review/comment.
24/10/2016	Follow-up call from Metropolitan Coal	Seeking feedback on draft BFMP – TransGrid. Modifications made to BFMP.
24/10/2016	Email from Metropolitan Coal	Provision of draft BFMP – TransGrid (Version B) for review/comment.
2/11/2016	Email from TransGrid	Feedback from TransGrid re: BFMP – TransGrid indicating one minor change to be made to wording in a table to finalise the document. Amendment incorporated in final version of BFMP.
Optus		
19/07/2016	Telephone call from Metropolitan Coal Manager-Technical Services	Introductory call in relation to the preparation of the Longwalls 301-303 Extraction Plan and associated BFMP for Optus assets, and confirmation of relevant contact.
19/07/2016	Email from Metropolitan Coal	Email explaining the preparation of the Longwalls 301-303 Extraction Plan and associated BFMPs, provision of draft Subsidence Letter Report for Optus assets, and proposal to meet to discuss the subsidence predictions and conduct a risk assessment.

Table A2-2 (Continued)
Consultation with Infrastructure Owners

Date	Contact Type	Description
Optus (Continued)		
1/08/2016	Email from Metropolitan Coal	To organise meeting (timing and attendees).
12/08/2016	Metropolitan Coal and Optus meeting	Meeting and risk assessment for the BFMP – Optus.
8/09/2016	Email from Metropolitan Coal	Provision of draft BFMP – Optus (Version A) for review/comment.
6/10/2016	Follow-up call from Metropolitan Coal	Seeking feedback on draft BFMP – Optus. Verbally Optus mentioned that no changes were required, but still had a couple of other Optus managers to return their feedback.
28/10/2016	Follow-up email from Metropolitan Coal	Seeking draft Optus Access Agreement for inclusion in the BFMP – Optus.
2/11/2016	Follow-up call from Metropolitan Coal	Feedback from Optus re: BFMP – Optus indicating no changes to BFMP and that access agreement would not be available for timeline of publishing the BFMP.
Telstra		
19/07/2016	Telephone call from Metropolitan Coal Manager-Technical Services	Introductory call in relation to the preparation of the Longwalls 301-303 Extraction Plan and associated BFMP for Telstra assets, and confirmation of relevant contact.
19/07/2016	Email from Metropolitan Coal	Email explaining the preparation of the Longwalls 301-303 Extraction Plan and associated BFMPs, provision of draft Subsidence Letter Report for Telstra assets, and proposal to meet to discuss the subsidence predictions and conduct a risk assessment.
4/08/2016 – 8/08/2016	Series of emails between Metropolitan Coal and Telstra	To organise arrangements for meeting (timing and attendees).
11/08/2016	Metropolitan Coal and Telstra meeting	Meeting and risk assessment for the BFMP – Telstra.
31/08/2016	Email from Metropolitan Coal	Provision of draft BFMP – Telstra (Version A) for review/comment.
16/09/2016	Follow-up call from Metropolitan Coal	Seeking feedback on draft BFMP – Telstra.
20/10/2016	Telephone message from Metropolitan Coal	Seeking feedback on draft BFMP – Telstra.
21/10/2016	Email from Metropolitan Coal	Follow up email from Metropolitan Coal seeking feedback from Telstra on draft BFMP – Telstra.
24/10/2016	Email from Telstra	Provision of a draft Telstra Management Plan Agreement for inclusion in the BFMP, including risk assessment.
26/10/2016	Email from Metropolitan Coal	Provision of revised draft BFMP – Telstra (Version B) and comments on the draft Telstra Management Plan Agreement.
26/10/2016	Email from Telstra	Provision of revised draft Telstra Management Plan Agreement for inclusion in the BFMP.

Table A2-2 (Continued)
Consultation with Infrastructure Owners

Date	Contact Type	Description
Telstra (Continued)		
7/11/2016	Telephone conversation	Feedback from Telstra re: BFMP – Telstra indicating agreement with BFMP, awaiting one final comment from Telstra engineer on tilt meter orientation/location for Pole tower to finalise the Management Plan Agreement.
11/11/2016	Email from Telstra	Provision of draft Management Plan Agreement. As still to be finalised, not included in final version.
Roads and Maritime Services		
16/06/2016	Technical Committee meeting at Roads and Maritime Services (RMS)	Presentation regarding Longwalls 301-303 Extraction Plan to RMS Technical Committee.
19/07/2016	Email from Metropolitan Coal	Email explaining the preparation of the Longwalls 301-303 Extraction Plan and associated BFMPs, provision of draft Subsidence Letter Report for RMS assets, and proposal to meet to discuss the subsidence predictions and conduct a risk assessment.
19/08/2016	Telephone call from Metropolitan Coal Manager-Technical Services	To organise risk assessment meeting (timing and attendees).
25/08/2016	Metropolitan Coal and RMS meeting	Meeting and risk assessment for the BFMP – Telstra.
31/08/2016	Email from Metropolitan Coal	Provision of additional subsidence prediction details for the Cawley Road Overpass and proposed timeframe/key tasks for BFMP-RMS preparation.
8/09/2016	Email from RMS Technical Committee (risk facilitator)	Provision of draft risk assessment report.
8/09/2016	Email from Metropolitan Coal	Provision of draft BFMP – RMS (Version A) for review/comment.
11/09/2016	Email from RMS Technical Committee member	Provision of tracked edits in draft BFMP – RMS.
12/09/2016	Email from RMS Technical Committee member	Provision of tracked edits in draft BFMP – RMS.
14/09/2016	Email from RMS Technical Committee member	Provision of tracked edits in draft BFMP – RMS.
15/09/2016	Email from RMS Technical Committee member	Provision of tracked edits in draft BFMP – RMS.
15/09/2016	Email from Metropolitan Coal	Comments/clarification regarding RMS feedback and BFMP-RMS structure.
19/09/2016	Email from RMS Technical Committee member	Provision of tracked edits in draft BFMP – RMS.
20/09/2016	Email from RMS Technical Committee member	Provision of tracked edits in draft BFMP – RMS.
20/09/2016	Email from RMS Technical Committee member	Comments/clarification between Technical Committee members in relation to the draft BFMP – RMS.

Table A2-2 (Continued)
Consultation with Infrastructure Owners

Date	Contact Type	Description
Roads and Maritime Services (Continued)		
21/09/2016 – 22/09/2016	Series of emails between Metropolitan Coal and RMS	To arrange Technical Committee meeting to discuss amendments to draft BFMP – RMS.
22/09/2016	Email from RMS Technical Committee member	Provision of tracked edits in draft BFMP – RMS.
10/10/2016	Email from Metropolitan Coal	Provision of draft BFMP – RMS (Version B) with reconciliation table.
12/10/2016	Technical Committee meeting at RMS	Discussed RMS Technical Committee review comments (reconciliation table) and agreed changes.
13/10/2016	Email from Metropolitan Coal	Provision of tracked changes to the BFMP-RMS (Version B) with edits and additions discussed at the meeting (on 12 October 2016), and proposed timing for BFMP-RMS finalisation.
19/10/2016	Email from RMS Technical Committee member	Provided tracked edits in draft BFMP – RMS.
20/10/2016	Email from RMS Technical Committee (risk facilitator)	Provided revised draft risk assessment report.
21/10/2016	Email from RMS	Summary of Technical Committee meeting outcomes circulated to attendees.
21/10/2016	Email from Metropolitan Coal	Provision of review comments on revised risk assessment report.
21/10/2016	Email from Metropolitan Coal	Provision of draft BFMP – RMS (Version C).
7/11/2016	Email from RMS Technical Committee (risk facilitator)	Provision of risk assessment report.
8/11/2016	Email from RMS Technical Committee (risk facilitator)	Provision of final risk assessment report, incorporating an additional amendment to the version sent on 7 November 2016.
11/11/2016	Email from Metropolitan Coal	Provision of BFMP – RMS (Version D) to be submitted to DP&E in Longwalls 301-303 Extraction Plan.
Sydney Trains		
19/07/2016	Telephone call from Metropolitan Coal Manager-Technical Services	Introductory call in relation to the preparation of the Longwalls 301-303 Extraction Plan and associated BFMP for Sydney Trains assets, and confirmation of relevant contact.
25/07/2016	Email from Metropolitan Coal	Email explaining the preparation of the Longwalls 301-303 Extraction Plan and associated BFMPs, provision of draft Subsidence Letter Report for Sydney Trains assets, and proposal to meet to discuss the subsidence predictions and conduct a risk assessment.
4/08/2016 – 11/08/2016	Series of emails and telephone conversations between Metropolitan Coal and Sydney Trains	To arrange timing and attendees for meeting
18/08/2016	Metropolitan Coal and Sydney Trains meeting	Meeting and risk assessment for the BFMP – Sydney Trains.

Table A2-2 (Continued)
Consultation with Infrastructure Owners

Date	Contact Type	Description
Sydney Trains (Continued)		
13/09/2016	Email from Metropolitan Coal	Provision of draft BFMP – Sydney Trains (Version A) for review/comment.
20/10/2016	Telephone message from Metropolitan Coal	Seeking feedback on draft BFMP – Sydney Trains.
21/10/2016	Email from Metropolitan Coal	Follow up email from Metropolitan Coal seeking feedback from Sydney Trains on draft BFMP – Sydney Trains.
3/11/2016	Telephone message from Metropolitan Coal	Seeking feedback on BFMP – Sydney Trains. Unable to get in contact.
Wollongong City Council		
19/07/2016	Telephone call from Metropolitan Coal Manager-Technical Services	Introductory call in relation to the preparation of the Longwalls 301-303 Extraction Plan and associated BFMP for Wollongong City Council (WCC) assets, and confirmation of relevant contacts.
19/07/2016	Email from Metropolitan Coal	Email explaining the preparation of the Longwalls 301-303 Extraction Plan and associated BFMPs, provision of draft Subsidence Letter Report for WCC assets, and proposal to meet to discuss the subsidence predictions and conduct a risk assessment.
29/07/2016 – 4/08/2016	Series of emails and telephone conversations between Metropolitan Coal and Wollongong City Council	To arrange timing and attendees for meeting.
15/08/2016	Metropolitan Coal and Wollongong City Council meeting	Risk assessment held for BFMP - Garrawarra Cemetery.
15/08/2016	Metropolitan Coal and Wollongong City Council meeting	Risk assessment held for BFMP – WCC Old Princes Highway.
30/08/2016	Email from Metropolitan Coal	Requested latest version of Wollongong City Council Conservation Management Plan for the Garrawarra Cemetery.
30/08/2016	Email from Wollongong City Council	Provision of latest version of Wollongong City Council Conservation Management Plan for the Garrawarra Cemetery.
15/09/2016	Email from Metropolitan Coal	Provision of draft BFMP –WCC Old Princes Highway (Version A) for review/comment.
15/09/2016	Email from Wollongong City Council	Feedback from WCC re: BFMP – WCC Old Princes Highway indicating the BFMP was suitable as drafted apart from changing the position title of key contact.
16/09/2016	Email from Metropolitan Coal	Provision of draft BFMP – Garrawarra Cemetery (Version A) for review/comment.

Table A2-2 (Continued)
Consultation with Infrastructure Owners

Date	Contact Type	Description
Wollongong City Council (Continued)		
29/09/2016	Telephone conversation	Follow up call from Metropolitan Coal seeking feedback from WCC regarding BFMP – Waterfall General Cemetery. WCC advised that there were no comments but were waiting for staff to return from leave before providing a formal response.
6/10/2016	Email message from Wollongong City Council	Email indicating the Commercial Business Manager was satisfied with the BFMP – Garrawarra Cemetery (and confirmed again on 2 November 2016).
20/10/2016	Telephone message from Metropolitan Coal	Follow up call from Metropolitan Coal seeking feedback from WCC regarding BFMP – Garrawarra Cemetery (heritage section).
27/10/2016	Telephone message from Metropolitan Coal	Follow up call from Metropolitan Coal seeking feedback from WCC regarding BFMP – Garrawarra Cemetery (heritage section).
2/11/2016	Email message from Wollongong City Council	Email indicating the Strategic Project Officer - Heritage agreed with the Commercial Business Manager that the BFMP – Garrawarra Cemetery details the matters discussed at the 15 August 2016 meeting. Suggested the NSW Heritage Branch be provided with a copy of the BFMP – Garrawarra Cemetery for their information.
Sydney Water		
19/07/2016	Telephone call from Metropolitan Coal Manager - Technical Services	Introductory call in relation to the preparation of the Longwalls 301-303 Extraction Plan and associated BFMP for Sydney Water assets, and confirmation of relevant contacts.
19/07/2016	Email from Metropolitan Coal	Email explaining the preparation of the Longwalls 301-303 Extraction Plan and associated BFMPs, provision of draft Subsidence Letter Report for Sydney Water assets, and proposal to meet to discuss the subsidence predictions and conduct a risk assessment.
4/08/2016	Telephone conversation	To arrange timing and attendees for meeting.
15/08/2016	Metropolitan Coal and Sydney Water meeting	Risk assessment held for BFMP – Sydney Water.
8/09/2016	Email from Metropolitan Coal	Provision of draft BFMP – Sydney Water (Version A) for review/comment.
4/10/2016	Email from Sydney Water	Advised that Sydney Water require no amendments to draft BFMP – Sydney Water.

Table A2-2 (Continued)
Consultation with Infrastructure Owners

Date	Contact Type	Description
NSW Health		
June / July 2016	Multiple site visits to Garrawarra and meetings with Garrawarra General Manager	Introductory calls and visits to establish contacts in relation to the preparation of the Longwalls 301-303 Extraction Plan and associated BFMP for NSW Health assets at the Garrawarra Centre Complex. Detailed walk through of site to resolve questions on ownership of certain infrastructure, protocols for Metropolitan coal engineers to access site for assessments and status of each building.
31/08/2016	Email from Metropolitan Coal	Email explaining the preparation of the Longwalls 301-303 Extraction Plan and associated BFMPs, provision of draft Subsidence Letter Report for NSW Health assets at the Garrawarra Centre Complex, and proposal to meet to discuss the subsidence predictions and conduct a risk assessment.
6/09/2016	Email from Metropolitan Coal	To arrange timing and attendees for meeting
17/10/2016	Email from Metropolitan Coal	Provided background information and agenda for risk assessment.
20/10/2016	Metropolitan Coal and NSW Health meeting	Risk assessment held for BFMP - Garrawarra.
25/10/2016	Email from Metropolitan Coal	Provision of the draft BFMP – Garrawarra (Version A) and Preliminary Structural Inspection Report.
11/11/2016	Email from NSW Health	Advised that NSW Health require no amendments to draft BFMP – Garrawarra.
Axicom		
5/08/2016	Telephone call from Metropolitan Coal Manager - Technical Services	Introductory call in relation to the preparation of the Longwalls 301-303 Extraction Plan and associated BFMP for Axicom assets, and confirmation of relevant contacts.
5/08/2016	Email from Metropolitan Coal	Email explaining the preparation of the Longwalls 301-303 Extraction Plan and associated BFMPs, provision of draft Subsidence Letter Report for Axicom assets, and proposal to meet to discuss the subsidence predictions and conduct a risk assessment.
11/08/2016	Email from Metropolitan Coal	Emailed revised version of draft Subsidence Letter Report regarding Axicom assets.
26/08/2016	Metropolitan Coal and Axicom meeting	Risk assessment held for BFMP – Axicom.
19/09/2016	Email from Metropolitan Coal	Provision of draft BFMP – Axicom (Version A) for review/comment.
20/10/2016	Telephone message from Metropolitan Coal	Follow up call from Metropolitan Coal seeking feedback on draft BFMP – Axicom.
21/10/2016	Email from Metropolitan Coal	Follow up email from Metropolitan Coal seeking feedback on draft BFMP – Axicom.
2/11/2016	Telephone message from Metropolitan Coal	Follow up email from Metropolitan Coal seeking feedback on draft BFMP – Axicom . Unable to get in contact with representative.

Table A2-3
Draft Management Plans Distributed for Comment to Infrastructure Owners
following Longwalls 301 and 302 Approval

Date	Description
Endeavour Energy	
March 2018	Revised BFMP (Version C) provided
June 2018	Revised BFMP (Version D) provided
July 2018	Revised BFMP (Version E) provided
Vocus	
March 2018	Revised BFMP (Version C) provided
June 2018	Revised BFMP (Version D) provided
TransGrid	
May 2017	Revised BFMP (Version D) provided
June 2017	Revised BFMP (Version E) provided
June 2018	Revised BFMP (Version F) provided
Optus	
March 2018	Revised BFMP (Version C) provided
June 2018	Revised BFMP (Version D) provided
August 2018	Revised BFMP (Version E) provided
September 2018	Revised BFMP (Version F) provided
Telstra	
March 2018	Revised BFMP (Version C) provided
June 2018	Revised BFMP (Version D) provided
Roads and Maritime Services	
June 2017	Revised BFMP (Version E) provided
June 2017	Revised BFMP (Version F) provided
June 2018	Revised BFMP (Version G) provided
July 2018	Revised BFMP (Version H) provided
Sydney Trains	
March 2018	Revised BFMP (Version C) provided
June 2018	Revised BFMP (version D) provided
June 2018	Revised BFMP (Version E) provided
September 2018	Revised BFMP (Version F) provided
Sydney Water	
March 2018	Revised BFMP (Version C) provided
July 2018	Revised BFMP (Version D) provided
Wollongong City Council (Waterfall General [Garrawarra] Cemetery)	
March 2018	Revised BFMP (Version C) provided
June 2018	Revised BFMP (Version D) provided
July 2018	Revised BFMP (Version E) provided
Wollongong City Council (Old Princes Highway)	
March 2018	Revised BFMP (Version C) provided
June 2018	Revised BFMP (Version D) provided
NSW Health	
March 2018	Revised BFMP (Version C) provided
March 2018	Revised BFMP (Version D) provided
June 2018	Revised BFMP (Version E) provided
Axicom	
March 2018	Revised BFMP (Version C) provided
March 2018	Revised BFMP (Version D) provided
June 2018	Revised BFMP (Version E) provided



Mr Jon Degotardi
Manager – Technical Services
Metropolitan Collieries Pty Ltd
PO Box 402
HELENSBURGH NSW 2508

Dear Mr Degotardi

**Metropolitan Coal Project
Longwalls 301 to 303 Extraction Plan**

I refer to your letter dated 1 June 2016, requesting endorsement of experts to prepare the Extraction Plan for Longwalls 301 to 303 at the Metropolitan Coal Project, in accordance with condition 6 in Schedule 3 of Project Approval 08_0149.

The Department has reviewed the information you provided and is satisfied that the nominated experts are suitably experienced and qualified to prepare the Extraction Plan.

Accordingly, the Secretary has endorsed the following experts to prepare the Extraction Plan for Longwalls 301 to 303:

- Mr Peter De Bono – Subsidence;
- Mr Lindsay Gilbert – Water;
- Dr Noel Merrick – Groundwater;
- Dr Colin Bower – Flora;
- Dr David Goldney – Fauna;
- Mr Jamie Reeves – Heritage; and
- Mr Joshua Hunt – Land Management.

The Department supports Metropolitan Coal's approach to include the relevant post-mining requirements of the two previously approved Extraction Plan's (Longwalls 20 to 22 and Longwalls 23 to 27) in the proposed Longwalls 301 to 303 Extraction Plan, as recommended by the *Draft Guidelines for the Preparation of Extraction Plans*.

If you have any further enquiries about this matter, please contact Paul Freeman on the above contact details.

Yours sincerely

Clay Preshaw
A/Director
Resource Assessments
as nominee for the Secretary

15 August 2016

Department of Planning and Environment
Resource Assessments, Planning Services
GPO Box 39
SYDNEY NSW 2001

**Attention: Mr Mike Young, Director, Resource Assessments
Mr Clay Preshaw, A/Director, Resource Assessments**

Also by email: Mike.Young@planning.nsw.gov.au; Clay.Preshaw@planning.nsw.gov.au

Dear Mike/Clay,

RE: METROPOLITAN COAL LONGWALLS 301-303 LAND MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(f), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Land Management Plan in consultation with the Sydney Catchment Authority (SCA) (now WaterNSW) and to the satisfaction of the Director-General (now Secretary) of the Department of Planning and Environment (DP&E), to manage the potential environmental consequences of the Longwalls 301-303 Extraction Plan on cliffs and overhangs, steep slopes and land in general.

Land Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains in 2010 and 2013, respectively. This draft Metropolitan Coal Longwalls 301-303 Land Management Plan includes post-mining monitoring and management of the cliffs and overhangs, steep slopes and land in general subject to the two previously approved Metropolitan Coal Land Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for the DP&E's review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Land Management Plan. Please note that Appendix 1 of the draft Longwalls 301-303 Land Management Plan is a considerably large document, and as such will be provided on a CD. A hard copy can be provided if required.

It would be appreciated if you would kindly provide any comments to the undersigned by 9 September 2016.

Please note that we have also sent a copy of the draft Metropolitan Coal Longwalls 301-303 Land Management Plan to WaterNSW and have requested they provide comments on the draft Longwalls 301-303 Land Management Plan by 9 September 2016.

Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Jon Degotardi". The signature is written in a cursive style with a large initial "J".

JON DEGOTARDI
Manager – Technical Services

15 August 2016

Department of Planning and Environment
Resource Assessments, Planning Services
GPO Box 39
SYDNEY NSW 2001**Also by email:** Mike.Young@planning.nsw.gov.au; Clay.Preshaw@planning.nsw.gov.au**Attention: Mr Mike Young, Director, Resource Assessments
Mr Clay Preshaw, A/Director, Resource Assessments**

Dear Mike/Clay,

RE: METROPOLITAN COAL LONGWALLS 301-303 HERITAGE MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(f), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Heritage Management Plan in consultation with the NSW Office of Environment and Heritage (OEH) and relevant Aboriginal groups, to manage the potential environmental consequences of the Longwalls 301-303 Extraction Plan on Aboriginal heritage sites or values.

Heritage Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains in 2010 and 2013, respectively. This draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan includes post mining monitoring and management of the Aboriginal heritage sites subject to the two previously approved Metropolitan Coal Heritage Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for your review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan. Please note that Appendix 1 of the draft Longwalls 301-303 Heritage Management Plan is a considerably large document, and as such will be provided on a CD. A hard copy can be provided if required. It would be appreciated if you would kindly provide any comments to the undersigned by 9 September 2016.

Please note that we have also sent a copy of the draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan to the OEH (Heritage Branch) and relevant Aboriginal groups and have requested they provide comments on the draft Longwalls 301-303 Heritage Management Plan by 9 September 2016.

For your information, Aboriginal groups that have been sent a copy of the draft Longwalls 301-303 Heritage Management Plan for review and comment include:

- Cubbitch Barta Native Title Claimants.
- Illawarra Local Aboriginal Land Council.
- Korewal Elouera Jerrungurah Tribal Elders Corporation.
- Mr Gary Caines.
- La Perouse Botany Bay Aboriginal Corporation.
- Woronora Plateau Gundungara Elders Councils.
- Northern Illawarra Aboriginal Collective (including representatives from Wadi Wadi Coomaditchie Aboriginal Corporation).
- Tharawal Local Aboriginal Land Council.
- Wodi Wodi Elders Corporation.

Metropolitan Coal looks forward to your input and invites you to contact us with any queries in relation to the draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan.

Yours faithfully,

A handwritten signature in blue ink, appearing to read 'Jon Degotardi', is written over a light blue circular stamp.

JON DEGOTARDI
Manager – Technical Services



**METROPOLITAN
COLLIERIES PTY LTD**

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9 September 2016

Department of Planning and Environment
Resource Assessments, Planning Services
GPO Box 39
SYDNEY NSW 2001

**Attention: Mr Mike Young, Director, Resource Assessments
Mr Clay Preshaw, A/Director, Resource Assessments**

Also by email: Mike.Young@planning.nsw.gov.au; Clay.Preshaw@planning.nsw.gov.au

Dear Mike/Clay,

RE: METROPOLITAN COAL LONGWALLS 301-303 WATER MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(f), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Water Management Plan in consultation with the Office of Environment and Heritage (OEH), Sydney Catchment Authority (now WaterNSW) and NSW Office of Water (now the Department of Primary Industries – Water [DPI-Water]), and to the satisfaction of the Director-General (now Secretary) of the Department of Planning and Environment (DP&E) to manage the potential environmental consequences of the Longwalls 301-303 Extraction Plan on water resources and watercourses.

Water Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains in consultation with the abovementioned departments in 2010 and 2013, respectively. This draft Longwalls 301-303 Water Management Plan includes post mining monitoring and management of water resources and watercourses subject to the two previously approved Metropolitan Coal Water Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for the DP&E's review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Water Management Plan. Please note that Appendices 1 to 4 of the draft Longwalls 301-303 Water Management Plan are consistent with those previously provided in the Metropolitan Coal Longwalls 20-22 and Longwalls 23-27 Water Management Plans and are provided on CD. A hard copy of these Appendices can be provided if required. It would be appreciated if you would kindly provide any comments to the undersigned by 30 September 2016.

Please note that we have also sent a copy of the draft Metropolitan Coal Longwalls 301-303 Water Management Plan to the OEH, WaterNSW and DPI-Water, and have requested they provide comments on the draft Longwalls 301-303 Water Management Plan by 30 September 2016.

METROPOLITAN COLLIERIES PTY LTD

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Fax +61 (0) 2 4294 2064
www.peabodyenergy.com.au

Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours sincerely,

A handwritten signature in black ink, appearing to be 'S. Love', with a long horizontal flourish extending to the right.

STEPHEN LOVE

Environment & Community Coordinator



**METROPOLITAN
COLLIERIES PTY LTD**

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20 September 2016

Department of Planning and Environment
Resource Assessments, Planning Services
GPO Box 39
SYDNEY NSW 2001

**Attention: Mr Mike Young, Director, Resource Assessments
Mr Clay Preshaw, A/Director, Resource Assessments**

Also by email: Mike.Young@planning.nsw.gov.au; Clay.Preshaw@planning.nsw.gov.au

Dear Mike/Clay,

RE: METROPOLITAN COAL LONGWALLS 301-303 BIODIVERSITY MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(f), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Biodiversity Management Plan in consultation with the Office of Environment and Heritage (OEH) and Division of Resources and Energy - Fisheries (now the Department of Primary Industries – Fishing [DPI-Fishing]), and to the satisfaction of the Director-General (now Secretary) of the Department of Planning and Environment (DP&E) to manage the potential environmental consequences of the Longwalls 301-303 Extraction Plan on aquatic and terrestrial flora and fauna, with a specific focus on swamps.

Biodiversity Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains in consultation with the abovementioned departments in 2010 and 2013, respectively. The draft Longwalls 301-303 Biodiversity Management Plan includes post mining monitoring and management of aquatic and terrestrial flora and fauna subject to the two previously approved Metropolitan Coal Biodiversity Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for the DP&E's review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Biodiversity Management Plan. It would be appreciated if you would kindly provide any comments to the undersigned by 12 October 2016.

Please note that we have also sent a copy of the draft Metropolitan Coal Longwalls 301-303 Biodiversity Management Plan to the OEH and DPI-Fishing, and have requested they provide comments on the draft Longwalls 301-303 Biodiversity Management Plan by 12 October 2016.

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www.peabodyenergy.com.au

Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours sincerely,

A handwritten signature in black ink, appearing to be 'S. Love', with a long horizontal flourish extending to the right.

STEPHEN LOVE
Environment & Community Coordinator

10 October 2016

Department of Planning and Environment
Resource Assessments, Planning Services
GPO Box 39
SYDNEY NSW 2001

**Attention: Mr Mike Young, Director, Resource Assessments
Mr Clay Preshaw, A/Director, Resource Assessments**

Also by email: Mike.Young@planning.nsw.gov.au; Clay.Preshaw@planning.nsw.gov.au

Dear Mike and Clay,

RE: METROPOLITAN COAL LONGWALLS 301-303 PUBLIC SAFETY MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(g), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Public Safety Management Plan in consultation with the Division of Resources and Energy (DRE) and the Dams Safety Committee (DSC), and to the satisfaction of the Director-General (now Secretary) of the Department of Planning and Environment (DP&E), to ensure public safety within the mining area as part of the Longwalls 301-303 Extraction Plan.

Public Safety Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains in 2010 and 2013, respectively. This draft Metropolitan Coal Longwalls 301-303 Public Safety Management Plan includes post-mining monitoring and management of public safety aspects subject to the two previously approved Metropolitan Coal Public Safety Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for the DP&E's review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Public Safety Management Plan. It would be appreciated if you would kindly provide any comments to the undersigned by 31 October 2016.

Please note that we have also sent a copy of the draft Metropolitan Coal Longwalls 301-303 Public Safety Management Plan to the DRE, DSC and WaterNSW and have requested they provide comments on the draft Longwalls 301-303 Public Safety Management Plan by 31 October 2016.

Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Jon Degotardi". The signature is fluid and cursive, with the first name "Jon" and last name "Degotardi" clearly distinguishable.

JON DEGOTARDI
Manager – Technical Services

cc. Mr Paul Freeman, Senior Planning Officer, Resource Assessments (Paul.Freeman@planning.nsw.gov.au)

18 October 2016
Department of Planning and Environment
Resource Assessments, Planning Services
GPO Box 39
SYDNEY NSW 2001

Also by email: Mike.Young@planning.nsw.gov.au; Clay.Preshaw@planning.nsw.gov.au

**Attention: Mr Mike Young, Director, Resource Assessments
Mr Clay Preshaw, A/Director, Resource Assessments**

Dear Mike/Clay,

RE: METROPOLITAN COAL LONGWALLS 301-303 HERITAGE MANAGEMENT PLAN

Further to our correspondence dated 15 August 2016 and provision of the Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan (Version A), please find enclosed Version B of the Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan, which has been updated in consideration of comments received on Version A and to reflect a recent revision to the layout of Longwalls 302 and 303.

Metropolitan Coal recently committed to the further shortening of Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex. As a result of the revised longwall layout, the predicted subsidence effects generally reduce at the northern end of Longwalls 302 and 303 where the panels have been shortened.

A summary of the amendments made to the Heritage Management Plan is provided in Table 1.

Please note that we have also sent a copy of Version B of the Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan to the Office of Environment and Heritage (Heritage Branch) and the following Aboriginal groups:

- Cubbitch Barta Native Title Claimants.
- Illawarra Local Aboriginal Land Council.
- Korewal Elouera Jerrungurah Tribal Elders Corporation.
- Mr Gary Caines.
- La Perouse Botany Bay Aboriginal Corporation.
- Woronora Plateau Gundungara Elders Councils.
- Northern Illawarra Aboriginal Collective (including representatives from Wadi Wadi Coomaditchie Aboriginal Corporation).
- Tharawal Local Aboriginal Land Council.
- Wodi Wodi Elders Corporation.

Table 1
Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan Amendments

Section Reference	Amendment
4.1 (Table 2)	Schedule updated to reflect shortened Longwalls 302 and 303.
4.2, 6 and 10.2.2	Text added to recognise that all Aboriginal heritage sites are considered to be culturally significant to the Aboriginal people who have a traditional connection to Country.
4.3	Text updated and footnote 3 added to indicate Longwalls 302 and 303 were shortened subsequent to the Environmental Risk Assessment.
4.4.1	Text updated to reflect the number of heritage sites predicted to experience a slight increase in the maximum predicted vertical subsidence has reduced from eight to five as a result of the shortening of Longwalls 302 and 303. Subsidence predictions in Table 4 updated to reflect shortened Longwalls 302 and 303. The subsidence predictions for the Extraction Plan layout changed as follows: <ul style="list-style-type: none"> • FRC 85 (predicted 50 mm subsidence reduced to < 20 mm subsidence). • FRC 86 (predicted 70 mm subsidence reduced to 60 mm subsidence). • FRC 90 (predicted 70 mm subsidence reduced to 30 mm subsidence). • FRC 91 (predicted 50 mm subsidence reduced to < 20 mm subsidence).
9	Text updated to reflect the maximum predicted subsidence at sites at the completion of Longwall 303 extraction is 125 mm at site FRC 76, with predicted subsidence being 60 mm or less at all other sites (as detailed in Table 4 in Section 4.4.1).
10.2.2	Text added to clarify that reference to sites of particular cultural significance was based on previous consultation with representatives of the Aboriginal community during surveys and inspections for the Project Environmental Assessment (Kayandel Archaeological Services, 2008). Aboriginal heritage sites that have previously been identified as being of special cultural interest or of particular cultural significance within the Project underground mining area are described in Appendix H of the Project EA. It is noted that at the time of the Project EA no sites or areas of particular cultural significance were identified within the area bound by the Longwalls 301-303 35 degree angle of draw and/or predicted 20 mm subsidence contour.
Figures	Revised to reflect shortened Longwalls 302 and 303.

Please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,



JON DEGOTARDI
Manager – Technical Services

c.c. Mr Paul Freeman (Paul.Freeman@planning.nsw.gov.au)

10 October 2016

NSW Department of Industry
Division of Resources and Energy
GPO Box 5477
MAITLAND NSW 2320

Attention: Mr Zane West, Manager, Royalties and Advisory Services

Also by email: zane.west@industry.nsw.gov.au; industry.coordination@industry.nsw.gov.au

Dear Mr West,

RE: METROPOLITAN COAL LONGWALLS 301-303 PUBLIC SAFETY MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(g), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Public Safety Management Plan in consultation with the Division of Resources and Energy (DRE) to ensure public safety within the mining area as part of the Longwalls 301-303 Extraction Plan.

Public Safety Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains in 2010 and 2013, respectively. This draft Metropolitan Coal Longwalls 301-303 Public Safety Management Plan includes post-mining monitoring and management of public safety aspects subject to the two previously approved Metropolitan Coal Public Safety Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for the DRE's review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Public Safety Management Plan. It would be appreciated if you would kindly provide any comments to the undersigned by 31 October 2016.

Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours faithfully,



JON DEGOTARDI
Manager – Technical Services



**METROPOLITAN
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15 August 2016

WaterNSW
PO Box 323
PENRITH NSW 2751

Also by email: Peter.Dupen@waterNSW.com.au

Attention: Mr Peter Dupen, Manager Mining

Dear Peter,

RE: METROPOLITAN COAL LONGWALLS 301-303 LAND MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(f), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Land Management Plan in consultation with the Sydney Catchment Authority (SCA) (now WaterNSW), to manage the potential environmental consequences of the Longwalls 301-303 Extraction Plan on cliffs and overhangs, steep slopes and land in general.

