

Minerals Australia Planning and Technical

Mining Lease 1775 Caval Ridge Mine Application for Additional Surface Area 16

Surface Area Application and Supporting Information

BHP Coal Pty Ltd & Others (CQCA JV)



ML 1775 Caval Ridge Mine – Application for Additional Surface Area 16

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APPLICATION FOR ADDITIONAL SURFACE AREA ON A MINING LEASE – FORMS AND CONSENTS



Application for additional surface area on a mining lease

Mineral Resources Act 1989 (s275)

Form MMOL-27 Version 3

MINES ABN 59 020 847 551

You may make an application for additional surface area electronically using the [MyMinesOnline](#) system. Alternatively you may complete the original of this application and submit the application, any attachments and the prescribed fee at a [Mines lodgement office](#)

Note: A document containing information that is false or misleading may attract a maximum penalty of 200 penalty units.

Please read the relevant **Resource guide** ('the guide') and other relevant guides before completing this application. Please use a pen, and write neatly using **BLOCK LETTERS** Cross where applicable

Question 1 – Permit details

Permit number (eg ML01234):

Current expiry date:

Details of the current holder(s)

	Holder 1	Holder 2	Holder 3
Company Name/surname:			
Given name (if individual):			
ACN/ARBN			
% Holding:			

Question 2 – Details of permit area

2.1 Size of surface area being added :

hectares

2.2 Why is surface area required?

OFFICE USE ONLY	Fees paid:	Payment Method:	Receipt Number: _____
	Received at: _____	Total \$ _____	Receiving officer I confirm that: <ul style="list-style-type: none"> the details on application form have been checked; all attachments have been submitted; correct application fees have been submitted for the relevant application type (i.e. an application in a Restricted Area)
Received by: _____	APPLIC <input type="checkbox"/>	Cash <input type="checkbox"/>	
Date: / /	NT AD <input type="checkbox"/>	Credit Card <input type="checkbox"/>	
Time: AM/PM		EFTPOS <input type="checkbox"/>	Name: _____
Name: _____	Date: / /	Cheque <input type="checkbox"/>	Signed: _____ Date: / /

Adjoining land

4.2 Provide property details for all land parcels adjoining the permit (add a separate page if insufficient space or use Adjoining land information template available on our website and attach to form)

Lot	Plan	Tenure	Land Parcel name	Landowner name	Landowner address
Eg. 1	RP123123	FH	Smith road	J Smith	123 Brisbane Rd, Brisbane

Restricted land

4.3 Are there any permanent buildings/relevant features within the application area or within the prescribed distances laterally of the boundary?

Yes	No
-----	----

4.4 If yes - Describe the permanent building or relevant structures

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4.5 Do you have written consent from the owner of the land with permanent buildings or relevant structures?

Yes	No
-----	----

Attachments required:

If yes to 4.5 - Consent from the owner of land

Reserve land

4.6 Is the application area within the surface of reserve land?

Yes	No
-----	----

4.7 If **yes**- specify the reserve land details:

Reserve number	Reserve name	Trustee name

4.8 Do you have written consent from the owner of the reserve?

Yes	No
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Attachments required:

If yes to 4.8 - Consent from the owner of the reserve

Overlapping permits

4.9 Specify any production or exploration permits overlapping with the application area

Permit type	Permit number	Authorised holder	Expiry date

**This applies to: exploration permit, mineral development licence, mining claim, mining lease, authority to prospect, petroleum lease, geothermal exploration permit, geothermal lease.*

Note: Chapter 4 of the Mineral and Energy Resources (Common Provisions) Act 2014 outlines the overlapping requirements that may apply to your application if it is overlapping with another authority

Attachments required for coal mining lease in the area of an authority that is administered under Chapter 8 of the *Mineral Resources Act 1989*:

Authority to prospect - Provide a CSG statement and any other information that addresses the CSG assessment criteria

Authority to prospect and a petroleum lease - Provide a CSG statement and any other information that addresses the CSG assessment criteria

Petroleum lease - Provide a CSG statement

Greenhouse Gas tenure overlap

4.10 Is the application area situated within an area of a greenhouse gas (GHG) tenure?

Yes	No
-----	----

4.11 If **yes** - Specify the GHG tenure details:

Permit type	Permit number	Authorised holder	Expiry date

Attachments required:

Provide a GHG statement and any other information that addresses the GHG assessment criteria

Question 5 – Environmental authority

Please submit the relevant Environmental Authority (EA) application with the Department of Environment and Science (DES) via the [Connect System](#). For more information on the DES Connect System or if you have not registered for Connect please visit the DES [website](http://www.environment.des.qld.gov.au/connect/) (www.environment.des.qld.gov.au/connect/). Alternatively you can access environmental forms online from <https://www.business.qld.gov.au/running-business/environment/licences-permits/forms-fees> and lodge at a DES office.

The application may not be decided until the EA has been issued.

Question 6 – Native title

Please ensure that you have you read and understood the **Guide to the native title process** and supporting policies

6.1 Please elect which native title process you wish to undertake.

Option 1	Excluded	No native title process is required as I have determined that 100% of the permits area is exclusive of native title.	<input type="checkbox"/>
			(Go to Q7)
Option 2	Right to negotiate	Advertising cost required and Right to negotiate submission	<input type="checkbox"/>
		Wholly within a determined native title claim – No advertising cost required	<input type="checkbox"/>
Option 3	Right to negotiate and ILUA (existing, private or state ILUA)	Advertising cost required Requires monthly updates be submitted to the department (for new private ILUA) and Right to negotiate submission	<input type="checkbox"/>
		Wholly within a determined native title claim – No advertising cost required	<input type="checkbox"/>
Option 4	New Private ILUA	Requires monthly updates be submitted to the department	<input type="checkbox"/>
			(Go to Q7)
Option 5	Opt into existing private ILUA	Name: _____ or _____ Number: _____	<input type="checkbox"/>
			(Go to Q7)
Option 6	State ILUA	Name: _____	<input type="checkbox"/>
			(Go to Q7)

Attachments required:

Private ILUA or extract of private ILUA (Option 3,5)

Opt in deed for ILUA (Option 3,5,6)

Right to negotiate submission (template available on Departments website)

If you have elected to undertake a native title option that requires advertising, please select which advertising method you wish to undertake from one of the options below:

Multiple advertisement (batched advertising) \$1000.00	<input type="checkbox"/>
Single advertisement \$3000.00	<input type="checkbox"/>
I agree to my application being advertised with the right to negotiate native title process *	<input type="checkbox"/>

* *The advertising fee should be attached to this application. The department will provide you a copy of the advertisement prior to publication. Any overpayment will be refunded by the Department.*

Question 7 – Mining program/Initial development plan

For coal mining lease – provide an initial development plan that complies with the legislation. Refer to development plan guide for more information.

For mineral mining lease - complete the **work program template** with details of activities to be undertaken. A template is available online which you can complete and attach to this application, or complete all sections below.

7.1 When are operations expected to commence on this mining lease?

7.2 Is this mining lease being or to be operated in conjunction with other mining permits as part of a project?

Yes	No
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If yes, provide details of the project including a description of the relationship of this lease to the project and why this lease is required for the project or operation of other permits.

7.3 Describe the method of operations to be undertaken?

This statement must:

- Cover every mineral that the lease holder or applicant has (or will have) the right to mine.
- If the lease was granted for a purpose other than mining, cover the use of the mining lease for the purpose it was granted for.
- Describe the method in enough detail to support the size, shape e.g. overburden dumps, pits, stockpiles, processing etc.
- Provide adequate graphic representations (i.e. maps, photos, diagrams) of the resource and mining Information to support the proposed use.
- Include a description of infrastructure to be constructed /maintained on the lease or necessary to enable the mining program to proceed, or additional activities to be carried out to work out the infrastructure requirements.
- Describe the methods proposed for rehabilitation works.
- Include a description of the workforce to establish/maintain this operation.

*If insufficient space, please use the mining program template available on the Departments website.

Attachments required:	
Completed mining program template (if section above is not completed)	<input type="checkbox"/>
Map of permits within project	
Coal mining lease - Initial development plan	<input type="checkbox"/>

Question 8 – Financial and technical capability

Please tick one of the below statements and attach the required financial and technical documents and statements according to your exploration and mining history.

<p>I/we have more than five (5) years history in Queensland with a good compliance record.</p> <p>Financial information: Financial capability statement</p> <p>Details of other financial commitments in relation to activity in Queensland</p> <p>Technical information: Technical capability statement</p> <p>Details of other human / technical resource commitments in relation to activity in Queensland</p> <p>Third party declaration (if a third party is providing resources for your program)</p>	<p>I/we have less than five (5) years compliance and history in Queensland or do not wish to rely on my/our history.</p> <p>Financial information: Financial capability statement</p> <p>Supporting evidence</p> <p>Details of other financial commitments in relation to activity in Queensland</p> <p>Technical information: Technical capability statement</p> <p>Details of other human / technical resource commitments in relation to activity in Queensland</p> <p>Third party declaration (if a third party is providing resources for your program)</p> <p>Supporting evidence</p>
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Question 9 –Obligations and declaration

WARNING: Giving false or misleading information is a serious offence.

- I have read and understood the ***Mining lease and other relevant guides***.
- I understand my obligations as an applicant/holder for a mining lease.
- I have truthfully declared all relevant details requested of me in this application.
- If any part of this form has been completed with the assistance of another person, I declare that the information as set down is true and correct and has been included with my full knowledge, consent and understanding.

Print name:	<input type="text"/>	Signature:	<input type="text"/>
Position:	<input type="text"/>	Date:	<input type="text"/>
Company:	<input type="text"/>		

Print name:	<input type="text"/>	Signature:	<input type="text"/>
Position:	<input type="text"/>	Date:	<input type="text"/>
Company:	<input type="text"/>		

Print name:	<input type="text"/>	Signature:	<input type="text"/>
Position:	<input type="text"/>	Date:	<input type="text"/>
Company:	<input type="text"/>		

Print name:	<input type="text"/>	Signature:	<input type="text"/>
Position:	<input type="text"/>	Date:	<input type="text"/>
Company:	<input type="text"/>		

Question 10 – Payment

Permit application	Application fee	Mineral	<input type="checkbox"/>	Coal	<input type="checkbox"/>
Native title	Multiple advertisement (batched advertising)		<input type="checkbox"/>	Single advertisement	<input type="checkbox"/>

Disclaimer

The Queensland Government is collecting information provided on and with this form to assess the suitability of the application for additional surface area under the *Mineral Resources Act 1989* (the MRA). This information is authorised by sections 275, MRA and section 197 of the *Mineral and Energy Resources (Common Provisions) Act 2014* (MERCP). Some or all of this information may be provided to other agencies of the Queensland Government for issuing an environmental authority, to make register searches, extracts or copies or to make other approvals as required under the relevant Act. Some of this information may be provided to Queensland Treasury, the Scheme Manager under the *Mineral and Energy Resources (Financial Provisioning) Act 2018 (MERFP Act)*, or any advisors to the Scheme Manager to enable the Scheme Manager to carry out the Scheme Manager’s functions under the MERFP Act. Your personal information will not otherwise be disclosed to any other third party without your consent, unless authorised or required by law.

ATTACHMENT 1

CENTRAL QUEENSLAND COAL ASSOCIATES JOINT VENTURE

COMPANY	ABN	% INTEREST
BHP Group of Companies:		
BHP Coal Pty Ltd (principal applicant)	83 010 595 721	40.75
Umal Consolidated Pty Ltd	29 000 767 386	0.75
BHP Queensland Coal Investments Pty Ltd	56 098 876 825	8.50
sub total		50.00
Mitsubishi Corp Group of Companies:		
Mitsubishi Development Pty Ltd	17 009 779 873	15.53
QCT Investment Pty Ltd	45 010 487 831	12.00
QCT Mining Pty Ltd	47 010 487 840	15.78
QCT Resources Pty Limited	74 010 808 705	6.69
sub total		50.00
TOTAL		100.00

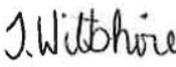
BM ALLIANCE COAL OPERATIONS PTY LTD as manager and agent on behalf of the Central Queensland Coal Associates Joint Venture participants, with authority to bind each of the participants in proportion to their respective participating interest in the Joint Venture.

SIGNED by BM ALLIANCE COAL OPERATIONS PTY LTD (ABN 67 096 412 752) as the duly constituted attorney of BHP Coal Pty Ltd (ABN 83 010 595 721), Umal Consolidated Pty Ltd (ABN 29 000 767 386), BHP Queensland Coal Investments Pty Ltd (ABN 56 098 876 825), Mitsubishi Development Pty Ltd (ABN 17 009 779 873), QCT Investment Pty Ltd (ABN 45 010 487 831), QCT Mining Pty Ltd (ABN 47 010 487 840) and QCT Resources Pty Limited (ABN 74 010 808 705) under registered power of attorney no. 707957220. BM Alliance Coal Operations Pty Ltd declares that it has not received any notice of revocation of its power of attorney.

SIGNED by BM ALLIANCE COAL OPERATIONS PTY LTD in accordance with section 127(1) of the Corporations Act 2001 (Cwth) by authority of its directors:



 Director
 Name:



 Wiltshire, Toni TA
 Company Secretary
 Brisbane
 2022.01.17 16:15:43 +10'00'

 Director / Secretary
 Name:

Dated at **BRISBANE** this 17th , day of January 2022

Mineral Resources Act 1989, Petroleum and Gas (Production and Safety) Act 2004, Petroleum Act 1923, Geothermal Energy Act 2010, Greenhouse Gas Storage Act 2009 and Mineral and Energy Resources (Common Provisions) Act 2014
Version 2

This is a template form and is not an approved form. You may complete the original of this form and submit with another approved form using **MyMinesOnline**.

Refer to the **Permit application**, **Permit administration guide**, **Permit renewal guide** or any other Department guide for assistance. Please use a pen, and write neatly using **BLOCK LETTERS**. If insufficient space anywhere on this form, please attach a separate document.

This form is to provide written consent of all holders to an activity or transaction relating to the permit.

1. Name of holder(s)

Company name / surname:			
Given names (if individual):		ACN/ARBN:	
Company name / surname:			
Given names (if individual):		ACN/ARBN:	
Company name / surname:			
Given names (if individual):		ACN/ARBN:	
Company name / surname:			
Given names (if individual):		ACN/ARBN:	

2. Permit details

Permit type	Number(s)	Permit type	Number(s)

3. Consent particulars

- I/we give our consent to the lodgement/submission of an application or activity on the above listed permits held by me/us.

Permit application	<input type="checkbox"/>	Later work program	<input type="checkbox"/>
Permit renewal	<input type="checkbox"/>	Later development plan	<input type="checkbox"/>
*Transfer	<input type="checkbox"/>	Other (specify) _____	<input type="checkbox"/>

*Mining claim Only By ticking this box -

I/we confirm the sale price for transfer includes the amount of financial assurance/provision paid for rehabilitation purposes held in respect of the environmental authority or small scale permit

4. Declaration of holder/s

- I/we hereby consent to the lodgement /submission of an application or activity for the above mentioned resource permit

Print name:	<input type="text"/>	Signature:	<input type="text"/>
Position:	<input type="text"/>	Date:	<input type="text"/>
Print name:	<input type="text"/>	Signature:	<input type="text"/>
Position:	<input type="text"/>	Date:	<input type="text"/>
Print name:	<input type="text"/>	Signature:	<input type="text"/>
Position:	<input type="text"/>	Date:	<input type="text"/>
Print name:	<input type="text"/>	Signature:	<input type="text"/>
Position:	<input type="text"/>	Date:	<input type="text"/>

Disclaimer

The Queensland Government is collecting information provided on this form under the *Mineral Resources Act 1989 (MRA)*, *Petroleum and Gas (Production and Safety) Act 2004 (P&G)*, *Petroleum Act 1923 (PET)*, *Geothermal Energy Act 2010 (GEA)*, *Greenhouse Gas Storage Act 2009 (GHG)* and *Mineral and Energy Resources (Common Provisions) Act 2014 (MERCPC)*. This information is authorised by the provisions under this legislation. Some or all of this information may be provided to other agencies of the Queensland Government to make register searches, extracts or copies under section 199 of the MERCPC, or to make other approvals as required under the Act. Your personal information will not otherwise be disclosed to any other third party without your consent, unless authorised or required by law.

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COMPANY	ABN	% INTEREST
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sub total		50.00
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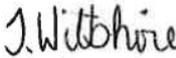
BM ALLIANCE COAL OPERATIONS PTY LTD as manager and agent on behalf of the Central Queensland Coal Associates Joint Venture participants, with authority to bind each of the participants in proportion to their respective participating interest in the Joint Venture.

SIGNED by BM ALLIANCE COAL OPERATIONS PTY LTD (ABN 67 096 412 752) as the duly constituted attorney of BHP Coal Pty Ltd (ABN 83 010 595 721), Umal Consolidated Pty Ltd (ABN 29 000 767 386), BHP Queensland Coal Investments Pty Ltd (ABN 56 098 876 825), Mitsubishi Development Pty Ltd (ABN 17 009 779 873), QCT Investment Pty Ltd (ABN 45 010 487 831), QCT Mining Pty Ltd (ABN 47 010 487 840) and QCT Resources Pty Limited (ABN 74 010 808 705) under registered power of attorney no. 707957220. BM Alliance Coal Operations Pty Ltd declares that it has not received any notice of revocation of its power of attorney.