Land Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains in 2010 and 2013, respectively. This draft Metropolitan Coal Longwalls 301-303 Land Management Plan includes post-mining monitoring and management of the cliffs and overhangs, steep slopes and land in general subject to the two previously approved Metropolitan Coal Land Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for WaterNSW's review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Land Management Plan. Please note that Appendix 1 of the draft Longwalls 301-303 Land Management Plan is a considerably large document, and as such will be provided on a CD. A hard copy can be provided if required.

It would be appreciated if you would kindly provide any comments to the undersigned by 9 September 2016. Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

METROPOLITAN COLLIERIES PTY LTD

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Fax +61 (0) 2 4294 2064
www.peabodyenergy.com.au

Please note that Metropolitan Coal will also provide WaterNSW with the draft Metropolitan Coal Longwalls 301-303 Water Management Plan and draft Metropolitan Coal Longwalls 301-303 Public Safety Management Plan for WaterNSW's review and comment in the near future.

Yours sincerely,

A handwritten signature in blue ink, appearing to read 'Jon Degotardi', written in a cursive style.

JON DEGOTARDI
Manager – Technical Services

9 September 2016

WaterNSW
PO Box 323
PENRITH NSW 2751100 Melbourne Street
South Brisbane Qld 4101PO Box 402
Helensburgh NSW 2508
Australia
Tel + 61 (0) 2 4294 7202
Fax + 61 (0) 2 4294 2064**Attention: Mr Peter Dupen, Manager, Mining****Also by email:** Peter.Dupen@waternsw.com.au

Dear Peter,

RE: METROPOLITAN COAL LONGWALLS 301-303 WATER MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(f), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Water Management Plan in consultation with the Sydney Catchment Authority (now WaterNSW), NSW Office of Water (now the Department of Primary Industries – Water [DPI-Water]) and Office of Environment and Heritage (OEH), and to the satisfaction of the Director-General (now Secretary) of the Department of Planning and Environment (DP&E) to manage the potential environmental consequences of the Longwalls 301-303 Extraction Plan on water resources and watercourses.

Water Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains in consultation with the abovementioned departments in 2010 and 2013, respectively. This draft Longwalls 301-303 Water Management Plan includes post mining monitoring and management of water resources and watercourses subject to the two previously approved Metropolitan Coal Water Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for WaterNSW's review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Water Management Plan. Please note that Appendices 1 to 4 of the draft Longwalls 301-303 Water Management Plan are consistent with those previously provided in the Metropolitan Coal Longwalls 20-22 and Longwalls 23-27 Water Management Plans and are provided on CD. A hard copy of these Appendices can be provided if required.

It would be appreciated if you would kindly provide any comments to the undersigned by 30 September 2016. Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours sincerely,

**STEPHEN LOVE**
Environment & Community Coordinator

10 October 2016

WaterNSW
PO Box 323
PENRITH NSW 2751

100 Melbourne Street
South Brisbane Qld 4101

PO Box 402
Helensburgh NSW 2508
Australia
Tel + 61 (0) 2 4294 7202
Fax + 61 (0) 2 4294 2064

Also by email: Peter.Dupen@watnsw.com.au

Attention: Mr Peter Dupen, Manager Mining

Dear Peter,

RE: METROPOLITAN COAL LONGWALLS 301-303 PUBLIC SAFETY MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(g), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Public Safety Management Plan to ensure public safety within the mining area as part of the Longwalls 301-303 Extraction Plan.

Public Safety Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains in 2010 and 2013, respectively. This draft Metropolitan Coal Longwalls 301-303 Public Safety Management Plan includes post-mining monitoring and management of public safety aspects subject to the two previously approved Metropolitan Coal Public Safety Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for WaterNSW's review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Public Safety Management Plan. It would be appreciated if you would kindly provide any comments to the undersigned by 31 October 2016.

Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours sincerely,



JON DEGOTARDI
Manager – Technical Services

14 October 2016

WaterNSW
PO Box 323
PENRITH NSW 2751**Attention: Mr Peter Dupen, Manager, Mining****Also by email: Peter.Dupen@waternsw.com.au**

Dear Peter,

**RE: METROPOLITAN COAL LONGWALLS 301-303 DRAFT SUBSIDENCE REPORT,
WATER MANAGEMENT PLAN AND LAND MANAGEMENT PLAN**

Further to WaterNSW's request, please find enclosed the Draft Subsidence Report for the Metropolitan Coal Longwalls 301-303 Extraction Plan, which reflects the recently shortened Longwalls 302 and 303. As a result of the revised longwall layout, the predicted subsidence effects generally reduce at the northern end of Longwalls 302 and 303 where the panels have been shortened. Please note the Draft Subsidence Report may be further revised in relation to built features to reflect the outcomes of ongoing consultation with the various asset owners.

Please also find enclosed Version B of the Draft Metropolitan Coal Longwalls 301-303 Water Management Plan and Version B of the Draft Metropolitan Coal Longwalls 301-303 Land Management Plan to reflect the revised longwall layout. A summary of the amendments made to these plans is provided in Tables 1 and 2, respectively.

Yours sincerely,

**JON DEGOTARDI**

Manager – Technical Services

- c.c. Mr Ravi Sundaram (ravi.sundaram@waternsw.com.au)
Mr Mike Young (Mike.Young@planning.nsw.gov.au)
Mr Clay Preshaw (Clay.Preshaw@planning.nsw.gov.au)
Mr Paul Freeman (Paul.Freeman@planning.nsw.gov.au)

Table 1
Draft Metropolitan Coal Longwalls 301-303 Water Management Plan Amendments

Section Reference	Amendment
5.1 (Table 4)	Schedule updated to reflect shortened Longwalls 302 and 303.
5.2	Text updated and footnote 6 added to indicate Longwalls 302 and 303 were shortened subsequent to the Environmental Risk Assessment.
7.2.1	Footnote 10 added to indicate Longwalls 302 and 303 were shortened subsequent to the completion of the Hydro Engineering & Consulting (2016b) report.
7.3.3	Text updated to reflect revised distances between Longwalls 301-303 and groundwater bores based on the revised longwall layout.
Figures	Revised to reflect shortened Longwalls 302 and 303.

Table 2
Draft Metropolitan Coal Longwalls 301-303 Land Management Plan Amendments

Section Reference	Amendment
4.1 (Table 2)	Schedule updated to reflect shortened Longwalls 302 and 303.
4.3	Text updated and footnote 4 added to indicate Longwalls 302 and 303 were shortened subsequent to the Environmental Risk Assessment.
Figures	Revised to reflect shortened Longwalls 302 and 303.

9 September 2016

Department of Primary Industries – Water
Locked Bag 5123
PARRAMATTA NSW 2124

100 Melbourne Street
South Brisbane Qld 4101

PO Box 402
Helensburgh NSW 2508
Australia
Tel + 61 (0) 2 4294 7202
Fax + 61 (0) 2 4294 2064

Also by email: water.enquiries@dpi.nsw.gov.au

Dear Sir/Madam,

RE: METROPOLITAN COAL LONGWALLS 301-303 WATER MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(f), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Water Management Plan in consultation with the NSW Office of Water (now the Department of Primary Industries – Water [DPI-Water]), Office of Environment and Heritage (OEH) and Sydney Catchment Authority (now WaterNSW), and to the satisfaction of the Director-General (now Secretary) of the Department of Planning and Environment (DP&E) to manage the potential environmental consequences of the Longwalls 301-303 Extraction Plan on water resources and watercourses.

Water Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains in consultation with the abovementioned departments in 2010 and 2013, respectively. This draft Longwalls 301-303 Water Management Plan includes post mining monitoring and management of water resources and watercourses subject to the two previously approved Metropolitan Coal Water Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for DPI-Water's review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Water Management Plan. Please note that Appendices 1 to 4 of the draft Longwalls 301-303 Water Management Plan are consistent with those previously provided in the Metropolitan Coal Longwalls 20-22 and Longwalls 23-27 Water Management Plans and are provided on CD. A hard copy of these Appendices can be provided if required.

It would be appreciated if you would kindly provide any comments to the undersigned by 30 September 2016. Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours faithfully,



STEPHEN LOVE
Environment & Community Coordinator

14 October 2016

NSW Department of Primary Industries – Water
Locked Bag 5123
PARRAMATTA NSW 2124

Attention: John Galea, Acting Senior Water Regulation Officer (Hunter – Sydney Metro)

Also by email: john.galea@dpi.nsw.gov.au

Dear John,

RE: METROPOLITAN COAL LONGWALLS 301-303 WATER MANAGEMENT PLAN

Further to our correspondence dated 9 September 2016 and provision of the Draft Metropolitan Coal Longwalls 301-303 Water Management Plan (Version A), Metropolitan Coal has recently committed to the further shortening of Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex. As a result of the revised longwall layout, the predicted subsidence effects generally reduce at the northern end of Longwalls 302 and 303 where the panels have been shortened.

Please find enclosed Version B of the Draft Metropolitan Coal Longwalls 301-303 Water Management Plan to reflect the revised longwall layout. A summary of the amendments made to the Water Management Plan is provided in Table 1.

Please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,



JON DEGOTARDI
Manager – Technical Services

Table 1
Draft Metropolitan Coal Longwalls 301-303 Water Management Plan Amendments

Section Reference	Amendment
5.1 (Table 4)	Schedule updated to reflect shortened Longwalls 302 and 303.
5.2	Text updated and footnote 6 added to indicate Longwalls 302 and 303 were shortened subsequent to the Environmental Risk Assessment.
7.2.1	Footnote 10 added to indicate Longwalls 302 and 303 were shortened subsequent to the completion of the Hydro Engineering & Consulting (2016b) report.
7.3.3	Text updated to reflect revised distances between Longwalls 301-303 and groundwater bores based on the revised longwall layout.
Figures	Revised to reflect shortened Longwalls 302 and 303.



Contact John Galea
Phone (02) 8838 7520
Email john.galea@dpi.nsw.gov.au
Our ref OUT16/39648

Stephen Love
Environment and Community Coordinator
Peabody Energy
PO Box 402
Helensburgh NSW 2508
By email: SLove@peabodyenergy.com

Dear Mr Love

Draft Metropolitan Coal Longwalls 301-303 Water Management Plan

I refer to your letter of 9 September 2016 inviting the Department of Primary Industries – Water (DPI Water) to comment on the Draft Metropolitan Coal Longwalls 301-303 Water Management Plan (WMP).

I understand that DPI Water had asked for an extension to respond to your initial referral due to a request for further information to which the company responded. I thank you for your understanding and cooperation.

While the Draft WMP includes a monitoring program that appears to be reasonable there are still some matters of uncertainty. DPI Water reiterates a comment made as part of the Department's response to the Review of the Draft Water Management Plan – Longwalls 23-27, dated 1 October 2013. Metropolitan Coal has not demonstrated that it has adequately considered the accounting of water take from different water sources as outlined in the Aquifer Interference Policy (2012). While Metropolitan Coal has indicated, it has two water access licences, WAL 36475 and WAL 25410, neither of these WALs account for the incidental take of water as described in the Policy. Metropolitan Coal will be required to demonstrate how it will account for this incidental take.

Prior to DPI Water endorsing the WMP the following matters need to be addressed, with further explanation outlined in **Attachment A**.

1. Inclusion of groundwater baseline data, or otherwise relied upon, to support the future development in the report. An Appendix, appropriately cross-referenced in the text, can be used for the summary data, with all detailed data presented in accompanying electronic files. This data should include:
 - measured groundwater levels and pressures,
 - groundwater level and flow data for swamps,
 - water quality data, and
 - mine groundwater inflow data.
2. Re-commencement of the water quality assessment for deep strata groundwater consistent with previous monitoring.
3. A plan to address or replace poorly performing Vibrating Wire Piezometers (VMP).

4. A plan to address the potential loss of deep monitoring bores (F6GW4A, 9EGW2A, PHGW2A, PHGW1B, PM02, PM01(9DGW1B)).
5. A plan to address groundwater monitoring to the east and north-east of the proposed LWs.

DPI Water also recommends that attention to the following matters would improve the quality of the WMP.

6. Charts 12 to 20 inclusive need to be made consistent; for example, in plotting Lake Woronora, explaining the term “floor”, plotting hydrographs wherever possible at constant time intervals (currently there are 3, 6, 9 and 12 month gaps not uniformly applied) to aid clarity in comparison, consider plotting individual data points.
7. Clarify the data/WMP behaviour plotted for Bore PHGW2A (Chart 16), which is approximately 2.5 km away from present mining in LW27, and compare it to the discussion presented for Bore PM02 (Chart 20) where no impact is claimed for a similarly located bore.
8. The use of, and historical development of, the numerical groundwater model (NGM) needs to be clarified. The Conditions of Approval require that the NGM be developed and used in the mining; a clear statement of how it is to be used and updated and the outcomes from this program need to be stated.
9. The veracity of the NGM with respect to mine groundwater inflows and pressure predictions for LW23-27 needs to be stated so that the adequacy of Charts 2 -11 can be assessed.
10. For increased clarity, it would be appropriate for the bore census to be updated and related key information to be restated. Show relevant bore locations on appropriate Figures.

For further information please contact John Galea, Water Regulation Officer, Parramatta Officer, telephone 8838 7520 or email john.galea@dpi.nsw.gov.au.

Yours sincerely



Irene Zinger, Regional Manager - Metro
Water Regulation

Attachment A

Some of the matters previously commented upon by DPI Water in respect of LW 23-27 are relevant to this review. Some of the matters were addressed, or are better reported, and thus are reflected in the current report, e.g. considerable deep strata monitoring has now been established/or is reported: however, the baseline data has not been included here so cannot be evaluated.

The WMP is deficient in reporting data that is relevant to developing a proper understanding of the baseline situation being impinged upon. The Proponent has this data, e.g. water levels and pressures, mine groundwater inflows, groundwater quality data, swamp flow variations but has not provided it with the report.

In comparison much surface geomorphological information is provided. Chart 2 (Section 5.4.2) is relevant because it reports modelled, future, mine groundwater inflows; however, with no data about historical inflows, and no comparison to assess the veracity of previous modelling predictions, the Chart is of limited value.

Historic groundwater inflow data, which is important for assessing impacts, is not presented. In Section 8.8.3.1 it is stated that these data will be used to assess against “performance indicators and performance measures”. The groundwater inflow data, and related water budget data, needs to be included in the WMP so that a proper baseline for assessment is available.

To aid the assessment of this WMP a consideration of the information provided against the relevant CoA i.e. #2(d) has been made.

<p>(d) include:</p> <ul style="list-style-type: none"> • detailed baseline data of the existing surface and groundwater resources in the project area; • a program for the ongoing development and use of appropriate surface and groundwater models for the project; and • a program to: <ul style="list-style-type: none"> - monitor and assess any impacts of the project on the quantity and quality of surface and ground water resources in the project area, and in particular the catchment yield to the Woronora Reservoir; and - validate and calibrate the surface and groundwater models. 	<p>Baseline groundwater data is not presented with the WMP, and thus not readily available for assessment.</p> <p>This matter is unsatisfactory.</p> <p>In Section 4.2 it is reported that the groundwater model (NGM) was recalibrated in 2012 and reporting thereon is currently in-hand. Since that time, a revised LW design has been notified. The updated NGM information is not included in the current WMP; furthermore, there is no obvious discussion as to how the NGM is to be used to assist examination and interpretation of impacts.</p> <p>This matter is unsatisfactory.</p> <p>Groundwater quality data for deeper strata is only available until February 2014, and is not presented with the WMP. Mine groundwater inflow, and swamp groundwater flow and quantity data are not presented with the WMP.</p> <p>These matters are unsatisfactory.</p>
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There are some inconsistencies in the graphical depiction of water pressure data. This is key information as it especially relates to the behaviour of groundwater in the deeper strata:

- groundwaters in these strata are generally said by the Proponent to not be impacted, and
- deeper aquiclude strata maintain their integrity and function despite subsidence impacts.

In particular, Charts 12 – 20 don't all show the same information in respect of the Woronora Reservoir e.g. level and floor. The concept of "floor" is not properly defined. The data presented includes some from VWP that are subsequently discussed as performing unsatisfactorily – these data should be eliminated. In addition, currently there are 3, 6, 9 and 12 month gaps not uniformly applied to various data plots; to aid clarity in comparison, consideration should be given to plotting individual data points and plots referenced to the same time frame.

The Proponent states that not all VMP are behaving correctly and that some data is thus not relevant – e.g. see Section 8.8.3.2, notes to Chart 18 (Bore 9EGW2A) and Chart 19 (Bore PM01/9DGW1B). This data should be removed – but apparently has not been. There is no reported plan to address/replace poorly performing VMPs. The matter was apparent in the WMP relating to previous LWs23-27.

DPI Water does not agree with the statement in relation to Chart 20 (Bore PM02) concerning the "cone of depression":

Bore PM02 is located approximately 2.5 km north-west of Longwall 303. Being far from historical and recent mining, it would not be expected to show any dramatic response to mining but could show a slight slow decline in heads as the groundwater "cone of depression" extends radially away from the area of mining. Chart 20 indicates that all potentiometric heads are high and within 40 m of the

The contention is not supported by similar performance in Bore PHGW2A (Chart 16) which is approximately 2.5 km away from present mining in LW27, despite unexplained, erratic behaviour in the VWP. The matter needs clarification.

One of the important arguments is that there is no permeability connectivity developed across the Bald Hill Claystone. Analysis of this matter is stated to have occurred (section 4.2, p29), but there is no supporting evidence for this. Importantly, that evidence related to groundwater quality and "fingerprinting"; but the data isn't included – see following discussion.

On the basis of data provided by the Proponent, groundwater quality assessment at the mine seems to have been discontinued in February 2014. This is regarded as unsatisfactory as information potentially relevant to assessing the impacts in the deeper strata is not available. The Proponent reports the existence of a supporting "Water Fingerprinting Monitoring Program" (Section 4.2) – but there is no detail available. The CoA requires attention to this matter.

Replacement bores.

The future mining will directly impact on existing monitoring bores – detailed in the following Table. The Proponent needs to address how the potential loss of data from these bores will affect monitoring and evaluation of impacts. A consideration for replacement or extension of monitoring needs to be made.

Bore	Bottoms in
F6GW4A	Bulli Coal
9EGW2A	Bulli Coal
PHGW2A	Bulli Coal
PHGW1B	Bulli Coal
PM02	Scarborough Sandstone
PM01 (9DGW1B)	Coal Cliff Sandstone

Generally, monitoring to the east and northeast of the proposed LWs is deficient and additions to the monitoring bore network should be considered in this location.

In Section 4.2 it is reported that the groundwater model (NGM) was recalibrated in 2012 and reporting thereon is currently in-hand. The fact that updating is in-hand is stated in several places. Since that time, a revised LW design has been notified (to DPI Water in October 2016). There is insufficient updated NGM information included in the current WMP and there is no obvious discussion as to how the NGM is to be used to assist examination and interpretation of impacts.

There are isolated instances of an assessment of the modelled and actual situations, including Chart 2 with respect to groundwater inflows. The projected groundwater pressures in response to mining LW 301-303 presented in Charts 3-11. However, there is no comparative discussion as to the prediction performance of the NGM in respect of previous mining e.g. LW27. Hence there is no basis for assessing the veracity of the modelling in this regard.

Previous work by the Proponent includes a bore census. In Section 4.2 the location of nearby registered bores is recoded and 3 of these are shown in Figure 9. However, there is a reference to 7 relevant bores, stated to be in Table 2 of Appendix B of a 2008 report (HCPL): accordingly it would be useful to aid the WMP if the bore census was updated, and together with related key bore information, restated in the WMP.

End of Attachment A

20 September 2016

Department of Primary Industries – Fishing
Locked Bag 1
NELSON BAY NSW 2315

Attention: Mr Scott Carter, Regional Manager, Central/Metro Aquatic Ecosystems

Also by email: scott.carter@dpi.nsw.gov.au

Dear Scott,

RE: METROPOLITAN COAL LONGWALLS 301-303 BIODIVERSITY MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(f), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Biodiversity Management Plan in consultation with the Division of Resources and Energy - Fisheries (now the Department of Primary Industries – Fishing [DPI-Fishing]) and Office of Environment and Heritage (OEH), and to the satisfaction of the Director-General (now Secretary) of the Department of Planning and Environment (DP&E) to manage the potential environmental consequences of the Longwalls 301-303 Extraction Plan on aquatic and terrestrial flora and fauna, with a specific focus on swamps.

Biodiversity Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains in consultation with the abovementioned departments in 2010 and 2013, respectively. The draft Longwalls 301-303 Biodiversity Management Plan includes post mining monitoring and management of aquatic and terrestrial flora and fauna subject to the two previously approved Metropolitan Coal Biodiversity Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for the DPI-Fishing's review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Biodiversity Management Plan. It would be appreciated if you would kindly provide any comments to the undersigned by 12 October 2016. Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours faithfully,



STEPHEN LOVE

Environment & Community Coordinator

14 October 2016

Department of Primary Industries – Fishing
Locked Bag 1
NELSON BAY NSW 2315**Attention: Mr Scott Carter, Regional Manager, Central/Metro Aquatic Ecosystems****Also by email: scott.carter@dpi.nsw.gov.au**

Dear Scott,

RE: METROPOLITAN COAL LONGWALLS 301-303 BIODIVERSITY MANAGEMENT PLAN

Further to our correspondence dated 20 September 2016 and provision of the Draft Metropolitan Coal Longwalls 301-303 Biodiversity Management Plan (Version A), Metropolitan Coal has recently committed to the further shortening of Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex. As a result of the revised longwall layout, the predicted subsidence effects generally reduce at the northern end of Longwalls 302 and 303 where the panels have been shortened.

Please find enclosed Version B of the Draft Metropolitan Coal Longwalls 301-303 Biodiversity Management Plan to reflect the revised longwall layout. A summary of the amendments made to the Biodiversity Management Plan is provided in Table 1.

Please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,

**JON DEGOTARDI**
Manager – Technical Services

Table 1
Draft Metropolitan Coal Longwalls 301-303 Biodiversity Management Plan Amendments

Section Reference	Amendment
1	Surface area revised to reflect revised Longwalls 301-303 layout.
5.1 (Table 4)	Schedule updated to reflect shortened Longwalls 302 and 303.
5.2	Text updated and footnote 18 added to indicate Longwalls 302 and 303 were shortened subsequent to the Environmental Risk Assessment.
5.3, 5.3.1 and 5.3.2 (Tables 5 and 6)	<ul style="list-style-type: none"> • Text updated to reflect changes to the number of swamps located within the 35° angle of draw and/or predicted 20 mm subsidence contour (reduced from 17 to 14). Swamps 69, 70 and 71a are no longer within the 35° angle of draw and/or predicted 20 mm subsidence contour. • Amendments to subsidence predictions to reflect shortened Longwalls 302 and 303. Subsidence predictions changed as a result of the revised layout as follows: <ul style="list-style-type: none"> - Swamp 54 (60 mm subsidence reduced to 30 mm subsidence). - Swamp 58 (250 mm subsidence reduced to 30 mm subsidence, 3 mm/m tilt reduced to <0.5 mm/m tilt, 0.04 km⁻¹ hogging curvature reduced to <0.01 km⁻¹ hogging curvature and 0.5 mm/m tensile strain reduced to < 0.5 mm/m tensile strain). - Swamp 52 (60 mm upsidence reduced to 50 mm upsidence).
5.5, 5.5.1, 5.5.2, 6, 8.4.2 and 8.8 (Table 12)	Amendments to indicate the occurrence of the Southern Sydney Sheltered Forest on Transitional Sandstone Soils in the Sydney Basin Bioregion EEC is now located approximately 280 m to the north of Longwall 301 (rather than the previous 140 m to the north-east of Longwall 302) and associated reductions in subsidence (i.e. from less than 50 mm of subsidence to less than 20 mm of subsidence).
7.1.2	<ul style="list-style-type: none"> • Text revised and footnote 23 added to indicate that Longwalls 302 and 303 were shortened subsequent to the completion of the Eco Logical (2016) report. • Text updated to reflect changes to the number of swamps located within 600 m of Longwalls 301-303 (reduced from 20 to 18). Swamps 59 and 71b are no longer within 600 m of Longwalls 301-303 secondary extraction.
7.4	Footnote 27 added to indicate Longwalls 302 and 303 were shortened subsequent to the completion of the Hydro Engineering & Consulting (2016b) report.
8.1.1 and 8.8 (Table 12)	Swamps 69, 70 and 71a have been removed from the list of swamps to be visually inspected as they are no longer within the 35° angle of draw and/or predicted 20 mm subsidence contour of Longwalls 301-303.
8.8 (Table 12)	<ul style="list-style-type: none"> • Revisions to data analysis and assessment of the aquatic biota performance indicator. • Footnote numbering updated.
Figures	Revised to reflect shortened Longwalls 302 and 303.

9 September 2016

Office of Environment and Heritage
PO Box 513
WOLLONGONG NSW 2520

100 Melbourne Street
South Brisbane Qld 4101

PO Box 402
Helensburgh NSW 2508
Australia
Tel + 61 (0) 2 4294 7202
Fax + 61 (0) 2 4294 2064

Attention: Mr Lachlan Wilmott and Mr James Dawson

Also by email: Lachlan.Wilmott@environment.nsw.gov.au; James.Dawson@environment.nsw.gov.au

Dear Lachlan and James,

RE: METROPOLITAN COAL LONGWALLS 301-303 WATER MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(f), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Water Management Plan in consultation with the Office of Environment and Heritage (OEH), Sydney Catchment Authority (now WaterNSW) and NSW Office of Water (now the Department of Primary Industries – Water [DPI-Water]), and to the satisfaction of the Director-General (now Secretary) of the Department of Planning and Environment (DP&E) to manage the potential environmental consequences of the Longwalls 301-303 Extraction Plan on water resources and watercourses.

Water Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains in consultation with the abovementioned departments in 2010 and 2013, respectively. This draft Longwalls 301-303 Water Management Plan includes post mining monitoring and management of water resources and watercourses subject to the two previously approved Metropolitan Coal Water Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for OEH's review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Water Management Plan. Please note that Appendices 1 to 4 of the draft Longwalls 301-303 Water Management Plan are consistent with those previously provided in the Metropolitan Coal Longwalls 20-22 and Longwalls 23-27 Water Management Plans and are provided on CD. A hard copy of these Appendices can be provided if required.

It would be appreciated if you would kindly provide any comments to the undersigned by 30 September 2016. Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours sincerely,



STEPHEN LOVE
Environment & Community Coordinator

20 September 2016

Office of Environment and Heritage
PO Box 513
WOLLONGONG NSW 2520

Attention: Mr Lachlan Wilmott and Mr James Dawson

Also by email: Lachlan.Wilmott@environment.nsw.gov.au; James.Dawson@environment.nsw.gov.au

Dear Lachlan and James,

RE: METROPOLITAN COAL LONGWALLS 301-303 BIODIVERSITY MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(f), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Biodiversity Management Plan in consultation with the Office of Environment and Heritage (OEH) and Division of Resources and Energy - Fisheries (now the Department of Primary Industries – Fishing [DPI-Fishing]), and to the satisfaction of the Director-General (now Secretary) of the Department of Planning and Environment (DP&E) to manage the potential environmental consequences of the Longwalls 301-303 Extraction Plan on aquatic and terrestrial flora and fauna, with a specific focus on swamps.

Biodiversity Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains in consultation with the abovementioned departments in 2010 and 2013, respectively. The draft Longwalls 301-303 Biodiversity Management Plan includes post mining monitoring and management of aquatic and terrestrial flora and fauna subject to the two previously approved Metropolitan Coal Biodiversity Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for OEH's review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Biodiversity Management Plan. It would be appreciated if you would kindly provide any comments to the undersigned by 12 October 2016. Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours sincerely,



STEPHEN LOVE
Environment & Community Coordinator

14 October 2016

Office of Environment and Heritage
PO Box 513
WOLLONGONG NSW 2520**Attention: Ms Gabrielle Pietrini (A/Director – South Branch)****Also by email:** gabrielle.pietrini@environment.nsw.gov.au

Dear Ms Pietrini,

**RE: METROPOLITAN COAL LONGWALLS 301-303 DRAFT SUBSIDENCE REPORT,
BIODIVERSITY MANAGEMENT PLAN AND WATER MANAGMENT PLAN**

Further to our email (dated 6 October 2016) and in response to the Office of Environment and Heritage's request, please find enclosed the Draft Subsidence Report for the Metropolitan Coal Longwalls 301-303 Extraction Plan, which reflects the recently shortened Longwalls 302 and 303. As a result of the revised longwall layout, the predicted subsidence effects generally reduce at the northern end of Longwalls 302 and 303 where the panels have been shortened. Please note the Draft Subsidence Report may be further revised in relation to built features to reflect the outcomes of ongoing consultation with the various asset owners.

Please also find enclosed Version B of the Draft Metropolitan Coal Longwalls 301-303 Biodiversity Management Plan and Version B of the Draft Metropolitan Coal Longwalls 301-303 Water Management Plan to reflect the revised longwall layout. A summary of the amendments made to these plans is provided in Tables 1 and 2, respectively.

Please do not hesitate to contact the undersigned should you require further information.

Yours faithfully,

**JON DEGOTARDI**

Manager – Technical Services

c.c. Mr Lachlan Wilmott (Lachlan.Wilmott@environment.nsw.gov.au)
Mr James Dawson (James.Dawson@environment.nsw.gov.au)
Mr Mike Young (Mike.Young@planning.nsw.gov.au)
Mr Clay Preshaw (Clay.Preshaw@planning.nsw.gov.au)
Mr Paul Freeman (Paul.Freeman@planning.nsw.gov.au)

Table 1
Draft Metropolitan Coal Longwalls 301-303 Biodiversity Management Plan Amendments

Section Reference	Amendment
1	Surface area revised to reflect revised Longwalls 301-303 layout.
5.1 (Table 4)	Schedule updated to reflect shortened Longwalls 302 and 303.
5.2	Text updated and footnote 18 added to indicate Longwalls 302 and 303 were shortened subsequent to the Environmental Risk Assessment.
5.3, 5.3.1 and 5.3.2 (Tables 5 and 6)	<ul style="list-style-type: none"> • Text updated to reflect changes to the number of swamps located within the 35° angle of draw and/or predicted 20 mm subsidence contour (reduced from 17 to 14). Swamps 69, 70 and 71a are no longer within the 35° angle of draw and/or predicted 20 mm subsidence contour. • Amendments to subsidence predictions to reflect shortened Longwalls 302 and 303. Subsidence predictions changed as a result of the revised layout as follows: <ul style="list-style-type: none"> - Swamp 54 (60 mm subsidence reduced to 30 mm subsidence). - Swamp 58 (250 mm subsidence reduced to 30 mm subsidence, 3 mm/m tilt reduced to <0.5 mm/m tilt, 0.04 km⁻¹ hogging curvature reduced to <0.01 km⁻¹ hogging curvature and 0.5 mm/m tensile strain reduced to < 0.5 mm/m tensile strain). - Swamp 52 (60 mm upsidence reduced to 50 mm upsidence).
5.5, 5.5.1, 5.5.2, 6, 8.4.2 and 8.8 (Table 12)	Amendments to indicate the occurrence of the Southern Sydney Sheltered Forest on Transitional Sandstone Soils in the Sydney Basin Bioregion EEC is now located approximately 280 m to the north of Longwall 301 (rather than the previous 140 m to the north-east of Longwall 302) and associated reductions in subsidence (i.e. from less than 50 mm of subsidence to less than 20 mm of subsidence).
7.1.2	<ul style="list-style-type: none"> • Text revised and footnote 23 added to indicate that Longwalls 302 and 303 were shortened subsequent to the completion of the Eco Logical (2016) report. • Text updated to reflect changes to the number of swamps located within 600 m of Longwalls 301-303 (reduced from 20 to 18). Swamps 59 and 71b are no longer within 600 m of Longwalls 301-303 secondary extraction.
7.4	Footnote 27 added to indicate Longwalls 302 and 303 were shortened subsequent to the completion of the Hydro Engineering & Consulting (2016b) report.
8.1.1 and 8.8 (Table 12)	Swamps 69, 70 and 71a have been removed from the list of swamps to be visually inspected as they are no longer within the 35° angle of draw and/or predicted 20 mm subsidence contour of Longwalls 301-303.
8.8 (Table 12)	<ul style="list-style-type: none"> • Revisions to data analysis and assessment of the aquatic biota performance indicator. • Footnote numbering updated.
Figures	Revised to reflect shortened Longwalls 302 and 303.

Table 2
Draft Metropolitan Coal Longwalls 301-303 Water Management Plan Amendments

Section Reference	Amendment
5.1 (Table 4)	Schedule updated to reflect shortened Longwalls 302 and 303.
5.2	Text updated and footnote 6 added to indicate Longwalls 302 and 303 were shortened subsequent to the Environmental Risk Assessment.
7.2.1	Footnote 10 added to indicate Longwalls 302 and 303 were shortened subsequent to the completion of the Hydro Engineering & Consulting (2016b) report.
7.3.3	Text updated to reflect revised distances between Longwalls 301-303 and groundwater bores based on the revised longwall layout.
Figures	Revised to reflect shortened Longwalls 302 and 303.

15 August 2016

Office of Environment and Heritage
Heritage Division
Locked Bag 5020
PARRAMATTA NSW 2124

Also by email: heritagemailbox@environment.nsw.gov.au

Attention: Ms Pauline McKenzie, Executive Director – Heritage Branch

Dear Ms McKenzie,

RE: METROPOLITAN COAL LONGWALLS 301-303 HERITAGE MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(f), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Heritage Management Plan in consultation with the NSW Office of Environment and Heritage (OEH) and relevant Aboriginal groups, to manage the potential environmental consequences of the Longwalls 301-303 Extraction Plan on Aboriginal heritage sites or values.

Heritage Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains which were provided to the OEH and relevant Aboriginal groups for consultation in 2010 and 2013, respectively. This draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan includes post mining monitoring and management of the Aboriginal heritage sites subject to the two previously approved Metropolitan Coal Heritage Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for the OEH's review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan. Please note that Appendix 1 of the draft Longwalls 301-303 Heritage Management Plan is a considerably large document, and as such will be provided on a CD. A hard copy can be provided if required.