SIGNED by BM ALLIANCE COAL OPERATIONS PTY LTD in accordance with section 127(1) of the Corporations Act 2001 (Cwth) by authority of its directors:



 Director
 Name:



 Director / Secretary
 Name:

Dominic Townsend
 Brisbane
 2022.01.17 15:52:40
 +10'00'

Wiltshire, Toni TA
 Company Secretary
 Brisbane
 2022.01.17 16:15:43 +10'00'

Dated at **BRISBANE** this 17th , day of January 2022

**AUTHORISED HOLDER
REPRESENTATIVE**



480 Queen Street
Brisbane
Queensland 4001
T +61 7 3329 2600
bhpbilliton.com

10 March 2021

Queensland Government
C/- Executive Director, Mining and Petroleum Operations
Department of Resources
Po Box 15216
City East Qld 4002

I, the undersigned, being the applicants/holders of the relevant resource authorities listed below, nominate the following Authorised Holder Representatives (refer Attachment A) to complete application and transactions and request and receive information and statutory documents on my behalf.

Details of authorised holder representatives

Name - individual or chief executive officer if applicant is an organisation Helen Crowther	Date of birth if an individual 20 April 1974
Position Lead Tenements	
Organisation name BHP Coal Pty Ltd	Organisation number (e.g. ACN/ARBN etc.) 83 010 595 721
Residential or registered business address (not a post office box) 480 Queen Street, Brisbane QLD 4001	Phone 0408 270 143
Postal address (if different from above)	
Email Helen.crowther@bhp.com	

Name - individual or chief executive officer if applicant is an organisation Katey Pearce	Date of birth if an individual 1 September 1983
Position Lead Tenure and Approvals (QLD)	
Organisation name BHP Coal Pty Ltd	Organisation number (e.g. ACN/ARBN etc.) 83 010 595 721
Residential or registered business address (not a post office box) 480 Queen Street, Brisbane QLD 4001	Phone 0407 654 265
Postal address (if different from above)	
Email Katey.pearce@bhp.com	

Name - individual or chief executive officer if applicant is an organisation Melissa Millward	Date of birth if an individual 18 April 1971
Position Specialist Tenure and Approvals	
Organisation name BHP Coal Pty Ltd	Organisation number (e.g. ACN/ARBN etc.) 83 010 595 721
Residential or registered business address (not a post office box) 480 Queen Street, Brisbane QLD 4001	Phone 0437 028 164
Postal address (if different from above)	
Email Melissa.millward@bhp.com	

Name - individual or chief executive officer if applicant is an organisation Sophie Parkyn	Date of birth if an individual 18 February 1985
Position Specialist Tenure and Approvals	
Organisation name BHP Coal Pty Ltd	Organisation number (e.g. ACN/ARBN etc.) 83 010 595 721
Residential or registered business address (not a post office box) 480 Queen Street, Brisbane QLD 4001	Phone 0403 388 888
Postal address (if different from above)	
Email sophie.parkyn@bhp.com	

This authorisation is in relation to the following resource authorities or application/s, and future submissions of applications. If an application listed below is granted the authorisation extends to the resulting resource authority while the resource authority remains current.

Resource authority and or application numbers	Type
See Annexure B – Tenement Listing	Application/Resource authority

I agree if there are changes to this authority, or there are changes in the ownership of the application/s, or resulting resource authorities, I will complete a new letter of authority and submit it to the Queensland Government, C/- Executive Director, Mining and Petroleum Operations. Unless and until such notification is received, the Queensland Government will be entitled to continue to rely on this authority.

The Authorised Holder Representative nominated above has my explicit authority to undertake all activities and transactions under the Mineral Resources Act, Petroleum and Gas (Production and Safety) Act, Petroleum Act, Geothermal Energy Act, Greenhouse Gas Storage Act, Mineral and Energy Resources (Common Provisions) Act or any other mining associated legislation or the Environmental Protection Act or any corresponding Regulations with the Queensland Government in relation to the application/s or resource authorities listed

above. Examples of these activities and transactions are:

1. Completing and lodging the resource authority related applications.
2. Responding to requests for information from any Queensland Government department relating to the resource authority application, or if granted, the resource authority.
3. Being the point of contact for application and resource authority notices, letters or other interactions and transactions.
4. Completion and submission of notices, reports, returns, letters and other information or communication required to be completed by any Queensland Government department
5. Completion and submission of transactions throughout the active life of the resource authority (if granted), including the payment of annual fees and completion of annual returns for environmental authorities.
6. Granting access to the MyMinesOnline computer system to other people to have the ability to perform authorised holder representative responsibilities, but not the ability to grant additional access.
7. Requesting and obtaining access to confidential information (as defined in the Mineral Resources Act or the Petroleum and Gas (Production and Safety) Act) concerning royalty obligations in relation to the resource authorities or application/s listed above.

I acknowledge that it is our responsibility to be informed of any actions undertaken by the Authorised Holder Representative and to inform the Authorised Holder Representative of any actions undertaken by me. I also acknowledge that in regard to the above activities and transactions, any legislative notification provision that refers to notifying either the applicant or the holder of a resource authority or authorisation may be met by notifying the Authorised Holder Representative, except where legislatively provided to the contrary, whether expressly or impliedly.

I acknowledge that the Authorised Holder Representative and I am jointly and severally liable for knowingly or having reasonably ought to have known and/or intentionally giving the administering authority under the Environmental Protection Act false, misleading or incomplete statements or documents in relation to the above resource authorities/applications.

Details of all applicants/resource authority holders making this authorisation

Name - individual or director / company secretary if the applicant is an organisation Anthony Russo	Date of birth if an individual
Position Manager Land Access & Approvals	
Organisation name BHP Coal Pty Ltd	Organisation number (e.g. ACN/ARBN etc.) 83 010 595 721
Residential or registered business address (not a post office box) 480 Queen Street, Brisbane QLD 4001	Phone 07 3622 4641
Postal address (if different from above)	
Email anthony.russo@bhp.com	
Signature 	Date 10 March 2021

Name - individual or director / company secretary if the applicant is an organisation Anthony Russo	Date of birth if an individual
Position Manager Land Access & Approvals	
Organisation name BHP Mitsui Coal Pty Ltd	Organisation number (e.g. ACN/ARBN etc.) 34 009 713 875
Residential or registered business address (not a post office box) 480 Queen Street, Brisbane QLD 4001	Phone 07 3622 4641
Postal address (if different from above)	
Email anthony.russo@bhp.com	
Signature 	Date 10 March 2021

Name - individual or director / company secretary if the applicant is an organisation Anthony Russo	Date of birth if an individual
Position Manager Land Access & Approvals	
Organisation name South Blackwater Coal Pty Ltd	Organisation number (e.g. ACN/ARBN etc.) 78 011 026 154
Residential or registered business address (not a post office box) 480 Queen Street, Brisbane QLD 4001	Phone 07 3622 4641
Postal address (if different from above)	
Email anthony.russo@bhp.com	
Signature 	Date 10 March 2021

Name - individual or director / company secretary if the applicant is an organisation Anthony Russo	Date of birth if an individual
Position Manager Land Access & Approvals	
Organisation name Coal Mines Australia Pty Ltd	Organisation number (e.g. ACN/ARBN etc.) 70 062 855 270
Residential or registered business address (not a post office box) 480 Queen Street, Brisbane QLD 4001	Phone 07 3622 4641
Postal address (if different from above)	

Email anthony.russo@bhp.com	
Signature 	Date 10 March 2021

Authorised Holder Representative

I understand and accept the responsibilities of the authorised holder representative as defined in this letter.

Signature of Authorised Holder Representatives named above:

Name - individual or chief executive officer if applicant is an organisation Helen Crowther	Date of birth if an individual 20 April 1974
Position Lead Tenements	
Organisation name BHP Coal Pty Ltd	Organisation number (e.g. ACN/ARBN etc.) 83 010 595 721
Signature 	Date 10 March 2021

Name - individual or chief executive officer if applicant is an organisation Katey Pearce	Date of birth if an individual 1 September 1983
Position Lead Tenure and Approvals (QLD)	
Organisation name BHP Coal Pty Ltd	Organisation number (e.g. ACN/ARBN etc.) 83 010 595 721
Signature 	Date 10 March 2021

Name - individual or chief executive officer if applicant is an organisation Melissa Millward	Date of birth if an individual 18 April 1971
Position Specialist Tenure and Approvals	
Organisation name BHP Coal Pty Ltd	Organisation number (e.g. ACN/ARBN etc.) 83 010 595 721
Signature 	Date 10 March 2021

Name - individual or chief executive officer if applicant is an Organisation Sophie Parkyn	Date of birth if an individual 18 February 1985
Position Specialist Tenure and Approvals	
Organisation name BHP Coal Pty Ltd	Organisation number (e.g. ACN/ARBN etc.) 83 010 595 721
Signature 	Date 10 March 2021

Attachment B – Tenement Listing

Tenure	Party
EPC1016	BHP MITSUI COAL PTY LTD/ GRANTOR/ 100%
EPC1277	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
EPC1444	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
EPC1646	BHP MITSUI COAL PTY LTD/ GRANTOR/ 100%
EPC1647	BHP MITSUI COAL PTY LTD/ GRANTOR/ 100%
EPC1951	BHP COAL PTY LTD/ JV 'ER/ 20%, BHP BILLITON MITSUI COAL PTY LTD/ HOLDER/ 50%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 4%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 8%, QCT INVESTMENT PTY LTD/ JV 'ER/ 6%, QCT MINING PTY LTD/ JV 'ER/ 8%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 3%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 0%
EPC2071	BHP MITSUI COAL PTY LTD/ GRANTOR/ 100%
EPC2103	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
EPC2109	BHP MITSUI COAL PTY LTD/ GRANTOR/ 100%
EPC27334	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
EPC2777	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
EPC837	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
EPC851	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
EPC889	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
EPC928	BHP MITSUI COAL PTY LTD/ GRANTOR/ 100%
MDL155	SOUTH BLACKWATER COAL PTY LIMITED/ HOLDER/ 100%
MDL189	SOUTH BLACKWATER COAL PTY LIMITED/ / 100%
MDL235	BHP MITSUI COAL PTY LTD/ GRANTEE/ 100%

ML1790	BHP MITSUI COAL PTY LTD/ GRANTEE/ 100%
ML1791	BHP MITSUI COAL PTY LTD/ GRANTOR/ 100%
ML1792	SOUTH BLACKWATER COAL PTY LIMITED/ HOLDER/ 100%
ML1800	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML1802	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML1812	SOUTH BLACKWATER COAL PTY LIMITED/ HOLDER/ 100%
ML1829	SOUTH BLACKWATER COAL PTY LIMITED/ HOLDER/ 100%
ML1860	SOUTH BLACKWATER COAL PTY LIMITED/ HOLDER/ 100%
ML1862	SOUTH BLACKWATER COAL PTY LIMITED/ HOLDER/ 100%
ML1885	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML1900	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML1907	SOUTH BLACKWATER COAL PTY LIMITED/ HOLDER/ 100%
ML2360	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML2410	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML4749	BHP MITSUI COAL PTY LTD/ GRANTOR/ 100%
ML4750	BHP MITSUI COAL PTY LTD/ GRANTOR/ 100%
ML4751	BHP MITSUI COAL PTY LTD/ GRANTOR/ 100%
ML4752	BHP MITSUI COAL PTY LTD/ GRANTOR/ 100%
ML700003	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML700021	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML70091	SOUTH BLACKWATER COAL PTY LIMITED/ HOLDER/ 100%
ML70103	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%

ML70443	BHP MITSUI COAL PTY LTD/ APPLICANT/ 100%
ML70459	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML70462	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML70463	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML70468	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML70469	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML70478	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML70479	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML70493	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML70494	BHP COAL PTY LTD/ JV 'ER/ 41%, BHP QUEENSLAND COAL INVESTMENTS PTY LTD/ JV 'ER/ 9%, MITSUBISHI DEVELOPMENT PTY LTD/ JV 'ER/ 16%, QCT INVESTMENT PTY LTD/ JV 'ER/ 12%, QCT MINING PTY LTD/ JV 'ER/ 16%, QCT RESOURCES PTY LIMITED/ JV 'ER/ 7%, UMAL CONSOLIDATED PTY LTD/ JV 'ER/ 1%
ML70495	BHP MITSUI COAL PTY LTD/ APPLICANT/ 100%

RESTRICTED LAND CONSENT OF LANDOWNER



Level 14, 480 Queen St
Brisbane Qld 4000
T+61 3329 2600
www.bhp.com

17 January 2022

Coal Assessment Hub
Department of Resources
PO Box 3679,
Red Hill QLD 4701

Attention: Leonie Crane, Mining Registrar

Dear Leonie,

**Mining Lease (ML) 1775 'CAVAL RIDGE - PEAK DOWNS – SARAJI MINES'
RESTRICTED LAND – CONSENT OF LANDOWNER**

Pursuant to section 238(1) of the *Mineral Resources Act 1989*, BHP Coal Pty Ltd (principal applicant), Umal Consolidated Pty Ltd, BHP Queensland Coal Investments Pty Ltd, Mitsubishi Development Pty Ltd, QCT Investment Pty Ltd, QCT Mining Pty Ltd and QCT Resources Pty Limited consent to additional surface area application (AASA) 16, over any restricted land (as defined in the *Mineral Resources Act 1989*) on:

Lot 7 on RP615467, Freehold, Title Reference: 30580008
Lot 8 on RP615467, Freehold, Title Reference: 30580009
Lot 9 on RP615467, Freehold, Title Reference: 30580010
Lot 10 on RP615467, Freehold, Title Reference: 30580011
Lot 13 on GV225, Freehold, Title Reference: 30563082

Regards,

A handwritten signature in blue ink, appearing to read 'Helen Crowther'.

Helen Crowther
Lead Tenements

ATTACHMENT 1

CENTRAL QUEENSLAND COAL ASSOCIATES JOINT VENTURE

COMPANY	ABN	% INTEREST
BHP Group of Companies:		
BHP Coal Pty Ltd (principal applicant)	83 010 595 721	40.75
Umal Consolidated Pty Ltd	29 000 767 386	0.75
BHP Queensland Coal Investments Pty Ltd	56 098 876 825	8.50
sub total		50.00
Mitsubishi Corp Group of Companies:		
Mitsubishi Development Pty Ltd	17 009 779 873	15.53
QCT Investment Pty Ltd	45 010 487 831	12.00
QCT Mining Pty Ltd	47 010 487 840	15.78
QCT Resources Pty Limited	74 010 808 705	6.69
sub total		50.00
TOTAL		100.00

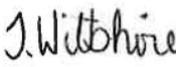
BM ALLIANCE COAL OPERATIONS PTY LTD as manager and agent on behalf of the Central Queensland Coal Associates Joint Venture participants, with authority to bind each of the participants in proportion to their respective participating interest in the Joint Venture.

SIGNED by BM ALLIANCE COAL OPERATIONS PTY LTD (ABN 67 096 412 752) as the duly constituted attorney of BHP Coal Pty Ltd (ABN 83 010 595 721), Umal Consolidated Pty Ltd (ABN 29 000 767 386), BHP Queensland Coal Investments Pty Ltd (ABN 56 098 876 825), Mitsubishi Development Pty Ltd (ABN 17 009 779 873), QCT Investment Pty Ltd (ABN 45 010 487 831), QCT Mining Pty Ltd (ABN 47 010 487 840) and QCT Resources Pty Limited (ABN 74 010 808 705) under registered power of attorney no. 707957220. BM Alliance Coal Operations Pty Ltd declares that it has not received any notice of revocation of its power of attorney.