Please note that we have also sent a copy of the draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan to the relevant Aboriginal groups and have requested they provide comments on the draft Longwalls 301-303 Heritage Management Plan by 9 September 2016.

For your information, Aboriginal groups that have been sent a copy of the draft Longwalls 301-303 Heritage Management Plan for review and comment include:

- Cubbitch Barta Native Title Claimants.
- Illawarra Local Aboriginal Land Council.
- Korewal Elouera Jerrungurah Tribal Elders Corporation.
- Mr Gary Caines.
- La Perouse Botany Bay Aboriginal Corporation.
- Woronora Plateau Gundungara Elders Councils.
- Northern Illawarra Aboriginal Collective (including representatives from Wadi Wadi Coomaditchie Aboriginal Corporation).
- Tharawal Local Aboriginal Land Council.
- Wodi Wodi Elders Corporation.

It would be appreciated if you would kindly provide any comments to the undersigned by 9 September 2016.

Metropolitan Coal looks forward to your input and invites you to contact us with any queries in relation to the draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan.

Yours faithfully,

A handwritten signature in blue ink, appearing to read 'Jon Degotardi', is written in a cursive style.

JON DEGOTARDI
Manager – Technical Services

18 October 2016

Office of Environment and Heritage
Heritage Division
Locked Bag 5020
PARRAMATTA NSW 2124

By email: heritagemailbox@environment.nsw.gov.au

Attention: Ms Pauline McKenzie, Executive Director – Heritage Branch

Dear Ms McKenzie,

RE: METROPOLITAN COAL LONGWALLS 301-303 HERITAGE MANAGEMENT PLAN

Further to our correspondence dated 15 August 2016 and provision of the Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan (Version A), please find enclosed Version B of the Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan, which has been updated in consideration of comments received on Version A and to reflect a recent revision to the layout of Longwalls 302 and 303.

Metropolitan Coal recently committed to the further shortening of Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex. As a result of the revised longwall layout, the predicted subsidence effects generally reduce at the northern end of Longwalls 302 and 303 where the panels have been shortened.

A summary of the amendments made to the Metropolitan Coal Longwalls 301-303 Heritage Management Plan is provided in Table 1.

For your information, Aboriginal groups that have been sent a copy of Version B of the Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan include:

- Cubbitch Barta Native Title Claimants.
- Illawarra Local Aboriginal Land Council.
- Korewal Elouera Jerrungurah Tribal Elders Corporation.
- Mr Gary Caines.
- La Perouse Botany Bay Aboriginal Corporation.
- Woronora Plateau Gundungara Elders Councils.
- Northern Illawarra Aboriginal Collective (including representatives from the Wadi Wadi Coomaditchie Aboriginal Corporation).
- Tharawal Local Aboriginal Land Council.
- Wodi Wodi Elders Corporation.

Table 1
Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan Amendments

Section Reference	Amendment
4.1 (Table 2)	Schedule updated to reflect shortened Longwalls 302 and 303.
4.2, 6 and 10.2.2	Text added to recognise that all Aboriginal heritage sites are considered to be culturally significant to the Aboriginal people who have a traditional connection to Country.
4.3	Text updated and footnote 3 added to indicate Longwalls 302 and 303 were shortened subsequent to the Environmental Risk Assessment.
4.4.1	Text updated to reflect the number of heritage sites predicted to experience a slight increase in the maximum predicted vertical subsidence has reduced from eight to five as a result of the shortening of Longwalls 302 and 303. Subsidence predictions in Table 4 updated to reflect shortened Longwalls 302 and 303. The subsidence predictions for the Extraction Plan layout changed as follows: <ul style="list-style-type: none"> • FRC 85 (predicted 50 mm subsidence reduced to < 20 mm subsidence). • FRC 86 (predicted 70 mm subsidence reduced to 60 mm subsidence). • FRC 90 (predicted 70 mm subsidence reduced to 30 mm subsidence). • FRC 91 (predicted 50 mm subsidence reduced to < 20 mm subsidence).
9	Text updated to reflect the maximum predicted subsidence at sites at the completion of Longwall 303 extraction is 125 mm at site FRC 76, with predicted subsidence being 60 mm or less at all other sites (as detailed in Table 4 in Section 4.4.1).
10.2.2	Text added to clarify that reference to sites of particular cultural significance was based on previous consultation with representatives of the Aboriginal community during surveys and inspections for the Project Environmental Assessment (Kayandel Archaeological Services, 2008). Aboriginal heritage sites that have previously been identified as being of special cultural interest or of particular cultural significance within the Project underground mining area are described in Appendix H of the Project EA. It is noted that at the time of the Project EA no sites or areas of particular cultural significance were identified within the area bound by the Longwalls 301-303 35 degree angle of draw and/or predicted 20 mm subsidence contour.
Figures	Revised to reflect shortened Longwalls 302 and 303.

Please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,



JON DEGOTARDI
Manager – Technical Services

10 October 2016

Dams Safety Committee
PO Box 33720
PARRAMATTA NSW 2124100 Melbourne Street
South Brisbane Qld 4101PO Box 402
Helensburgh NSW 2508
Australia
Tel + 61 (0) 2 4294 7202
Fax + 61 (0) 2 4294 2064**Attention:** Mr Bill Ziegler, Manager Mining Projects**Also by email:** bill.ziegler@damsafety.nsw.com.au

Dear Bill,

RE: METROPOLITAN COAL LONGWALLS 301-303 PUBLIC SAFETY MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(g), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Public Safety Management Plan in consultation with the Dams Safety Committee (DSC) to ensure public safety within the mining area as part of the Longwalls 301-303 Extraction Plan.

Public Safety Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains in 2010 and 2013, respectively. This draft Metropolitan Coal Longwalls 301-303 Public Safety Management Plan includes post-mining monitoring and management of public safety aspects subject to the two previously approved Metropolitan Coal Public Safety Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for the DSC's review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Public Safety Management Plan. It would be appreciated if you would kindly provide any comments to the undersigned by 31 October 2016.

Please note that the Longwalls 301-303 Extraction Plan mining layout is consistent with the mining layout endorsed by the DSC (dated 5 August 2014), with some minor variations (e.g. to the length of Longwalls 302 and 303). We will be in contact shortly with the DSC in relation to these variations.

Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours sincerely,

**JON DEGOTARDI**
Manager – Technical Services



28 October, 2016

10.123.196

Jon Degotardi
Technical Services Manager
Metropolitan Coal
PO Box 402
HELENSBURGH NSW 2508

Dear Sir,

**Metropolitan Mine
Longwalls 301-303 Public Safety Management Plan**

I refer to your correspondence of the 10th October 2016 wherein you requested comments on the above mentioned Management Plan.

The Committee has no comments on the issues addressed in the PSMP. The Plan does not cover issues relevant to the DSC's jurisdiction, which is the safety of Woronora Dam and its stored waters.

If you have any queries in this regard please contact Bill Ziegler on 02 9842 8077.

Yours faithfully,

for Steve Knight
Executive Engineer
Dams Safety Committee

G:\DamSafety\Dataserver\Files_123_MiningApp\196_Metropolitan_4\PSMP_DSC_comments_to_mine.docx

Postal: NSW Dams Safety Committee
Locked Bag 5123
Parramatta NSW 2124
Australia

Address:
Level 3
10 Valentine Avenue
Parramatta NSW 2150

Phone: (02) 9842 8073
Fax: (02) 9842 8071
http: www.damsafety.nsw.gov.au
email: dsc@damsafety.nsw.gov.au



ABN 55 079 703 705

25 July 2016

Mine Subsidence Board
PO Box 488G
Newcastle NSW 2571**Attention: Ms Katherine McInnes, Chief Executive Officer****Also by email:** C/- Ms Joanne Pilkington, Chief Executive Officer Personal Assistant
(j.pilkington@minesub.nsw.gov.au)

Dear Ms McInnes,

RE: METROPOLITAN COAL LONGWALLS 301-303 EXTRACTION PLAN

Metropolitan Coal is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW) (Figure 1). Metropolitan Coal is one of the earliest established and longest continually running coal mining operations in Australia, with a history dating back to the 1880s.

Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*. The Project comprises the continuation, upgrade and extension of underground coal mining operations and surface facilities at Metropolitan Coal. The underground mining longwall layout is shown on Figure 1. The Metropolitan Coal Environmental Management Structure is shown on Figure 2.

In accordance with Condition 6, Schedule 3 of the Project Approval, Metropolitan Coal prepares Extraction Plans for specific mining domains as mining progresses. Metropolitan Coal is currently preparing an Extraction Plan for the next area of longwall mining, namely Longwalls 301-303.

The anticipated start date for Longwall 301 is April 2017. The provisional extraction schedule commencement and completion dates for Longwalls 301-303 are provided in Table 1.

Table 1
Provisional Extraction Schedule for Longwalls 301 to 303

Longwall	Estimated Start Date	Estimated Duration	Estimated Completion Date
LW301	April 2017	6 months	September 2017
LW302	November 2017	7 months	May 2018
LW303	July 2018	8 months	February 2019

The Metropolitan Coal Longwalls 301-303 Extraction Plan will outline the proposed management, mitigation, monitoring and reporting of potential subsidence impacts and environmental consequences from the secondary extraction of Longwalls 301-303.

The Longwalls 301-303 Extraction Plan will include (but not be limited to) the following management plans and monitoring programs:

- Longwalls 301-303 Water Management Plan.
- Longwalls 301-303 Land Management Plan.
- Longwalls 301-303 Biodiversity Management Plan.
- Longwalls 301-303 Built Features Management Plan.
- Longwalls 301-303 Heritage Management Plan.
- Longwalls 301-303 Public Safety Management Plan.
- Longwalls 301-303 Subsidence Monitoring Program.

A title search has been conducted of land within 600 metres of Longwalls 301-303, the owners of which have been identified as The State of New South Wales (Crown Land), The State of New South Wales (Garrawarra State Conservation Area), WaterNSW, Health Administration Corporation, Robert and Carolyn Stewart, and The Trustees of the Macedonian Orthodox Monastery. The location of each lot and landholder in relation to Longwalls 301-303 is shown on Figure 3. Metropolitan Coal will consult with each landholder in relation to the Longwalls 301-303 Extraction Plan.

Metropolitan Coal will also consult with each infrastructure owner in relation to the Longwalls 301-303 Extraction Plan. Potential impacts to built features will be managed in accordance with the relevant Longwalls 301-303 Built Features Management Plans being prepared in consultation with infrastructure owners including Endeavour Energy, TransGrid, Nextgen, Optus, Telstra, Vodafone, Ausgrid, Roads and Maritime Services, Sydney Water, Sydney Trains, South Eastern Sydney Illawarra Area Health Service (for the Garrawarra Centre) and Wollongong City Council (for the management of roads and the Waterfall General [Garrawarra] Cemetery).

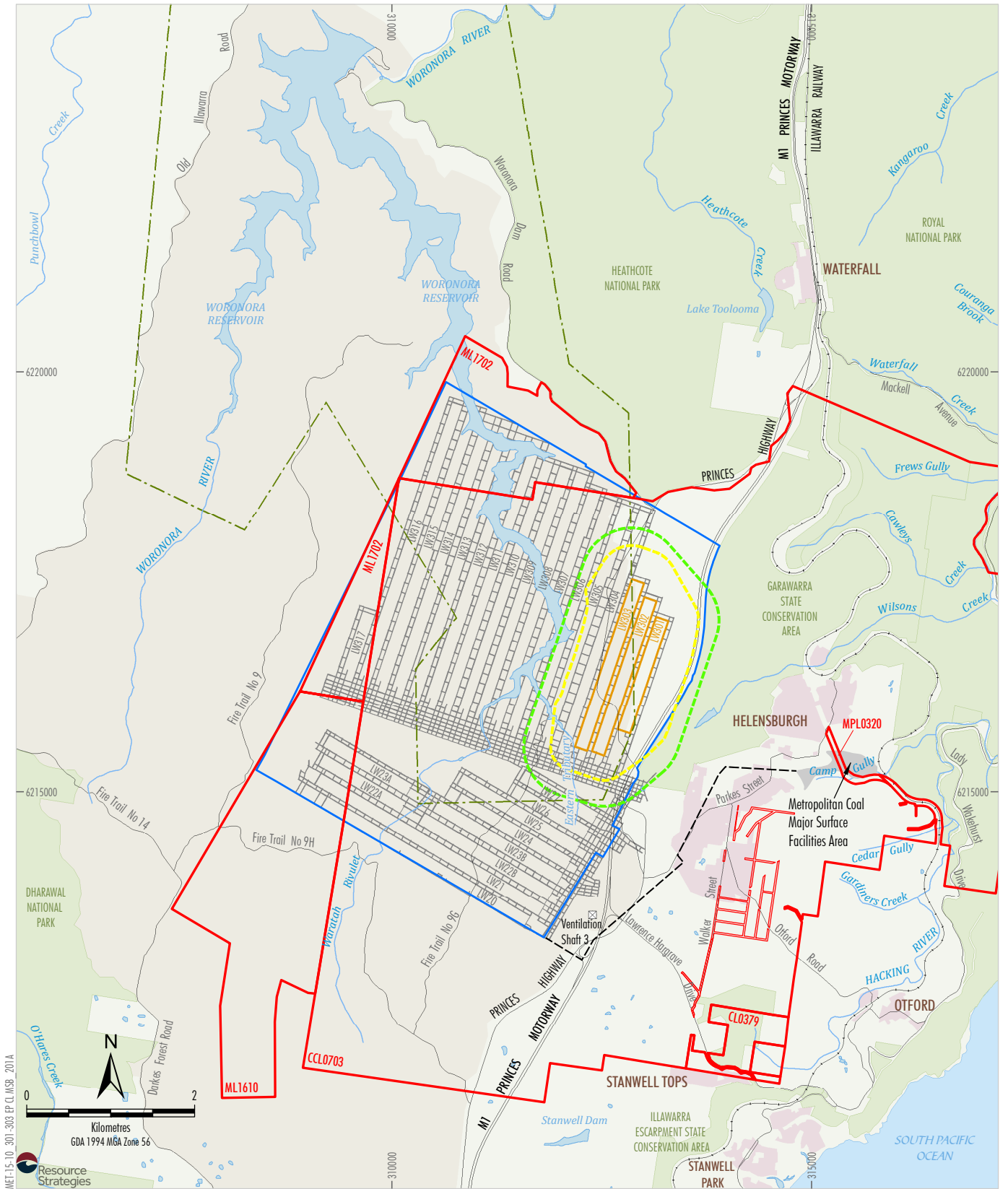
Survey control marks are also located in the vicinity of Longwalls 301-303. In accordance with the NSW Government's (2015) *Surveyor General's Directions No. 11 Preservation of Survey Infrastructure*, Metropolitan Coal has notified the Senior Surveyor, Land & Property Information (LPI) NSW of the likely impacts of Longwalls 301-303 to survey control marks.

It would be appreciated if the Mine Subsidence Board could contact the undersigned on (02) 4294 7233 should the Mine Subsidence Board require further consultation in relation to the Metropolitan Coal Longwalls 301-303 Extraction Plan.

Yours faithfully,



JON DEGOTARDI
Manager – Technical Services



LEGEND

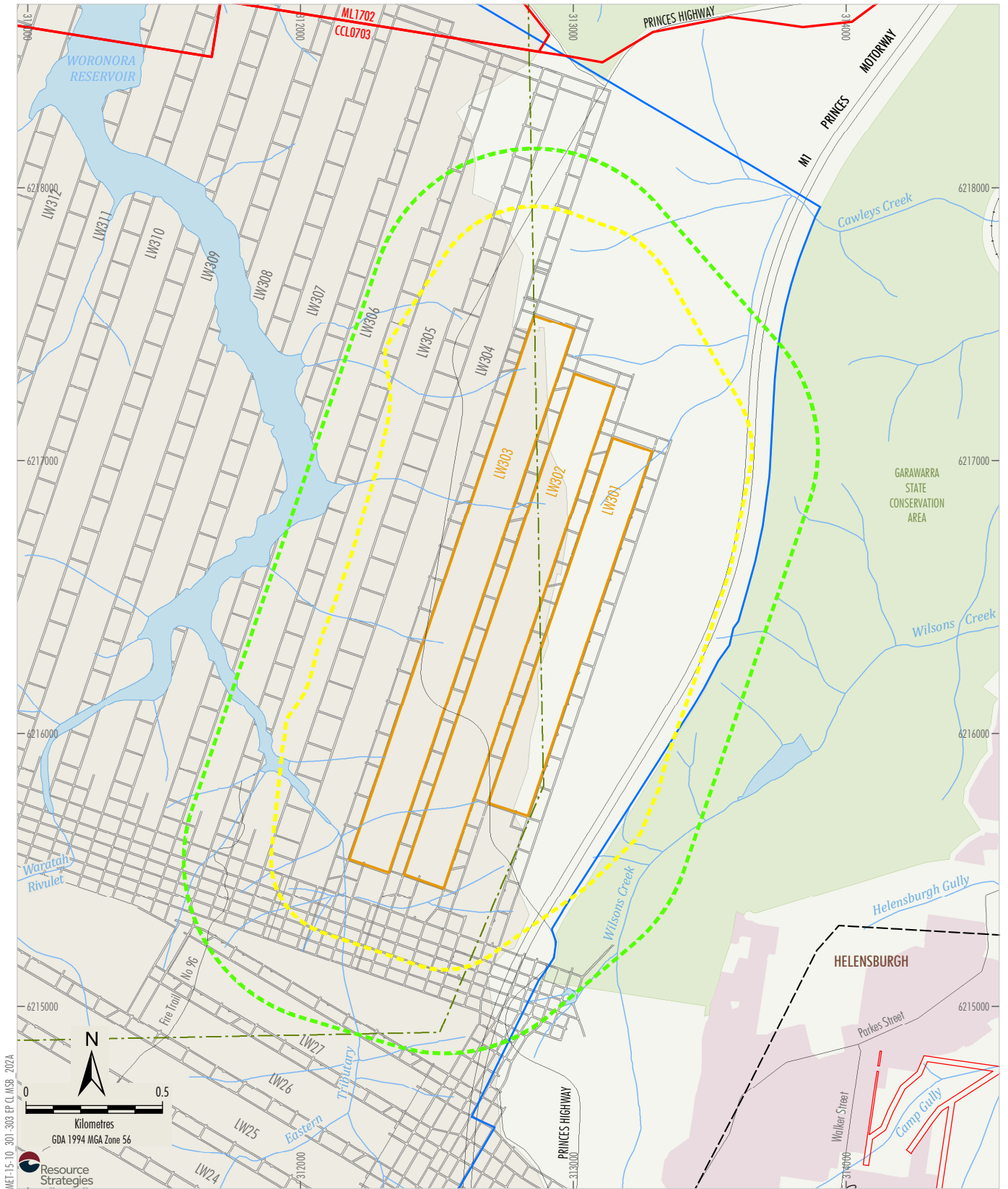
- Mining Lease Boundary
- Woronora Special Area
- Railway
- Project Underground Mining Area
Longwalls 20-27 and 301-317
- Longwalls 301 - 303 Secondary Extraction
- 35° Angle of Draw and Predicted
20 mm Subsidence Contour
- 600 m from Secondary Extraction of
Longwalls 301-303
- Woronora Notification Area
- Existing Underground Access Drive (Main Drift)

Source: Land and Property Information (2015); Department of Industry (2015);
Metropolitan Coal (2016); MSEC (2016)



METROPOLITAN COAL
Project Longwalls 20 - 27 and
Longwalls 301 - 317 Layout

Figure 1



MEF-15-10-301-303 EP CL MSR 2024

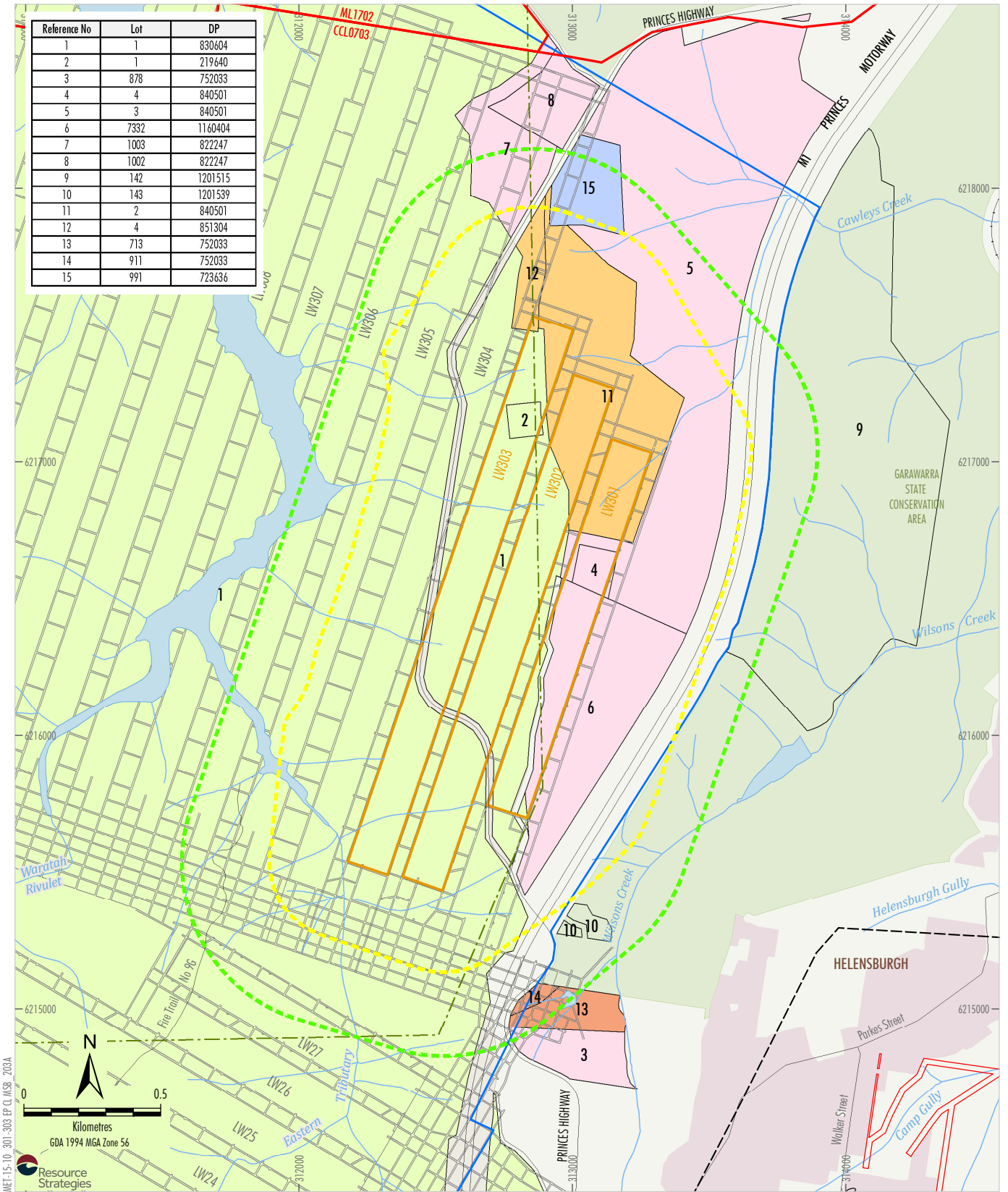


- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
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Longwalls 20-27 and 301-317
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 - Existing Underground Access Drive (Main Drift)

Source: Land and Property Information (2015); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Longwalls 301 - 303 Layout

Figure 2



- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
 - Railway
 - Project Underground Mining Area Longwalls 20-27 and 301-317
 - Longwalls 301 - 303 Secondary Extraction
 - 35° Angle of Draw and Predicted 20 mm Subsidence Contour
 - 600 m from Secondary Extraction of Longwalls 301-303
 - Woronora Notification Area
 - Existing Underground Access Drive (Main Drift)

- Landholder**
- WaterNSW
 - The State of New South Wales (Crown Land)
 - The State of New South Wales (Garawarra State Conservation Area)
 - Health Administration Corporation
 - The Trustees of the Macedonian Orthodox Monastery
 - R & C Stewart

Source: Land and Property Information (2015, 2016); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Land Ownership Within
600 m of Longwalls 301 - 303

Figure 3



Mr Jon Degotardi
Manager Technical Services
Metropolitan Colliery
Parkes Street,
Helensburgh NSW 2508

Via email: jdegotardi@peabodyenergy.com

Dear Mr Jon Degotardi,

Metropolitan Coal Longwalls 301-303 Extraction Plan

Thankyou for your email and accompanying letter dated 25 July 2016 concerning the proposed Extraction Plan for Longwalls LW301 to 303.

The Mine Subsidence Board notes the requirements of Project Approval 08_0149 as determined by the NSW Minister of Planning. To enable the Mine Subsidence Board (MSB) to review and comment on the Extraction Plan please forward a copy. MSB will be interested in;

- Any surface improvements likely to be impacted by subsidence.
- Detailed performance indicators, ensuring surface improvements will remain safe, serviceable and repairable.
- Current predictions of the potential subsidence effects and impacts (in respect of surface improvements).
- Measures to ensure compliance with the performance measures.
- Extent of subsidence monitoring in respect of surface development.

On receipt of this information the MSB will be able to provide comment.

Should Metropolitan Colliery require further consultation in relation to this matter please contact Mr Peter Evans (Technical Manager) ph 0249084391.

Yours sincerely

Peter Evans
Technical Manager
Mine Subsidence Board

31 July 2016

17 October 2016

Mine Subsidence Board
PO Box 488G
Newcastle NSW 2300**Attention: Mr Peter Evans, Technical Manager****Also by email:** p.evans@minesub.nsw.gov.au;

Dear Peter,

RE: METROPOLITAN COAL LONGWALLS 301-303 EXTRACTION PLAN

Further to our correspondence dated 14 July 2016, Metropolitan Coal has recently committed to the further shortening of Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex.

As a result of the revised longwall layout (Figure 1), the predicted subsidence effects generally reduce at the northern end of Longwalls 302 and 303 where the panels have been shortened. In summary, the panel void length of Longwall 302 was reduced from 1,954 m to 1,775 m and the panel void length of Longwall 303 was reduced from 2,122 m to 1,788 m.

The anticipated start date for Longwall 301 is April 2017. The provisional extraction schedule commencement and completion dates for Longwalls 301-303 have been amended to reflect the revised longwall layout and are provided in Table 1.

**Table 1
Provisional Extraction Schedule for Longwalls 301 to 303**

Longwall	Estimated Start Date	Estimated Duration	Estimated Completion Date
LW301	April 2017	6 months	September 2017
LW302	November 2017	7 months	May 2018
LW303	June 2018	7 months	December 2018

Please do not hesitate to contact the undersigned if you have any queries.

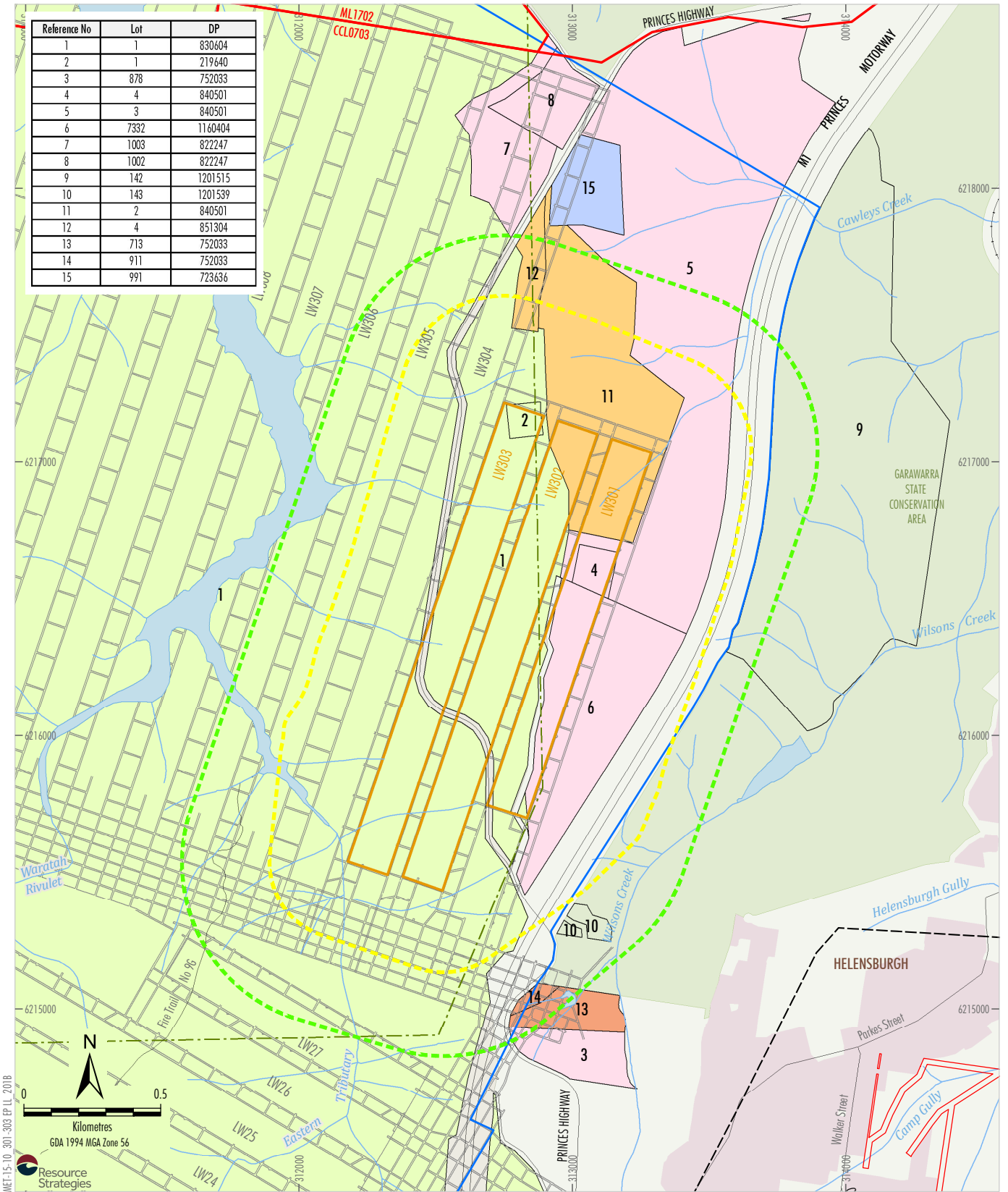
Yours sincerely,

A handwritten signature in blue ink, appearing to read 'Jon Degotardi', written in a cursive style.

JON DEGOTARDI

Manager – Technical Services

c.c. Ms Katherine McInnes, Chief Executive Officer
C/- Ms Joanne Pilkington, Chief Executive Officer Personal Assistant
(j.pilkington@minesub.nsw.gov.au)



- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
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- Landholder**
- WaterNSW
 - The State of New South Wales
(Crown Land)
 - The State of New South Wales
(Garawarra State Conservation Area)
 - Health Administration Corporation
 - The Trustees of the
Macedonian Orthodox Monastery
R & C Stewart

Source: Land and Property Information (2015, 2016); Department of Industry (2015);
Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Land Ownership Within
600 m of Longwalls 301 - 303

Figure 1

25 July 2016

Environment Protection Authority
PO Box 513
Wollongong NSW 2520

Attention: Mr Andrew Couldridge, Senior Operations Officer

Also by email: andrew.couldridge@epa.nsw.gov.au

Dear Andrew,

RE: METROPOLITAN COAL LONGWALLS 301-303 EXTRACTION PLAN

Metropolitan Coal is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW) (Figure 1).

Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*. The Project comprises the continuation, upgrade and extension of underground coal mining operations and surface facilities at Metropolitan Coal. The underground mining longwall layout is shown on Figure 1. The Metropolitan Coal Environmental Management Structure is shown on Figure 2.

In accordance with Condition 6, Schedule 3 of the Project Approval, Metropolitan Coal prepares Extraction Plans for specific mining domains as mining progresses. Metropolitan Coal is currently preparing an Extraction Plan for the next area of longwall mining, namely Longwalls 301-303.

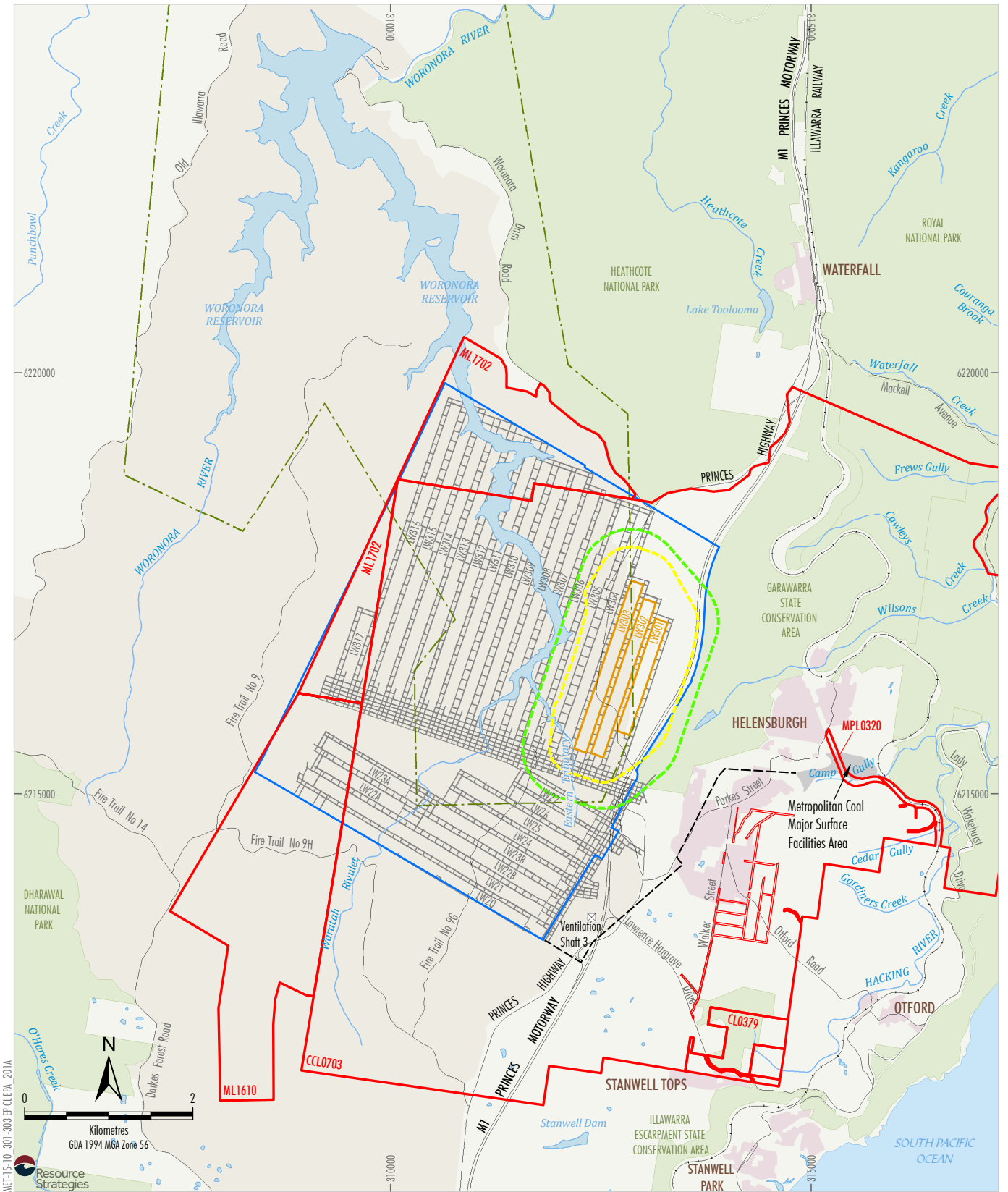
Condition 6, Schedule 3 of the Project Approval does not specifically require consultation with the Environment Protection Authority in regard to the Extraction Plan. It would be appreciated if you could advise Metropolitan Coal of the Environment Protection Authority's consultation requirements in relation to the Longwalls 301-303 Extraction Plan.