SIGNED by BM ALLIANCE COAL OPERATIONS PTY LTD in accordance with section 127(1) of the Corporations Act 2001 (Cwth) by authority of its directors:



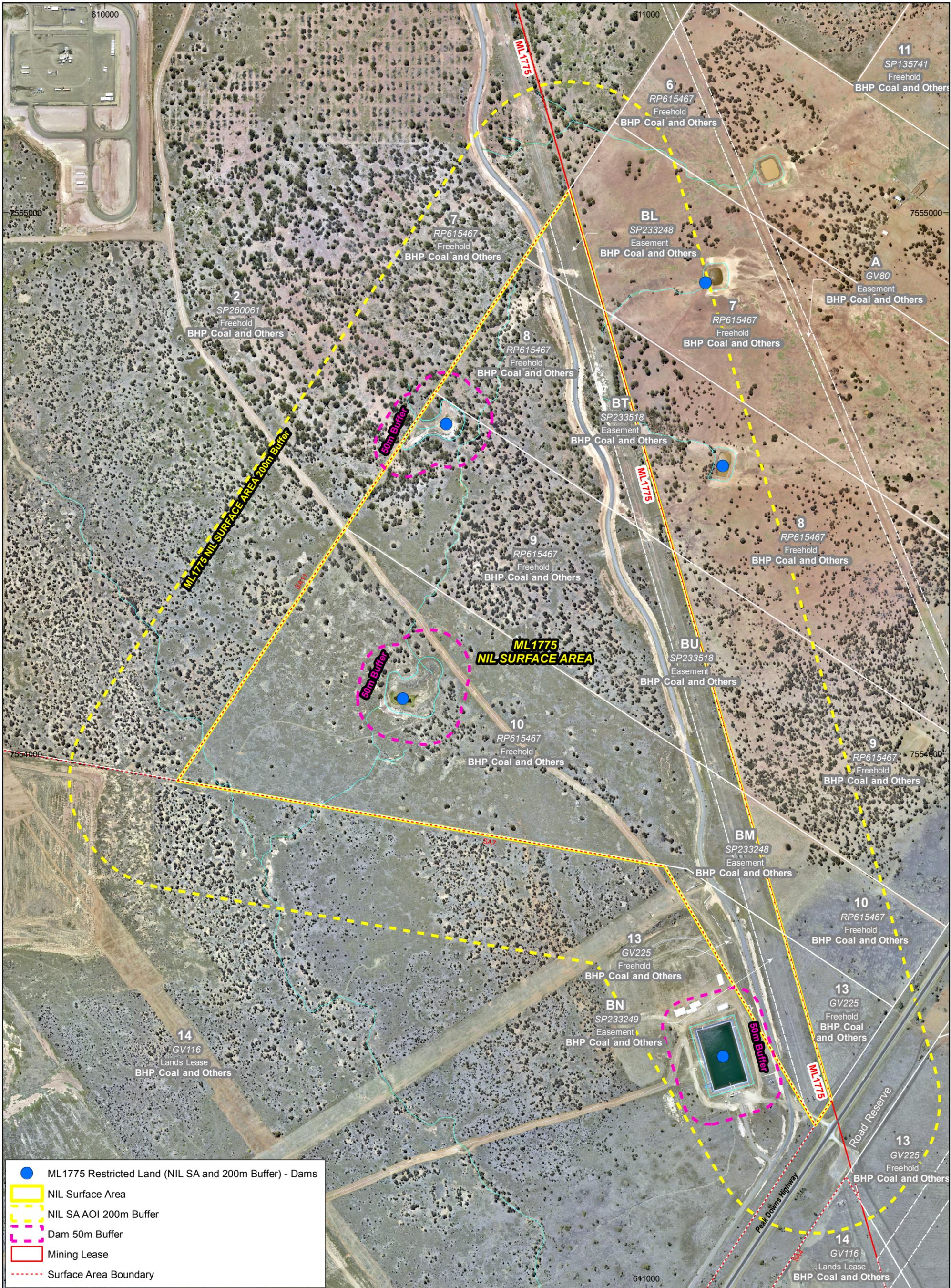
 Director
 Name:



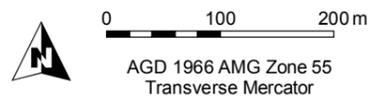
 Wiltshire, Toni TA
 Company Secretary
 Brisbane
 2022.01.17 16:15:43 +10'00'

 Director / Secretary
 Name:

Dated at **BRISBANE** this 17th, day of January 2022



- ML1775 Restricted Land (NIL SA and 200m Buffer) - Dams
- NIL Surface Area
- NIL SA AOI 200m Buffer
- Dam 50m Buffer
- Mining Lease
- Surface Area Boundary



**CAVAL RIDE
ML1775 NIL SA - RESTRICTED LAND**

Drawn: B. Lang	Date: 29/10/2020	Revision:
Checked: Z. Kyriazis	Filename: 20200415-2a.mxd	

ADDITIONAL INFORMATION

Notice to Applicant

This letter is to request for information in relation to a proposed development plan. Failure to respond to this request will result in a decision being made on the information currently held by the department.

27 July 2022

Reference: 373054

BHP Coal Pty Ltd
BHP Billiton Limited
GPO Box 1389
BRISBANE QLD 4001

Email: tenements@bhp.com

Dear Sir/Madam

I refer to your proposed Initial Development Plan (IDP) lodged on 21 February 2022 in relation to the application for Additional Surface Area (ASA) number 16 on Mining Lease (ML) number 1775.

An IDP must meet certain criteria under the *Mineral Resources Act 1989* (MR Act). A review of the proposed IDP found that it did not fully comply with the criteria under sections 318DU and 318DT of the MR Act. Therefore, the department requires further information for the delegate to decide the IDP.

Requirements

Under the MR Act, an applicant must provide:

1. The **plan period** for the proposed IDP. The IDP states the plan period is defined by the term of ML 1775 which expires on 31 December 2031. The maximum term for a development plan is five years from commencement. There is also an existing Later Development Plan that ends on 30 June 2025 which the IDP for ASA 16 can align to.

Please confirm the plan period for the proposed IDP relating to ML 1775 ASA 16.

The department requests the above information by **24 August 2022**.

If you are unable to complete these actions within the prescribed timeframe, you may request an extension of time.

Please note, if a response is not received, the delegate will decide the IDP based on the information currently held.

Where do I find more information?

There are a range of useful resources and support materials available to assist you in learning more about development plans on our website www.business.qld.gov.au/industries/mining-energy-water/resources. You can also download the initial and later development plan guide which will assist with preparing and lodging a proposed plan www.business.qld.gov.au/industries/mining-energy-water/resources/minerals-coal/legislation-policies/policies-guidelines.

If you have any questions about this letter, or specific detail relating to the above permits contact the Coal Assessment Hub on 07 4936 0169 or at coalhub@resources.qld.gov.au.

Yours sincerely

A handwritten signature in black ink, appearing to read 'D Toon', with a stylized flourish at the end.

Deborah Toon
A/ Principal Mining Registrar

Kyriazis, Zoe

From: Millward, Melissa
Sent: Tuesday, 23 August 2022 10:03 PM
To: Deb Toon
Cc: Ben Wimberley
Subject: Response to RFI: ML 1775 AASA 16 Initial Development Plan - Notice to Applicant (Reference Number 373054)
Attachments: ML 1775 ASA 16 Information request for IDP_27072022.pdf

Dear Deb

RE: ML 1775 AASA 16 Initial Development Plan - Notice to Applicant (Reference Number 373054)

I am writing in response to the Notice to Applicant (Reference Number 373054) received on the 27 July 2022 regarding 'Section 318DT (1) (b): Plan Period' of the Initial Development Plan (IDP) for the Mining Lease (ML) 1775 Application for Additional Surface Area (AASA) 16.

To clarify, the plan period for the ML 1775 AASA 16 IDP is until the expiry of the ML 1775 Later Development Plan on the 30 June 2025. Pending the approval of AASA 16, the next ML 1775 Later Development Plan, which commences from 1 July 2025, will incorporate the AASA 16 area (if approved).

Please advise if any further information is required to support the processing of the ML 1775 AASA 16.

Kind Regards

Melissa Millward

BHP

Melissa Millward
Lead Tenements (Acting) (Qld)
Studies & Access | Planning & Technical | Minerals Australia

melissa.millward@bhp.com

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Kyriazis, Zoe

From: Deb Toon <Deb.Toon@resources.qld.gov.au>
Sent: Monday, 3 April 2023 3:37 PM
To: Millward, Melissa
Subject: Draft_CVM_HPE_Project_Public_Notification 19 July 2022 edited (005)
Attachments: Draft_CVM_HPE_Project_Public_Notification 19 July 2022 edited (005).docx; Land information - Additional surface area - 373054 - ML1775 (1).xlsx

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Melissa

I've made some changes in track. I checked the Act and the affected party for notifying is still also for adjoining landowners regardless of it being an ASA, which is dealt with the same as an application for grant.

To proceed, can you please advise the preferred newspaper for advertisement, once known. The newspaper is to be one that circulates generally in the area for the ASA. I also require a link to BHP's website where the application documents will be available for the objection period.

Below are the proposed dates for the objection period:

Proposed MLN issue date: 5 April 2023

Close of objection date: 8 May 2023 (20 business days, taking into account Easter public holidays, Anzac Day and Labour Day).

Last day for advertising: 14 April 2023 (at least 15 business days before the last objection day)

I've checked the background land and it's correct and corresponds to the attached notice details. The adjoining land is missing 6RP615467 (which adjoins 7RP615467). To ensure completeness of records for notifying under the *Mineral Resources Act 1989*, in accordance with section 386J of the Act, could you please amend the adjoining land list and send back to me and I will update the record. I have attached the land list to this email.

If you have any questions, please let me know.

Regards
Deb



Deborah Toon
Principal Mining Registrar, Coal Assessment Hub
Minerals and Coal | Georesources
Department of Resources

P: 07 4936 0165 **M:** 0417 316 337

E: deb.toon@resources.qld.gov.au

A: Building E, 25 Yeppoon Road, Parkhurst Qld 4702 | PO Box 3679, Red Hill Qld 4701

W: www.dnrme.qld.gov.au

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Kyriazis, Zoe

From: Millward, Melissa
Sent: Monday, 3 April 2023 9:44 PM
To: Deb Toon
Subject: BMA ML 1775 ASA 16 Caval Ridge Horse Pit - Updated Adjoining Land List
Attachments: Draft_CVM_HPE_Project_Public_Notification 19 July 2022 edited (005); Adjoining Land information - Additional surface area - 373054 - ML1775 Updated 3 April 2023.xlsx

Good evening Deb

Thanks for your help today.

As per the attached email request regarding the missing adjoining land description within the application for Surface Area 16 (ML 1775) at Caval Ridge (also referred to as Horse Pit), and also in accordance with section 386J of the *Mineral Resources Act 1989*, please find attached the updated Adjoining Land List. As you have noted, the Adjoining Land List is missing on property description, 6RP615467 (which adjoins 7RP615467).

Apologies for the inadvertent omission of this detail.

I trust this information is now complete. However, please don't hesitate to contact me if you require further information.

Kind Regards, Melissa

BHP

Melissa Millward
Lead Tenements (Acting) (Qld)
Studies & Access | Planning & Technical | Minerals Australia

melissa.millward@bhp.com

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GPO Box 1389 Brisbane Qld 4001

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| Please note that my secondment to Acting Lead Tenements ends in 1 month, and I will soon return to my Tenure & Approval Specialist role. As from **1 May 2023**, please refer to Helen Crowther Lead Tenements for any tenement-related matters. Thankyou |

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Land information details

In this worksheet, input the **land information details** that will be included in your new permit application. The column headings with * are mandatory and require data to be completed either by selection of an item from a pick-list or entering some texts. You can 'copy and paste' multiple items in the same column. Each individual cell will give you instruction on how to enter the correct data.

Lot number	Plan number	Land tenure type *	Land tenure name (if applicable)	Current land usage *	Proposed usage *	Land owner's name *	Land owners address	Is compensation required? *	Land subject to erosion control works
7	RP615467	Freehold	n/a	Grazing	Permit	COCA JV - BHP Coal and	GPO Box 1389 Brisbane	No	Yes
8	RP615467	Freehold	n/a	Grazing	Permit	COCA JV - BHP Coal and Others	GPO Box 1389 Brisbane Qld 4001	No	Yes
9	RP615467	Freehold	n/a	Grazing	Permit	COCA JV - BHP Coal and Others	GPO Box 1389 Brisbane Qld 4001	No	Yes
10	RP615467	Freehold	n/a	Grazing	Permit	COCA JV - BHP Coal and Others	GPO Box 1389 Brisbane Qld 4001	No	Yes
13	GV225	Freehold	n/a	Other	Permit	COCA JV - BHP Coal and Others	GPO Box 1389 Brisbane Qld 4001	No	Yes

Adjoining land information details for mining lease applications

In this worksheet, input the land information details that will be included in your new mining lease application. The column headings with * are mandatory and require data to be completed either by selection of an item from a pick-list or entering some texts. You can 'copy and paste' multiple items in the same column. Each individual cell will give you instruction on how to enter the correct data.

Lot number	Plan number	Land tenure type *	Land tenure name (if applicable)	Land owner's name *	Land owners address
2	SP260061	Freehold	Horse Creek Property	CQCA JV - BHP Coal and Others	GPO Box 1389 Brisbane Qld 4001
14	GV116	Lands Lease	n/a	CQCA JV - BHP Coal and Others	GPO Box 1389 Brisbane Qld 4001
n/a	Road Reserve	Reserve	Peak Downs Highway	Department of Main Roads and Transport	PO Box 673, Fortitude Valley Qld 4006
6	RP615467	Freehold	n/a	CQCA JV - BHP Coal and Others	GPO Box 1389 Brisbane Qld 4001

**MINING LEASE 1775 CAVAL RIDGE MINE -
APPLICATION FOR ADDITIONAL
SURFACE AREA 16 SUPPORTING
INFORMATION**

Minerals Australia Planning and Technical

Mining Lease 1775 Caval Ridge Mine Application for Additional Surface Area 16

BHP Coal Pty Ltd & Others (CQCA JV)

24 February 2022
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STEP 1: PERMIT DETAILS

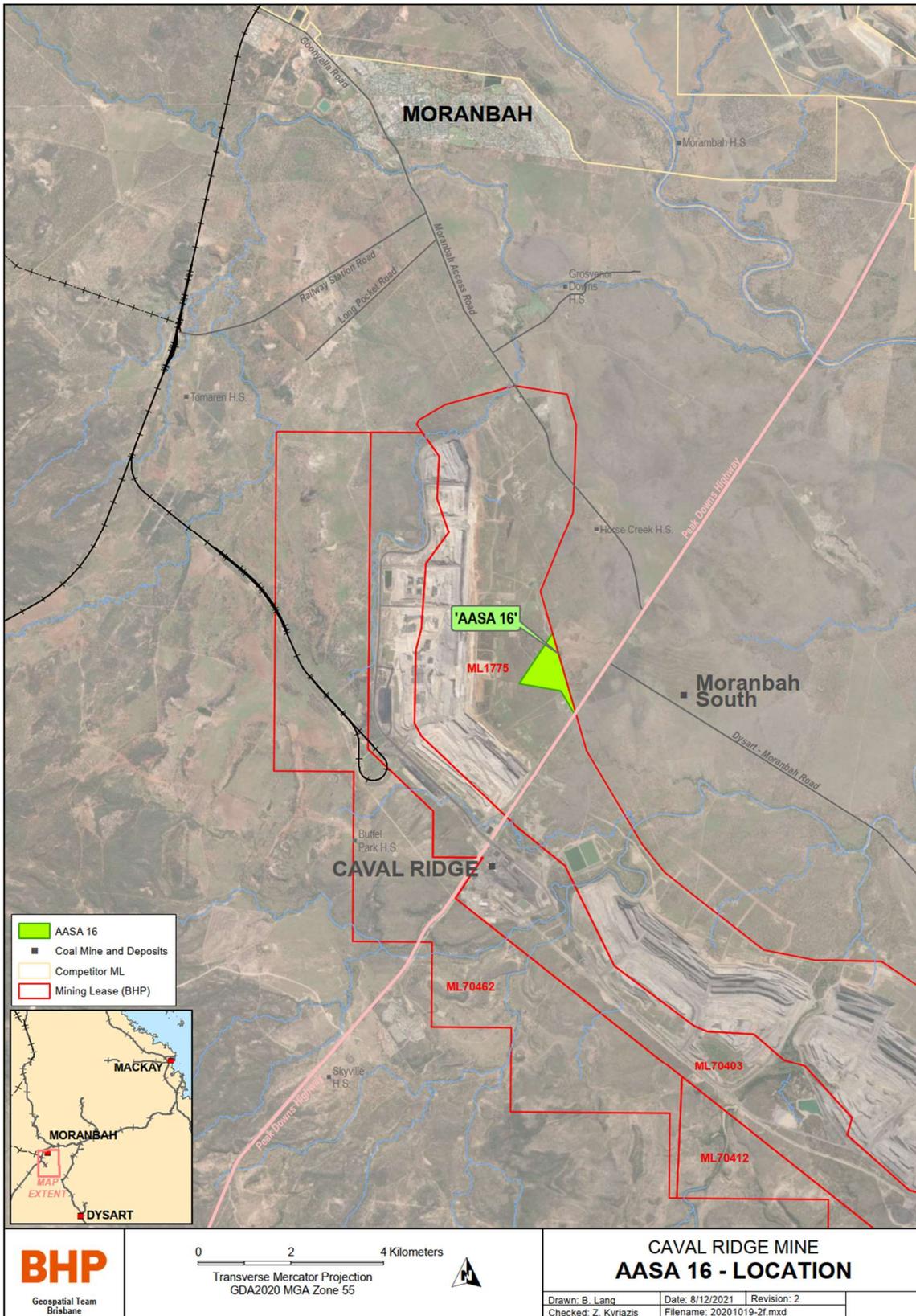
1.1 Proposed Term

The Application for Additional Surface Area (AASA) 16 aligns with the term of Mining Lease (ML) 1775, which expires on 31 December 2031. The surface area application is planned to be submitted in December 2021, with an approximate term of 10 years coincident with the expiry date for ML 1775.

1.2 General Locality

AASA 16 is located approximately 11km south-southeast of the Moranbah township, and directly north of the Peak Downs Highway (Figure 1-1, Figure 1-2). At Caval Ridge Mine (CVM), the AASA 16 is situated within the south-eastern portion of Horse Pit.