Please do not hesitate to contact the undersigned on (02) 4294 7233 should you have any queries or wish to discuss.

Yours faithfully,



JON DEGOTARDI
Manager – Technical Services

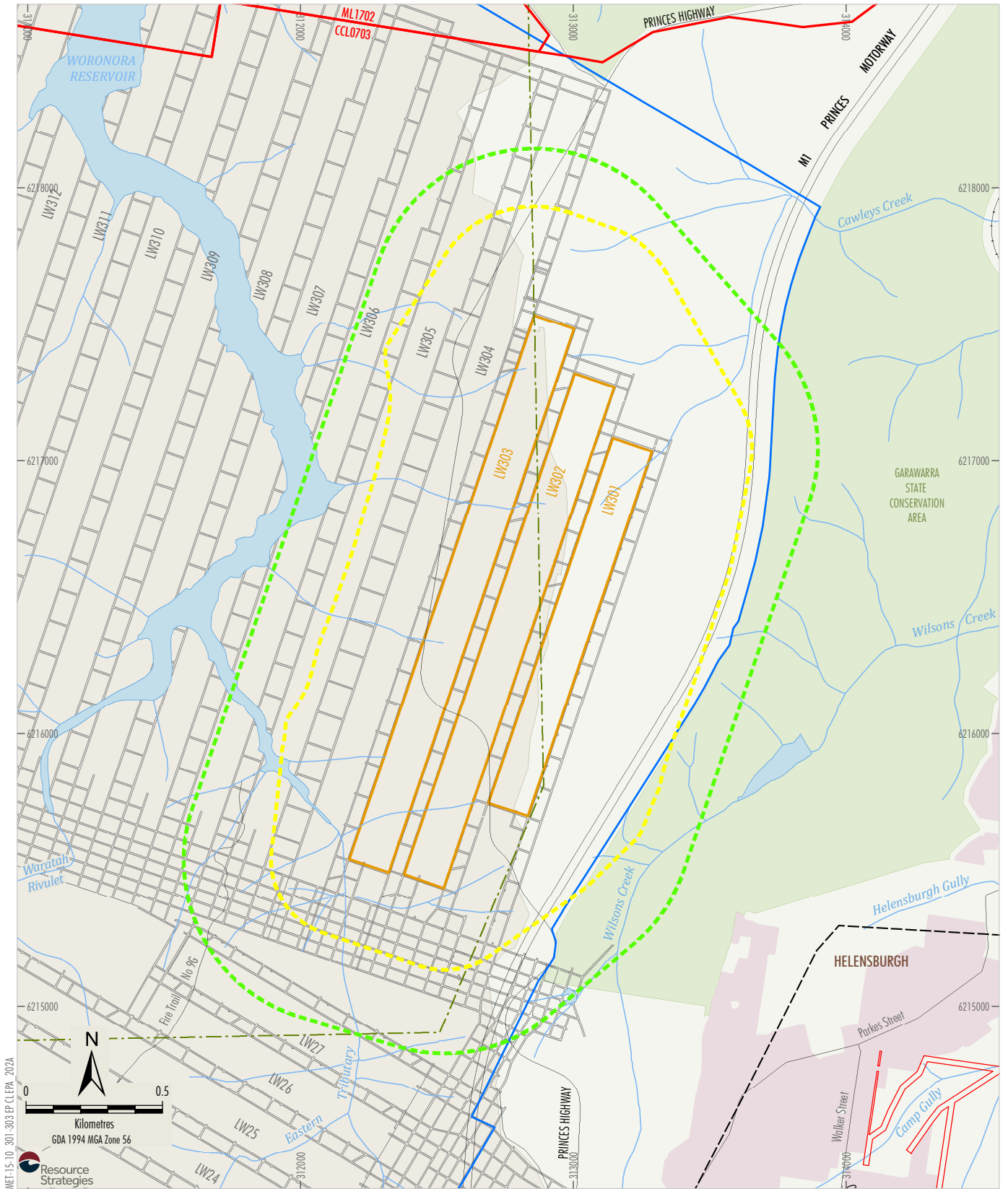


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 - Longwalls 301-303
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 - Existing Underground Access Drive (Main Drift)

Source: Land and Property Information (2015); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)


METROPOLITAN COAL
 Project Longwalls 20 - 27 and
 Longwalls 301 - 317 Layout

Figure 1



MEF-15-10-301-303 EP CL EPA, 2024

LEGEND

- Mining Lease Boundary
- Woronora Special Area
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Longwalls 20-27 and 301-317
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Source: Land and Property Information (2015); Department of Industry (2015);
Metropolitan Coal (2016); MSEC (2016)



METROPOLITAN COAL
Longwalls 301 - 303 Layout

Figure 2

20 July 2016

Senior Surveyor
Land & Property Information (LPI) NSW
Department of Lands
PO Box 488G
Newcastle NSW 2300

Dear Sir/Madam,

RE: METROPOLITAN COAL LONGWALLS 301-303 EXTRACTION PLAN – SURVEY MARKS

Metropolitan Coal is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW) (Figure 1).

Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*. The Project comprises the continuation, upgrade and extension of underground coal mining operations and surface facilities at Metropolitan Coal. The underground mining longwall layout is shown on Figure 1.

In accordance with Condition 6, Schedule 3 of the Project Approval, Metropolitan Coal prepares Extraction Plans for specific mining domains as mining progresses. Metropolitan Coal is currently preparing an Extraction Plan for the next area of longwall mining, namely Longwalls 301-303.

In accordance with the procedure described in Section 4.3 of the *Surveyor General's Directions No. 11 Preservation of Survey Infrastructure*, Metropolitan Coal has conducted a thorough search of the Survey Control Information Management System (SCIMS) and prepared the attached Diagram 1 showing the area to be affected by longwall mining and the permanent marks, trigonometrical stations, reference marks and miscellaneous survey marks in the vicinity.

Based on subsidence predictions by Mine Subsidence Engineering Consultants (MSEC) using their calibrated Incremental Profile Method, the survey control marks within the defined Study Area (refer Diagram 1) could experience the full range of predicted subsidence movements (and therefore consequential impacts on the survey control mark accuracy) due to the extraction of each of the longwalls as summarised in Table 1 below.

**Table 1
Maximum Predicted Incremental Conventional Subsidence, Tilt and Curvature
Resulting from the Extraction of Each of the Longwalls 301 to 303**

Longwall	Subsidence (mm)	Tilt (mm/m)	Hogging Curvature (km ⁻¹)	Sagging Curvature (km ⁻¹)
Due to LW301	75	< 0.5	< 0.01	0.02
Due to LW302	650	5.0	0.06	0.15
Due to LW303	650	5.5	0.08	0.10

Source: MSEC (2016)

The subsidence effect at the surface occurs in the form of a wave, which moves across the ground at approximately the same speed as the longwall face retreats within the longwall panel. It is noted that the subsidence at the surface does not occur suddenly but develops progressively as the coal is extracted within the area of influence of the extracted longwall panel and a point on the surface will be affected by the extraction of several adjacent panels.

There are survey control marks that are located outside the defined Study Area that are likely to experience either small amounts of subsidence (less than 20 millimetres) or far-field horizontal movements as the longwalls are mined. Far-field horizontal movements have been measured up to distances of approximately 3.9 kilometres from active longwalls, however almost all of the measured data beyond 2.5 kilometres is within the order of survey tolerance or accuracy.

The anticipated start date for Longwall 301 is April 2017. The provisional extraction schedule commencement and completion dates for Longwalls 301-303 are provided in Table 2.

Table 2
Provisional Extraction Schedule for Longwalls 301 to 303

Longwall	Estimated Start Date	Estimated Duration	Estimated Completion Date
LW301	April 2017	6 months	September 2017
LW302	November 2017	7 months	May 2018
LW303	July 2018	8 months	February 2019

During mining, Metropolitan Coal would forward relevant notification details to *The Manager Survey Services*, LPI NSW in accordance with "Appendix C" of the *Surveyor General's Directions No.11 Preservation of Survey Infrastructure* (refer Attachment 1).

Following the completion of the longwalls, when the ground has stabilised, the survey control network would be re-established in consultation with the Department of Lands (and Mine Subsidence Board).

Contact details for the relevant Metropolitan Coal personnel are provided below:

Mr Jon Degotardi
Manager – Technical Services
PO Box 402
Helensburgh NSW 2508
Phone: (02) 4294 7233
Email: JDegotardi@peabodyenergy.com

Mr Andrew Carter
Senior Mine Surveyor
PO Box 402
Helensburgh NSW 2508
Phone: (02) 4294 7212
Email: ACarter@peabodyenergy.com

It is understood that the Senior Surveyor will liaise with Metropolitan Coal and the Mine Subsidence Board regarding the re-establishment and/or replacement of permanent marks on completion of subsidence. In the meantime, please do not hesitate to contact the undersigned should you have any queries or require further information.

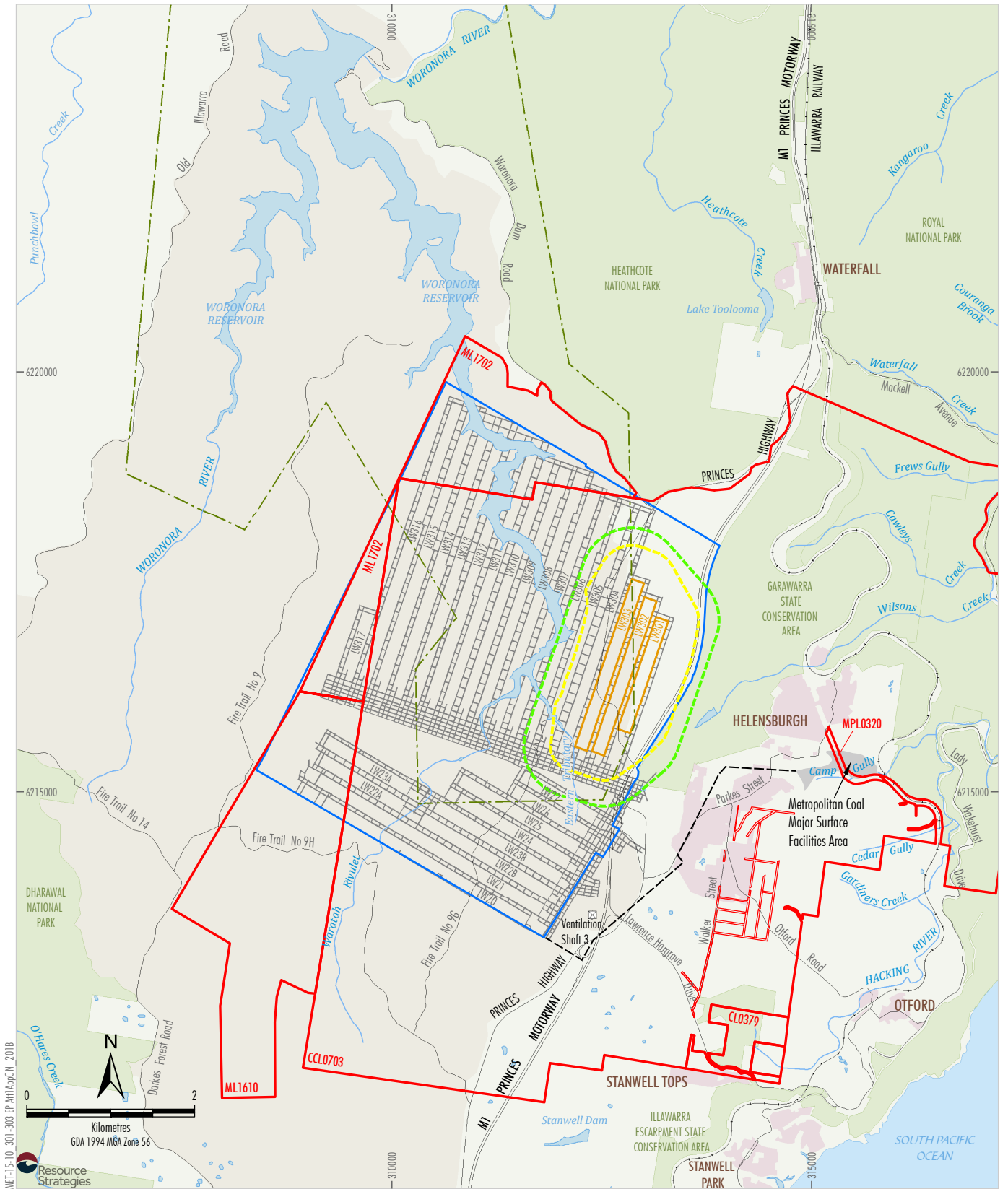
Yours faithfully,



JON DEGOTARDI
Manager – Technical Services

FIGURE 1

PROJECT LONGWALLS 20-27 AND LONGWALLS 301-317 LAYOUT



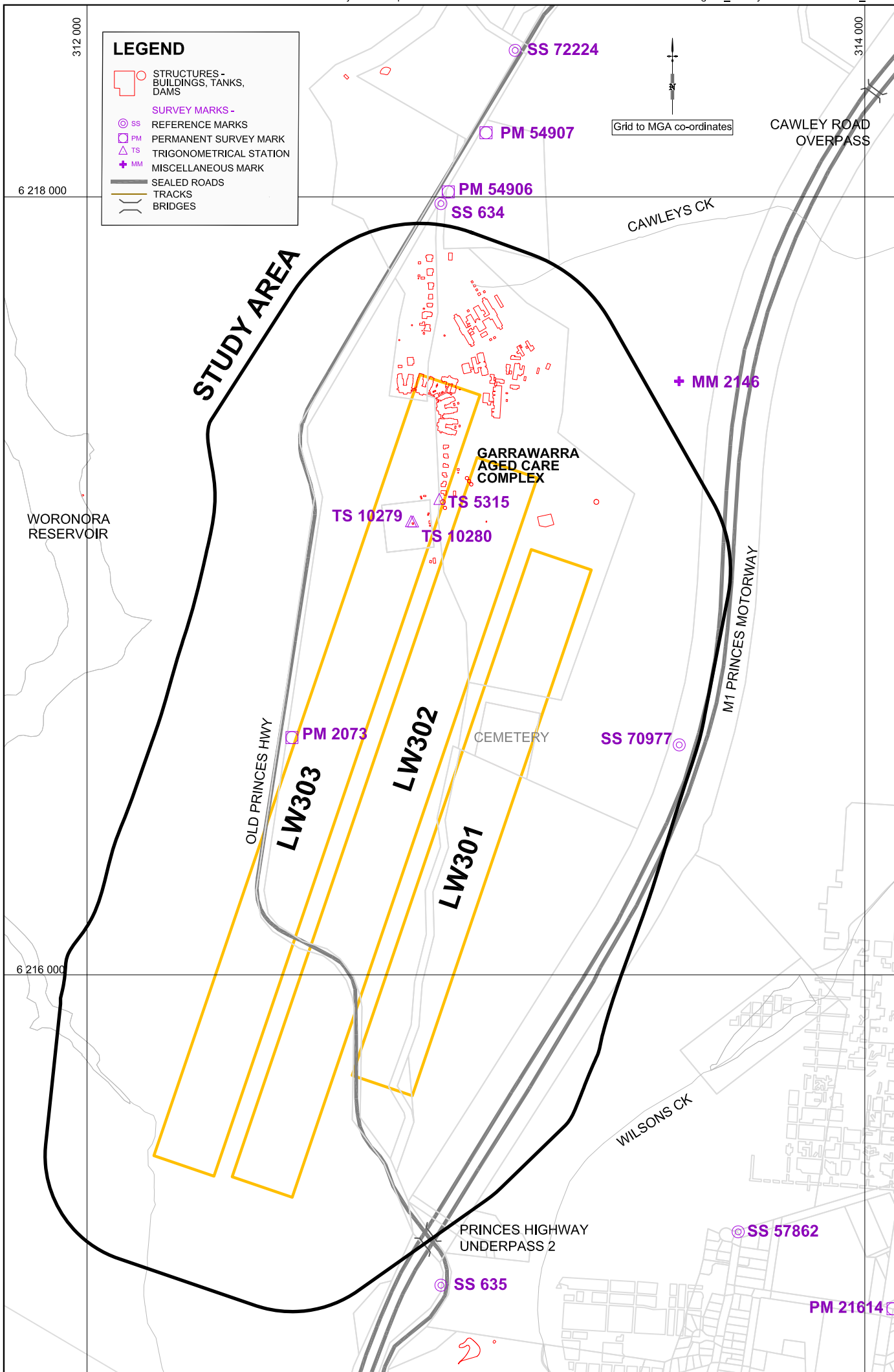
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Longwalls 301-303
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Source: Land and Property Information (2015); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Project Longwalls 20 - 27 and
Longwalls 301 - 317 Layout

Figure 1

DIAGRAM 1
SURVEY MARKS



LEGEND

- STRUCTURES - BUILDINGS, TANKS, DAMS
- SURVEY MARKS -**
- SS REFERENCE MARKS
- PM PERMANENT SURVEY MARK
- TS TRIGONOMETRICAL STATION
- MM MISCELLANEOUS MARK
- SEALED ROADS
- TRACKS
- BRIDGES

312 000
6 218 000
WORONORA RESERVOIR
6 216 000

CAWLEY ROAD OVERPASS

CAWLEYS CK

STUDY AREA

+ MM 2146

GARRAWARRA AGED CARE COMPLEX

TS 10279
TS 5315
TS 10280

PM 2073

CEMETERY

SS 70977

OLD PRINCES HWY

LW303

LW302

LW301

M1 PRINCES MOTORWAY

WILSONS CK

PRINCES HIGHWAY UNDERPASS 2

SS 635

SS 57862

PM 21614

ATTACHMENT 1

“APPENDIX C” NOTIFICATION OF THE DESTRUCTION OF SURVEY MARKS
PERMANENT MARKS AND REFERENCE MARKS



Notification of the Destruction of Survey Marks Permanent Marks & Reference Marks

(Please show sufficient information to identify the survey mark)

Mark Details

Mark Name:	
Description: TS PM SSM	No.
Reference Mark: <i>(Type / Description)</i>	
Deposited Plan:	
Location:	
Road / Street Name:	
LGA:	
Suburb:	
Coordinates: MGA E:	
Coordinates: MGA N:	
Status: Disturbed Destroyed Will be Destroyed	
Reason:	
<i>Contact Details:</i>	
Name:	
Organisation	
Address:	
Ph No.:	
Fax No.:	
E-mail:	

Include a diagram, survey plan or photograph to assist the description of any circumstance if needed.

Forward details to:

*The Manager
Survey Services
Land and Property Information NSW
2nd Floor,
Queens Square Building
SYDNEY NSW 2000
Telephone: 02 8258 7500
Facsimile: 02 8258 7555
E-mail to scims@lpi.nsw.gov.au*

*Or GPO Box 15
SYDNEY NSW 2001*

15 August 2016

Cubbitch Barta Native Title Claimants
55 Nightingale Road
PHEASANTS NEST NSW 2574**Attention: Mrs Glenda Chalker**

Dear Mrs Chalker,

RE: METROPOLITAN COAL LONGWALLS 301-303 HERITAGE MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(f), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Heritage Management Plan in consultation with the NSW Office of Environment and Heritage and relevant Aboriginal groups, to manage the potential environmental consequences of the Longwalls 301-303 Extraction Plan on Aboriginal heritage sites or values.

Heritage Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains which were provided to the Cubbitch Barta Native Title Claimants for consultation in 2010 and 2013, respectively. This draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan includes post mining monitoring and management of the Aboriginal heritage sites subject to the two previously approved Metropolitan Coal Heritage Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for your review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan. Please note that Appendix 1 of the draft Longwalls 301-303 Heritage Management Plan is a considerably large document, and as such has been provided on the enclosed CD. A hard copy can be provided if required.

It would be appreciated if you would kindly provide any comments to the undersigned by 9 September 2016. Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours faithfully,

**JON DEGOTARDI**
Manager – Technical Services

Cubbitch Barta Native Title Claimants
Aboriginal Corporation
55 Nightingale Road
PHEASANTS NEST. N.S.W. 2574.
22nd August, 2016.

Metropolitan Collieries Pty Ltd.
P.O. Box 402,
HELENSBURGH. N.S.W. 2508.

Dear Jon,

RE; HERITAGE MANAGEMENT PLAN

Thank you for the opportunity of commenting on the draft heritage management plan. I have a couple of comments that I would like to make as follows;

1. 4.2 that talks about measuring performance of impact by subsidence. By your definition it is only considered an impact if the site is totally destroyed. This is not the case, any impact to a shelter or whatever kind of site it maybe is damage to an Aboriginal place. Just because a panel of art is not damaged by the subsidence does not take away the fact that the site has been damaged, no matter how minor. The archaeological significance does not take away the cultural significance of the place.
2. 10.2.2. The document states that there are no sites of high archaeological significance, this is from an archaeologists perspective only and does not take away the cultural significance of the sites. Just because in your document there is a statement that there has been no culturally significant sites identified, does not mean that the sites are not culturally significant. They all are culturally significant, they all belong in that landscape and each has its own story. They are all connected by those stories in place.

The document should reflect the cultural significance of all the sites within the Woronora and beyond to the Aboriginal people who have a traditional connection to the Country.

Yours faithfully,



Glenda Chalker
Phone/Fax 0246841129 0527218425
kgchalker@bigpond.com

18 October 2016

Cubbitch Barta Native Title Claimants
55 Nightingale Road
PHEASANTS NEST NSW 2574

Attention: Mrs Glenda Chalker

Dear Glenda,

RE: METROPOLITAN COAL LONGWALLS 301-303 HERITAGE MANAGEMENT PLAN

Thank you for your comments on the Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan (Version A) dated 22 August 2016. Metropolitan Coal appreciates your review and comments on the management plan.

Please find enclosed Version B of the Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan, which has been updated in consideration of your comments and to reflect a recent revision to the layout of Longwalls 302 and 303.

Metropolitan Coal recently committed to the further shortening of Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex. As a result of the revised longwall layout, the predicted subsidence effects generally reduce at the northern end of Longwalls 302 and 303 where the panels have been shortened.

A summary of the amendments made to the Metropolitan Coal Longwalls 301-303 Heritage Management Plan is provided in Table 1.

Please do not hesitate to contact the undersigned should you have any queries or further comments.

Yours sincerely,



JON DEGOTARDI
Manager – Technical Services

Table 1
Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan Amendments

Section Reference	Amendment
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Figures	Revised to reflect shortened Longwalls 302 and 303.

15 August 2016

Northern Illawarra Aboriginal Collective
PO Box 595
MOSS VALE NSW 2577

Attention: Mr Chris Illert

Dear Mr Illert,

RE: METROPOLITAN COAL LONGWALLS 301-303 HERITAGE MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(f), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Heritage Management Plan in consultation with the NSW Office of Environment and Heritage and relevant Aboriginal groups, to manage the potential environmental consequences of the Longwalls 301-303 Extraction Plan on Aboriginal heritage sites or values.

Heritage Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains which were provided to the Northern Illawarra Aboriginal Collective (including representatives from Wadi Wadi Coomaditchie Aboriginal Corporation) for consultation in 2010 and 2013, respectively. This draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan includes post mining monitoring and management of the Aboriginal heritage sites subject to the two previously approved Metropolitan Coal Heritage Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for your review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan. Please note that Appendix 1 of the draft Longwalls 301-303 Heritage Management Plan is a considerably large document, and as such has been provided on the enclosed CD. A hard copy can be provided if required.

It would be appreciated if you would kindly provide any comments to the undersigned by 9 September 2016. Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours faithfully,



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18 October 2016

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15 August 2016

Korewal Elouera Jerrungurah Tribal Elders Corporation
86 Hertford St
BERKELEY NSW 2506**Attention: Mr Reuben Brown**

Dear Mr Brown,

RE: METROPOLITAN COAL LONGWALLS 301-303 HERITAGE MANAGEMENT PLAN

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15 August 2016

Mr Gary Caines
28 Gowan Brae Road
MOUNT OUSLEY NSW 2519

Dear Mr Caines,

RE: METROPOLITAN COAL LONGWALLS 301-303 HERITAGE MANAGEMENT PLAN

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15 August 2016

La Perouse Botany Bay Aboriginal Corporation
10 Murrong Place
LA PEROUSE NSW 2036

Attention: Ms Yvonne Simms

Dear Ms Simms,

RE: METROPOLITAN COAL LONGWALLS 301-303 HERITAGE MANAGEMENT PLAN

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15 August 2016

Woronora Plateau Gundungara Elders Councils
11 Garnett Grove
FLINDERS NSW 2529**Attention: Mrs Kayla Williamson**

Dear Mrs Williamson,

RE: METROPOLITAN COAL LONGWALLS 301-303 HERITAGE MANAGEMENT PLAN

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15 August 2016

Tharawal Local Aboriginal Land Council
PO Box 168
PICTON NSW 2571

Attention: Ms Denise Ezzy

Dear Ms Ezzy,

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4.4.1	<p>Text updated to reflect the number of heritage sites predicted to experience a slight increase in the maximum predicted vertical subsidence has reduced from eight to five as a result of the shortening of Longwalls 302 and 303.</p> <p>Subsidence predictions in Table 4 updated to reflect shortened Longwalls 302 and 303. The subsidence predictions for the Extraction Plan layout changed as follows:</p> <ul style="list-style-type: none"> • FRC 85 (predicted 50 mm subsidence reduced to < 20 mm subsidence). • FRC 86 (predicted 70 mm subsidence reduced to 60 mm subsidence). • FRC 90 (predicted 70 mm subsidence reduced to 30 mm subsidence). • FRC 91 (predicted 50 mm subsidence reduced to < 20 mm subsidence).
9	Text updated to reflect the maximum predicted subsidence at sites at the completion of Longwall 303 extraction is 125 mm at site FRC 76, with predicted subsidence being 60 mm or less at all other sites (as detailed in Table 4 in Section 4.4.1).
10.2.2	Text added to clarify that reference to sites of particular cultural significance was based on previous consultation with representatives of the Aboriginal community during surveys and inspections for the Project Environmental Assessment (Kayandel Archaeological Services, 2008). Aboriginal heritage sites that have previously been identified as being of special cultural interest or of particular cultural significance within the Project underground mining area are described in Appendix H of the Project EA. It is noted that at the time of the Project EA no sites or areas of particular cultural significance were identified within the area bound by the Longwalls 301-303 35 degree angle of draw and/or predicted 20 mm subsidence contour.
Figures	Revised to reflect shortened Longwalls 302 and 303.

15 August 2016

Wodi Wodi Elders Corporation
2 Poplar Avenue
UNANDERRA NSW 2526**Attention: Mr James Davis**

Dear Mr Davis,

RE: METROPOLITAN COAL LONGWALLS 301-303 HERITAGE MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(f), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Heritage Management Plan in consultation with the NSW Office of Environment and Heritage and relevant Aboriginal groups, to manage the potential environmental consequences of the Longwalls 301-303 Extraction Plan on Aboriginal heritage sites or values.

Heritage Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains which were provided to the Wodi Wodi Elders Corporation for consultation in 2010 and 2013, respectively. This draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan includes post mining monitoring and management of the Aboriginal heritage sites subject to the two previously approved Metropolitan Coal Heritage Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for your review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan. Please note that Appendix 1 of the draft Longwalls 301-303 Heritage Management Plan is a considerably large document, and as such has been provided on the enclosed CD. A hard copy can be provided if required.

It would be appreciated if you would kindly provide any comments to the undersigned by 9 September 2016. Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours faithfully,

**JON DEGOTARDI**
Manager – Technical Services

18 October 2016

Wodi Wodi Elders Corporation
2 Poplar Avenue
UNANDERRA NSW 2526

Attention: Mr James Davis

Dear Mr Davis,

RE: METROPOLITAN COAL LONGWALLS 301-303 HERITAGE MANAGEMENT PLAN

Further to our correspondence dated 15 August 2016 and provision of the Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan (Version A), please find enclosed Version B of the Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan, which has been updated in consideration of comments received on Version A and to reflect a recent revision to the layout of Longwalls 302 and 303.

Metropolitan Coal recently committed to the further shortening of Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex. As a result of the revised longwall layout, the predicted subsidence effects generally reduce at the northern end of Longwalls 302 and 303 where the panels have been shortened.

A summary of the amendments made to the Metropolitan Coal Longwalls 301-303 Heritage Management Plan is provided in Table 1.

Please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,



JON DEGOTARDI
Manager – Technical Services

Table 1
Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan Amendments

Section Reference	Amendment
4.1 (Table 2)	Schedule updated to reflect shortened Longwalls 302 and 303.
4.2, 6 and 10.2.2	Text added to recognise that all Aboriginal heritage sites are considered to be culturally significant to the Aboriginal people who have a traditional connection to Country.
4.3	Text updated and footnote 3 added to indicate Longwalls 302 and 303 were shortened subsequent to the Environmental Risk Assessment.
4.4.1	Text updated to reflect the number of heritage sites predicted to experience a slight increase in the maximum predicted vertical subsidence has reduced from eight to five as a result of the shortening of Longwalls 302 and 303. Subsidence predictions in Table 4 updated to reflect shortened Longwalls 302 and 303. The subsidence predictions for the Extraction Plan layout changed as follows: <ul style="list-style-type: none"> • FRC 85 (predicted 50 mm subsidence reduced to < 20 mm subsidence). • FRC 86 (predicted 70 mm subsidence reduced to 60 mm subsidence). • FRC 90 (predicted 70 mm subsidence reduced to 30 mm subsidence). • FRC 91 (predicted 50 mm subsidence reduced to < 20 mm subsidence).
9	Text updated to reflect the maximum predicted subsidence at sites at the completion of Longwall 303 extraction is 125 mm at site FRC 76, with predicted subsidence being 60 mm or less at all other sites (as detailed in Table 4 in Section 4.4.1).
10.2.2	Text added to clarify that reference to sites of particular cultural significance was based on previous consultation with representatives of the Aboriginal community during surveys and inspections for the Project Environmental Assessment (Kayandel Archaeological Services, 2008). Aboriginal heritage sites that have previously been identified as being of special cultural interest or of particular cultural significance within the Project underground mining area are described in Appendix H of the Project EA. It is noted that at the time of the Project EA no sites or areas of particular cultural significance were identified within the area bound by the Longwalls 301-303 35 degree angle of draw and/or predicted 20 mm subsidence contour.
Figures	Revised to reflect shortened Longwalls 302 and 303.

15 August 2016

Illawarra Local Aboriginal Land Council
3 Ellen Street
WOLLONGONG NSW 2500**Attention: Mr Derek Hardman**

Dear Mr Hardman,

RE: METROPOLITAN COAL LONGWALLS 301-303 HERITAGE MANAGEMENT PLAN

Metropolitan Coal Pty Ltd (Metropolitan Coal) is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW). Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*.

Condition 6(f), Schedule 3 of the Project Approval requires Metropolitan Coal to prepare a Heritage Management Plan in consultation with the NSW Office of Environment and Heritage and relevant Aboriginal groups, to manage the potential environmental consequences of the Longwalls 301-303 Extraction Plan on Aboriginal heritage sites or values.

Heritage Management Plans were prepared for the Longwalls 20-22 and Longwalls 23-27 mining domains which were provided to the Illawarra Local Aboriginal Land Council for consultation in 2010 and 2013, respectively. This draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan includes post mining monitoring and management of the Aboriginal heritage sites subject to the two previously approved Metropolitan Coal Heritage Management Plans for Longwalls 20-22 and Longwalls 23-27.

Please find enclosed for your review and comment, a copy of the draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan. Please note that Appendix 1 of the draft Longwalls 301-303 Heritage Management Plan is a considerably large document, and as such has been provided on the enclosed CD. A hard copy can be provided if required.

Metropolitan Coal understands that the Illawarra Local Aboriginal Land Council has applied for Aboriginal land claims over Crown Land comprising Lot 878, DP 752033 and Lot 3, DP 840501. The location of these lots in relation to Longwalls 301-303 is shown on Figure 1 (attached). Figure 1 shows the 35 degree angle of draw and/or predicted 20 mm subsidence contour (the yellow dashed line), which is the surface area that is likely to be affected by the proposed mining of Longwalls 301-303.

Lot 878, DP 752033

Lot 878, DP 752033 (Reference Number 3 on Figure 1) is located over 550 m from the nearest longwall (Longwall 301).