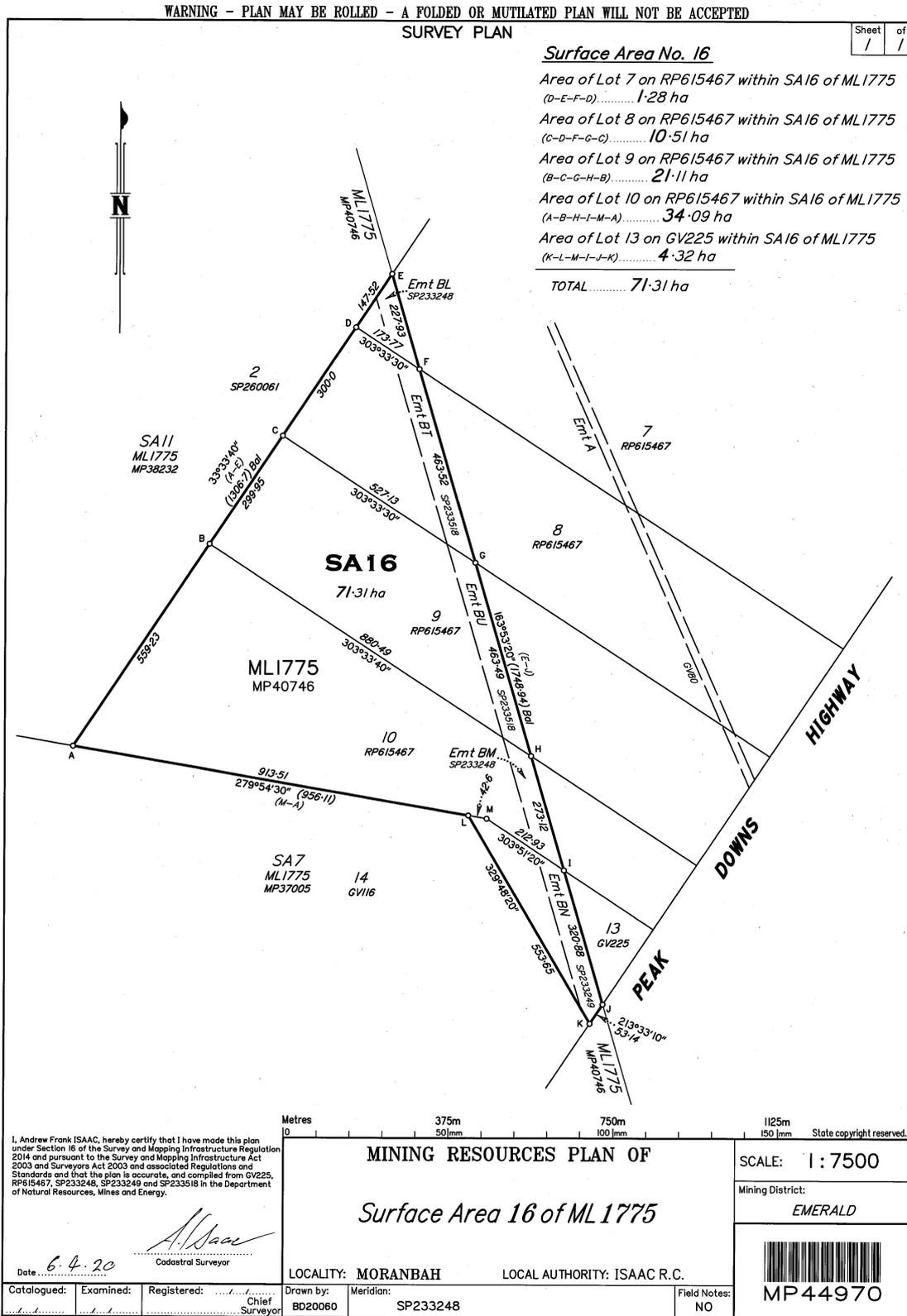
Figure 1-1: AASA 16 - Location Map



ML 1775 Caval Ridge Mine – Application for Additional Surface Area 16

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Figure 1-2: Surface Area 16 on ML 1775 – Mining Resource Plan MP 466790



STEP 2: PERMIT HOLDER DETAILS

2.1 Permit holder details

ML 1775 is held by BHP Coal Pty Ltd and Others being the Central Queensland Coal Associates Joint Venture (CQCA JV) participants. ML 1775 is a *Central Queensland Coal Associates Agreement Act 1968* grant.

Table 2-1 below outlines the CQCA JV details.

The Consent of Holders form has been executed and uploaded into the My Mines Online (MMOL) Portal, as required.

Table 2-1: Holder Details and Interests Held

Holder	ABN	Percentage Interest
BHP Group of Companies:		
BHP Coal Pty Ltd (principal applicant)	83 010 595 721	40.75
Umal Consolidated Pty Ltd	29 000 767 386	0.75
BHP Queensland Coal Investments Pty Ltd	56 098 876 825	8.50
Sub total		50.00
Mitsubishi Corp Group of Companies:		
Mitsubishi Development Pty Ltd	17 009 779 873	15.53
QCT Investment Pty Ltd	45 010 487 831	12.00
QCT Mining Pty Ltd	47 010 487 840	15.78
QCT Resources Pty Limited	74 010 808 705	6.69
Sub total		50.00
TOTAL		100.00

STEP 3: PERMIT AREA

3.1 Permit Area Size

The permit area size of AASA 16 is 71.31 ha as calculated for unregistered Survey Plan MP 44970 (Figure 1-2).

3.2 Permit Area Justification

Approval of the AASA 16 will enable the future development of the CVM within 'Horse Pit'. The AASA 16 area, size and shape reflects the remaining nil Surface Area (SA) in the south-eastern portion of 'Horse Pit' at the CVM. Surrounding ML 1775 SA applications were submitted and granted for land parcels owned by the CQCA JV, which left the residual nil SA shape covering properties not owned by the CQCA JV at the time. The AASA 16 underlying land was acquired by the CQCA JV in 2010, with a view to apply for SA 'rights' on ML 1775.

Coal mining is expected to commence in the proposed SA in Financial Year (FY) 35, as estimated in the Life of Asset (LOA) 21 mine plan. Prior to coal mining in the nil SA, the CQCA JV will require complete SA 'rights' to allow infrastructure relocation, and other pre-mining activities such as fence and road construction. This SA application is a part of a larger mining approval project to allow mining approval throughout 'Horse Pit' by FY25.

3.3 Permit Area Details

The AASA 16 area GDA2020 Datum latitude and longitude coordinates are provided in Table 3-1 below. The coordinates were obtained through an export from a BHP Geographic Information System (GIS) workspace. A *.csv file with coordinates is included in this application. A Mining Resource survey plan was created by Cadastral Surveyor, Andrew Isaac, on the 6 April 2020 in support of this application. Table 3-2 below outlines the two sub-blocks that the AASA 16 partly covers, CLER: 1849 K and CLER: 1849 P.

Figure 3-1 displays the outline of the AASA 16 boundary, which covers in part land parcels; 13GV225, 10RP615467, 9RP615467, 8RP615476 and 7RP615467 (refer to Step 4 for more land details). Power line easements traverse north-south along the eastern portion of AASA 16 coincident with the eastern boundary of ML 1775, which include EMT BLSP233248, EMT BTSP233518, EMT BUSP233518 and EMT BNSP233249. The land within AASA 16 is relatively flat lying with a minor gully along the western section of the application area. Current infrastructure located within AASA 16 includes power lines along the eastern easement, water poly pipelines and unsealed roads as displayed in Figure 3-1. Land access to the AASA 16 area will mainly be via the CVM and the network of unsealed mine-transportation roads. Secondary land access to AASA 16 is via the Peak Downs Highway, and a northern unsealed road connecting the Peak Downs High and CVM unsealed roads.

The AASA 16 lies within ML 1775, and abuts Mineral Development Licence (MDL) 277 to the east (refer to Figure 3-1 below). MDL 277 is held by Exxaro Australia Pty Ltd (50 %, authorised holder) and Anglo Coal (Grosvenor) Pty Ltd (50%).

Table 3-1: AASA 16 - Coordinates in GDA2020 Datum

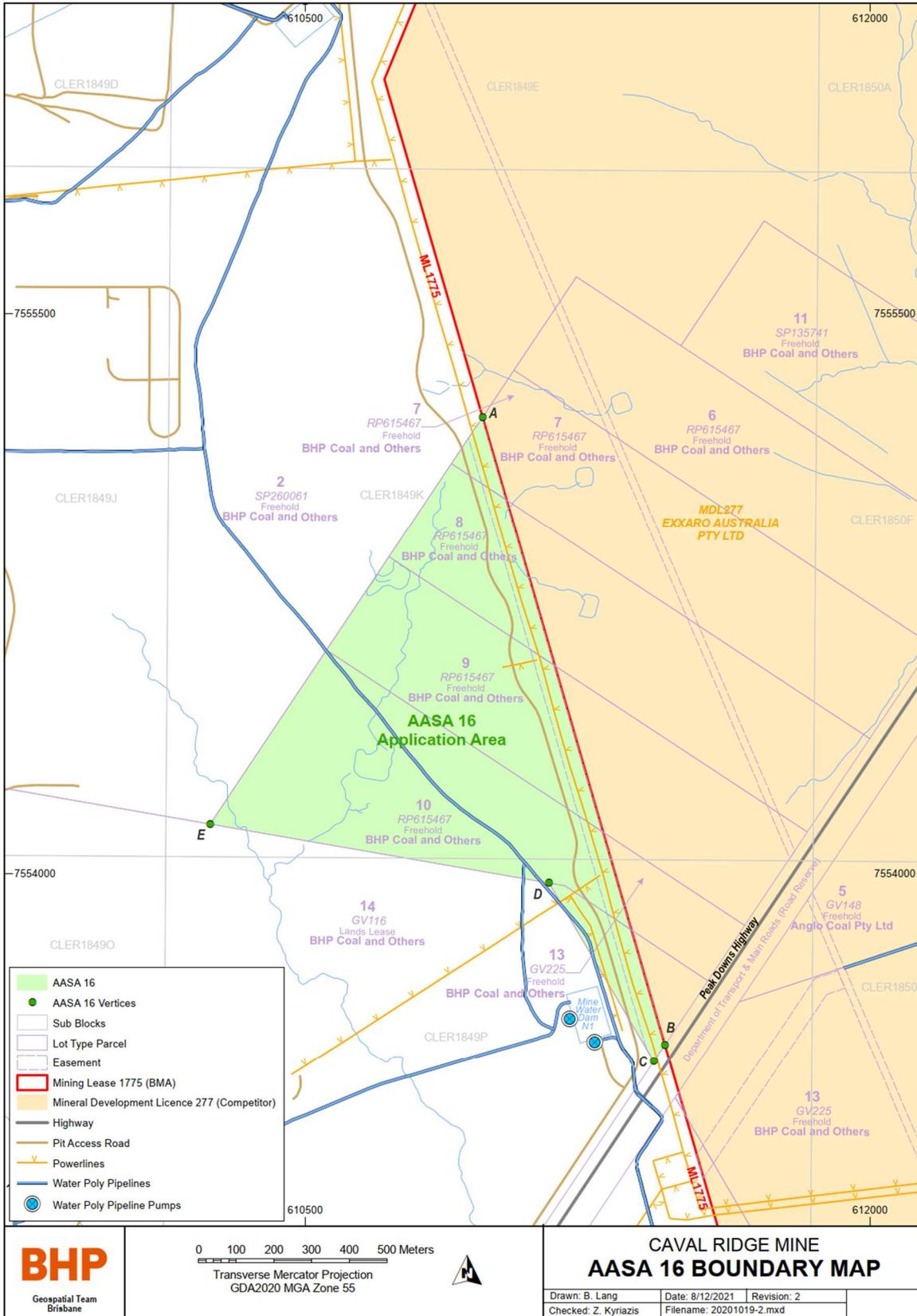
Vertice Identification	Latitude	Longitude
A	-22.10443078	148.0758295
B	-22.11958666	148.0806398
C	-22.11999015	148.080357
D	-22.11568664	148.0776257
E	-22.11432383	148.0688927

Refer to Figure 3-1 for vertices locations

Table 3-2: AASA 16 - Block and Sub Block Identification

Block ID Map	Block	Sub-Block
CLER	1849	k
CLER	1849	p

Figure 3-1: AASA 16 - Boundary Map with Vertices Identification Labels



ML 1775 Caval Ridge Mine – Application for Additional Surface Area 16

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STEP 4: LAND INFORMATION DETAILS

4.1 Underlying Land Ownership

Land Information for the properties underlying the ASAA 16 is included in the land information template attached to this application.

There are 5 properties underlying the ASAA 16, refer to Table 4-1 below. All of the underlying properties are held by BHP Coal Pty Ltd and Others (CQCA JV). Figure 4-1 lists the underlying landowners for the ASAA 16. There are not any underlying Reserve Land associated with this application.

Table 4-1: ASAA 16 - Underlying Landowners

Lot	Plan	Tenure	Land Parcel Name	Current Usage	Proposed Usage	Landholder Name
7	RP615467	Freehold	N/A	Grazing Power lines	Mining	BHP Coal Pty Ltd & Others (CQCA JV)
8	RP615467	Freehold	N/A	Grazing Power lines	Mining	BHP Coal Pty Ltd & Others (CQCA JV)
9	RP615467	Freehold	N/A	Grazing Power lines	Mining	BHP Coal Pty Ltd & Others (CQCA JV)
10	RP615467	Freehold	N/A	Grazing Water Pipeline Power lines	Mining	BHP Coal Pty Ltd & Others (CQCA JV)
13	GV225	Freehold	N/A	Grazing Water Pipeline Power lines	Mining	BHP Coal Pty Ltd & Others (CQCA JV)

4.2 Adjoining Land Ownership

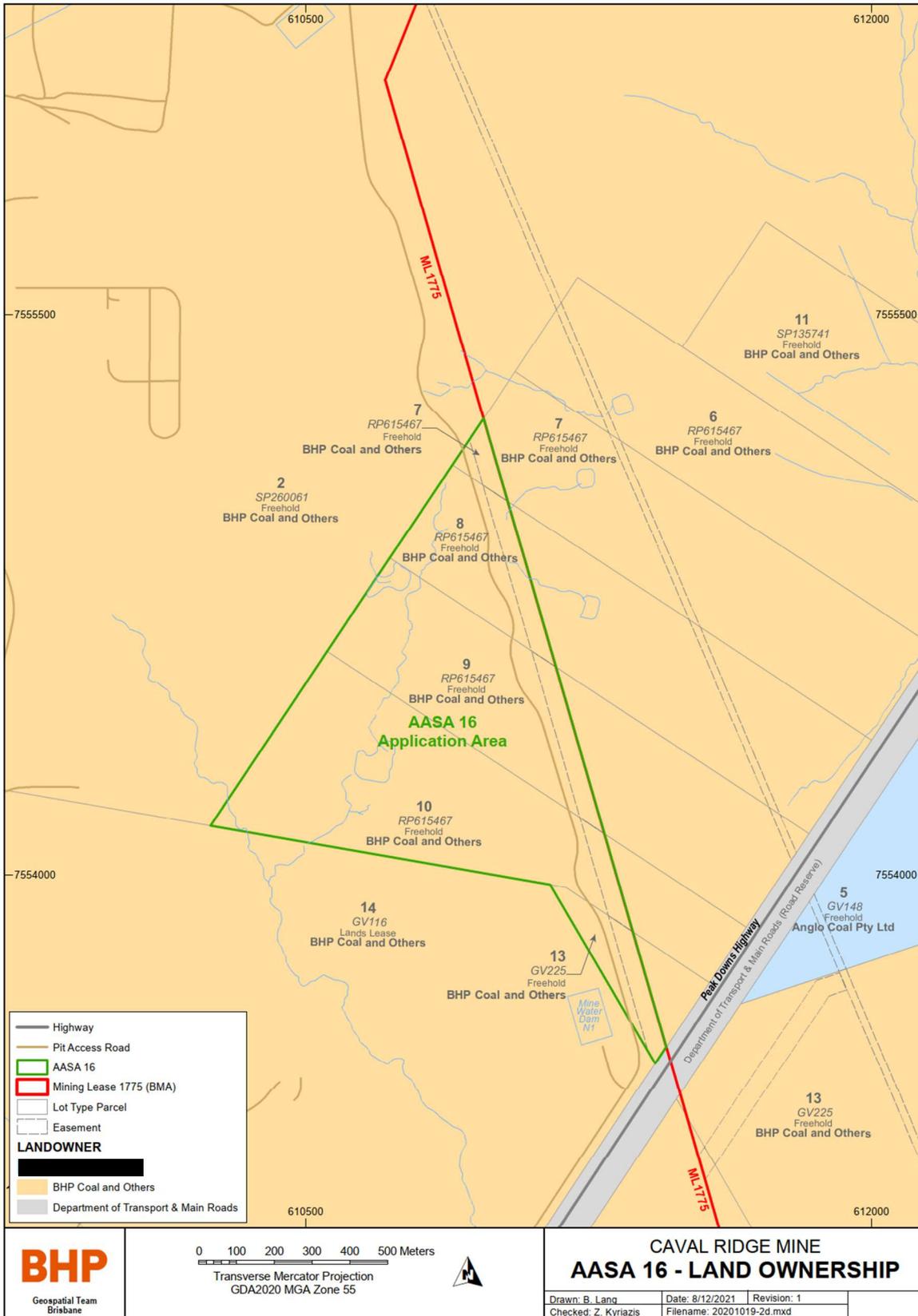
Land information for the properties adjoining the ASAA 16 is included in the land information template attached to this application.

There are three (3) properties adjoining the ASAA 16, refer to Table 4-2 below. Two (2) of the adjoining properties are held by BHP Coal Pty Ltd and Others (CQCA JV). The adjacent Peak Downs Highway road reserve land is operated and managed by the Department of Transport and Main Roads (DTMR) as the custodians for the State. Figure 4-1 and Table 4-2 outlines the landholders adjoining ASAA 16.

Table 4-2: ASAA 16 - Adjoining Landowners

Lot	Plan	Tenure	Land Parcel Name	Landholder Name
2	SP260061	Freehold	Horse Creek Property	BHP Coal Pty Ltd & Others (CQCA JV)
14	GV116	Lands Lease	N/A	BHP Coal Pty Ltd & Others (CQCA JV)
N/A	Road Reserve	Reserve	Peak Downs Highway	Department of Transport and Main Roads

Figure 4-1: AASA 16 - Land Ownership



ML 1775 Caval Ridge Mine – Application for Additional Surface Area 16

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4.3 Restricted Land

The Restricted Land items (i.e. 50m and 200m off-set zones), which may impact activities proposed within the AASA 16 area are listed below in Table 4-3. A total of three (3) Restricted Land items were identified, including 3 dams, refer to Figure 4-2. The landholder for the identified restricted items is BHP Coal Pty Ltd and Others (CQCA JV). The CQCA JV consent to proposed field activities within the restricted land items identified, and therefore the Restricted Land items do not have any consequence for the SA application process.