Predicted subsidence parameters for Lot 878, DP 752033 are negligible and less than the typical limits of survey accuracy of < 20 mm for subsidence and < 0.5 mm per metre for tilt (Mine Subsidence Engineering Consultants, 2016). It should be noted that natural ground surfaces have been observed to fluctuate more than 20 mm in response to ground moisture levels, and these small levels of ground movements are difficult to measure accurately as 20 mm is less than the normal accuracy of common subsidence measurement methods.

Lot 878, DP 752033 could also experience minor far-field horizontal movements due to the extraction of Longwalls 301-303, however, the strains associated with these low level horizontal movements are not expected to be measurable (Mine Subsidence Engineering Consultants, 2016).

Based on the distance from Longwalls 301-303 and the negligible predicted subsidence parameters, impacts to Lot 878, DP 752033 are not anticipated (Mine Subsidence Engineering Consultants, 2016).

Lot 3, DP 840501

The majority of Lot 3, DP 840501 (Reference Number 5 on Figure 1) is located to the north of Longwalls 301-303. A small section at the southern end of the lot is located above Longwall 301.

Predicted subsidence parameters for Lot 3, DP 840501 include 875 mm of subsidence, 5.0 mm/m conventional tilt, and 0.04 km^{-1} and 0.15 km^{-1} of hogging and sagging curvature, respectively (Mine Subsidence Engineering Consultants, 2016).

The area of land above Longwall 301 measures approximately 15 ha and represents approximately 1.5% of the total area of approximately 987 ha. The area of land above Longwall 301 is a topographical high point. Some ground surface deformation may occur in the areas located above Longwall 301. Ground surface deformations are most likely to be observed as minor isolated cracking in the exposed bedrock.

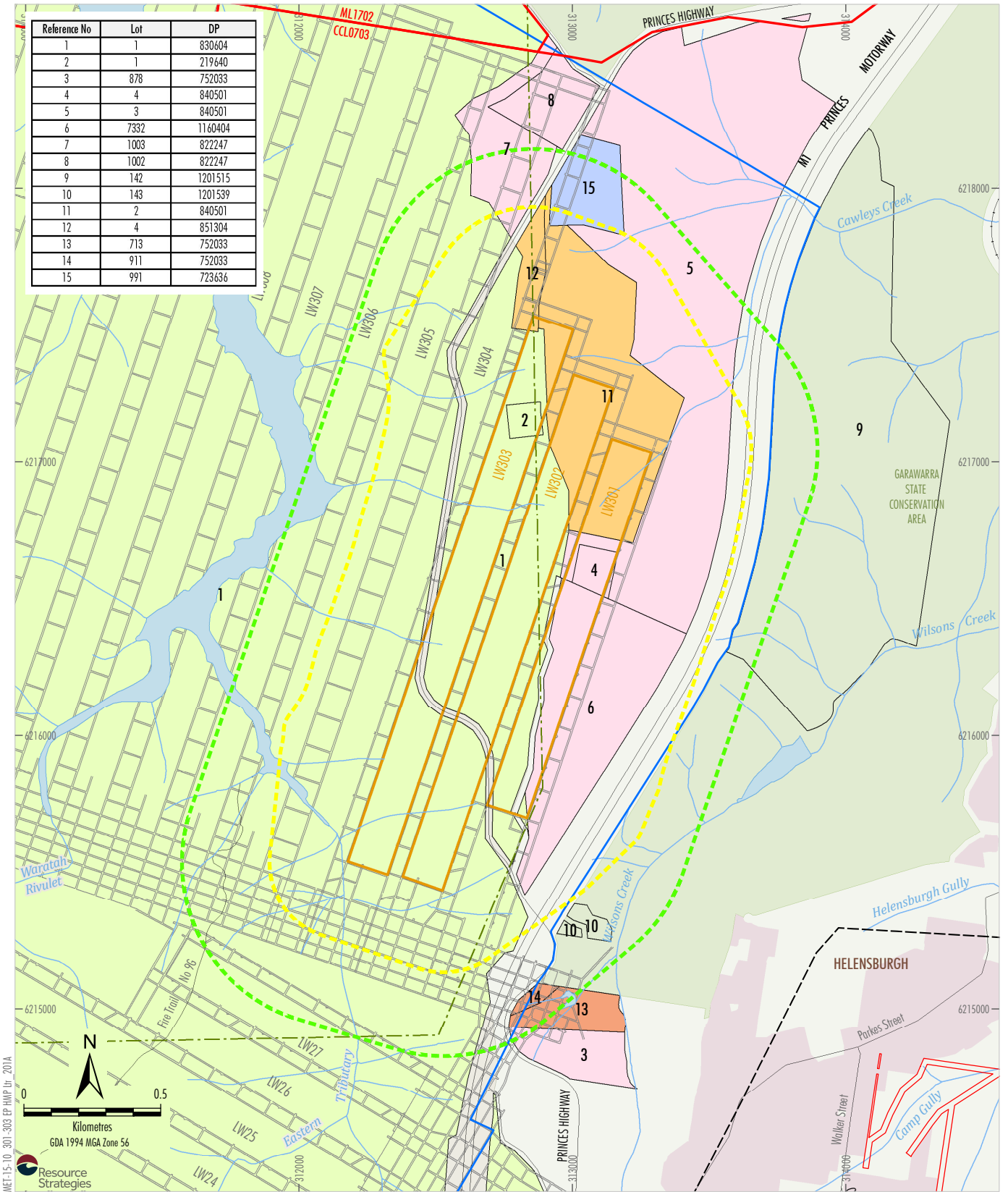
The Metropolitan Coal Longwalls 301-303 Extraction Plan will outline the proposed management, mitigation, monitoring and reporting of potential subsidence impacts and environmental consequences from the secondary extraction of Longwalls 301-303.

It would be appreciated if you would kindly provide any comments on the draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan to the undersigned by 9 September 2016. Metropolitan Coal looks forward to your input and invites you to contact us with any queries.

Yours faithfully,



JON DEGOTARDI
Manager – Technical Services



- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
 - Railway
 - Project Underground Mining Area Longwalls 20-27 and 301-317
 - Longwalls 301 - 303 Secondary Extraction
 - 35° Angle of Draw and Predicted 20 mm Subsidence Contour
 - 600 m from Secondary Extraction of Longwalls 301-303
 - Woronora Notification Area
 - Existing Underground Access Drive (Main Drift)

- Landholder**
- WaterNSW
 - The State of New South Wales (Crown Land)
 - The State of New South Wales (Garawarra State Conservation Area)
 - Health Administration Corporation
 - The Trustees of the Macedonian Orthodox Monastery
 - R & C Stewart

Source: Land and Property Information (2015, 2016); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Land Ownership Within
600 m of Longwalls 301 - 303

Figure 1

18 October 2016

Illawarra Local Aboriginal Land Council
3 Ellen Street
WOLLONGONG NSW 2500

Attention: Mr Derek Hardman

Dear Mr Hardman,

RE: METROPOLITAN COAL LONGWALLS 301-303 HERITAGE MANAGEMENT PLAN

Further to our correspondence dated 15 August 2016 and provision of the Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan (Version A), please find enclosed Version B of the Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan, which has been updated in consideration of comments received on Version A and to reflect a recent revision to the layout of Longwalls 302 and 303.

Metropolitan Coal recently committed to the further shortening of Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex. As a result of the revised longwall layout, the predicted subsidence effects generally reduce at the northern end of Longwalls 302 and 303 where the panels have been shortened.

A summary of the amendments made to the Metropolitan Coal Longwalls 301-303 Heritage Management Plan is provided in Table 1.

Please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,



JON DEGOTARDI
Manager – Technical Services

Table 1
Draft Metropolitan Coal Longwalls 301-303 Heritage Management Plan Amendments

Section Reference	Amendment
4.1 (Table 2)	Schedule updated to reflect shortened Longwalls 302 and 303.
4.2, 6 and 10.2.2	Text added to recognise that all Aboriginal heritage sites are considered to be culturally significant to the Aboriginal people who have a traditional connection to Country.
4.3	Text updated and footnote 3 added to indicate Longwalls 302 and 303 were shortened subsequent to the Environmental Risk Assessment.
4.4.1	Text updated to reflect the number of heritage sites predicted to experience a slight increase in the maximum predicted vertical subsidence has reduced from eight to five as a result of the shortening of Longwalls 302 and 303. Subsidence predictions in Table 4 updated to reflect shortened Longwalls 302 and 303. The subsidence predictions for the Extraction Plan layout changed as follows: <ul style="list-style-type: none"> • FRC 85 (predicted 50 mm subsidence reduced to < 20 mm subsidence). • FRC 86 (predicted 70 mm subsidence reduced to 60 mm subsidence). • FRC 90 (predicted 70 mm subsidence reduced to 30 mm subsidence). • FRC 91 (predicted 50 mm subsidence reduced to < 20 mm subsidence).
9	Text updated to reflect the maximum predicted subsidence at sites at the completion of Longwall 303 extraction is 125 mm at site FRC 76, with predicted subsidence being 60 mm or less at all other sites (as detailed in Table 4 in Section 4.4.1).
10.2.2	Text added to clarify that reference to sites of particular cultural significance was based on previous consultation with representatives of the Aboriginal community during surveys and inspections for the Project Environmental Assessment (Kayandel Archaeological Services, 2008). Aboriginal heritage sites that have previously been identified as being of special cultural interest or of particular cultural significance within the Project underground mining area are described in Appendix H of the Project EA. It is noted that at the time of the Project EA no sites or areas of particular cultural significance were identified within the area bound by the Longwalls 301-303 35 degree angle of draw and/or predicted 20 mm subsidence contour.
Figures	Revised to reflect shortened Longwalls 302 and 303.

14 July 2016

Crown Lands Nowra District Office
NSW Department of Primary Industries – Lands
PO Box 2185
Dangar NSW 2309**Also by email: nowra.crownland@crowland.nsw.gov.au**

Dear Sir/Madam,

RE: METROPOLITAN COAL LONGWALLS 301-303 EXTRACTION PLAN

Metropolitan Coal is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW) (Figure 1). Metropolitan Coal is one of the earliest established and longest continually running coal mining operations in Australia, with a history dating back to the 1880s.

Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*. The Project comprises the continuation, upgrade and extension of underground coal mining operations and surface facilities at Metropolitan Coal. The underground mining longwall layout is shown on Figure 1. The Metropolitan Coal Environmental Management Structure is shown on Figure 2.

In accordance with Condition 6, Schedule 3 of the Project Approval, Metropolitan Coal prepares Extraction Plans for specific mining domains as mining progresses. Metropolitan Coal is currently preparing an Extraction Plan for the next area of longwall mining, namely Longwalls 301-303.

A title search of land within 600 metres (m) of Longwalls 301-303 identified Lot 878, DP 752033, Lot 4, DP 840501, Lot 3, DP 840501, Lot 7332, DP 1160404 and Lot 1003, DP 822247, the owner of which was identified as The State of New South Wales (Crown Land). The location of these lots in relation to Longwalls 301-303 is shown on Figure 3.

We understand that the majority of these lots are undeveloped, with no building structures present. The Sutherland Shire Sport Flying Association club house and airstrip are located on Lot 1003, DP 822247. A copy of our correspondence to the Sutherland Shire Sport Flying Association is provided for your information in Attachment 1.

Other built features are present on Lot 3, DP 840501 (including transmission lines, fibre optic lines, four wheel drive tracks and sewer mains) and on Lot 7332, DP 1160404 (including transmission lines, fibre optic lines and four wheel drive tracks).

The Waterfall General (Garrawarra) Cemetery managed by Wollongong City Council is located on Lot 4, DP 840501.

Figure 3 shows the 35 degree angle of draw and predicted 20 millimetre (mm) subsidence contour (the yellow dashed line), which is the surface area that is likely to be affected by the proposed mining of Longwalls 301-303.

Lot 878, DP 752033 and Lot 1003, DP 822247

Lot 878, DP 752033 (Reference Number 3 on Figure 3) and Lot 1003, DP 822247 (Reference Number 7 on Figure 3) are located over 550 m and 290 m, respectively, from the nearest longwall (Longwall 301 and Longwall 303, respectively).

Predicted subsidence parameters for Lot 878, DP 752033 and Lot 1003, DP 822247 are negligible and less than the typical limits of survey accuracy of < 20 mm for subsidence and < 0.5 mm per metre for tilt (Mine Subsidence Engineering Consultants, 2016). It should be noted that natural ground surfaces have been observed to fluctuate more than 20 mm in response to ground moisture levels, and these small levels of ground movements are difficult to measure accurately as 20 mm is less than the normal accuracy of common subsidence measurement methods.

Lot 878, DP 752033 and Lot 1003, DP 822247 could also experience minor far-field horizontal movements due to the extraction of Longwalls 301-303, however, the strains associated with these low level horizontal movements are not expected to be measurable (Mine Subsidence Engineering Consultants, 2016).

Based on the distance from Longwalls 301-303 and the negligible predicted subsidence parameters, impacts to Lot 878, DP 752033 and Lot 1003, DP 822247 are not anticipated (Mine Subsidence Engineering Consultants, 2016).

Lot 4, DP 840501, Lot 3, DP 840501 and Lot 7332, DP 1160404

Lot 4, DP 840501 (Reference Number 4 on Figure 3) is located over Longwall 301. The majority of Lot 3, DP 840501 (Reference Number 5 on Figure 3) is located to the north of Longwalls 301-303. A small section at the southern end of the lot is located above Longwall 301. Lot 7332, DP 1160404 (Reference Number 6 on Figure 3) is located partly over the southern end of Longwall 301. Predicted subsidence parameters for Lot 4, DP 840501, Lot 3, DP 840501 and Lot 7332, DP 1160404 are detailed in Table 1 (Mine Subsidence Engineering Consultants, 2016).

**Table 1
Subsidence Parameter Predictions (MSEC, 2016)**

Lot/DP	Subsidence (mm)	Tilt (mm/m)	Hogging Curvature (km ⁻¹)	Sagging Curvature (km ⁻¹)	Comments
Lot 4, DP 840501	800	5.0	0.04	0.10	The area of land above Longwall 301 measures approximately 22 hectares (ha). The cemetery is located in an area of relatively flat topography at a topographical high point. It is possible that some minor cracking of the surface soils or exposed bedrock could occur as a result of extraction of Longwalls 301-303.
Lot 3, DP 840501	875	5.0	0.04	0.15	The area of land above Longwall 301 measures approximately 15 ha and represents approximately 1.5% of the total area of approximately 987 ha. The area of land above Longwall 301 is a topographical high point. Some ground surface deformation may occur in the areas located above Longwall 301. Ground surface deformations are most likely to be observed as minor isolated cracking in the exposed bedrock.

Table 1 (Continued)
Subsidence Parameter Predictions (MSEC, 2016)

Lot/DP	Subsidence (mm)	Tilt (mm/m)	Hogging Curvature (km-1)	Sagging Curvature (km-1)	Comments
Lot 7332, DP 1160404	875	5.0	0.04	0.15	The area of land above Longwall 301 measures approximately 81 ha and represents approximately 26% of the total area of approximately 309 ha. Some ground surface deformation may occur in the areas located above Longwall 301. Ground surface deformations are most likely to be observed as minor isolated cracking in the exposed bedrock.

The Metropolitan Coal Longwalls 301-303 Extraction Plan will outline the proposed management, mitigation, monitoring and reporting of potential subsidence impacts and environmental consequences from the secondary extraction of Longwalls 301-303. The Longwalls 301-303 Extraction Plan will include (but not be limited to) the following management plans and monitoring programs:

- Longwalls 301-303 Water Management Plan.
- Longwalls 301-303 Land Management Plan.
- Longwalls 301-303 Biodiversity Management Plan.
- Longwalls 301-303 Built Features Management Plan.
- Longwalls 301-303 Heritage Management Plan.
- Longwalls 301-303 Public Safety Management Plan.
- Longwalls 301-303 Subsidence Monitoring Program, including a Coal Resource Recovery Plan.

Potential impacts to built features on Lot 4, DP 840501, Lot 3, DP 840501 and Lot 7332, DP 1160404 will be managed in accordance with the relevant Longwalls 301-303 Built Features Management Plans being prepared in consultation with infrastructure owners (including Endeavour Energy, Nextgen, Optus, Sydney Water, Telstra and TransGrid) and Wollongong City Council (for the management of the Waterfall General [Garrawarra] Cemetery).

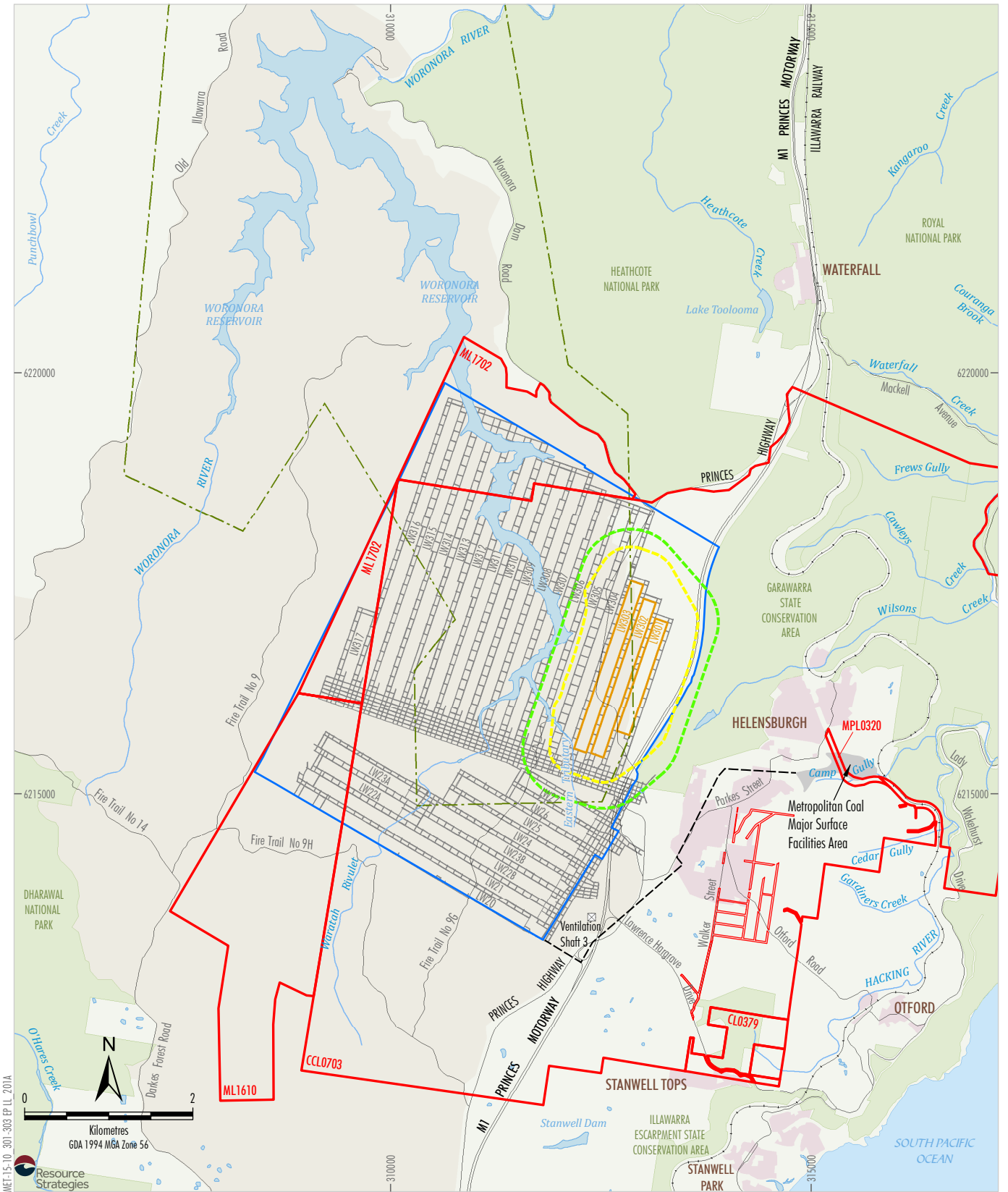
It would be appreciated if the NSW Crown Lands, Nowra District Office could contact the undersigned on (02) 4294 7233 should NSW Crown Lands require further consultation in relation to the Longwalls 301-303 Extraction Plan.

Metropolitan Coal would also appreciate being advised if there are any landusers associated with the crown land that you consider may wish to be consulted in regard to the Longwalls 301-303 Extraction Plan. For example, we understand that Lot 3, DP 840501 and Lot 878, DP 752033 are subject to current Aboriginal land claims.

Yours faithfully,



JON DEGOTARDI
 Manager – Technical Services



MEF-15-10-301-303-EP-ILL-201A
Resource Strategies

LEGEND

- Mining Lease Boundary
- Woronora Special Area
- Railway
- Project Underground Mining Area
Longwalls 20-27 and 301-317
- Longwalls 301 - 303 Secondary Extraction
- 35° Angle of Draw and Predicted
20 mm Subsidence Contour
- 600 m from Secondary Extraction of
Longwalls 301-303
- Woronora Notification Area
- Existing Underground Access Drive (Main Drift)

Source: Land and Property Information (2015); Department of Industry (2015);
Metropolitan Coal (2016); MSEC (2016)



METROPOLITAN COAL
Project Longwalls 20 - 27 and
Longwalls 301 - 317 Layout

Figure 1

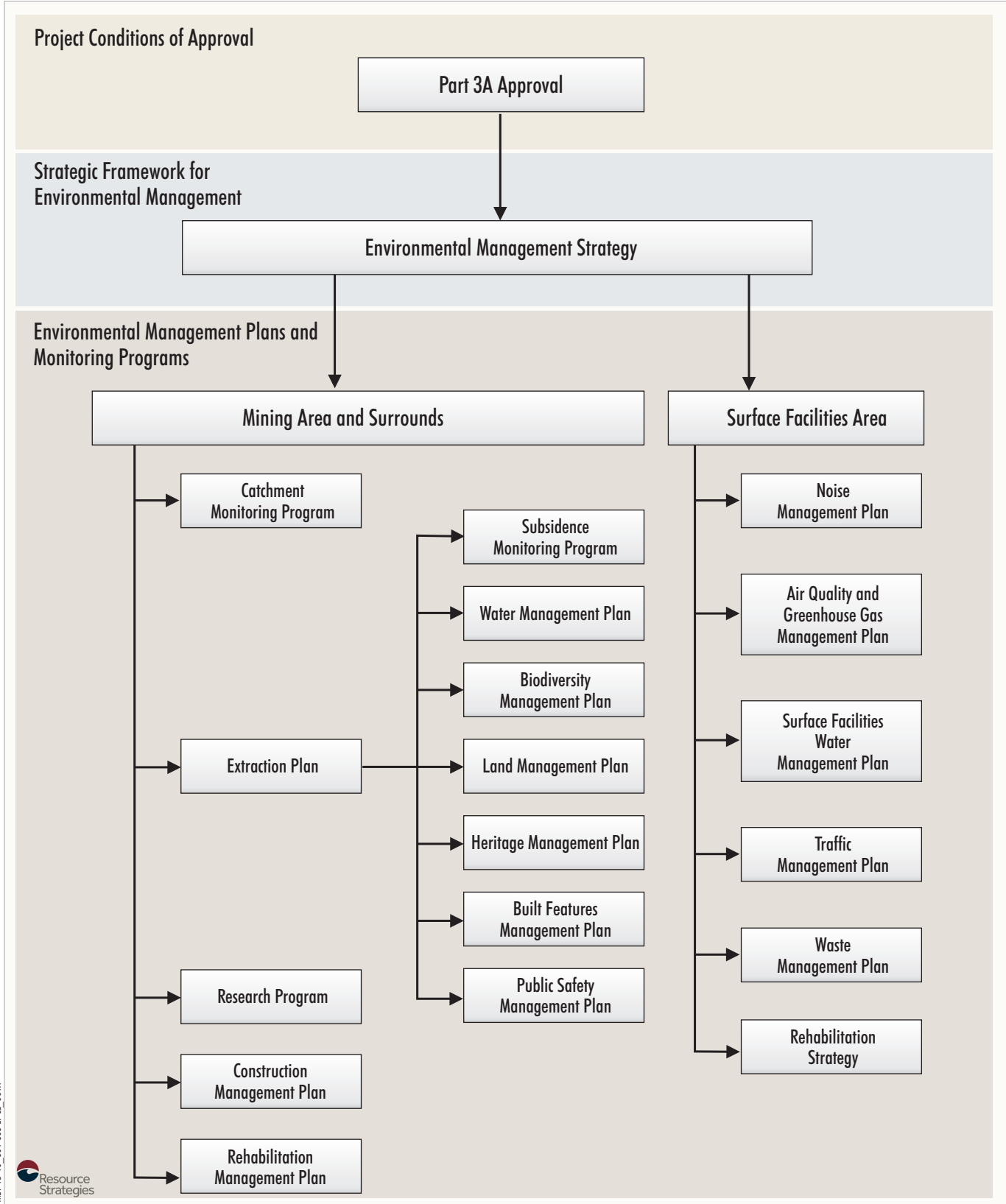
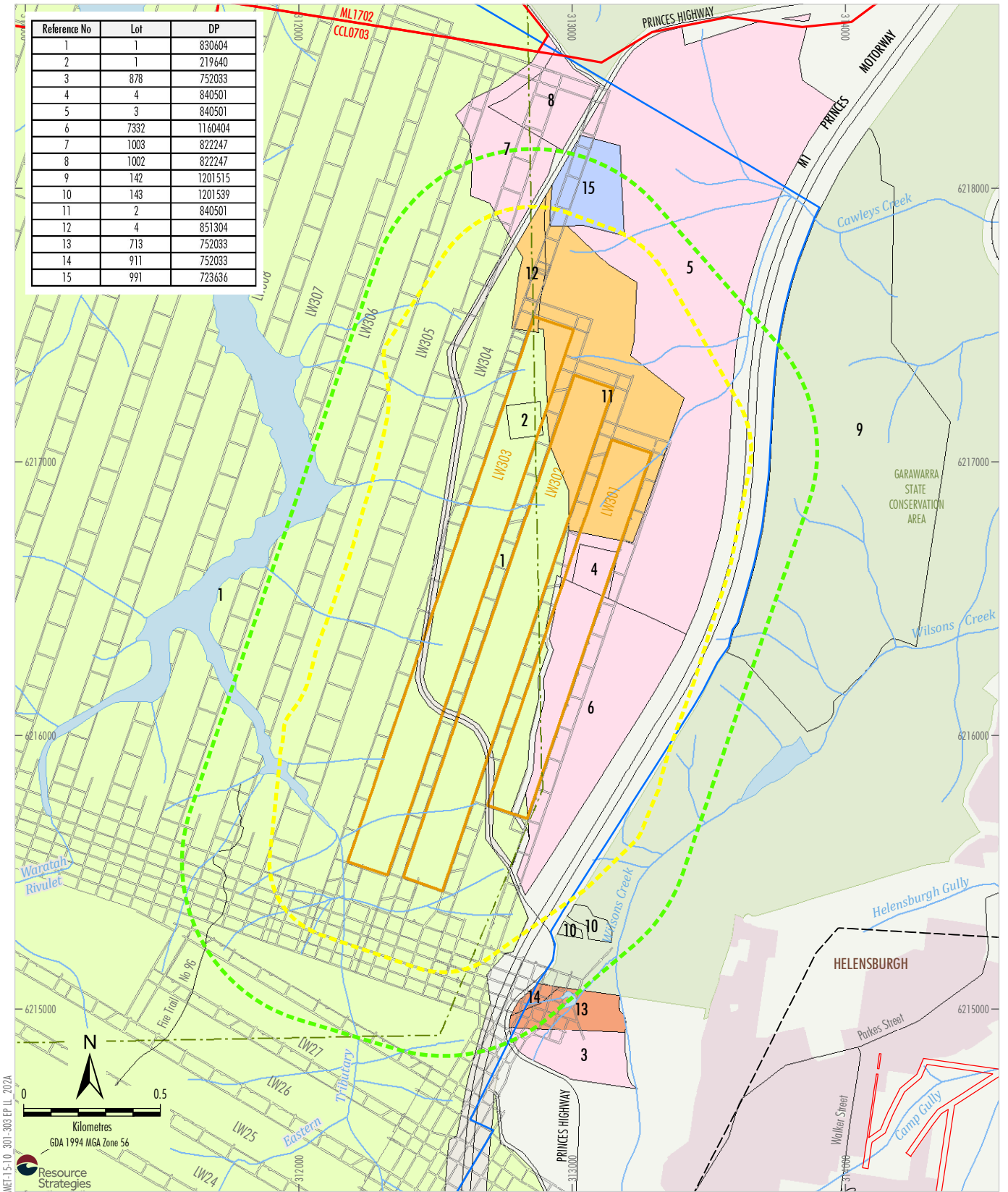


Figure 2



- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
 - Railway
 - Project Underground Mining Area Longwalls 20-27 and 301-317
 - Longwalls 301 - 303 Secondary Extraction
 - 35° Angle of Draw and Predicted 20 mm Subsidence Contour
 - 600 m from Secondary Extraction of Longwalls 301-303
 - Woronora Notification Area
 - Existing Underground Access Drive (Main Drift)

- Landholder**
- WaterNSW
 - The State of New South Wales (Crown Land)
 - The State of New South Wales (Garawarra State Conservation Area)
 - Health Administration Corporation
 - The Trustees of the Macedonian Orthodox Monastery
 - R & C Stewart

Source: Land and Property Information (2015, 2016); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Land Ownership Within
600 m of Longwalls 301-303

Figure 3

ATTACHMENT 1

LETTER TO SUTHERLAND SHIRE SPORT FLYING ASSOCIATION

COPY

14 July 2016

Mr Bob Cantwell
Secretary
Sutherland Shire Sport Flying Association
PO Box 397
Engadine NSW 2233

Also by email: enquiries@sssfa.com

Dear Mr Cantwell,

RE: METROPOLITAN COAL LONGWALLS 301-303 EXTRACTION PLAN

Metropolitan Coal is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW) (Figure 1). Metropolitan Coal is one of the earliest established and longest continually running coal mining operations in Australia, with a history dating back to the 1880s.

Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*. The Project comprises the continuation, upgrade and extension of underground coal mining operations and surface facilities at Metropolitan Coal. The underground mining longwall layout is shown on Figure 1. The Metropolitan Coal Environmental Management Structure is shown on Figure 2.

In accordance with Condition 6, Schedule 3 of the Project Approval, Metropolitan Coal prepares Extraction Plans for specific mining domains as mining progresses. Metropolitan Coal is currently preparing an Extraction Plan for the next area of longwall mining, namely Longwalls 301-303.

A title search of land within 600 metres (m) of Longwalls 301-303 identified Lot 1003, DP 822247, the owner of which was identified as The State of New South Wales (Crown Land). We understand that the Sutherland Shire Sport Flying Association uses a former quarry on this property for club activities. We also understand that the Sutherland Shire Sport Flying Association club house and air strip are located on this property. The location of this lot in relation to Longwalls 301-303 is shown on Figure 3 and is located over 290 m from the nearest longwall (Longwall 303). The club house is located over 780 m from Longwall 303 and the main airstrip is located approximately 600 m from Longwall 303.

Figure 3 shows the 35 degree angle of draw and predicted 20 millimetre (mm) subsidence contour (the yellow dashed line), which is the surface area that is likely to be affected by the proposed mining of Longwalls 301-303. Predicted subsidence parameters are negligible and less than the typical limits of survey accuracy of < 20 mm for subsidence and < 0.5 mm per metre for tilt (Mine Subsidence Engineering Consultants, 2016). It should be noted that natural ground surfaces have been observed to fluctuate more than 20 mm in response to ground moisture levels, and these small levels of ground movements are difficult to measure accurately as 20 mm is less than the normal accuracy of common subsidence measurement methods.

The lot could also experience minor far-field horizontal movements due to the extraction of Longwalls 301-303, however, the strains associated with these low level horizontal movements are not expected to be measurable (Mine Subsidence Engineering Consultants, 2016).

Based on the distance from Longwalls 301-303 and the negligible predicted subsidence parameters, impacts to the lot are not anticipated (Mine Subsidence Engineering Consultants, 2016).

Notwithstanding, the Metropolitan Coal Longwalls 301-303 Extraction Plan will outline the proposed management, mitigation, monitoring and reporting of potential subsidence impacts and environmental consequences from the secondary extraction of Longwalls 301-303. The Longwalls 301-303 Extraction Plan will include (but not be limited to) the following management plans and monitoring programs:

- Longwalls 301-303 Water Management Plan.
- Longwalls 301-303 Land Management Plan.
- Longwalls 301-303 Biodiversity Management Plan.
- Longwalls 301-303 Built Features Management Plan.
- Longwalls 301-303 Heritage Management Plan.
- Longwalls 301-303 Public Safety Management Plan.
- Longwalls 301-303 Subsidence Monitoring Program, including a Coal Resource Recovery Plan.

The NSW Mine Subsidence Board operates for the community in coal mining areas of NSW and is responsible for administering the NSW *Mine Subsidence Compensation Act, 1961*. The NSW Mine Subsidence Board provides information, compensation or repair services to owners of improvements damaged by mine subsidence resulting from the extraction of coal. The NSW Mine Subsidence Board's website can be found at <http://www.minesub.nsw.gov.au>.

If you would like to know more about the Project or the Longwalls 301-303 Extraction Plan, please do not hesitate to contact the undersigned on (02) 4294 7233.