Table 4-3: ASAA 16 - Nominal Restricted Land

Lot	Plan	Landholder Name	Restricted Land Item	Distance to be observed (m)	Has Consent been obtained?
9	RP615467	BHP Coal Pty Ltd & Others (CQCA JV)	Dam	50	Not applicable
14	GV116*1	BHP Coal Pty Ltd & Others (CQCA JV)	Dam Mine Water N1 Dam	50	Not applicable
10	RP615467	BHP Coal Pty Ltd & Others (CQCA JV)	Dam	50	Not applicable

*1 Note that this dam identified on property 14GV116 is located 40m south-west of the AASA 16 boundary, and is utilised for mining purposes

4.4 Greenhouse Gas Tenure

There are not any Greenhouse Gas permits within the AASA 16 area, and therefore a Greenhouse Gas Statement is not required for the application.

4.5 Overlapping Petroleum Resource Authorities

There are not any overlapping Petroleum Resource Authorities within the AASA 16 area that are applicable for this application, refer to Figure 4-3 below. Therefore, a Coal Seam Gas Statement and Coal Seam Gas Assessment Criteria are not required as a part of the SA application process.

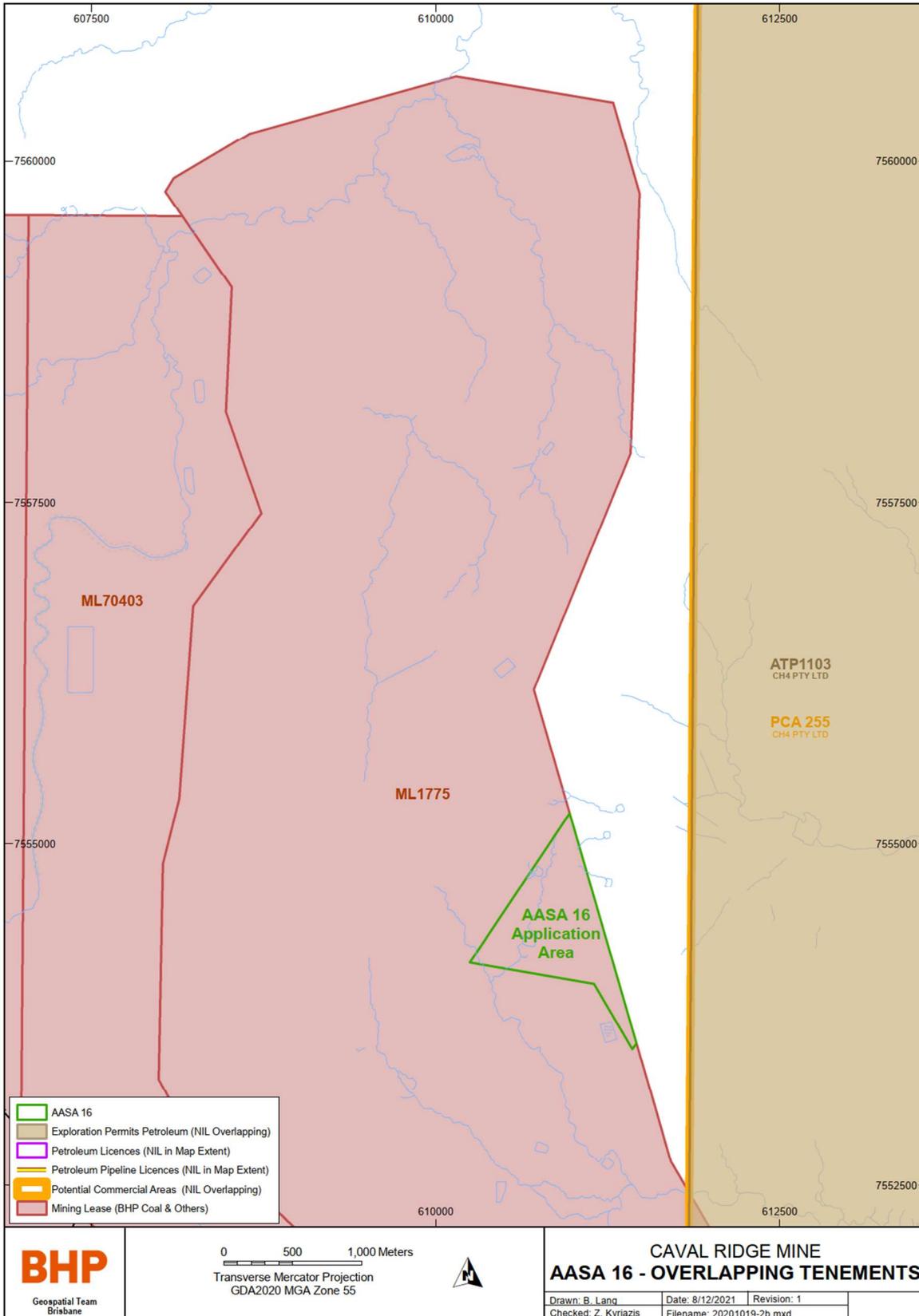
ML 1775 is a coal and gaseous hydrocarbons authority for the Caval Ridge, Peak Downs and Saraji Mines.

4.6 Compensation Agreements

4.6.1 Confirmation of Compensation Agreement Requirement

As the land underlying the AASA 16 is owned by the BHP Coal Pty Ltd and Others (CQCA JV), a landowner compensation agreement is not required for this AASA 16.

Figure 4-3: AASA 16 - Overlapping Petroleum Authorities



ML 1775 Caval Ridge Mine – Application for Additional Surface Area 16

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STEP 5: ENVIRONMENT AUTHORITY

An Environmental Authority amendment application has been submitted to the Department of Environment and Science (DES) through the Queensland Government connect system ahead of this AASA 16. The current Environmental Authority at Caval Ridge Mine is referenced by EPML00562013.

STEP 6: NATIVE TITLE

6.1 Native Title and Cultural Heritage Summary

The land underlying the AASA 16 within ML 1775 is state freehold land that is considered to be 'Exclusive' land for Native Title purposes. Figure 6-1 outlines where Native Title non-exclusive and exclusive land is situated in relation to AASA 16. Land parcel 13GV225 underlying AASA 16 is assumed to have Native Title extinguished due to being state freehold land. All other land parcels underlying AASA 16 are wholly Native Title extinguished over the conclusion area by a previous exclusive possessions act (*such as section 23B(2), (3) or (7) Commonwealth Native Title Act 1993, section 20 or 21 Native Title (Queensland) Act 1993*) as per the Queensland Government Native Title Assessment Research and Assessment Web Services feature. The entire ML 1775 and subsequent AASA 16 is void of any Native Title claims or applications.

ML 1775 was granted by the Department of Resources (DoR) under the *Central Queensland Coal Associates Agreement Act, 1968*, without reference to Native Title. Currently, there are not any Native Title applications or determinations across the ML area (refer to Table 6-1). The CQCA JV have elected Option 1 – Exclusive land in regard to this ASAA, as ML 1775 was granted under a past act with reference to section 228 of the Native Title Act 1993.

The following information provided in Table 6-1 is in relation to Native Title and Cultural Heritage for the AASA 16.

Table 6-1: AASA 16 - Native Title and Cultural Heritage

Native Title Process	Native Title Application or Determination	Native Title Determination	Cultural Heritage Party
Exclusive Land	No Native Title claims or applications currently registered or lodged across AASA 16	None	Barada Barna People

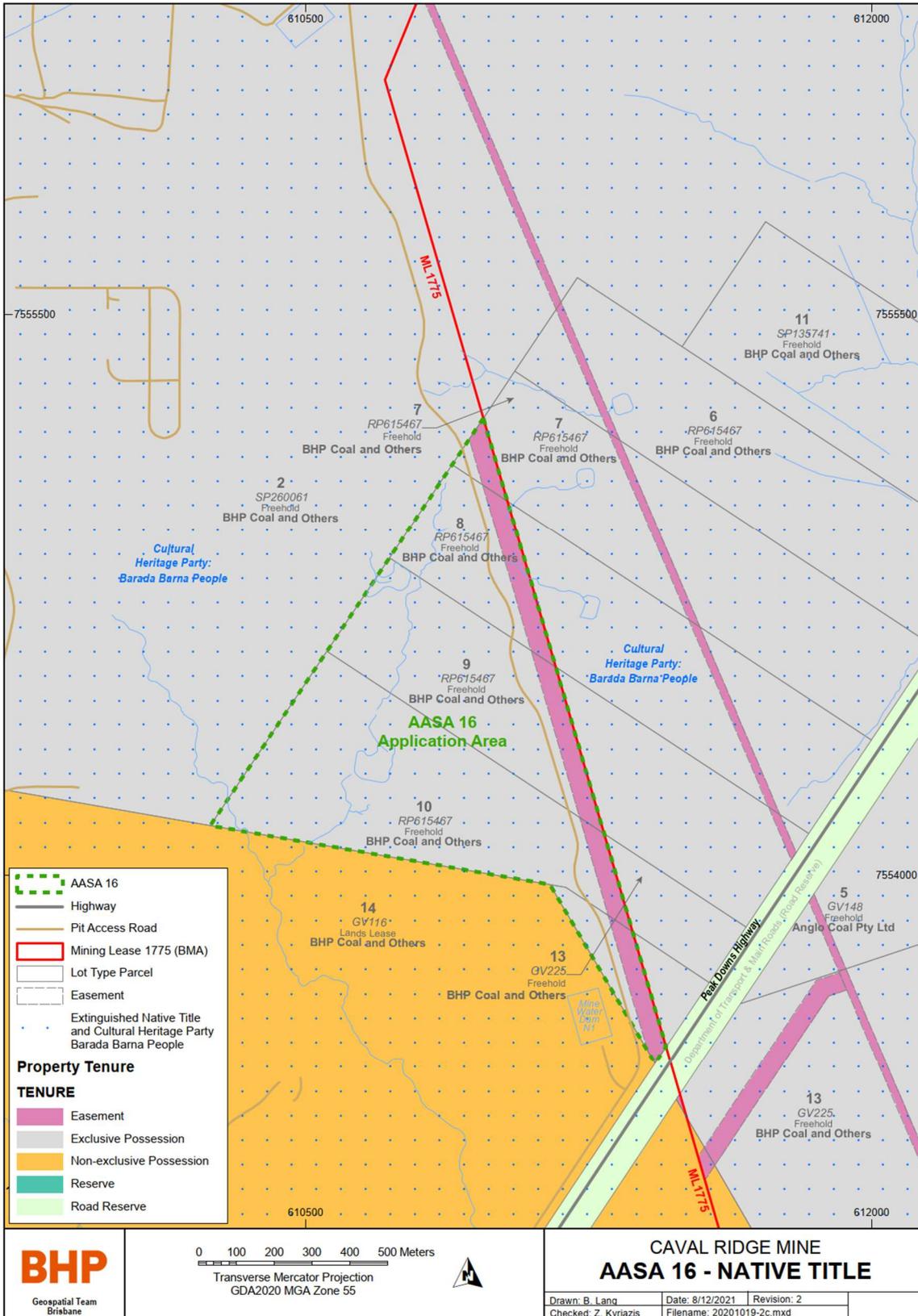
6.2 Cultural Heritage

The Barada Barna People are the Cultural Heritage Party, who received their Native Title determination on 29 June 2016, under the *Native Title Act 1993 (Cth)* (NTA) in respect to the Caval Ridge Mine area and surrounding land. Table 6-2 outlines the current Cultural Heritage Party and Cultural Heritage Agreement in place for the entire Caval Ridge Mine area, including ML 1775.

Table 6-2: AASA 16 - Cultural Heritage Parties

Cultural Heritage Party	Cultural Heritage Management Agreement / Plan	Mining Lease	Commencement Date	Expiry Date
Barada Barna People	Cultural Heritage Management Agreement: Caval Ridge Mine	ML 1775 ML 70403 ML 70462 ML 70412 ML 70463	28 February 2035	Term ends at the conclusion of the project

Figure 6-1: ASAA 16 - Native Title



ML 1775 Caval Ridge Mine – Application for Additional Surface Area 16

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STEP 7: PROPOSED DEVELOPMENT PLAN

7.1 Work Program Summary

The Life of Asset mine plan highlights that open-cut coal mining operational activities in the AASA 16 area will commence from FY35 (2035) to FY40 (2040) (refer to Figure 7-1 and Figure 7-2). Mining activities planned within the AASA 16 commence beyond the current ML 1775 tenement term, which expires on 31 December 2031.

The CVM is a large, established open cut operation that mines the Dysart and Harrow Creek coal sequences within the Moranbah Coal Measures.

The following activities are undertaken at the mine:

- Coal mining utilising open cut methods
- Coal preparation
- Waste disposal
- Exploration activities
- Liberation of Coal Seam Gas (CSG) as part of the mining process – incidental gas.

Each of which is more fully described in the AASA 16 Initial Development Plan (IDP) attached to this application

Exploration activities within the AASA 16 area will involve a 3D seismic survey, which is planned in FY2023 to obtain structural geology information and update the structural geological model. The 3D seismic survey is a part of a larger data collection exercise for the whole of the eastern portion of ML 1775. The AASA 16 IDP provides a detailed exploration plan for the next 5 years.

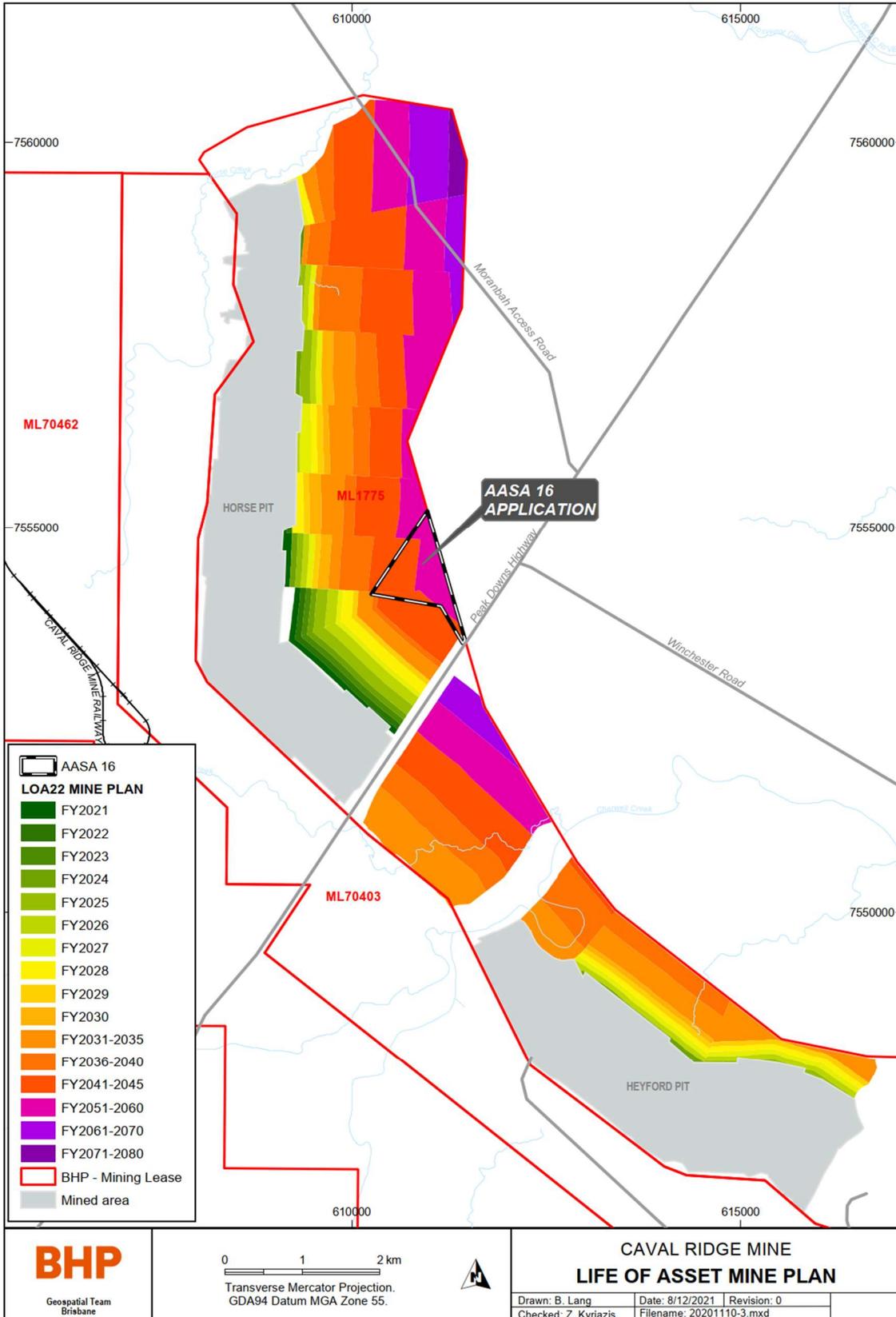
The relocation of infrastructure such as power lines, water pipelines, dams, back access road, fences etc. is expected to commence post FY23 State and Commonwealth mining approval, which will involve:

- FY23 internal approval process prior to infrastructure relocation
- FY24 commencement of infrastructure relocation
- FY25 finalisation of any infrastructure relocation activities

The AASA 16 IDP outlines the detailed infrastructure relocation work program for the AASA 16 area over the next 5 years.

A current Later Development Plan approved by the Queensland Government for the period from 1 July 2020 to 30 June 2025 for ML 1775 also covers the AASA 16 area, which provides the overall Caval Ridge Mine work program.

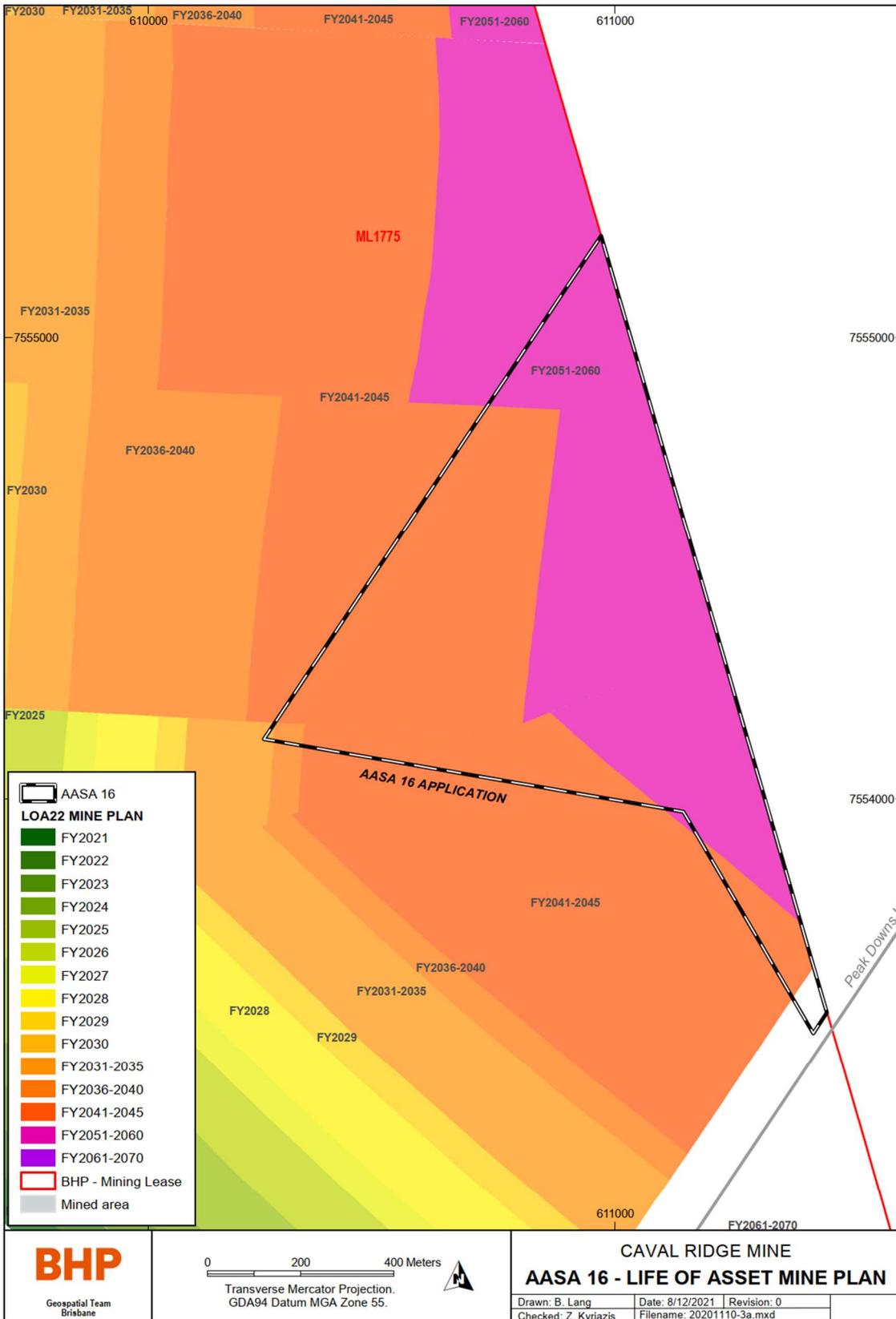
Figure 7-1: CVM Life of Asset Mine Plan



ML 1775 Caval Ridge Mine – Application for Additional Surface Area 16

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Figure 7-2: AASA 16 - Life of Asset Mine Plan



ML 1775 Caval Ridge Mine – Application for Additional Surface Area 16

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STEP 9: PERMIT HOLDER OBLIGATIONS

9.1 Holder Obligations Statement

During the current twenty-one year term, BHP Coal and Others being the CQCA JV, have maintained Mining Lease (ML) 1775 'Caval Ridge - Peak Downs – Saraji Mines' in good standing, and is compliant with the Department of Resources (DoR) policies and legislation.

The Lease Holder confirms that all statutory legislation and grant obligations, in accordance with the relevant provisions of the *Mineral Resources Act 1989* (MRA) and the *Mineral Resources Regulation 2013* (Qld) (MRR), have been met, or substantially complied with during the 37 year Licence term.

9.1.1 Reporting

The CQCA JV confirm that all statutory reporting has been recorded with the DoR. For MLs, this is limited to the following report types:

- Coal Seam Gas (CSG) Annual Activity Reports
- Coal Seam Gas (CSG) Annual Metering Reports
- Initial and Later Development Plans

In accordance with s.315 of the MRA, and s.29A of the MRR, the CQCA JV have met their obligations to lodge Activity Reports for coal MLs. All of the required CSG Annual Activity and Metering Reports have been lodged as and when required.

Development Plans for coal MLs are required under Chapter 8 Provision for Coal Seam Gas s.318DQ of the MRA. The most recent Later Development Plan (LDP) for the period 1 July 2020 – 30 June 2025 was lodged with the DoR on 1 May 2020. The LDP was accepted by the DoR on 9 July 2020.

9.1.2 Rental Payments

The CQCA JV confirms that all rental payments are in order, have been lodged prior to their due dates on an annual basis, and are therefore fully compliant.

9.1.3 Royalty Returns and Payments

The CQCA JV confirms that royalty returns and royalty payments have been submitted to the Office of State Revenue on an annual basis.

9.1.4 Local Government Rates

The CQCA JV confirms that all Local Government Authority rates have been paid in relation to ML 1775 on time on an annual basis.

9.1.5 Securities

In accordance with Operational Policy MIN2018/4110 and section 277 of the Mineral Resources Act 1989, the CQCA JV confirms that the ML 1775 security payment of \$26,974.42 was paid on the 21 May 2020.

In accordance with the associated Environmental Authority EPML00562013, the holders have in place a Financial Assurance (FA) of \$45,760,686 for the Caval Ridge Mine lodged with the State. There are additional FA's held by the State for the Peak Downs Mine and the Saraji Mine under different Environmental Authorities for ML 1775.

MINING LEASE 1775 CAVAL RIDGE MINE - INITIAL DEVELOPMENT PLAN

Minerals Australia Planning and Technical

Mining Lease 1775 Caval Ridge Mine Initial Development Plan Application for Additional Surface Area 16

BHP Coal Pty Ltd & Others (CQCA JV)

24 February 2022
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1. Section 318DT(1)(a): Overview of the activities proposed to be carried out under the proposed mining lease during all of its proposed term

1.1 Mine Plan

1.1.1 Location

This Initial Development Plan (IDP) accompanies the Application for Additional Surface Area 16 (AASA 16) within Mining Lease (ML) 1775, which is located approximately 11 km south-southeast of the Moranbah township, and directly north of the Peak Downs Highway ([Figure 1](#)). At the Caval Ridge Mine (CVM), the AASA 16 is situated within the south-eastern portion of 'Horse Pit'.

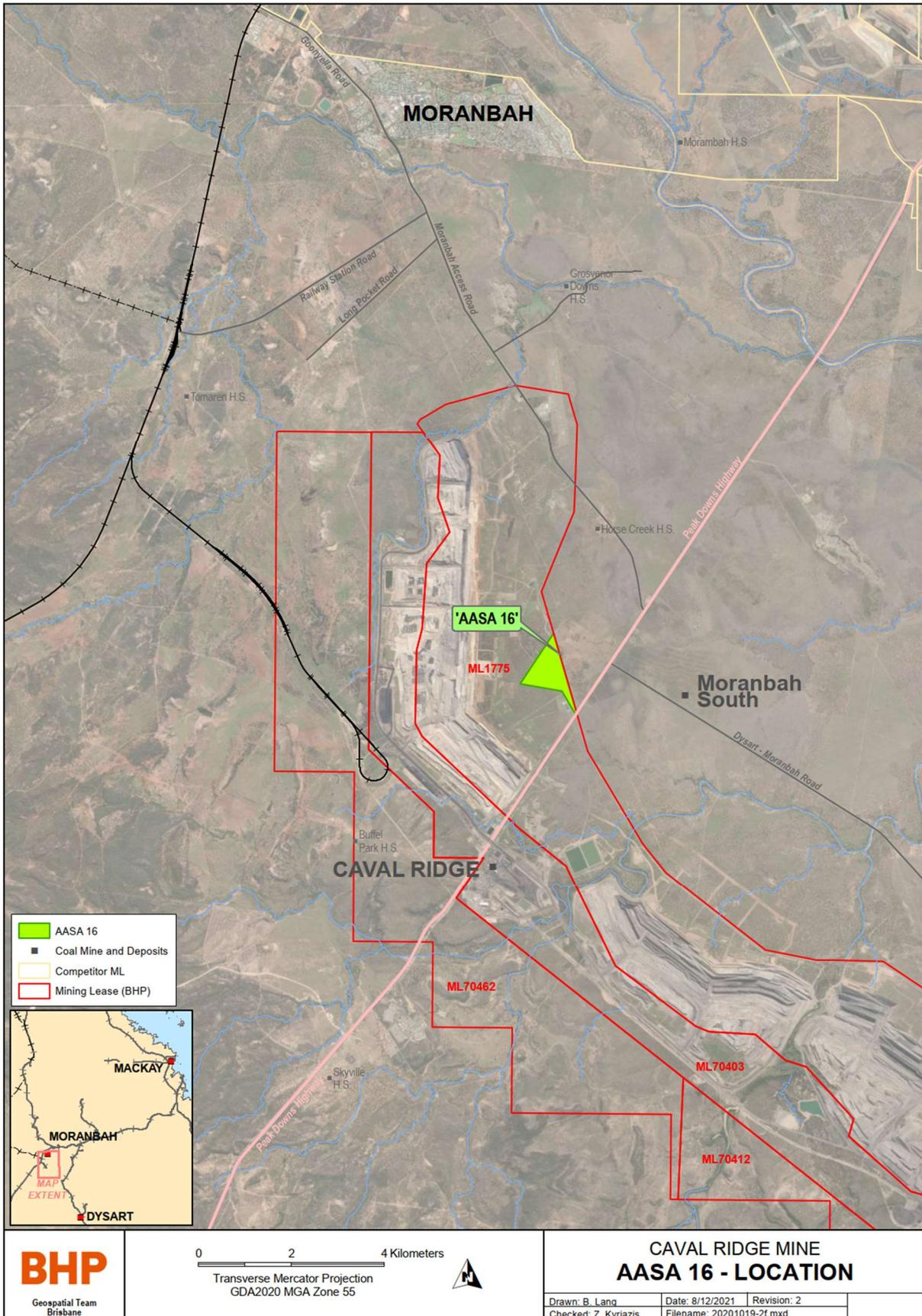
1.1.2 Mine Plan

A Life of Asset (LOA) mine plan for the AASA 16 area is provided in [Figure 2](#) and [Figure 3](#) below. The LOA mine plan highlights that open-cut coal mining operational activities in the AASA 16 is estimated to commence from Financial Year (FY) 2035 to 2040. Mining activities planned within AASA 16 are beyond the current ML 1775 term, which expires on 31 December 2031.

1.1.3 Extent of Mine Workings

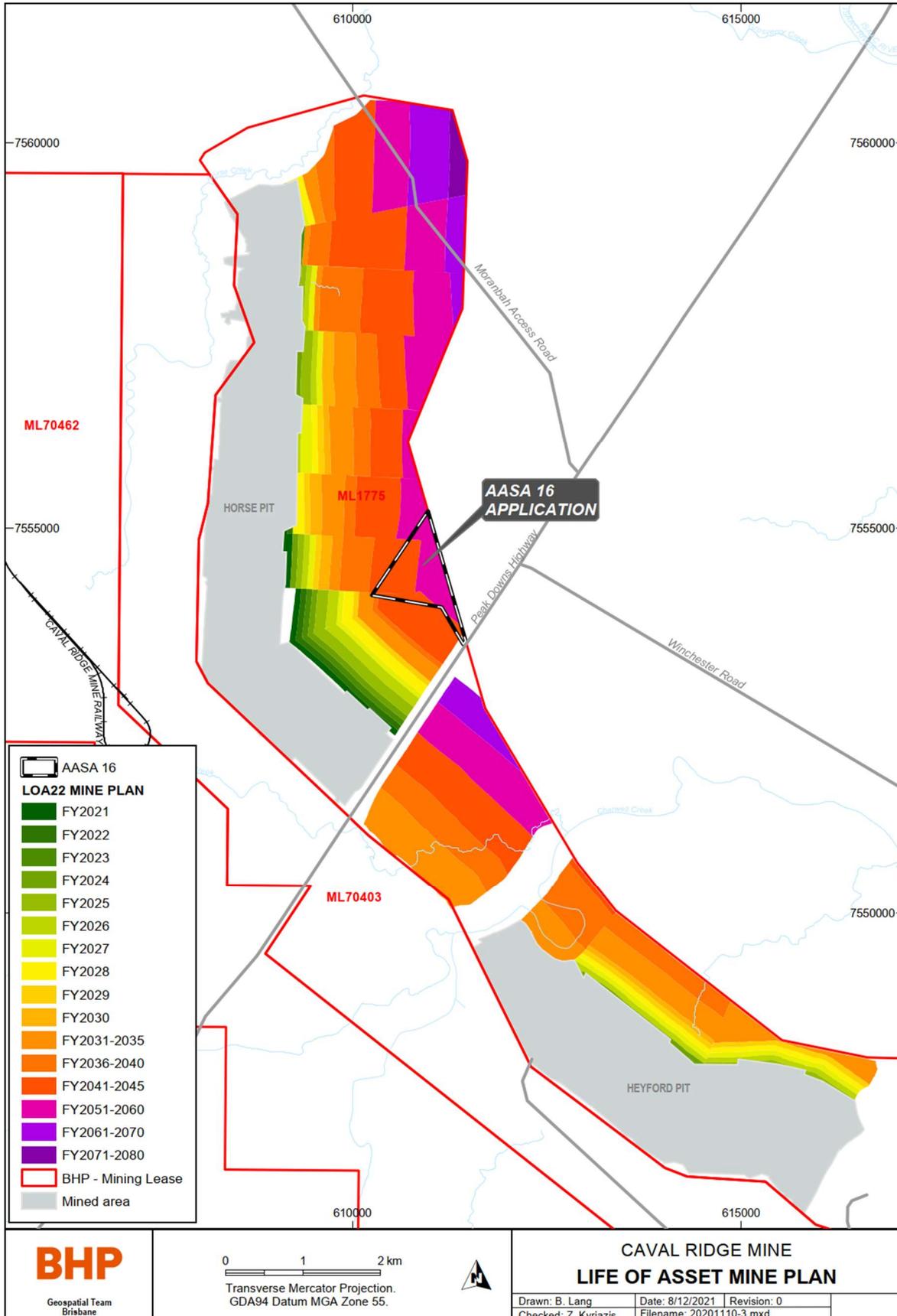
The extent of coal mine workings for the AASA 16 area located within ML 1775 is illustrated in [Figure 3](#) as per the current LOA plan. The current ML 1775 term expires on 31 December 2031. Open-cut coal mining production is not planned within the AASA 16 area for the current ML 1775 term. Section [2.1](#) lists the proposed activities within the AASA 16 for the five (5) Year Plan.