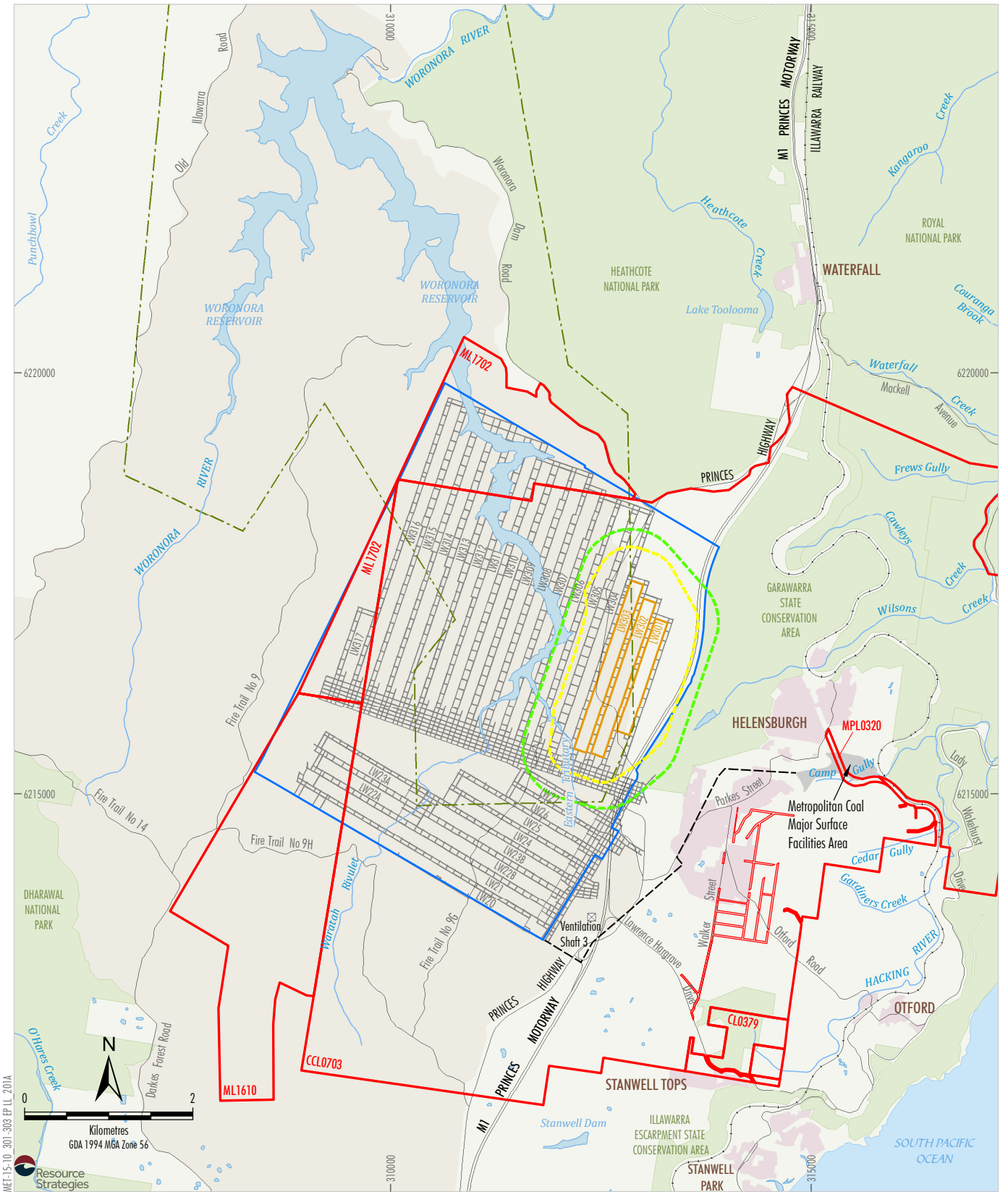
Please note that we have copied this letter to the Department of Primary Industries – Lands, Crown Lands for their information.

Yours faithfully,



JON DEGOTARDI
Manager – Technical Services

cc: Crown Lands Nowra District Office (NSW Department of Primary Industries – Lands)

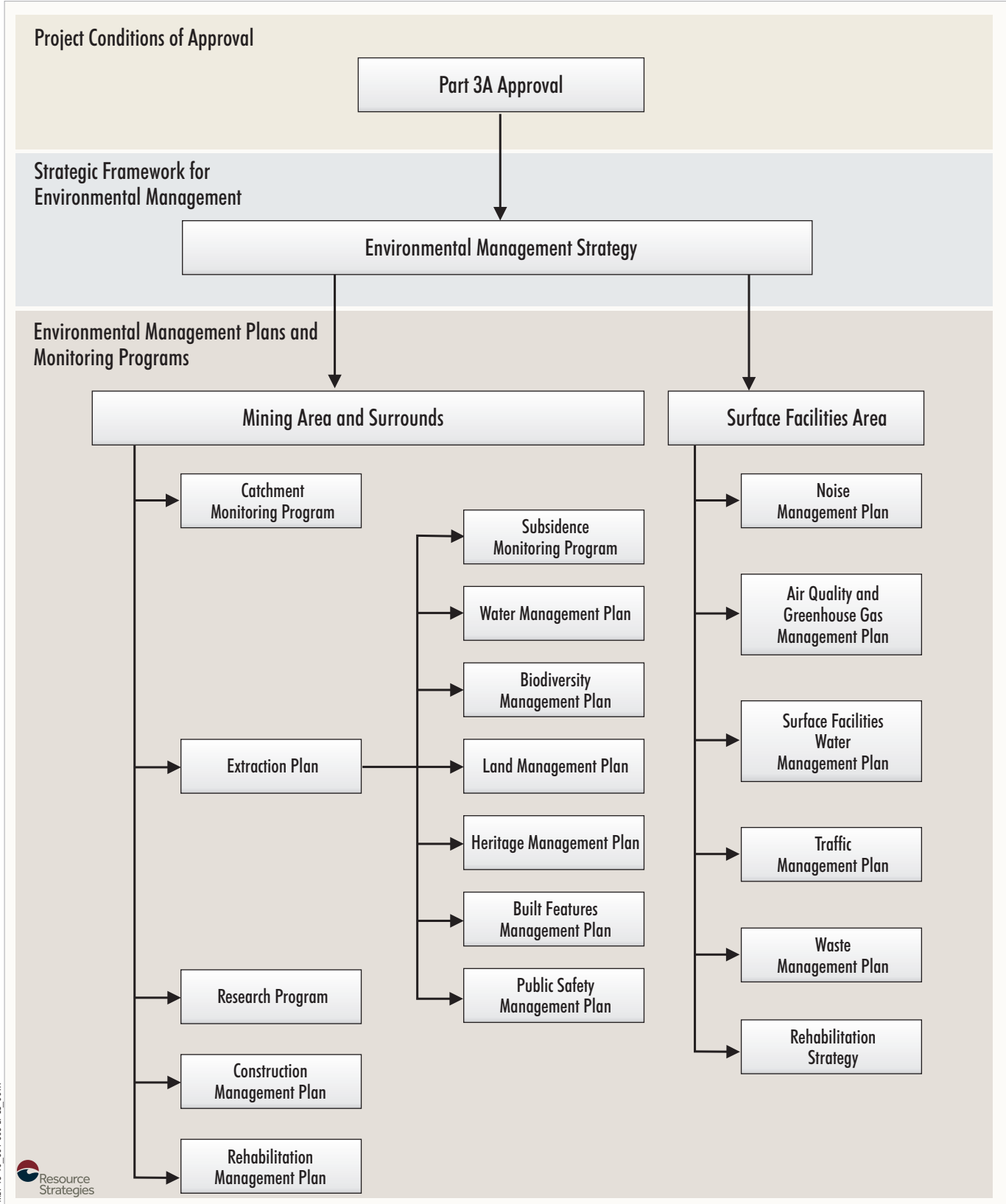


- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
 - Railway
 - Project Underground Mining Area
Longwalls 20-27 and 301-317
 - Longwalls 301 - 303 Secondary Extraction
 - 35° Angle of Draw and Predicted
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Source: Land and Property Information (2015); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Project Longwalls 20 - 27 and
Longwalls 301 - 317 Layout

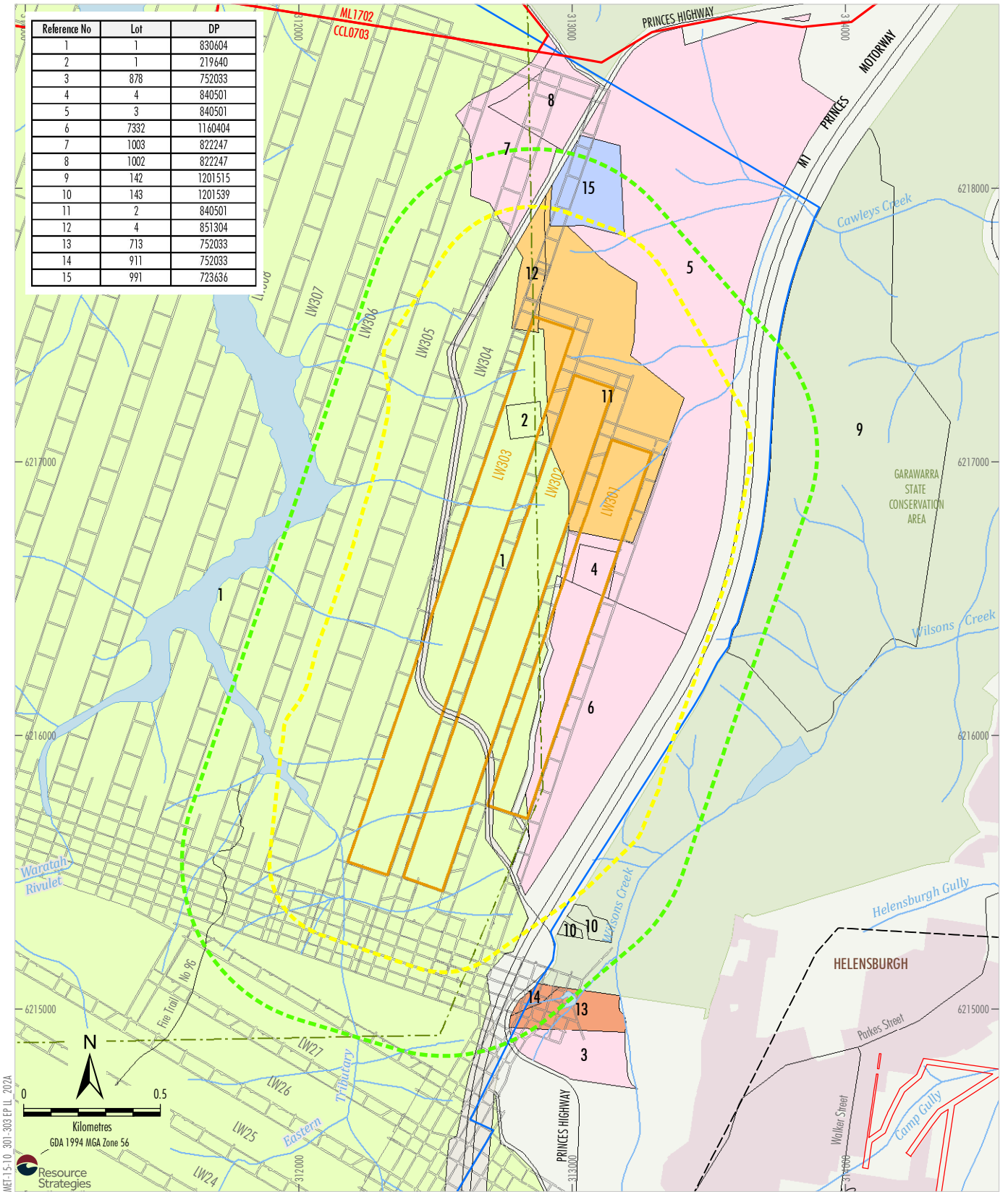
Figure 1



ME1-15-10_301-303 RP_LL_001A



Figure 2



- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
 - Railway
 - Project Underground Mining Area Longwalls 20-27 and 301-317
 - Longwalls 301 - 303 Secondary Extraction
 - 35° Angle of Draw and Predicted 20 mm Subsidence Contour
 - 600 m from Secondary Extraction of Longwalls 301-303
 - Woronora Notification Area
 - Existing Underground Access Drive (Main Drift)

- Landholder**
- WaterNSW
 - The State of New South Wales (Crown Land)
 - The State of New South Wales (Garawarra State Conservation Area)
 - Health Administration Corporation
 - The Trustees of the Macedonian Orthodox Monastery
 - R & C Stewart

Source: Land and Property Information (2015, 2016); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Land Ownership Within
600 m of Longwalls 301-303

Figure 3

17 October 2016

Crown Lands Nowra District Office
NSW Department of Primary Industries – Lands
PO Box 2185
Dangar NSW 2309

Also by email: helen.wheeler@crowmland.nsw.gov.au; nowra.crownlands@crowmland.nsw.gov.au

Attention: Ms Helen Wheeler, NRM Project Officer

Dear Helen,

RE: METROPOLITAN COAL LONGWALLS 301-303 EXTRACTION PLAN

Further to our correspondence dated 14 July 2016, Metropolitan Coal has recently committed to the further shortening of Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex.

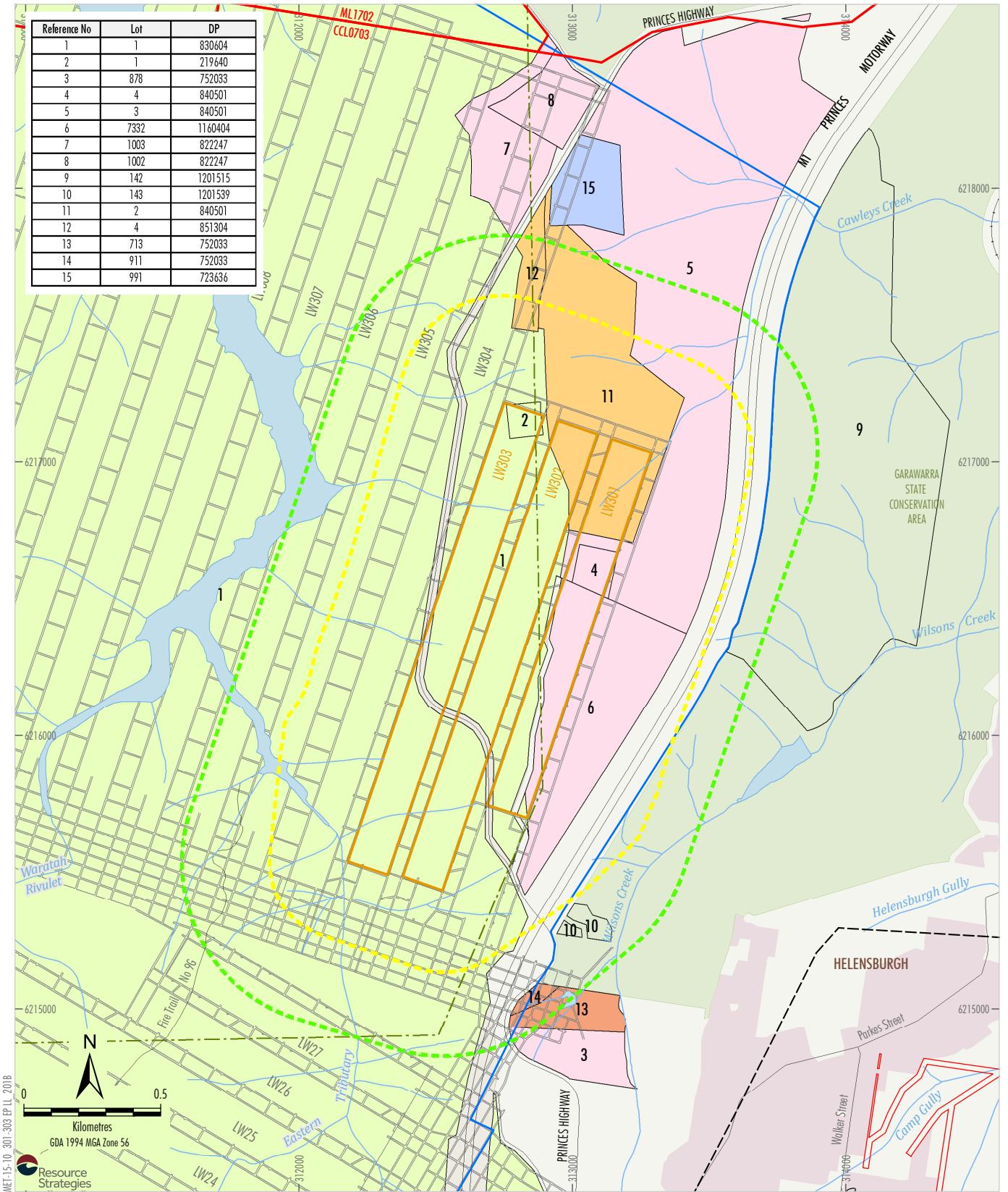
As a result of the revised longwall layout (Figure 1), the predicted subsidence effects generally reduce at the northern end of Longwalls 302 and 303 where the panels have been shortened. In summary, the panel void length of Longwall 302 was reduced from 1,954 m to 1,775 m and the panel void length of Longwall 303 was reduced from 2,122 m to 1,788 m.

Please do not hesitate to contact the undersigned if you have any queries.

Yours sincerely,



JON DEGOTARDI
Manager – Technical Services



- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
 - Railway
 - Project Underground Mining Area
Longwalls 20-27 and 301-317
 - Longwalls 301 - 303 Secondary Extraction
 - 35° Angle of Draw and/or Predicted
20 mm Subsidence Contour
 - 600 m from Secondary Extraction of
Longwalls 301-303
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 - Existing Underground Access Drive (Main Drift)

- Landholder**
- WaterNSW
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 - The State of New South Wales
(Garawarra State Conservation Area)
 - Health Administration Corporation
 - The Trustees of the
Macedonian Orthodox Monastery
R & C Stewart

Source: Land and Property Information (2015, 2016); Department of Industry (2015);
Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Land Ownership Within
600 m of Longwalls 301 - 303

Figure 1

14 July 2016

Mr Kane Weeks
Royal Area Manager
Royal National Park Area Office
NSW National Parks and Wildlife Service
PO Box 144
Sutherland NSW 1499

Also by email: kane.weeks@environment.nsw.gov.au

Dear Mr Weeks,

RE: METROPOLITAN COAL LONGWALLS 301-303 EXTRACTION PLAN

Metropolitan Coal is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW) (Figure 1). Metropolitan Coal is one of the earliest established and longest continually running coal mining operations in Australia, with a history dating back to the 1880s.

Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*. The Project comprises the continuation, upgrade and extension of underground coal mining operations and surface facilities at Metropolitan Coal. The underground mining longwall layout is shown on Figure 1. The Metropolitan Coal Environmental Management Structure is shown on Figure 2.

In accordance with Condition 6, Schedule 3 of the Project Approval, Metropolitan Coal prepares Extraction Plans for specific mining domains as mining progresses. Metropolitan Coal is currently preparing an Extraction Plan for the next area of longwall mining, namely Longwalls 301-303.

A title search of land within 600 metres (m) of Longwalls 301-303 identified Lot 142, DP 1201515 and Lot 143, DP 1201539 and other land, the owner of which was identified as The State of New South Wales (Garawarra State Conservation Area). The location of the lots in relation to Longwalls 301-303 is shown on Figure 3. The lots are located to the east of the M1 Princes Motorway and approximately 325 m from the nearest longwall (Longwall 301).

We understand that the area of the Garawarra State Conservation Area located within 600 m of Longwalls 301-303 is undeveloped with no building structures present. We understand other built features present on Garawarra State Conservation Area land within 600 m of Longwalls 301-303 includes unsealed roads and tracks, as well as a Telstra local cable on Lot 132, DP 1201539.

Figure 3 shows the 35 degree angle of draw and predicted 20 millimetre (mm) subsidence contour (the yellow dashed line), which is the surface area that is likely to be affected by the proposed mining of Longwalls 301-303. Predicted subsidence parameters for the lots are negligible and predominantly less than the typical limits of survey accuracy. The predicted parameters are < 50 mm for subsidence (majority < 20 mm) and < 0.5 mm per metre for tilt (Mine Subsidence Engineering Consultants, 2016). It should be noted that natural ground surfaces have been observed to fluctuate more than 20 mm in response to ground moisture levels, and these small levels of ground movements are difficult to measure accurately as 20 mm is less than the normal accuracy of common subsidence measurement methods.

The lots could also experience minor far-field horizontal movements due to the extraction of Longwalls 301-303, however, the strains associated with these low level horizontal movements are not expected to be measurable (Mine Subsidence Engineering Consultants, 2016).

Based on the distance from Longwalls 301-303 and the negligible predicted subsidence parameters, impacts to these lots are not anticipated (Mine Subsidence Engineering Consultants, 2016).

Notwithstanding, the Metropolitan Coal Longwalls 301-303 Extraction Plan will outline the proposed management, mitigation, monitoring and reporting of potential subsidence impacts and environmental consequences from the secondary extraction of Longwalls 301-303. The Longwalls 301-303 Extraction Plan will include (but not be limited to) the following management plans and monitoring programs:

- Longwalls 301-303 Water Management Plan.
- Longwalls 301-303 Land Management Plan.
- Longwalls 301-303 Biodiversity Management Plan.
- Longwalls 301-303 Built Features Management Plan.
- Longwalls 301-303 Heritage Management Plan.
- Longwalls 301-303 Public Safety Management Plan.
- Longwalls 301-303 Subsidence Monitoring Program, including a Coal Resource Recovery Plan.

Potential impacts to built features, including the Telstra local cable on Lot 143, DP 1201539, will be managed in accordance with the relevant Longwalls 301-303 Built Features Management Plans being prepared in consultation with the infrastructure owners.

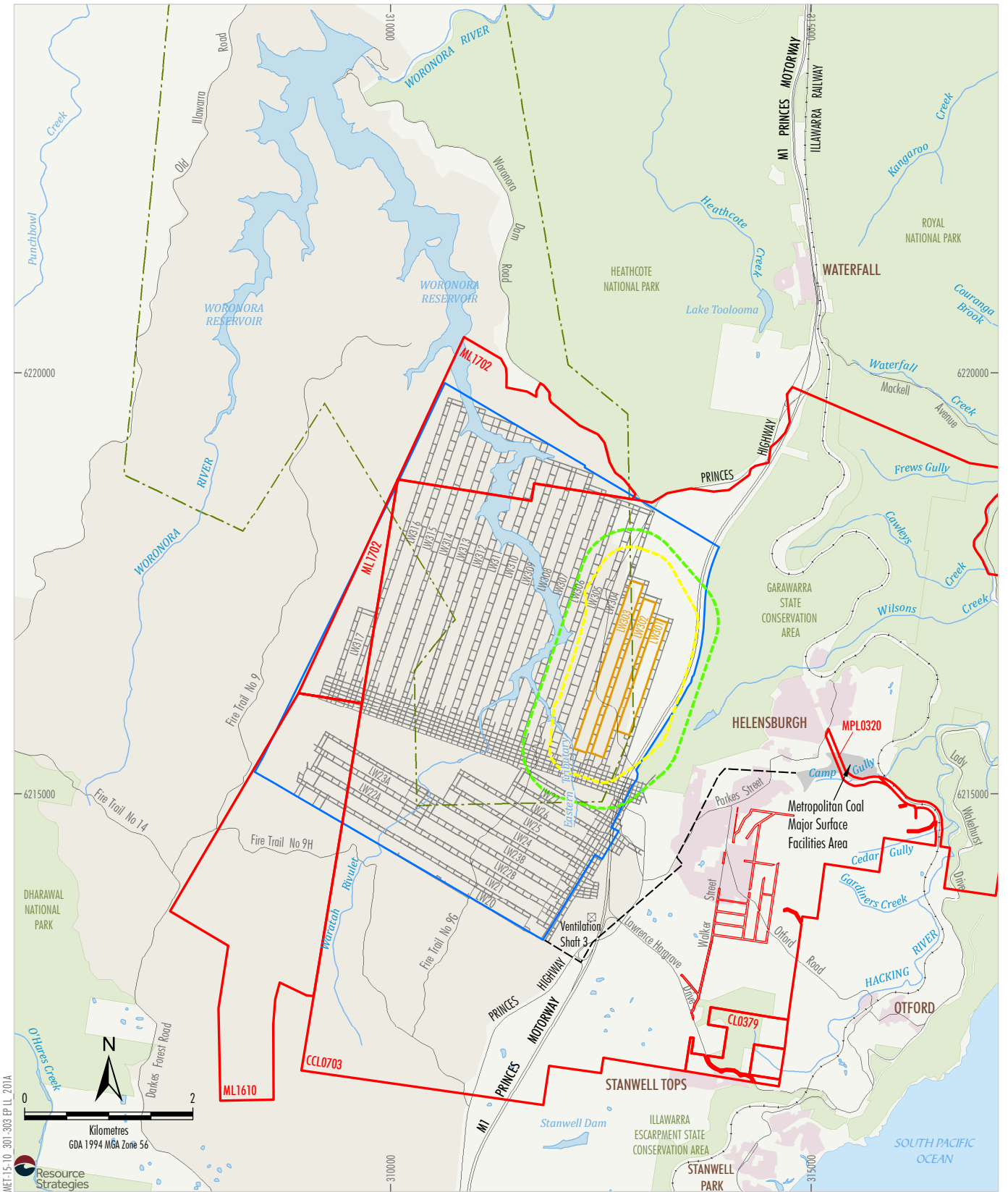
The NSW Mine Subsidence Board operates for the community in coal mining areas of NSW and is responsible for administering the NSW *Mine Subsidence Compensation Act, 1961*. The NSW Mine Subsidence Board provides information, compensation or repair services to owners of improvements damaged by mine subsidence resulting from the extraction of coal. The NSW Mine Subsidence Board's website can be found at <http://www.minesub.nsw.gov.au>.

If you would like to know more about the Project or the Longwalls 301-303 Extraction Plan, please do not hesitate to contact the undersigned on (02) 4294 7233.

Yours faithfully,



JON DEGOTARDI
Manager – Technical Services



- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
 - Railway
 - Project Underground Mining Area
Longwalls 20-27 and 301-317
 - Longwalls 301 - 303 Secondary Extraction
 - 35° Angle of Draw and Predicted
20 mm Subsidence Contour
 - 600 m from Secondary Extraction of
Longwalls 301-303
 - Woronora Notification Area
 - Existing Underground Access Drive (Main Drift)

Source: Land and Property Information (2015); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Project Longwalls 20 - 27 and
Longwalls 301 - 317 Layout

Figure 1

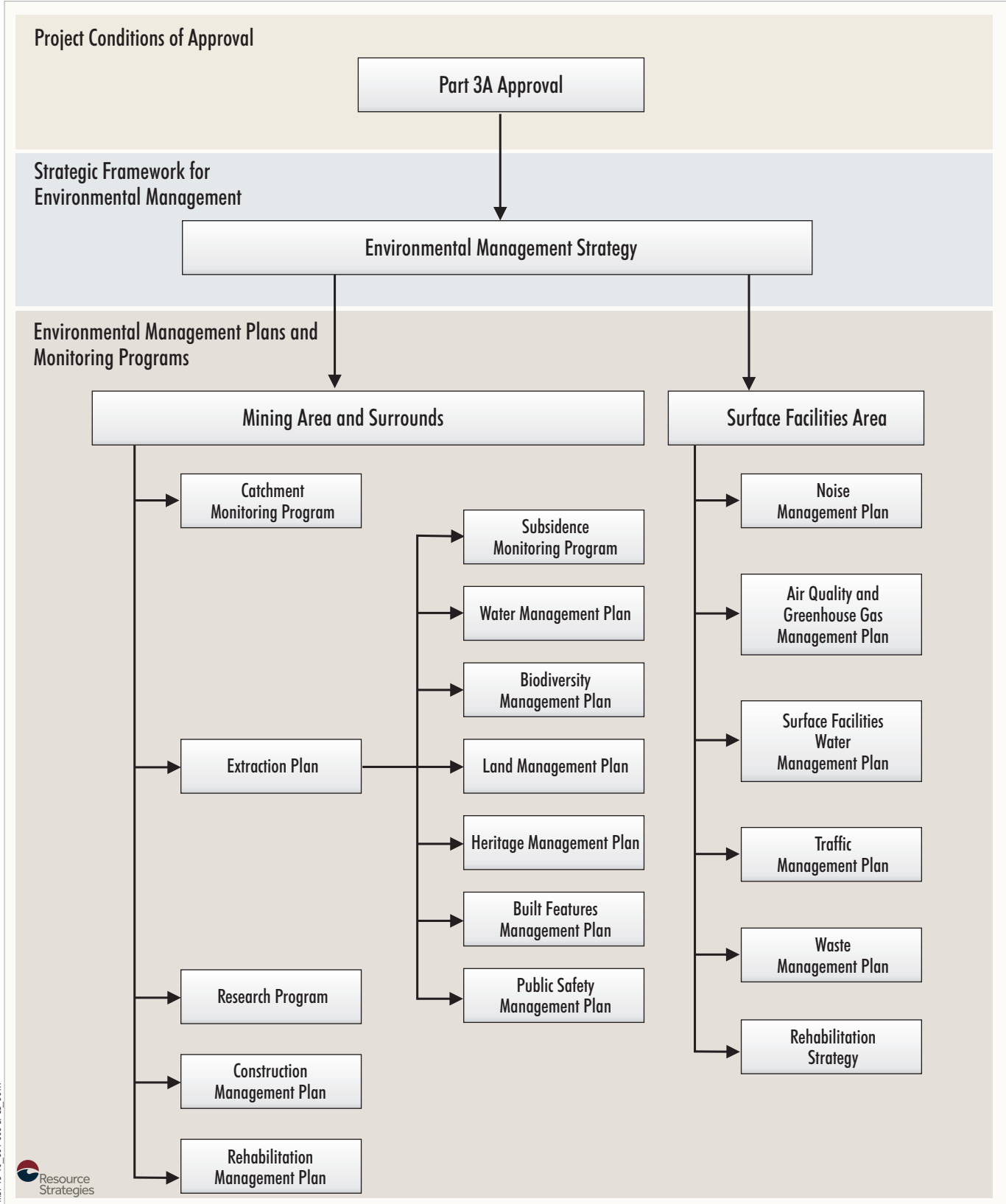
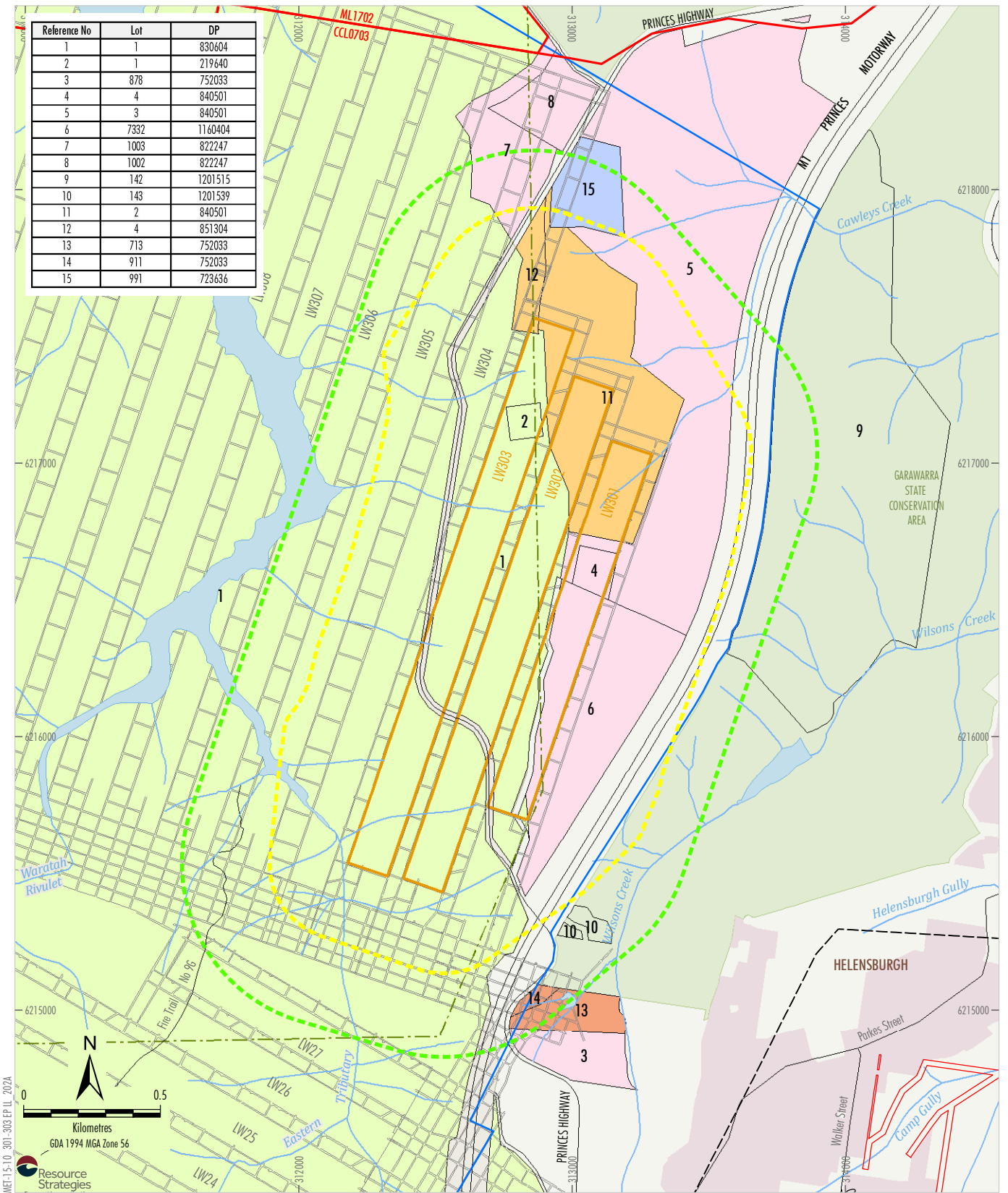


Figure 2



- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
 - Railway
 - Project Underground Mining Area Longwalls 20-27 and 301-317
 - Longwalls 301 - 303 Secondary Extraction
 - 35° Angle of Draw and Predicted 20 mm Subsidence Contour
 - 600 m from Secondary Extraction of Longwalls 301-303
 - Woronora Notification Area
 - Existing Underground Access Drive (Main Drift)

- Landholder**
- WaterNSW
 - The State of New South Wales (Crown Land)
 - The State of New South Wales (Garawarra State Conservation Area)
 - Health Administration Corporation
 - The Trustees of the Macedonian Orthodox Monastery
 - R & C Stewart

Source: Land and Property Information (2015, 2016); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Land Ownership Within
600 m of Longwalls 301-303

Figure 3

17 October 2016

Mr Kane Weeks
Royal Area Manager
Royal National Park Area Office
NSW National Parks and Wildlife Service
PO Box 144
Sutherland NSW 1499

Also by email: kane.weeks@environment.nsw.gov.au

Dear Mr Weeks,

RE: METROPOLITAN COAL LONGWALLS 301-303 EXTRACTION PLAN

Further to our correspondence dated 14 July 2016, Metropolitan Coal has recently committed to the further shortening of Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex.

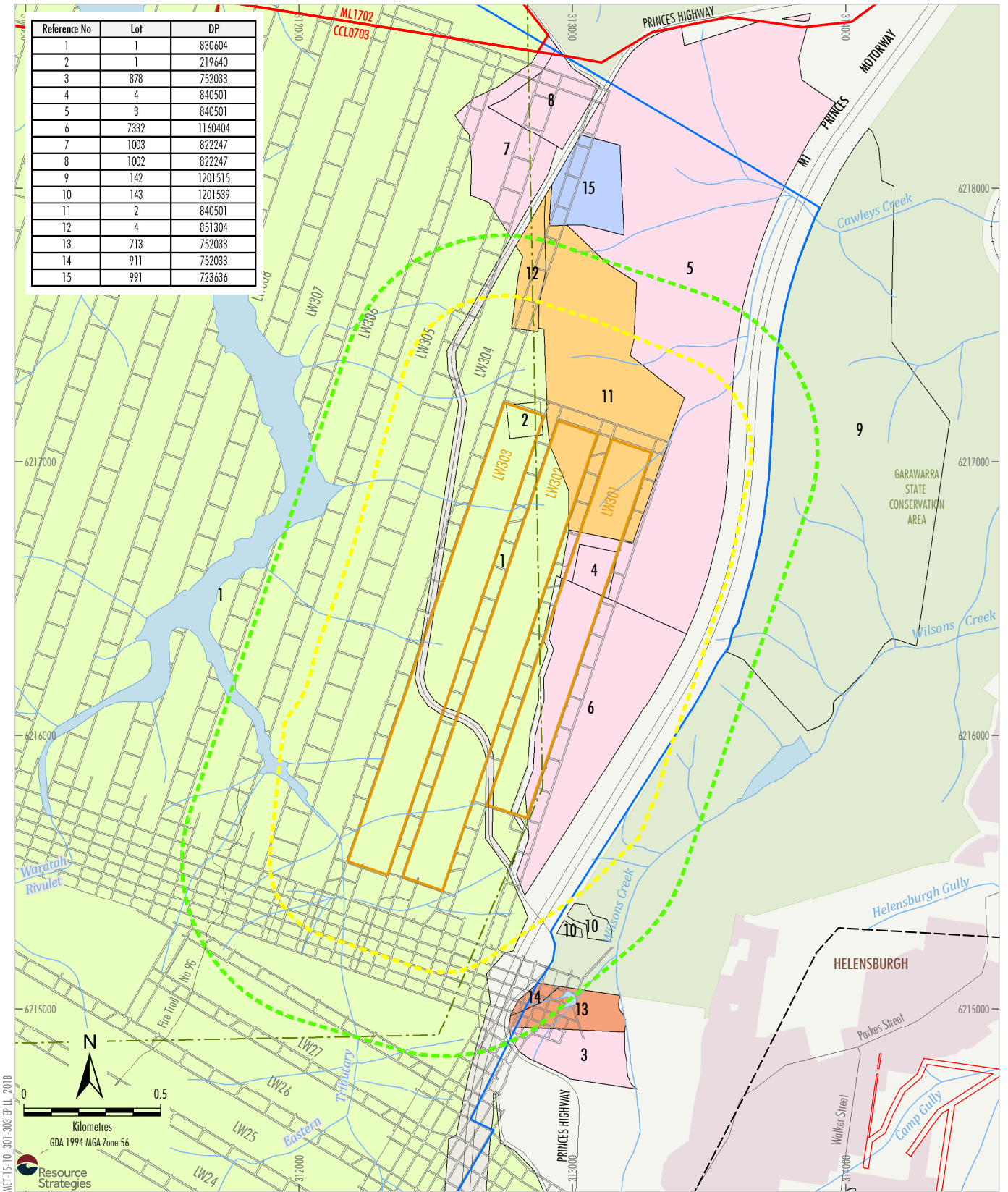
As a result of the revised longwall layout (Figure 1), the predicted subsidence effects generally reduce at the northern end of Longwalls 302 and 303 where the panels have been shortened. In summary, the panel void length of Longwall 302 was reduced from 1,954 m to 1,775 m and the panel void length of Longwall 303 was reduced from 2,122 m to 1,788 m.

Please do not hesitate to contact the undersigned if you have any queries.

Yours sincerely,



JON DEGOTARDI
Manager – Technical Services



- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
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 - The Trustees of the
Macedonian Orthodox Monastery
R & C Stewart

Source: Land and Property Information (2015, 2016); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
**Land Ownership Within
600 m of Longwalls 301 - 303**

Figure 1

14 July 2016

Mr Bob Cantwell
Secretary
Sutherland Shire Sport Flying Association
PO Box 397
Engadine NSW 2233

Also by email: enquiries@sssfa.com

Dear Mr Cantwell,

RE: METROPOLITAN COAL LONGWALLS 301-303 EXTRACTION PLAN

Metropolitan Coal is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW) (Figure 1). Metropolitan Coal is one of the earliest established and longest continually running coal mining operations in Australia, with a history dating back to the 1880s.

Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*. The Project comprises the continuation, upgrade and extension of underground coal mining operations and surface facilities at Metropolitan Coal. The underground mining longwall layout is shown on Figure 1. The Metropolitan Coal Environmental Management Structure is shown on Figure 2.

In accordance with Condition 6, Schedule 3 of the Project Approval, Metropolitan Coal prepares Extraction Plans for specific mining domains as mining progresses. Metropolitan Coal is currently preparing an Extraction Plan for the next area of longwall mining, namely Longwalls 301-303.

A title search of land within 600 metres (m) of Longwalls 301-303 identified Lot 1003, DP 822247, the owner of which was identified as The State of New South Wales (Crown Land). We understand that the Sutherland Shire Sport Flying Association uses a former quarry on this property for club activities. We also understand that the Sutherland Shire Sport Flying Association club house and air strip are located on this property. The location of this lot in relation to Longwalls 301-303 is shown on Figure 3 and is located over 290 m from the nearest longwall (Longwall 303). The club house is located over 780 m from Longwall 303 and the main airstrip is located approximately 600 m from Longwall 303.

Figure 3 shows the 35 degree angle of draw and predicted 20 millimetre (mm) subsidence contour (the yellow dashed line), which is the surface area that is likely to be affected by the proposed mining of Longwalls 301-303. Predicted subsidence parameters are negligible and less than the typical limits of survey accuracy of < 20 mm for subsidence and < 0.5 mm per metre for tilt (Mine Subsidence Engineering Consultants, 2016). It should be noted that natural ground surfaces have been observed to fluctuate more than 20 mm in response to ground moisture levels, and these small levels of ground movements are difficult to measure accurately as 20 mm is less than the normal accuracy of common subsidence measurement methods.

The lot could also experience minor far-field horizontal movements due to the extraction of Longwalls 301-303, however, the strains associated with these low level horizontal movements are not expected to be measurable (Mine Subsidence Engineering Consultants, 2016).

Based on the distance from Longwalls 301-303 and the negligible predicted subsidence parameters, impacts to the lot are not anticipated (Mine Subsidence Engineering Consultants, 2016).

Notwithstanding, the Metropolitan Coal Longwalls 301-303 Extraction Plan will outline the proposed management, mitigation, monitoring and reporting of potential subsidence impacts and environmental consequences from the secondary extraction of Longwalls 301-303. The Longwalls 301-303 Extraction Plan will include (but not be limited to) the following management plans and monitoring programs:

- Longwalls 301-303 Water Management Plan.
- Longwalls 301-303 Land Management Plan.
- Longwalls 301-303 Biodiversity Management Plan.
- Longwalls 301-303 Built Features Management Plan.
- Longwalls 301-303 Heritage Management Plan.
- Longwalls 301-303 Public Safety Management Plan.
- Longwalls 301-303 Subsidence Monitoring Program, including a Coal Resource Recovery Plan.

The NSW Mine Subsidence Board operates for the community in coal mining areas of NSW and is responsible for administering the NSW *Mine Subsidence Compensation Act, 1961*. The NSW Mine Subsidence Board provides information, compensation or repair services to owners of improvements damaged by mine subsidence resulting from the extraction of coal. The NSW Mine Subsidence Board's website can be found at <http://www.minesub.nsw.gov.au>.

If you would like to know more about the Project or the Longwalls 301-303 Extraction Plan, please do not hesitate to contact the undersigned on (02) 4294 7233.

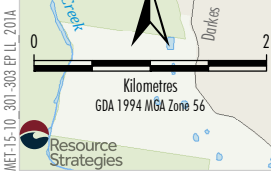
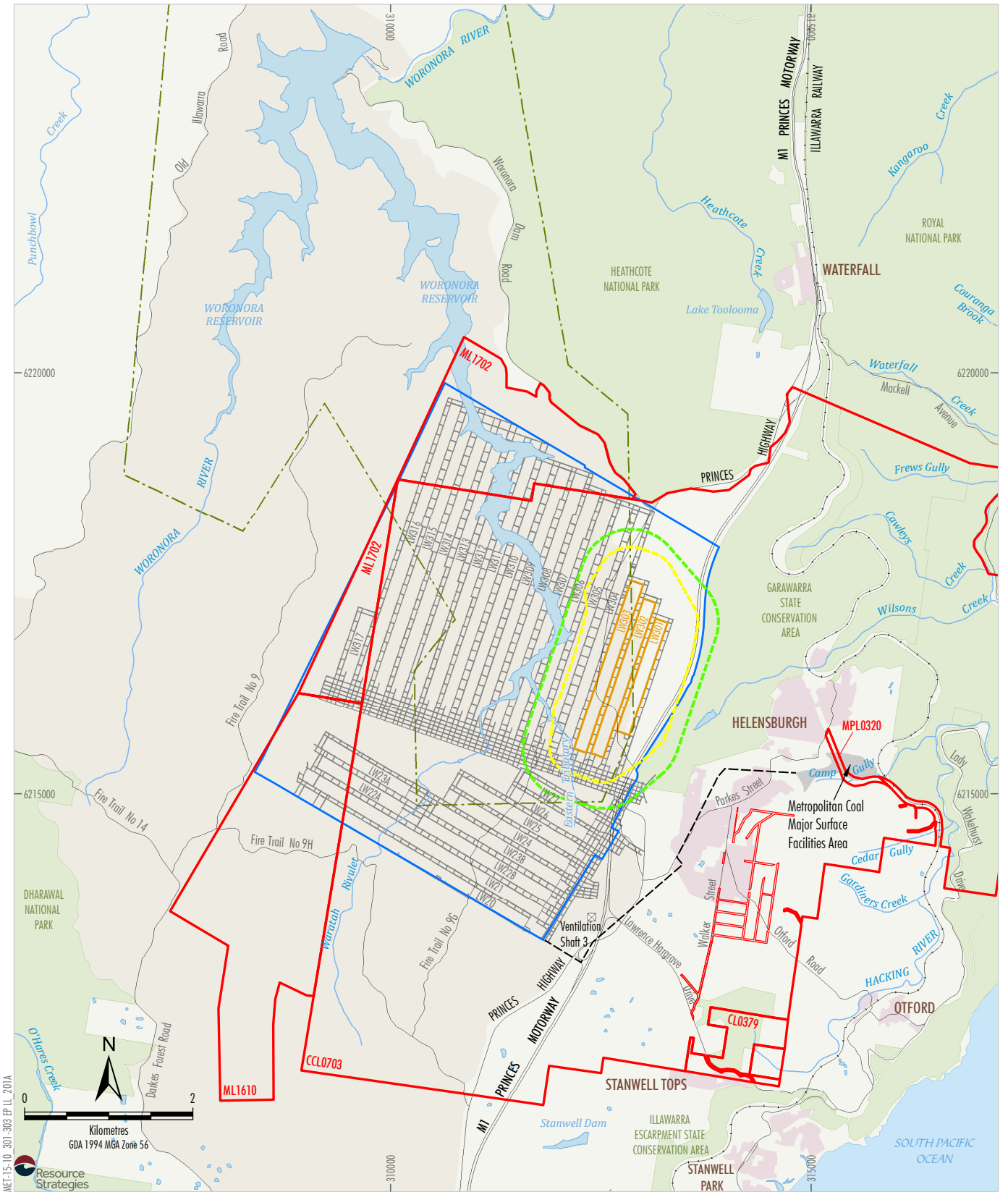
Please note that we have copied this letter to the Department of Primary Industries – Lands, Crown Lands for their information.

Yours faithfully,



JON DEGOTARDI
Manager – Technical Services

cc: Crown Lands Nowra District Office (NSW Department of Primary Industries – Lands)

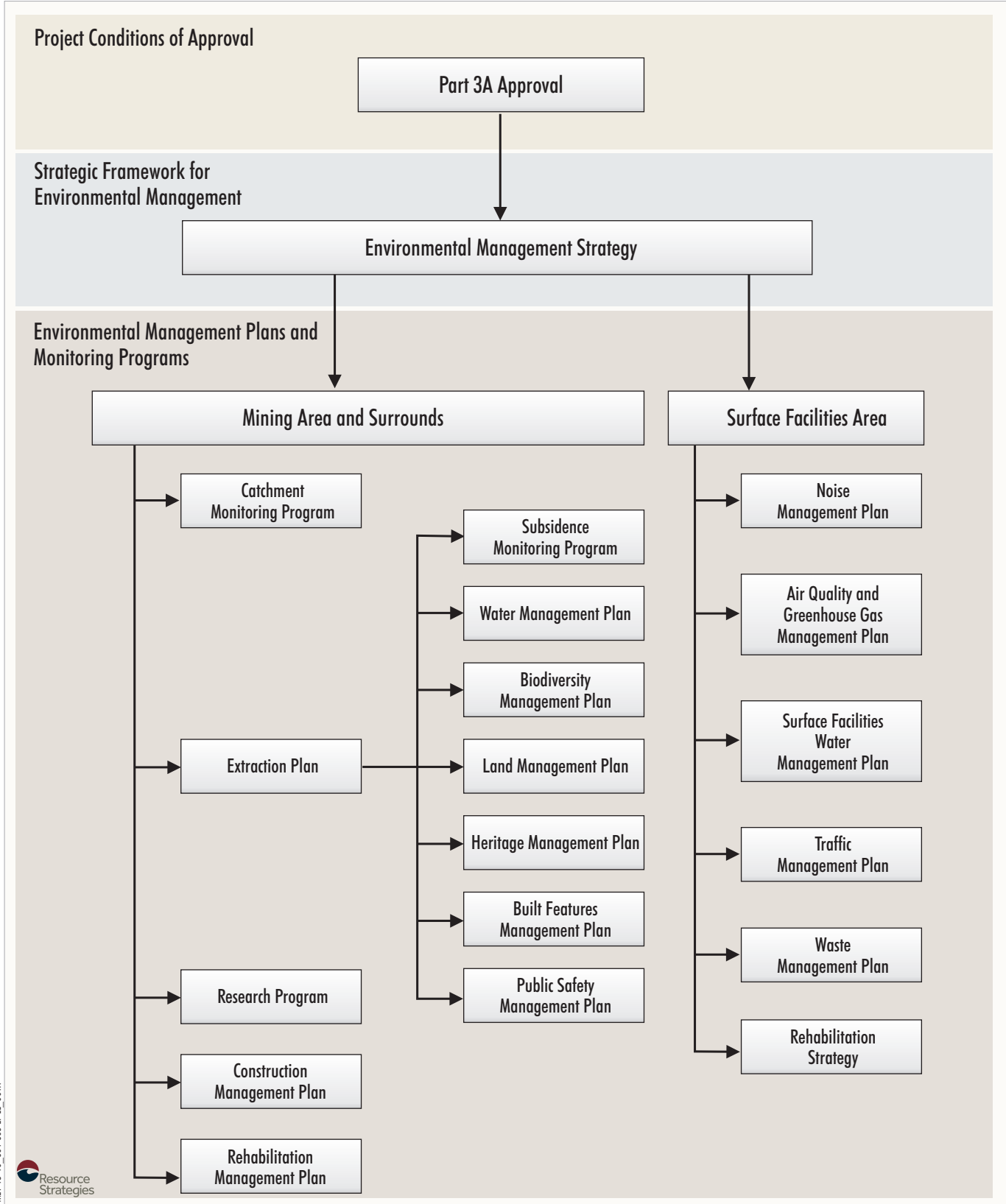


- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
 - Railway
 - Project Underground Mining Area
Longwalls 20-27 and 301-317
 - Longwalls 301 - 303 Secondary Extraction
 - 35° Angle of Draw and Predicted
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Longwalls 301-303
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 - Existing Underground Access Drive (Main Drift)

Source: Land and Property Information (2015); Department of Industry (2015);
 Metropolitan Coal (2016); MSEC (2016)

Peabody
 ENERGY
METROPOLITAN COAL
 Project Longwalls 20 - 27 and
 Longwalls 301 - 317 Layout

Figure 1

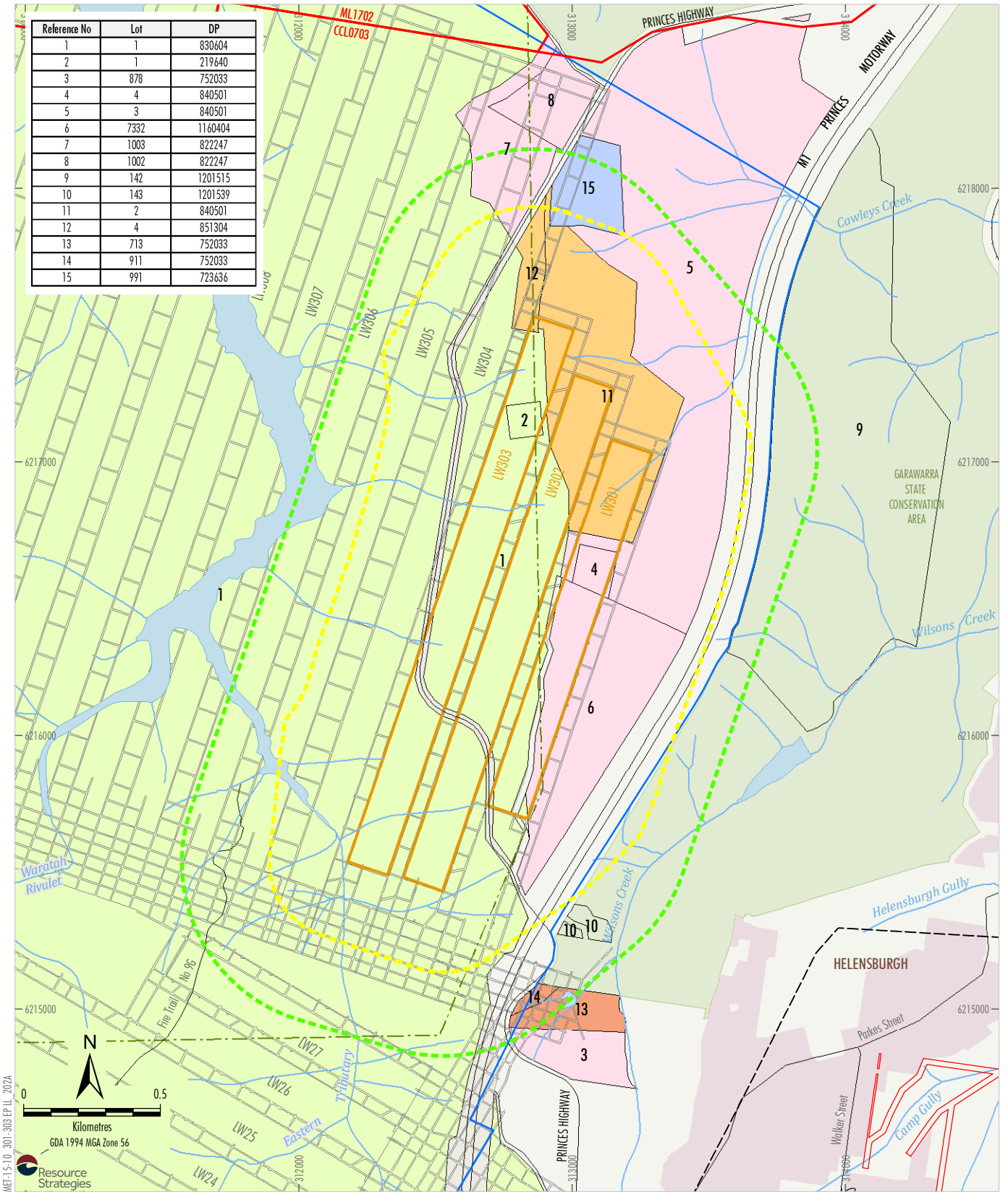


ME1-15-10_301-303 RP_LL_001A



METROPOLITAN COAL
Environmental Management
Structure

Figure 2



- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
 - Railway
 - Project Underground Mining Area Longwalls 20-27 and 301-317
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- Landholder**
- WaterNSW
 - The State of New South Wales (Crown Land)
 - The State of New South Wales (Garawarra State Conservation Area)
 - Health Administration Corporation
 - The Trustees of the Macedonian Orthodox Monastery
 - R & C Stewart

Source: Land and Property Information (2015, 2016); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Land Ownership Within
600 m of Longwalls 301-303

Figure 3

17 October 2016

Mr Bob Cantwell
Secretary
Sutherland Shire Sport Flying Association
PO Box 397
Engadine NSW 2233

Also by email: enquiries@sssfa.com

Dear Mr Cantwell,

RE: METROPOLITAN COAL LONGWALLS 301-303 EXTRACTION PLAN

Further to our correspondence dated 14 July 2016, Metropolitan Coal has recently committed to the further shortening of Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex.

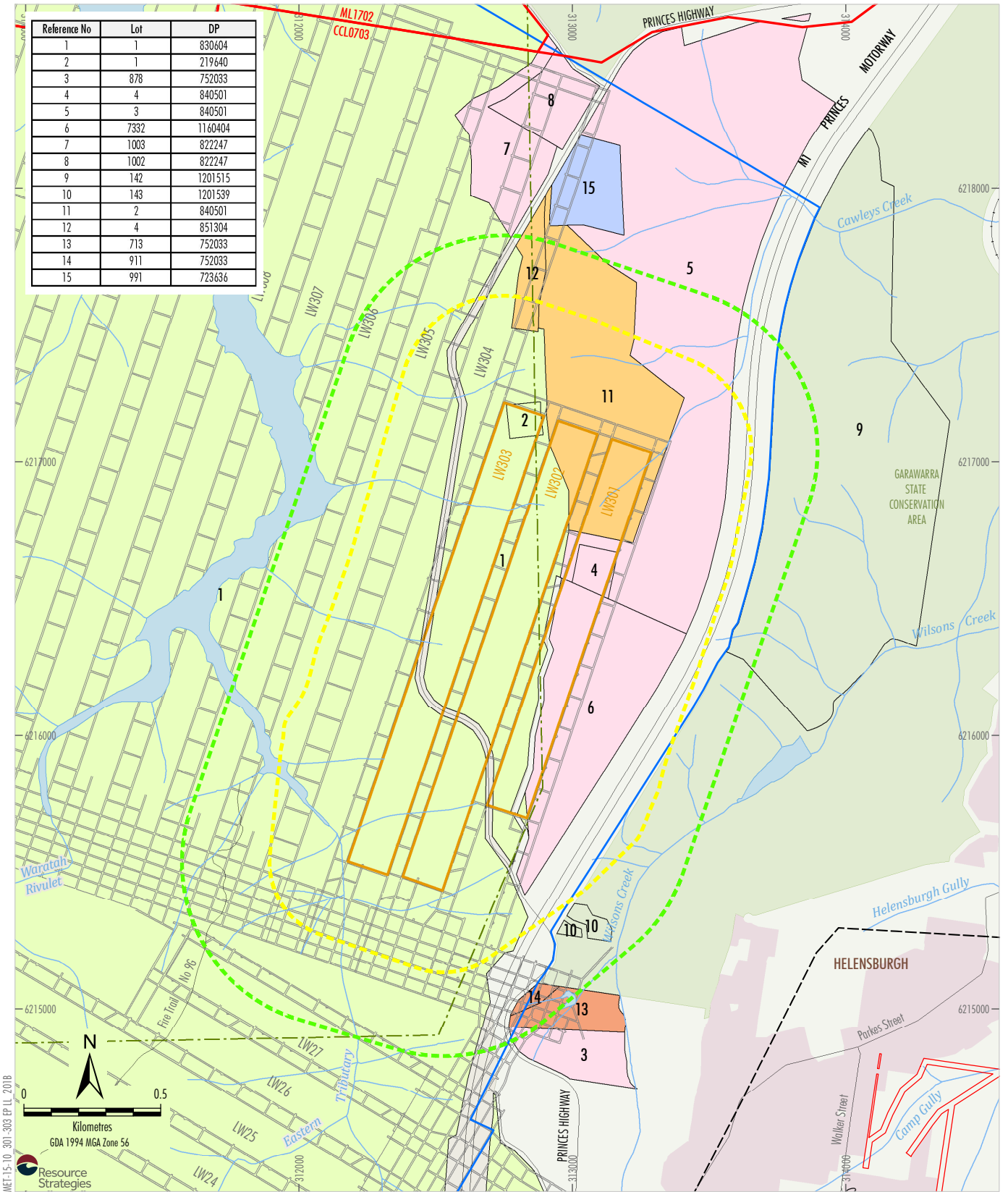
As a result of the revised longwall layout (Figure 1), the predicted subsidence effects generally reduce at the northern end of Longwalls 302 and 303 where the panels have been shortened. In summary, the panel void length of Longwall 302 was reduced from 1,954 m to 1,775 m and the panel void length of Longwall 303 was reduced from 2,122 m to 1,788 m.

Please do not hesitate to contact the undersigned if you have any queries.

Yours sincerely,



JON DEGOTARDI
Manager – Technical Services



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Macedonian Orthodox Monastery
R & C Stewart

Source: Land and Property Information (2015, 2016); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Land Ownership Within
600 m of Longwalls 301 - 303

Figure 1

14 July 2016

Mr Boris Vrtkovski
Secretary
Macedonian Orthodox Community of The City of Greater Wollongong
8-14 Stewart Street
Wollongong NSW 2500

Also by email: mocwsaintdimitrijasolunski@hotmail.com

Dear Mr Vrtkovski,

RE: METROPOLITAN COAL LONGWALLS 301-303 EXTRACTION PLAN

Metropolitan Coal is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW) (Figure 1). Metropolitan Coal is one of the earliest established and longest continually running coal mining operations in Australia, with a history dating back to the 1880s.

Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*. The Project comprises the continuation, upgrade and extension of underground coal mining operations and surface facilities at Metropolitan Coal. The underground mining longwall layout is shown on Figure 1. The Metropolitan Coal Environmental Management Structure is shown on Figure 2.

In accordance with Condition 6, Schedule 3 of the Project Approval, Metropolitan Coal prepares Extraction Plans for specific mining domains as mining progresses. Metropolitan Coal is currently preparing an Extraction Plan for the next area of longwall mining, namely Longwalls 301-303.

A title search of land within 600 metres (m) of Longwalls 301-303 identified Lot 991, DP 723636, the owner of which was identified as The Trustees of the Macedonian Orthodox Monastery. The location of this lot in relation to Longwalls 301-303 is shown on Figure 3 and is located over 325 m from the nearest longwall (Longwall 303). We understand that Lot 991, DP 723636 is undeveloped with no structures present.

Figure 3 shows the 35 degree angle of draw and predicted 20 millimetre (mm) subsidence contour (the yellow dashed line), which is the surface area that is likely to be affected by the proposed mining of Longwalls 301-303. Predicted subsidence parameters for the lot are negligible and less than the typical limits of survey accuracy of < 20 mm for subsidence and < 0.5 mm per metre for tilt (Mine Subsidence Engineering Consultants, 2016). It should be noted that natural ground surfaces have been observed to fluctuate more than 20 mm in response to ground moisture levels, and these small levels of ground movements are difficult to measure accurately as 20 mm is less than the normal accuracy of common subsidence measurement methods.

The lot could also experience minor far-field horizontal movements due to the extraction of Longwalls 301-303, however, the strains associated with these low level horizontal movements are not expected to be measurable (Mine Subsidence Engineering Consultants, 2016).

Based on the distance from Longwalls 301-303 and the negligible predicted subsidence parameters, impacts to this lot are not anticipated (Mine Subsidence Engineering Consultants, 2016).

Notwithstanding, the Metropolitan Coal Longwalls 301-303 Extraction Plan will outline the proposed management, mitigation, monitoring and reporting of potential subsidence impacts and environmental consequences from the secondary extraction of Longwalls 301-303. The Longwalls 301-303 Extraction Plan will include (but not be limited to) the following management plans and monitoring programs:

- Longwalls 301-303 Water Management Plan.
- Longwalls 301-303 Land Management Plan.
- Longwalls 301-303 Biodiversity Management Plan.
- Longwalls 301-303 Built Features Management Plan.
- Longwalls 301-303 Heritage Management Plan.
- Longwalls 301-303 Public Safety Management Plan.
- Longwalls 301-303 Subsidence Monitoring Program, including a Coal Resource Recovery Plan.

The NSW Mine Subsidence Board operates for the community in coal mining areas of NSW and is responsible for administering the NSW *Mine Subsidence Compensation Act, 1961*. The NSW Mine Subsidence Board provides information, compensation or repair services to owners of improvements damaged by mine subsidence resulting from the extraction of coal. The NSW Mine Subsidence Board's website can be found at <http://www.minesub.nsw.gov.au>.

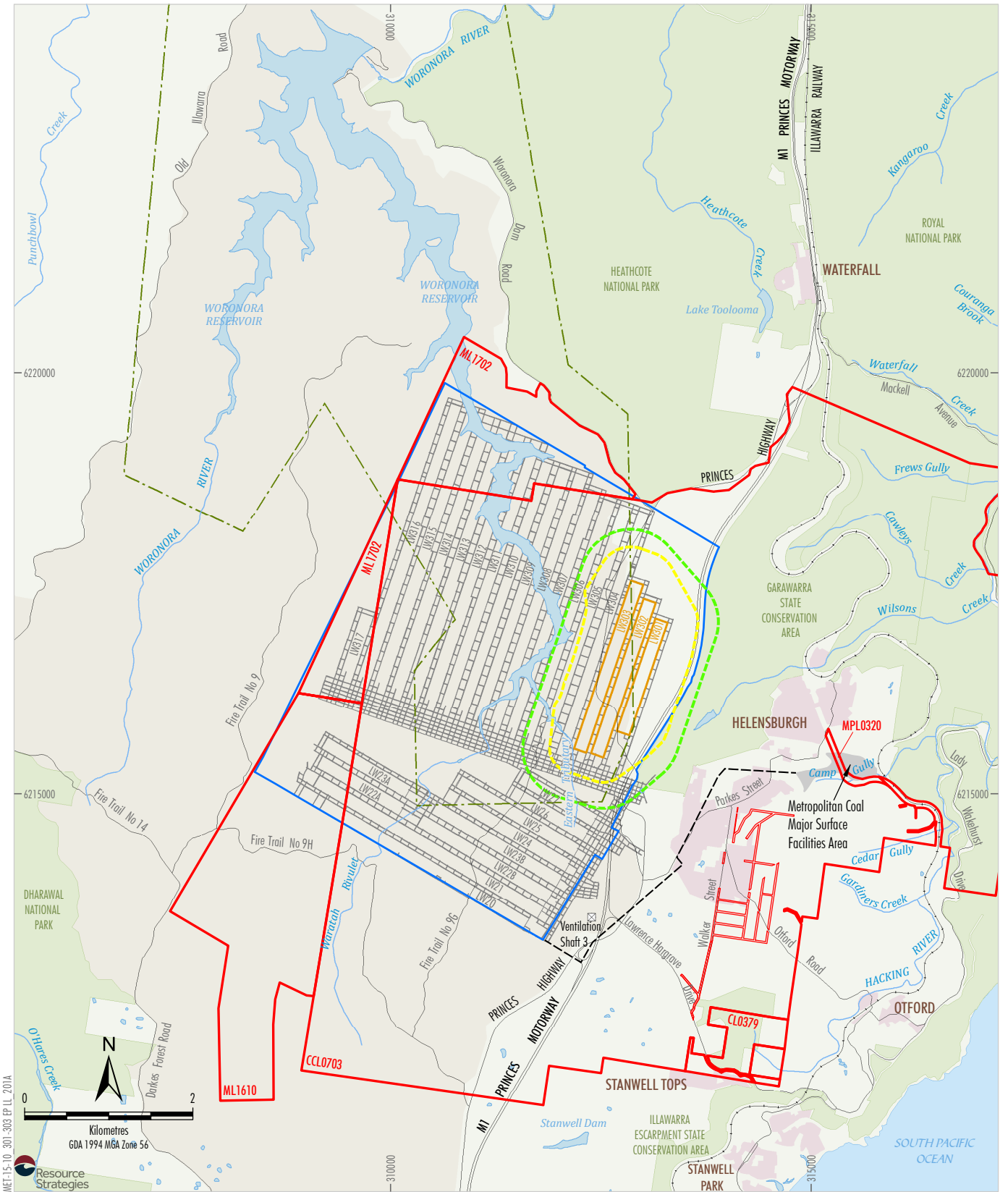
If you would like to know more about the Project or the Longwalls 301-303 Extraction Plan, please do not hesitate to contact the undersigned on (02) 4294 7233.

Metropolitan Coal would also appreciate being advised if there are any landusers associated with this property that you consider may wish to be consulted in regard to the Longwalls 301-303 Extraction Plan.