Figure 1: ASAA 16 - Location Map



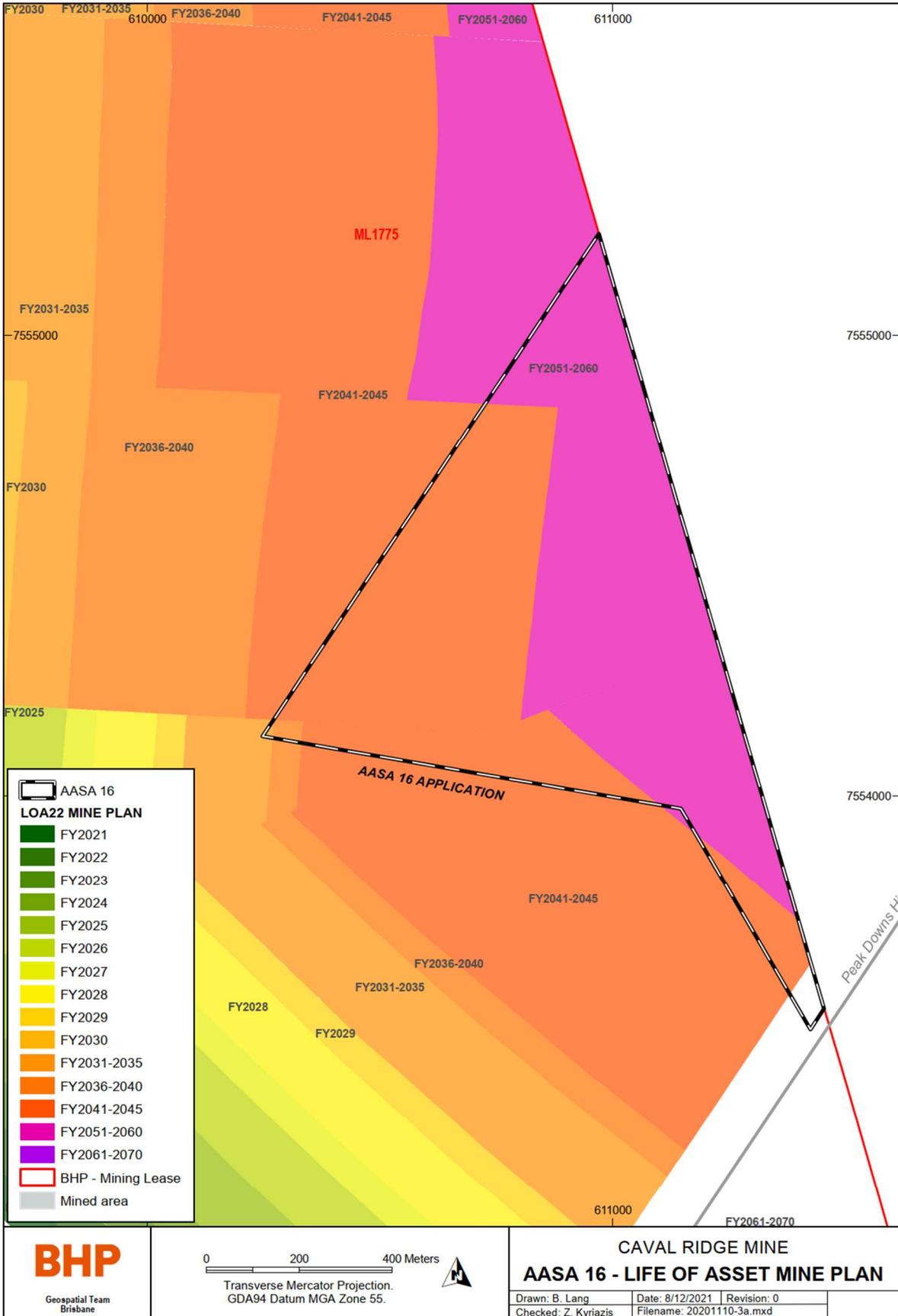
ML 1775 CVM – Application for Additional Surface Area 16

Figure 2: CVM - Life of Asset Mine Plan



ML 1775 CVM – Application for Additional Surface Area 16

Figure 3: AASA 16 - Life of Asset Mine Plan



ML 1775 CVM – Application for Additional Surface Area 16

1.3 Proposed Activities

The CVM is located approximately 5 km south of Moranbah in Central Queensland. The CVM is a large, established open-cut operation that mines the Dysart and Harrow Creek coal sequences within the MCM.

The following activities are undertaken at the mine:

- Coal mining utilising open-cut methods
- Coal preparation
- Waste disposal
- Exploration activities
- Liberation of Coal Seam Gas (CSG) as part of the mining process – incidental gas.

Each of which is more fully described below.

1.3.1 Coal Mining

All current coal mining activities at CVM occur on ML 1775, refer to Figure 2. Within AASA 16, which is the subject of this IDP, mining activities are not planned within the current ML 1775 term, expiring on 31 December 2031, refer to Figure 3.

The CVM is a large multiple coal seam mine, centred currently on mining the Dysart and Harrow Creek Coal sequences, refer to Section 1.2 for more information. However, small amounts of the overlying seams (P/Q/R/S Seams) that occur within the mining horizon are also mined.

All coal seams and seam splits are currently mined by open-cut methods. All coal seams in the working pits are uncovered and recovered in the sequence that meet the cut-off criteria for quality and seam thickness. There are no known economic open-cut coal seams below the Lower Dysart sequence, which is the base of mining throughout the CVM.

Several minor coal seams / seam splits occur between the mined coal seams. Due to their thickness, the location of the seams in the overburden horizon and the quality of the coal, these seams are not presently economically or technically viable to mine.

Figure 4 shows the complexity of the seams through the Caval Ridge mining sequence.

1.3.1.1 Open Cut Mining Methodology

The strip mining technique is used at the CVM. The seams are mined from strips constructed in the general north south direction along the strike of the coal seams, refer to Figure 5.

The open-cut process involves the removal of overburden using draglines and truck and shovel operations. The majority of the overburden is placed in the void of the previous strips.

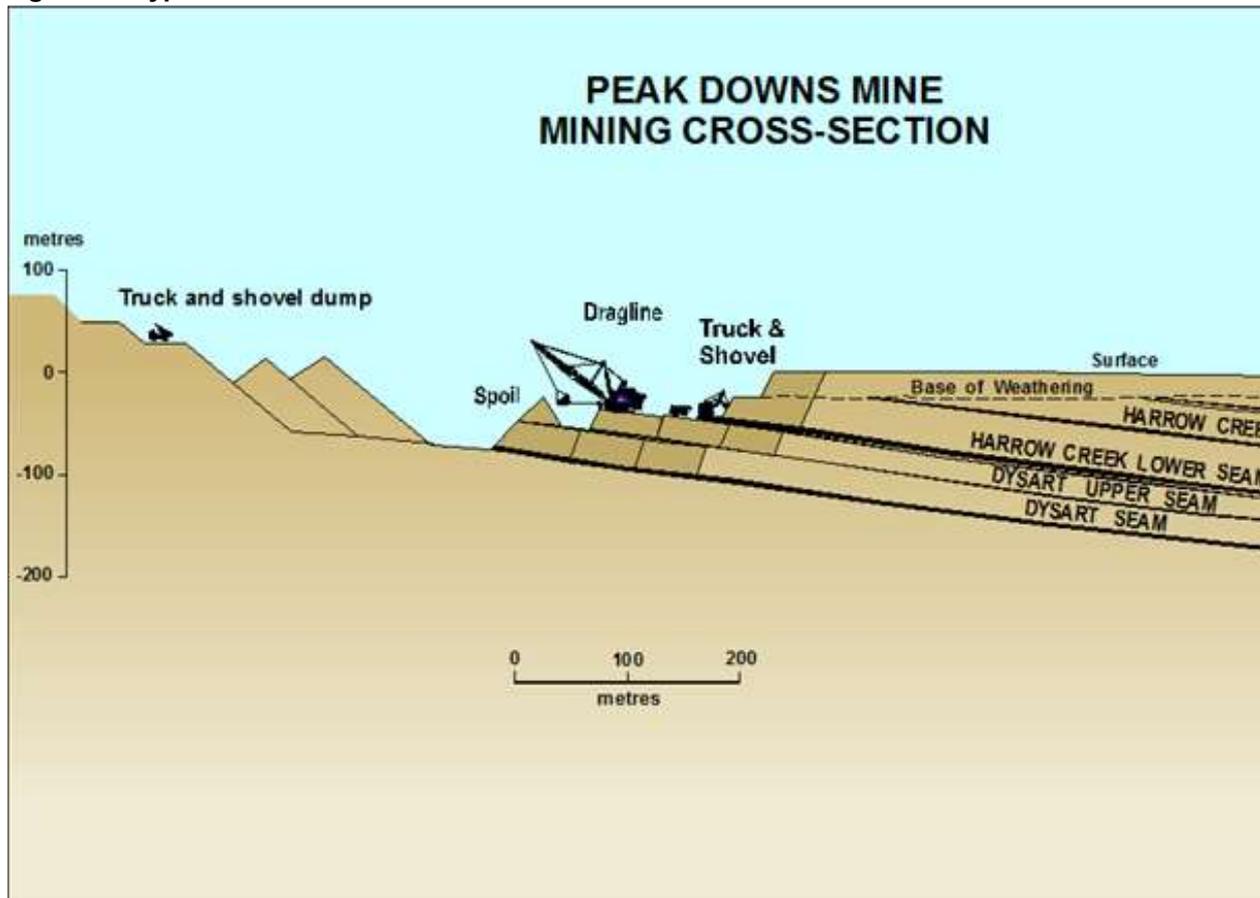
Generally the draglines will uncover from the top of a lower seam grouping (ie. in Heyford Pit, the Dysart Upper) and the first of the Harrow Creek Seams (ie. in Heyford Pit, the Harrow Creek Lower). Below this horizon, the underlying seams are uncovered by a small truck and shovel fleet. Above this horizon, large truck and shovel fleets uncover the seams encountered.

There are presently a number of areas within the mine that provide corridors for upper seam coal mining and truck shovel overburden removal. The locations of these areas mostly coincide with structural anomalies ie. faults, coked zones etc. Some Dysart Seam coal is not currently mined in these areas. The mining of coal located within these areas will occur where it is economically and technically viable to do so in future.

Once removed, the coal is hauled to the Coal Handling and Preparation Plant (CHPP) on ML 70403 (Caval Ridge West), along a network of haul roads.

Rehabilitation of the disturbed area is undertaken following mining in accordance with the requirements of the Mine's environmental authority and approved Progressive Rehabilitation Closure Plan (PRCP).

Figure 5: Typical Cross Section - All Seams Mined



1.3.1.2 Underground Methodology

Underground operations are not planned at the CVM.

1.3.2 Coal Preparation and Waste

The CHPP’s and rail-out facility for CVM are located in ML 70403.

The CHPP’s prepares the coal to export specifications using a process that sizes the coal and beneficiates it using both dense medium and froth flotation processes to remove non-coal particles.

The clean coal is stockpiled for railing to BMA’s port facilities at Hay Point and Dalrymple Bay.

Material rejected from the plants is stockpiled outside of the mined out areas while fine tailings are stored in specially constructed tailings dams.

Waste water from several sources (including: rainwater, water in tailings dams, leakage from spoil piles, ground water, and water from coal processing and wash down facilities) is fully captured on site, pumped or allowed to flow to storage dams and re-used in the coal processing plant.

The above practices will continue during the term of this IDP.

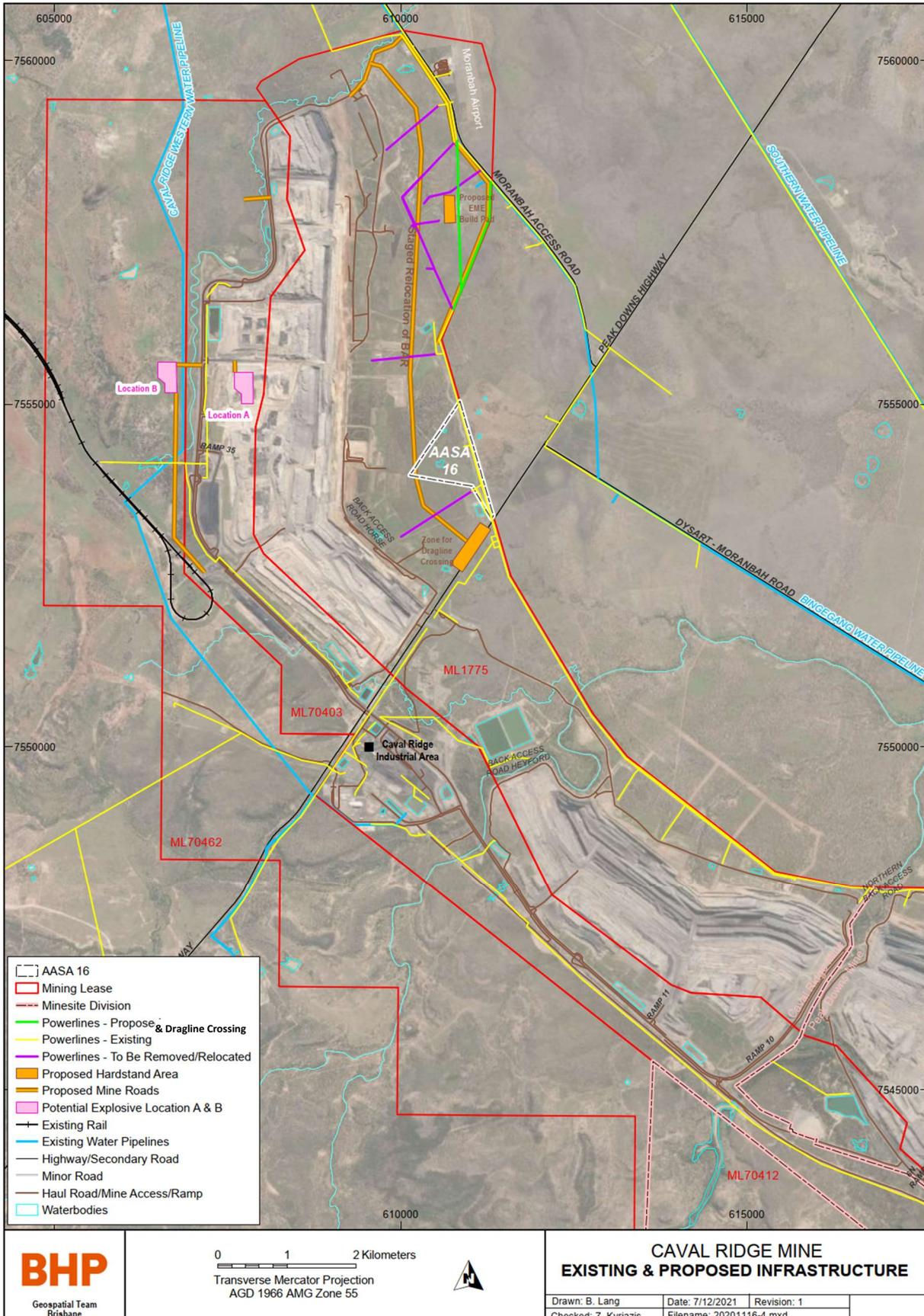
1.3.3 Infrastructure

The CVM is serviced by a significant workshop and office complexes located centrally on ML 70403, refer to Figure 6. All facilities are designed and maintained to provide safe and efficient work areas for employees and contractors and to ensure compliance with BMA’s environmental obligations including the effective treatment of waste water.

Temporary contractor workshop and administration areas are also constructed periodically in areas close to major work sites.

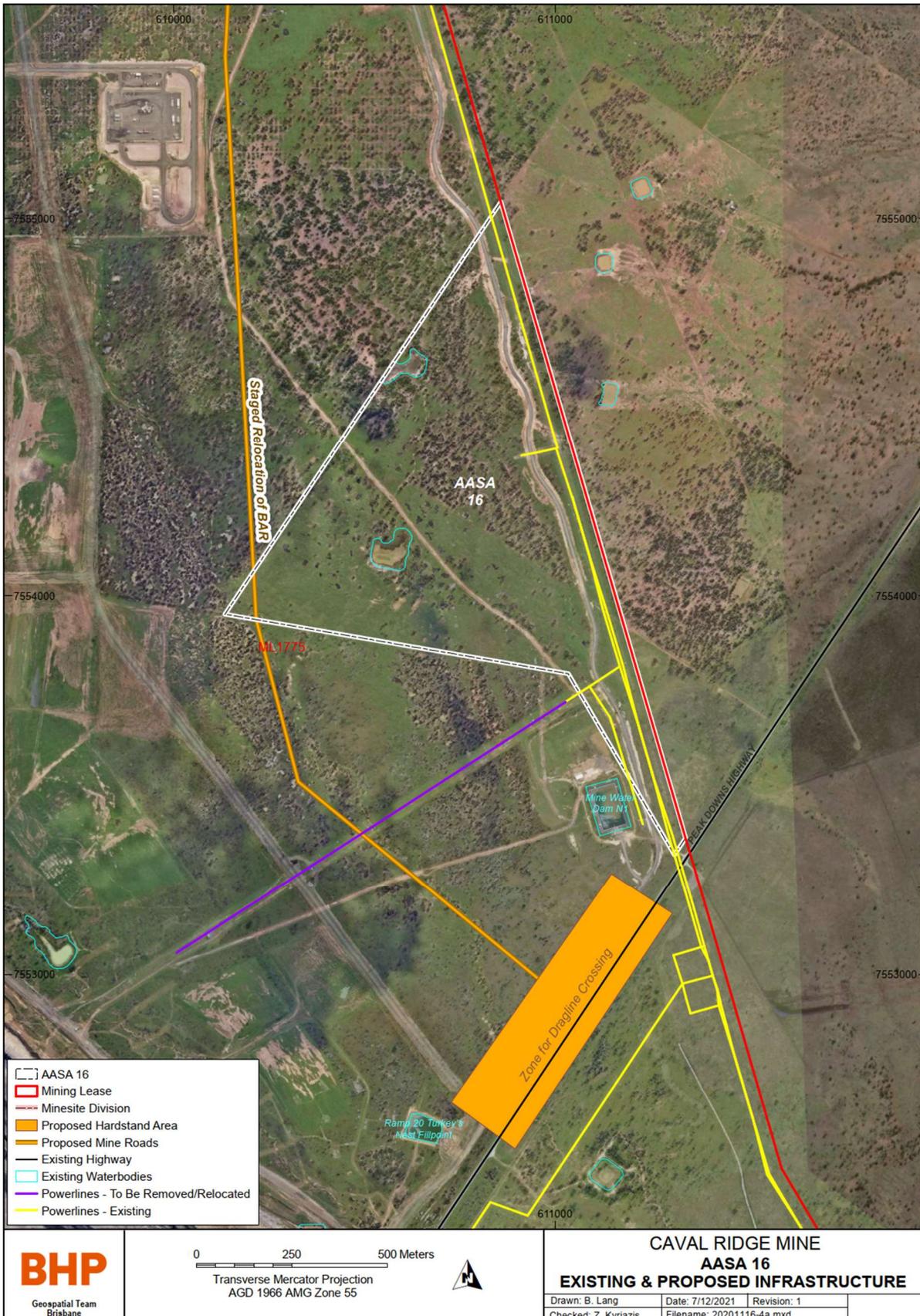
Infrastructure located within the AASA 16 area consists of 66kV power lines, water poly pipelines, dams and fences, refer to Figure 6 and Figure 7. The 66kV power line stub lines, water poly pipelines, dams and fences will require relocation prior to coal mining in FY 2035, refer to Figure 8. The new Back Access Road will also be constructed along the western side of the AASA 16 in FY 2024 as displayed in Figure 7 and Figure 8.