Yours faithfully,



JON DEGOTARDI
Manager – Technical Services



- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
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 - Project Underground Mining Area
Longwalls 20-27 and 301-317
 - Longwalls 301 - 303 Secondary Extraction
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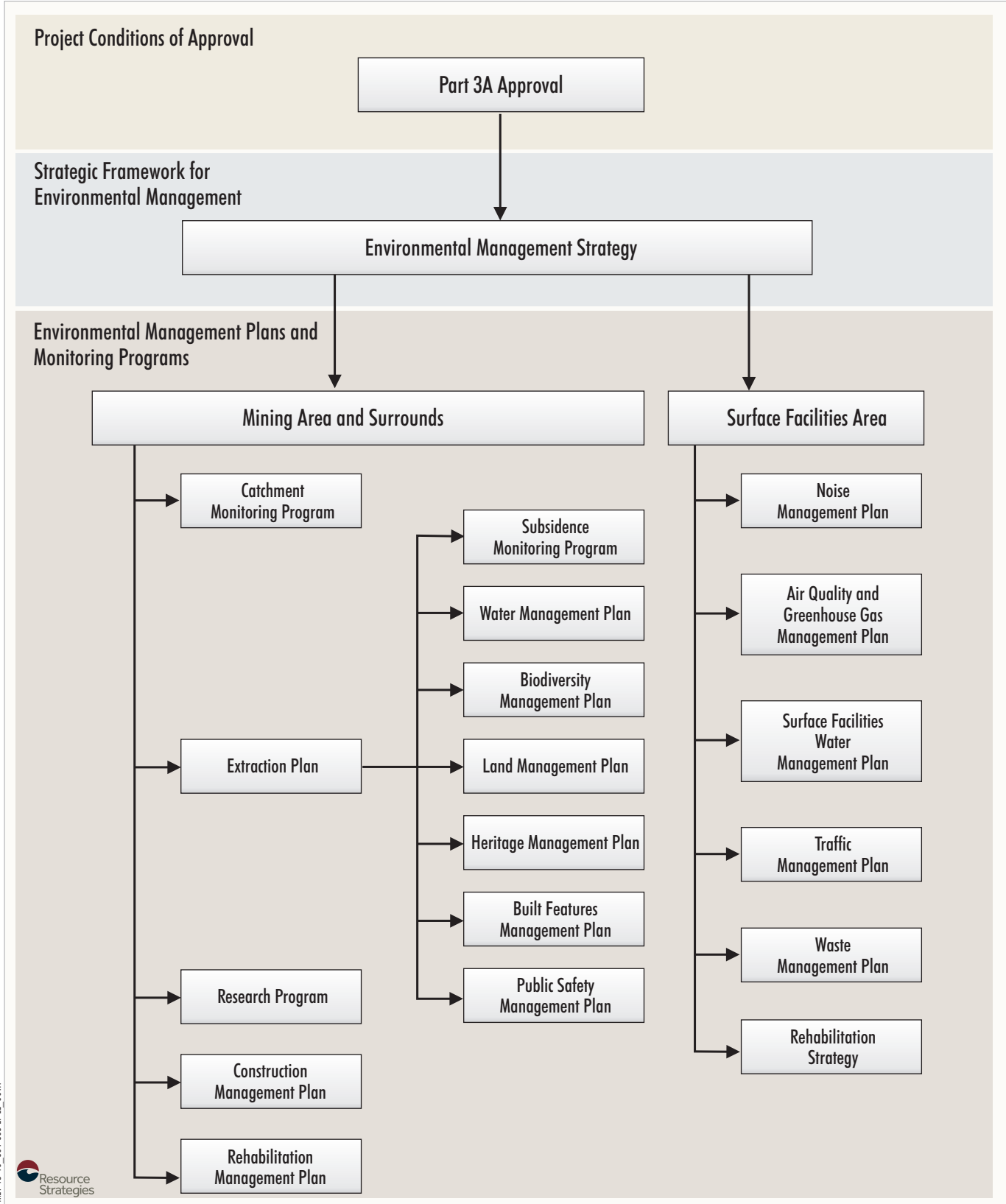
Source: Land and Property Information (2015); Department of Industry (2015);
Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY

METROPOLITAN COAL

Project Longwalls 20 - 27 and
Longwalls 301 - 317 Layout

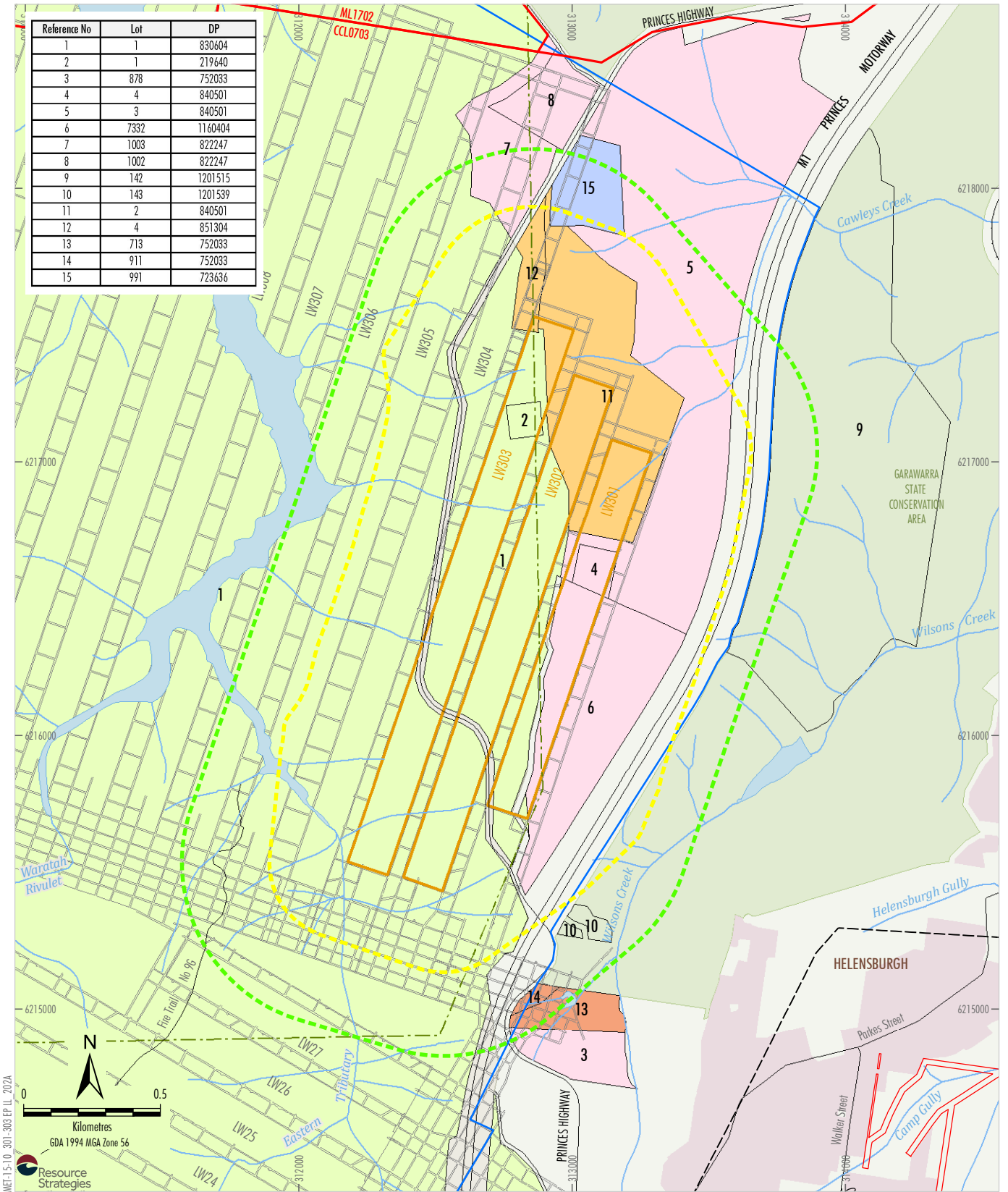
Figure 1



ME1-15-10_301-303 RP_LL_001A



Figure 2



- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
 - Railway
 - Project Underground Mining Area Longwalls 20-27 and 301-317
 - Longwalls 301 - 303 Secondary Extraction
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 - R & C Stewart

Source: Land and Property Information (2015, 2016); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Land Ownership Within
600 m of Longwalls 301-303

Figure 3

17 October 2016

Mr Boris Vrtkovski
Secretary
Macedonian Orthodox Community of The City of Greater Wollongong
8-14 Stewart Street
Wollongong NSW 2500

Also by email: mocwsaintdimitrijasolunski@hotmail.com

Dear Mr Vrtkovski,

RE: METROPOLITAN COAL LONGWALLS 301-303 EXTRACTION PLAN

Further to our correspondence dated 14 July 2016, Metropolitan Coal has recently committed to the further shortening of Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex.

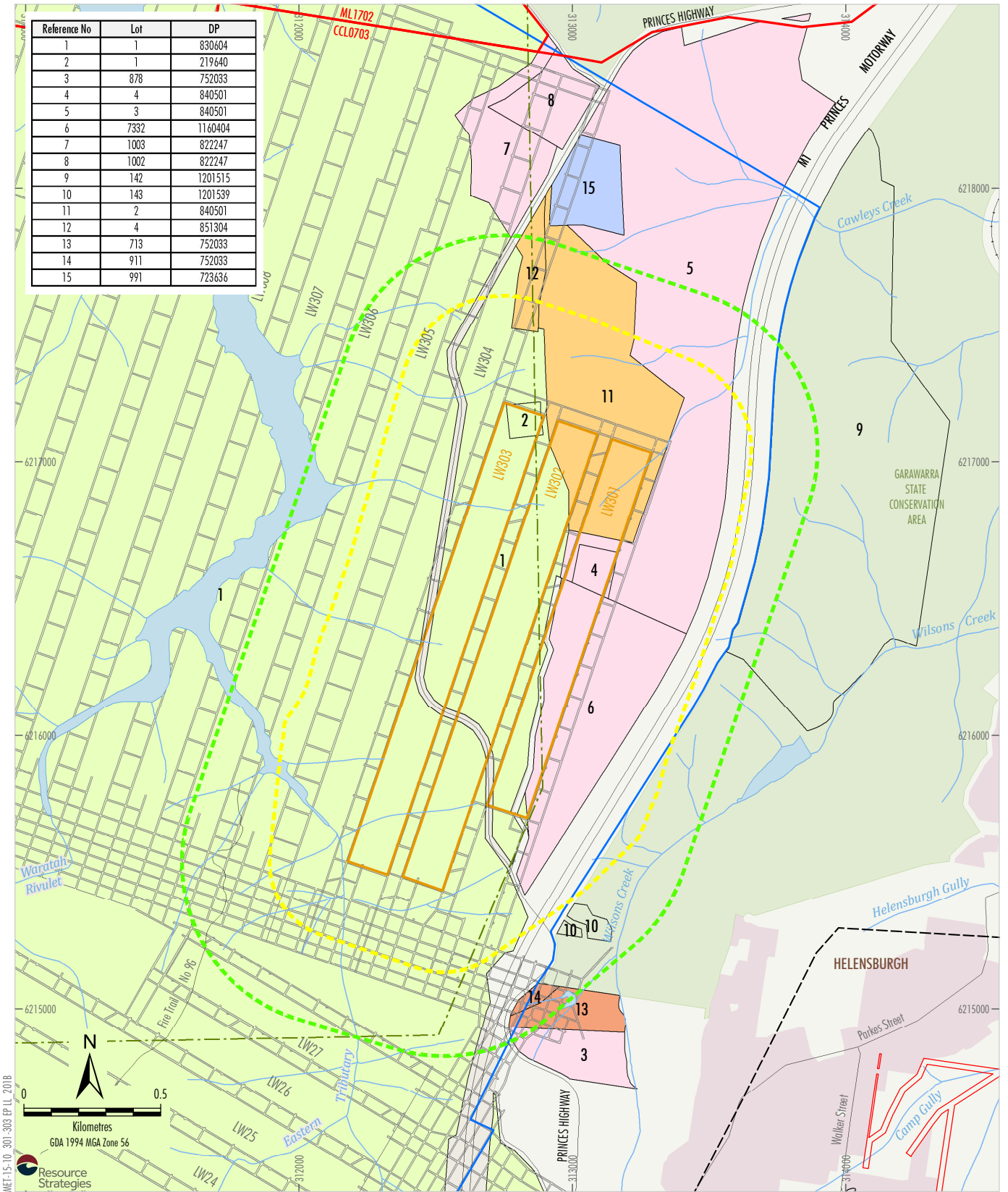
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Please do not hesitate to contact the undersigned if you have any queries.

Yours sincerely,



JON DEGOTARDI
Manager – Technical Services



- LEGEND**
- Mining Lease Boundary
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Source: Land and Property Information (2015, 2016); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Land Ownership Within
600 m of Longwalls 301 - 303

Figure 1

14 July 2016

Robert and Carolyn Stewart
PO Box 71
Helensburgh
NSW 2508**Also by email:** bob@stewartgraphics.com.au

Dear Robert and Carolyn,

RE: METROPOLITAN COAL LONGWALLS 301-303 EXTRACTION PLAN

Metropolitan Coal is wholly owned by Peabody Energy Australia Pty Ltd, and is located adjacent to the township of Helensburgh and approximately 30 kilometres north of Wollongong in New South Wales (NSW) (Figure 1). Metropolitan Coal is one of the earliest established and longest continually running coal mining operations in Australia, with a history dating back to the 1880s.

Metropolitan Coal was granted Project Approval (08_0149) for the Metropolitan Coal Project (the Project) on 22 June 2009 by the NSW Minister for Planning under section 75J of the NSW *Environmental Planning and Assessment Act, 1979*. The Project comprises the continuation, upgrade and extension of underground coal mining operations and surface facilities at Metropolitan Coal. The underground mining longwall layout is shown on Figure 1. The Metropolitan Coal Environmental Management Structure is shown on Figure 2.

In accordance with Condition 6, Schedule 3 of the Project Approval, Metropolitan Coal prepares Extraction Plans for specific mining domains as mining progresses. Metropolitan Coal is currently preparing an Extraction Plan for the next area of longwall mining, namely Longwalls 301-303.

A title search of land within 600 metres (m) of Longwalls 301-303 identified Lot 713, DP 752033 and Lot 911, DP 752033, the owner of which was identified as Robert Charles Stewart and Carolyn Patricia Stewart (as joint tenants). The location of these lots in relation to Longwalls 301-303 is shown on Figure 3. The lots are located approximately 480 m and 515 m from the nearest longwall (Longwall 302) and the nearest building is over 530 m from Longwall 302. We understand that Lot 713, DP 752033 is cleared with no structures present. We also understand that Lot 911, DP 752033 has a number of residential and rural building structures located on the site.

Figure 3 shows the 35 degree angle of draw and predicted 20 millimetre (mm) subsidence contour (the yellow dashed line), which is the surface area that is likely to be affected by the proposed mining of Longwalls 301-303. Predicted subsidence parameters for the lots are negligible and less than the typical limits of survey accuracy of < 20 mm for subsidence and < 0.5 mm per metre for tilt (Mine Subsidence Engineering Consultants, 2016). It should be noted that natural ground surfaces have been observed to fluctuate more than 20 mm in response to ground moisture levels, and these small levels of ground movements are difficult to measure accurately as 20 mm is less than the normal accuracy of common subsidence measurement methods.

The lots could also experience minor far-field horizontal movements due to the extraction of Longwalls 301-303, however, the strains associated with these low level horizontal movements are not expected to be measurable (Mine Subsidence Engineering Consultants, 2016).

Based on the distance from Longwalls 301-303 and the negligible predicted subsidence parameters, impacts to these lots are not anticipated (Mine Subsidence Engineering Consultants, 2016).

Notwithstanding, the Metropolitan Coal Longwalls 301-303 Extraction Plan will outline the proposed management, mitigation, monitoring and reporting of potential subsidence impacts and environmental consequences from the secondary extraction of Longwalls 301-303. The Longwalls 301-303 Extraction Plan will include (but not be limited to) the following management plans and monitoring programs:

- Longwalls 301-303 Water Management Plan.
- Longwalls 301-303 Land Management Plan.
- Longwalls 301-303 Biodiversity Management Plan.
- Longwalls 301-303 Built Features Management Plan.
- Longwalls 301-303 Heritage Management Plan.
- Longwalls 301-303 Public Safety Management Plan.
- Longwalls 301-303 Subsidence Monitoring Program, including a Coal Resource Recovery Plan.

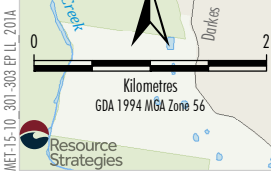
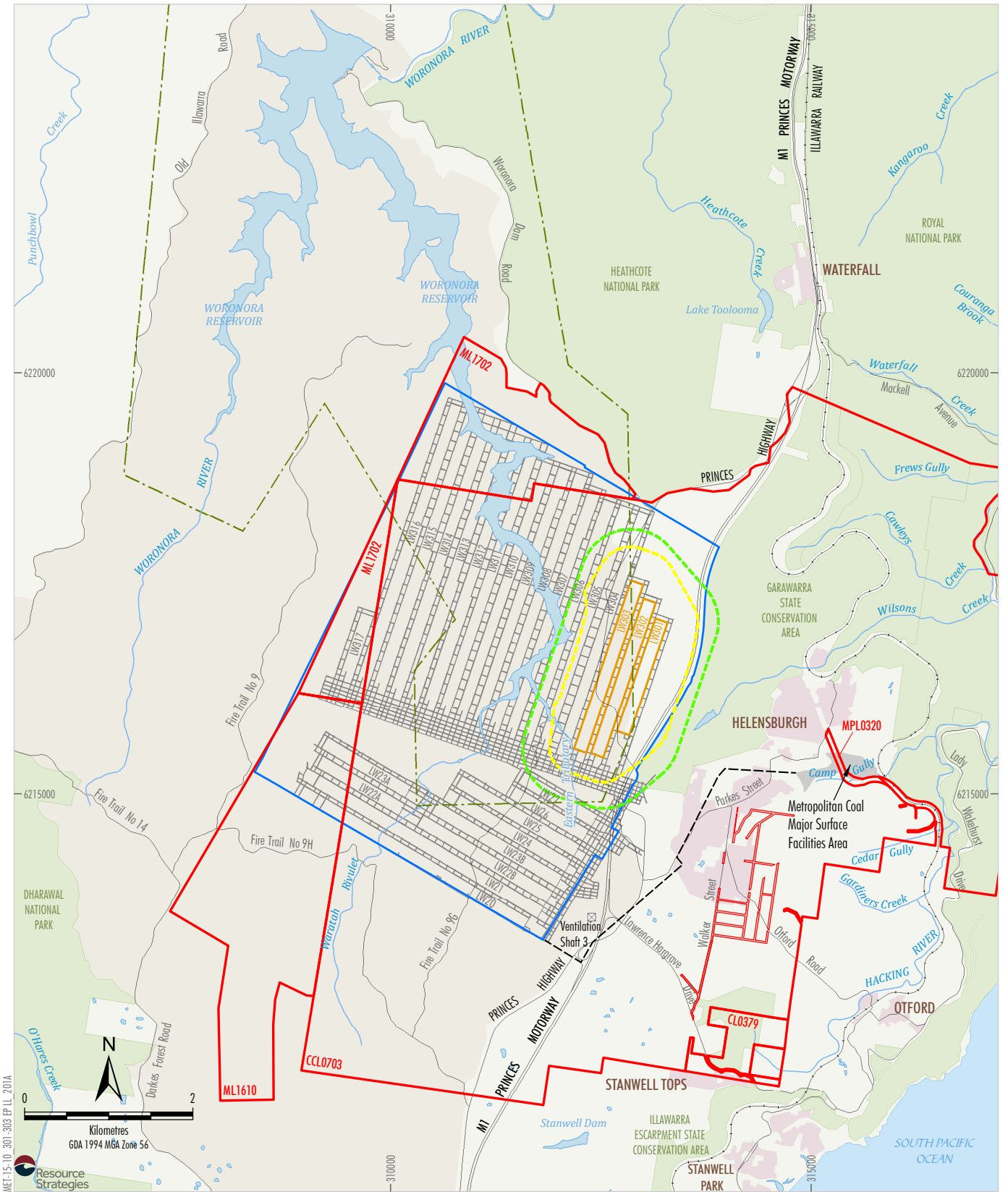
The NSW Mine Subsidence Board operates for the community in coal mining areas of NSW and is responsible for administering the NSW *Mine Subsidence Compensation Act, 1961*. The NSW Mine Subsidence Board provides information, compensation or repair services to owners of improvements damaged by mine subsidence resulting from the extraction of coal. The NSW Mine Subsidence Board's website can be found at <http://www.minesub.nsw.gov.au>.

If you would like to know more about the Project or the Longwalls 301-303 Extraction Plan, please do not hesitate to contact the undersigned on (02) 4294 7233.

Yours faithfully,



JON DEGOTARDI
Manager – Technical Services

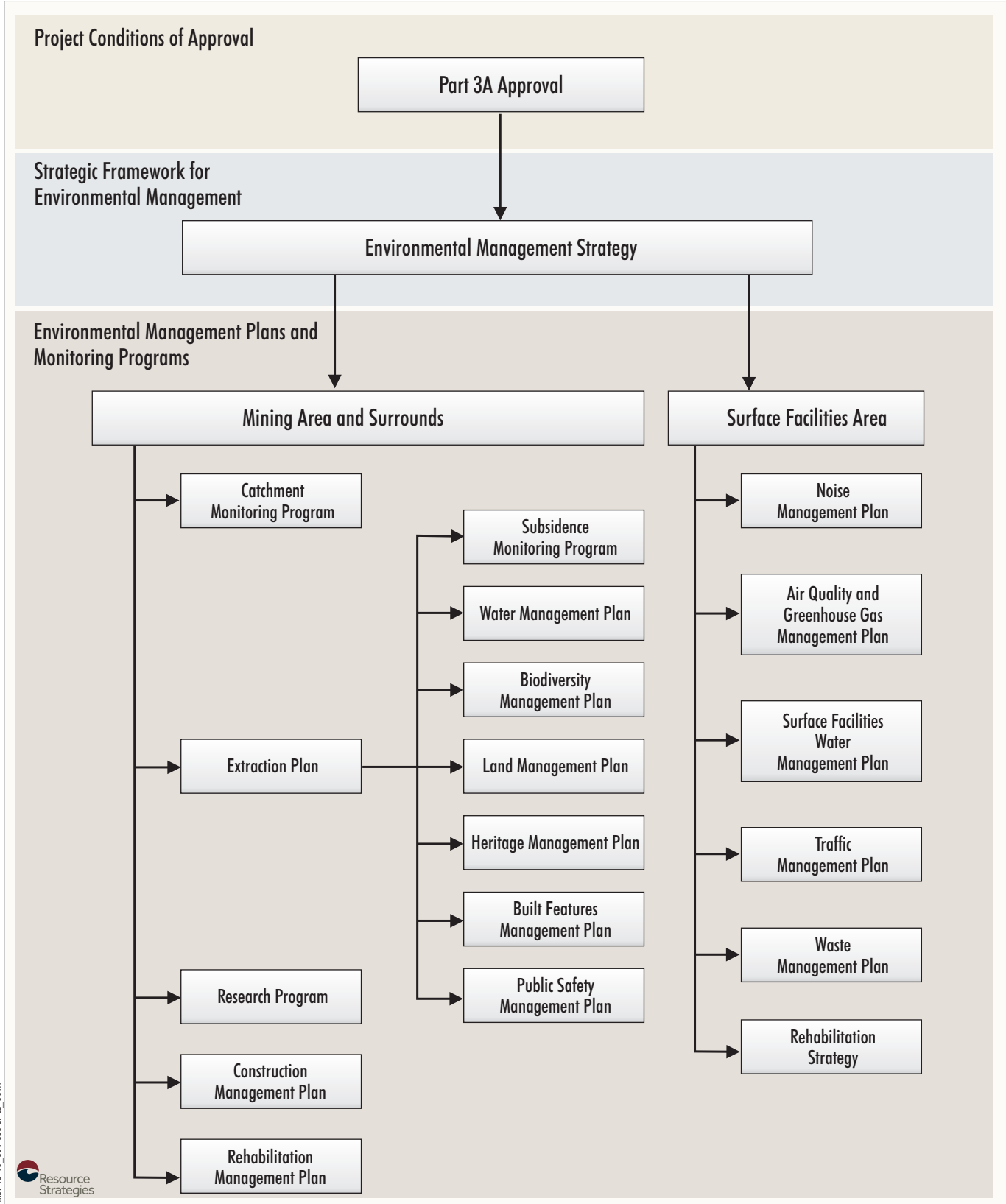


- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
 - Railway
 - Project Underground Mining Area
Longwalls 20-27 and 301-317
 - Longwalls 301 - 303 Secondary Extraction
 - 35° Angle of Draw and Predicted
20 mm Subsidence Contour
 - 600 m from Secondary Extraction of
Longwalls 301-303
 - Woronora Notification Area
 - Existing Underground Access Drive (Main Drift)

Source: Land and Property Information (2015); Department of Industry (2015);
 Metropolitan Coal (2016); MSEC (2016)

Peabody
 ENERGY
METROPOLITAN COAL
 Project Longwalls 20 - 27 and
 Longwalls 301 - 317 Layout

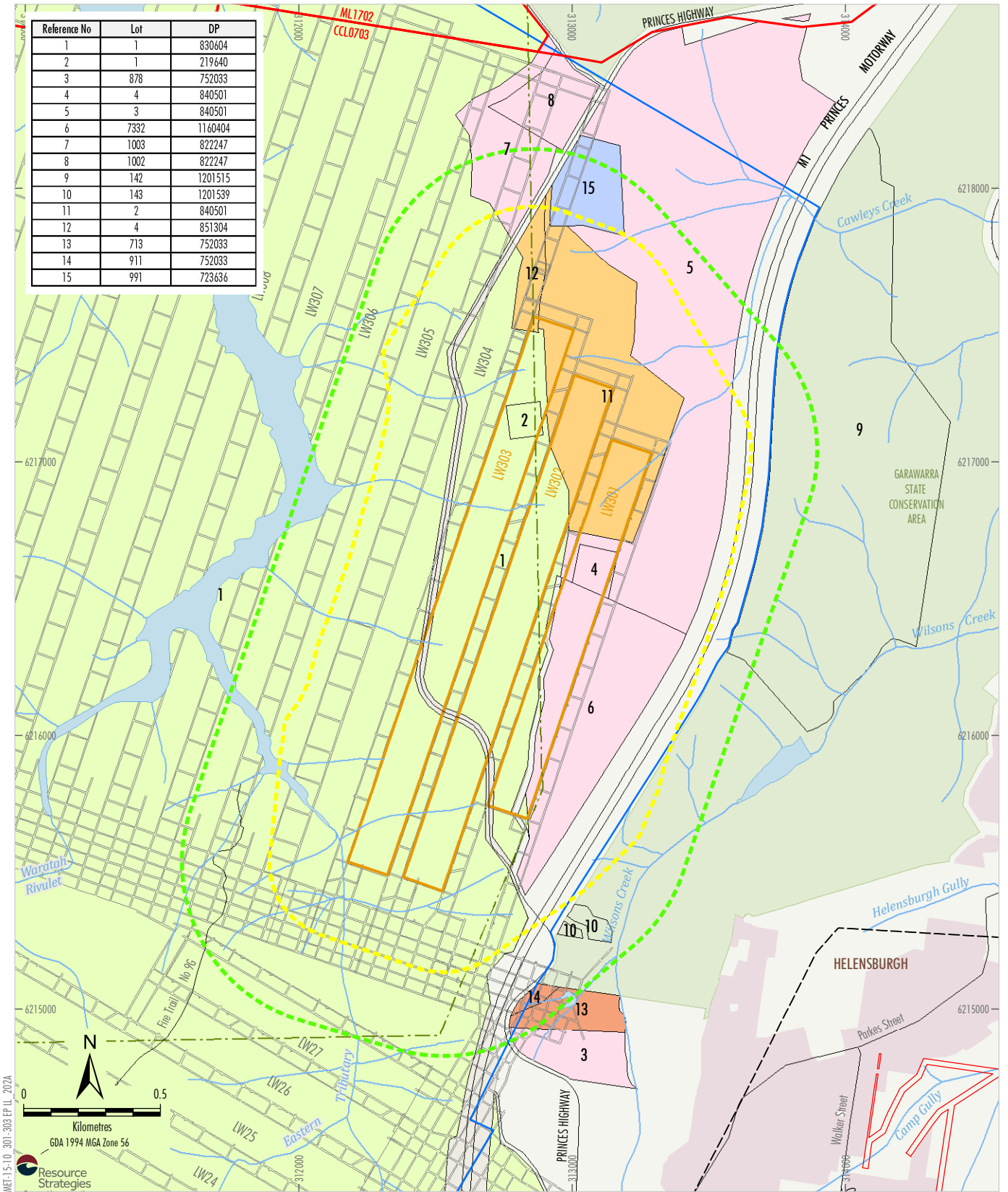
Figure 1



ME1-15-10_301-303 RP_LL_001A



Figure 2



- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
 - Railway
 - Project Underground Mining Area Longwalls 20-27 and 301-317
 - Longwalls 301 - 303 Secondary Extraction
 - 35° Angle of Draw and Predicted 20 mm Subsidence Contour
 - 600 m from Secondary Extraction of Longwalls 301-303
 - Woronora Notification Area
 - Existing Underground Access Drive (Main Drift)

- Landholder**
- WaterNSW
 - The State of New South Wales (Crown Land)
 - The State of New South Wales (Garawarra State Conservation Area)
 - Health Administration Corporation
 - The Trustees of the Macedonian Orthodox Monastery
 - R & C Stewart

Source: Land and Property Information (2015, 2016); Department of Industry (2015); Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Land Ownership Within
600 m of Longwalls 301-303

Figure 3

17 October 2016

Robert and Carolyn Stewart
PO Box 71
Helensburgh
NSW 2508

Also by email: bob@stewartgraphics.com.au

Dear Robert and Carolyn,

RE: METROPOLITAN COAL LONGWALLS 301-303 EXTRACTION PLAN

Further to our correspondence dated 14 July 2016, Metropolitan Coal has recently committed to the further shortening of Longwalls 302 and 303 to reduce impacts to the Garrawarra Centre Complex.

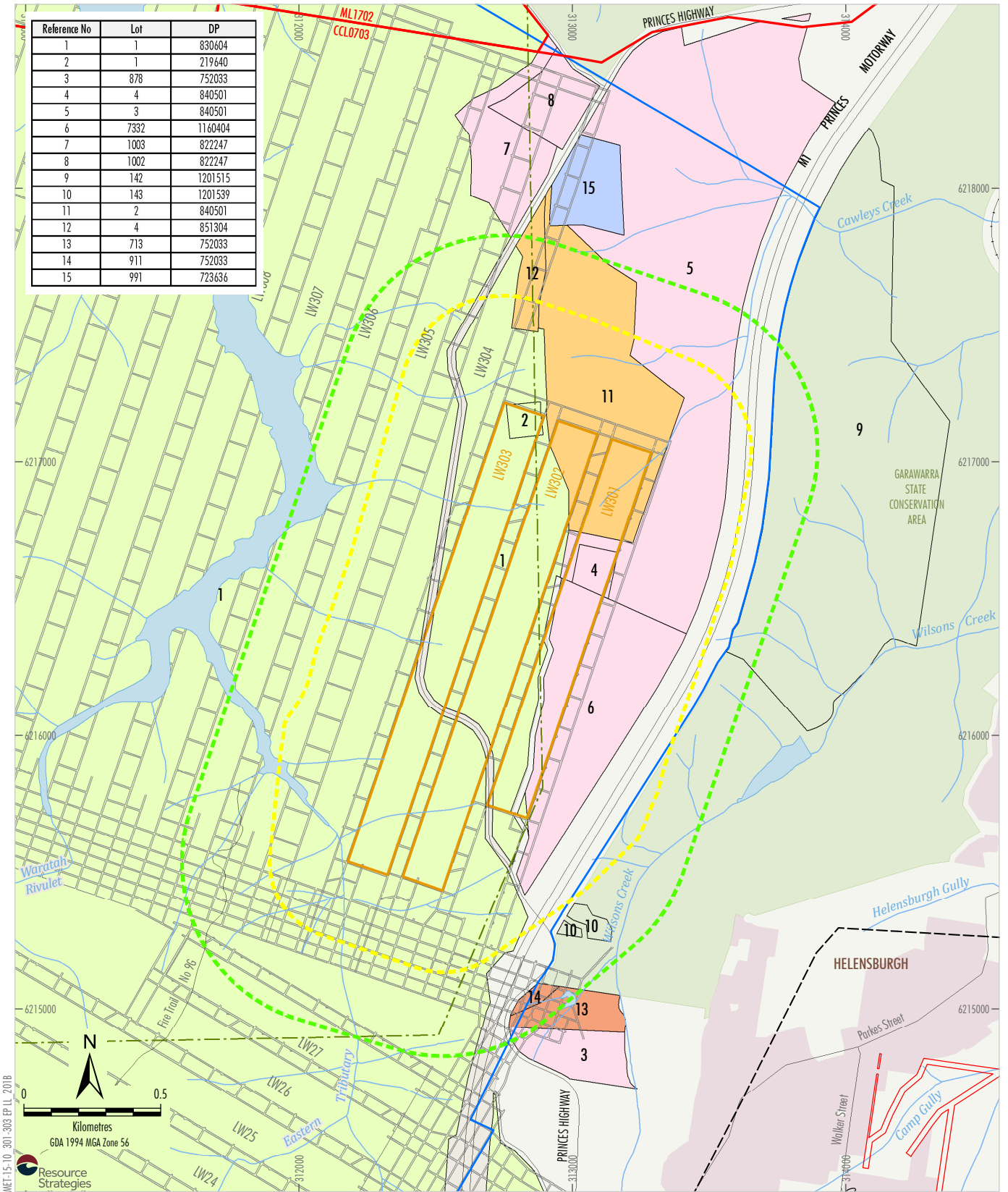
As a result of the revised longwall layout (Figure 1), the predicted subsidence effects generally reduce at the northern end of Longwalls 302 and 303 where the panels have been shortened. In summary, the panel void length of Longwall 302 was reduced from 1,954 m to 1,775 m and the panel void length of Longwall 303 was reduced from 2,122 m to 1,788 m.

Please do not hesitate to contact the undersigned if you have any queries.

Yours sincerely,



JON DEGOTARDI
Manager – Technical Services



- LEGEND**
- Mining Lease Boundary
 - Woronora Special Area
 - Railway
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Source: Land and Property Information (2015, 2016); Department of Industry (2015);
Metropolitan Coal (2016); MSEC (2016)

Peabody
ENERGY
METROPOLITAN COAL
Land Ownership Within
600 m of Longwalls 301 - 303

Figure 1