Figure 7: CVM and AASA 16 - Proposed Infrastructure



ML 1775 CVM – Application for Additional Surface Area 16

Figure 8: AASA 16 - Proposed Infrastructure



1.3.4 Exploration Activities

Within AASA 16, a 3D seismic survey is planned in FY 2023 to obtain structural geology information to update the CVM geological model. The 3D seismic survey is a part of a larger data collection exercise for the whole of the eastern portion of ML 1775.

As described in the approved CVM Later Development Plan, the following activities are planned at the CVM to achieve the following objectives:

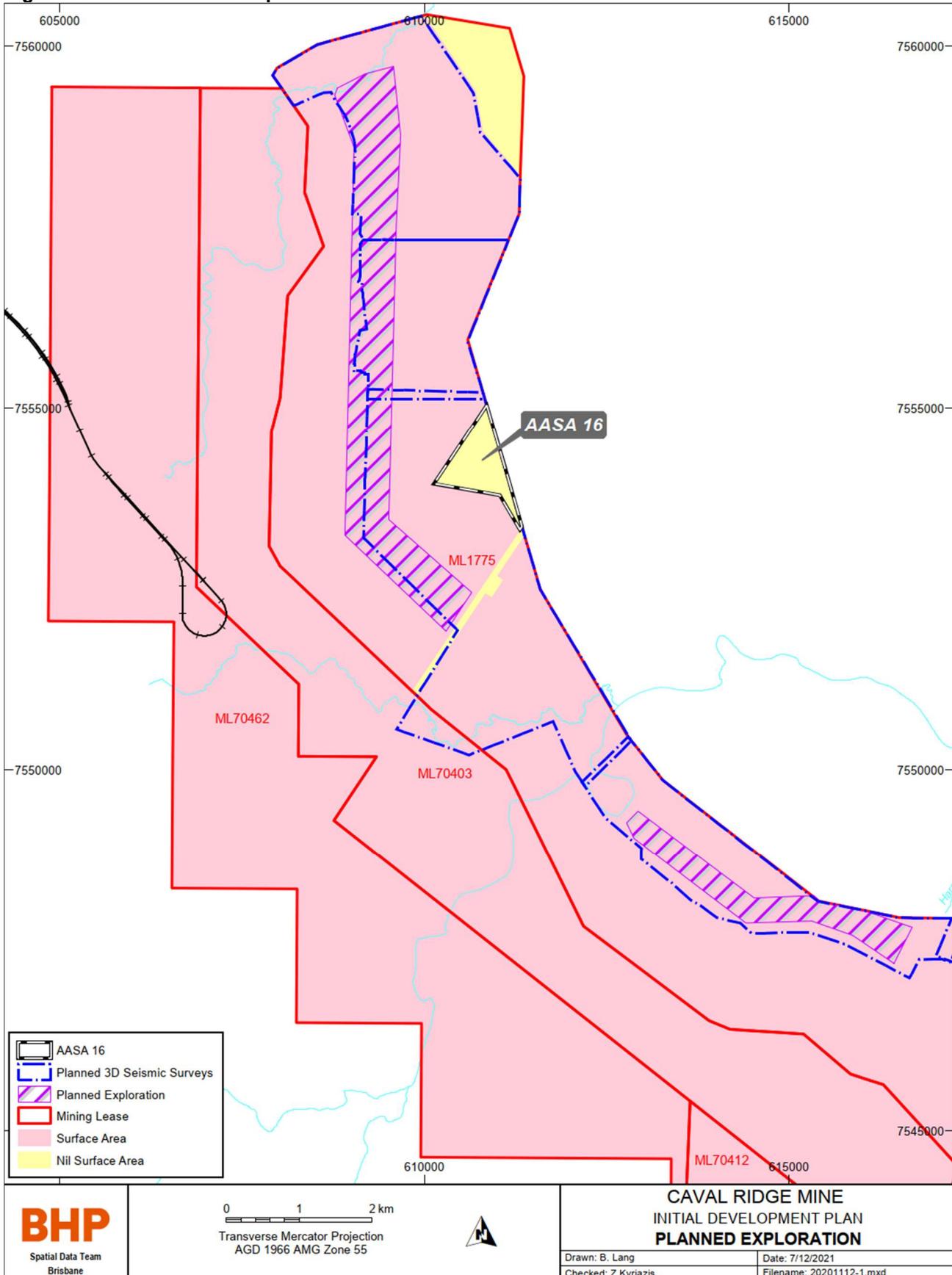
- Pre-development drilling to assess coal quality, structure, limits of oxidation (LOX), waste characterisation, reactive ground, spontaneous combustion and other geotechnical and hydro-geological information will be undertaken. This entails drilling on closed grid to increase the accuracy of top of coal estimation (accurate coal surface drilling) to ensure coal loss and dilution is minimised;
- Large diameter and PQ cored hole for coal quality analysis, washability and standardisation;
- 3D seismic survey to obtain structural geology information and update geological model

Exploration activities are summarised in the following Table 1 and shown on Figure 9.

Table 1: CVM - Planned Exploration Activities FY 2022 to FY 2026

Mine	Mining Lease	Coal Quality & Washability	Chip	Other (eg. Environmental)	Total FY2022-26	Geophysical Survey
		No of Holes	No of Holes	No of Holes	No of Holes	km ²
Caval Ridge	ML1775	36	296	13	345	16.9

Figure 9: CVM - Planned Exploration Activities FY 2022 to FY 2026



ML 1775 CVM – Application for Additional Surface Area 16

1.3.5 Gas Recovery

CSG recovery is currently not occurring at CVM based on the poor CSG prospectivity and not a primary business focus for BMA.

At the CVM, there has been a total of approximately eight (8) gas bores drilled to date of various vintages ranging from the mid-2000 through to FY 2021. The original intent of the bores varies from supporting resources stewardship to quantifying the Fugitive Gas Emissions. In addition, the bores are control points for characterising the CSG resources and to an extent the reservoir characteristics of the targeted MCM.

The present day retained gas content distribution across the strike length of the mine is relatively consistent across the main coal seams. Within proximity to the current open-cut mining areas and extending to the eastern edge of ML 1775, the gas content is relatively low; typically less than 1 m3/t with high Carbon Dioxide composition hence is of low CSG prospectivity. In addition there are Petroleum / CSG wells to the east of Caval Ridge mine which supports the low gas resources.

BMA is currently not pursuing a gas business at the CVM, whether for beneficial use or export, on the basis that it's not the core focus of the coal business and the gas resources is limited where BMA holds coal Mining Lease mineral hydrocarbon 'rights'.

Additional gas exploration and appraisal activities may be undertaken during the IDP period to characterise the gas resource for the purpose of supporting fugitive gas emissions assessment and potentially gas utilisation feasibility studies where identified. These activities may extend beyond the current active mining areas and into growth areas in alignment with the business's strategy.

[Table 2](#) below is a summary of the CSG resources associated with the MCM for each of the respective sites. The gas resources are Gross, un-risked Hydrocarbon-In-Place (HIP) in Billion Cubic Feet (Bcf), extending beyond the proposed IDP and cover only ML 1775.

Table 2: CVM - CSG Resource Ranging Analysis Results

Site	Location	Seam	HIP - Bcf			
			Low	Mid	Mean	High
Caval Ridge	ML 1775	Harrow Creek	1	2	3	4
Caval Ridge	ML 1775	Dysart	4	7	9	15
Total			5	10	11	20

1.3.5.1 Gas Recovery from Open Cut Operations

Currently coal mining operations are situated across shallow, low gas areas. The low CSG liberation is a by-product of the mining process comprising of primarily Nitrogen, Carbon Dioxide, and Methane in relative order of abundance. The quantity of gas emissions are calculated based on the existing gas dataset and mining foot print and reported annual in compliance with the NGER Act 2007 and regulation 2008.

The gas emissions from OC mining activities are not economically viable to extract and be utilised in a beneficial manner, therefore, it is envisaged that over the proposed IDP period the unintentional release of gas from the mining coal process will continue to naturally dissipate into the atmosphere until either the gas contents increase to the level where surface to in-seam drainage is viable or new technologies is developed that makes this capture economic for the purpose of commercial utilisation.

1.3.5.2 Gas Recovery from Underground Operations

No underground operations are planned at CVM during the IDP Plan Period.

1.4 Key Milestones

The following Key Milestones for the mining operation within the AASA 16 include:

- FY 2023: Government mining approval;
- FY 2025: Relocation of infrastructure (eg. power lines, water pipelines, dams etc.);
- FY 2035 to FY 2040: Open cut mining operations commence;
- FY 2051 to FY 2060: Open-cut mining operations are completed; and
- FY 2061: Rehabilitation of the area commences

The proposed timing of each of the stated activities is indicative and will be dependent upon various factors such as coal market conditions, coal products required, production improvement initiatives or production delays, and advances in technology.

2. Section 318DT(1)(b): Plan period

The Plan Period for this IDP is defined by the ML 1775 term, which expires on 31 December 2031. AASA 16 is located in the north-eastern portion of ML 1775, where open-cut coal mining production is not planned until FY 2035.

2.1 Section 318DT(1)(b)(i): Nature and extent of activities proposed to be carried out under the proposed mining lease for each year

The following description covers the proposed plan for operations for FY 2022 to FY 2026. The precise timing of the stated activities remains subject to variation in accordance with a number of factors including, but not limited to:

- Market conditions presenting opportunities for expansion or the effects of an adverse market
- Requirements for different product qualities changing blend requirements
- Major production improvement initiatives or major production delays
- Advances in technology.

For the duration of the Plan, open-cut operations will involve the exposure of coal by a combination of overburden recovery using:

- Conventional truck and shovel operations
- Dragline operations.

As the mine progresses east and down-dip, the number of seams encountered increases. These seams are mined in the natural progression east.

2.1.1 FY 2022

2.1.1.1 Mining Approval Project

The work program within the AASA 16 for FY 2022 includes:

- Preparation and submission of mining approval applications
- Stakeholder meetings and communication
- Community meetings and communication

2.1.1.2 Exploration

Exploration activities are not planned within the AASA 16 area for FY 2022.

2.1.1.3 Open Cut Coal Mining

Open cut coal mining is not planned within the AASA 16 area for FY 2022.

2.1.1.4 Gas Recovery

CSG recovery or production activity is not planned.

Undertake annual Fugitive Gas Emissions assessment and reporting in accordance to the *NGER Act 2007* as required.

Technical analysis and update of the CSG model with any recent drilling results. If material changes to resources, extraction technologies or gas market conditions are observed, then review CSG opportunity assessment.

2.1.2 FY 2023

2.1.2.1 Mining Approval Project

The work program within the AASA 16 for FY 2023 includes:

- Preparation and submission of mining approval applications
- Stakeholder meetings and communication
- Community meetings and communication
- Government mining approval anticipated for FY 2023

2.1.2.2 Infrastructure Relocation

The work program within the AASA 16 for FY 2023 includes:

- Preparation and planning for the relocation of 66kV power line stub-lines, water pipelines, dams, and fences
- Preparation and planning for the installation of the new back access road
- BHP internal approval to relocate and install infrastructure

2.1.2.3 Exploration

The work program within the AASA 16 for FY 2023 includes:

- 3D Seismic survey in the down-dip area of ML 1775

2.1.2.4 Open Cut

Open cut coal mining is not planned within the AASA 16 area for FY 2023.

2.1.2.5 Gas Recovery

CSG recovery or production activity is not planned.

Undertake annual Fugitive Gas Emissions assessment and reporting in accordance to the *NGER Act 2007* as required.

2.1.3 FY 2024

2.1.3.1 Infrastructure Relocation

The work program within the AASA 16 area for FY 2024 includes:

- Relocate 66kV power line stub-lines, water pipelines, dams, and fences
- Install the new back access road

2.1.3.2 Exploration

Exploration activities are not planned within the AASA 16 area for FY 2024.

2.1.3.3 Open Cut

Open cut coal mining is not planned within the AASA 16 area for FY 2024.

2.1.3.4 Gas Recovery

CSG recovery or production activity is not planned.

Undertake annual Fugitive Gas Emissions assessment and reporting in accordance to the *NGER Act 2007* as required.

BMA

2.1.4 FY 2025

2.1.4.1 Exploration

Exploration activities are not planned within the AASA 16 area for FY 2025.

2.1.4.2 Open Cut

Open cut coal mining is not planned within the AASA 16 area for FY 2025.

2.1.4.3 Gas Recovery

CSG recovery or production activity is not planned.

Undertake annual Fugitive Gas Emissions assessment and reporting in accordance to the *NGER Act 2007* as required.

2.1.5 FY 2026

2.1.5.1 Exploration

Exploration activities are not planned within the AASA 16 area for FY 2026.

2.1.5.2 Open Cut

Open cut coal mining is not planned within the AASA 16 area for FY 2026.

2.1.5.3 Gas Recovery

CSG recovery or production activity is not planned.

Technical analysis and update of CSG model with any recent drilling results. If material changes to resources, extraction technologies or gas market conditions are observed then review CSG opportunity assessment.

Undertake annual Fugitive Gas Emissions assessment and reporting in accordance to the *NGER Act 2007* as required.

2.1.6 Summary of Coal Seams Mined During Plan Period

Coal seams are not planned to be mined in the AASA 16 area for the Plan Period for this IDP, refer to section 2.

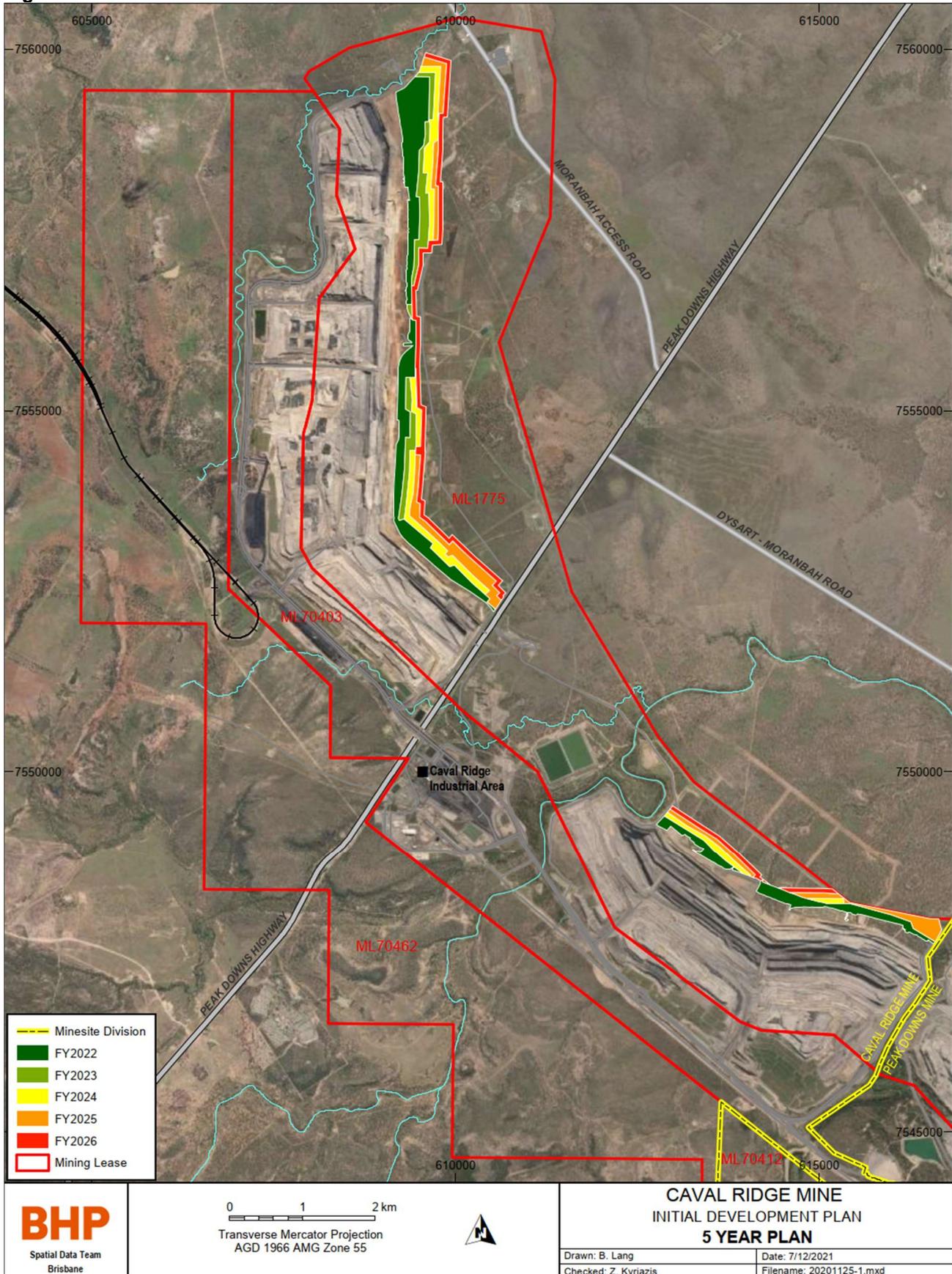
2.2 Section 318DT(1)(b)(ii): Where the activities are proposed to be carried out

[Figure 10](#): CVM - Five Year Plan for all coal seams shows the extent of workings described in the mine's current five (5) year Operations Plan for FY 2022 to FY 2026.

The precise timing of the stated activities remains subject to variation in accordance with a number of factors including, but not limited to:

- Market conditions presenting opportunities for expansion or the effects of an adverse market
- Requirements for different product qualities changing blend requirements
- Major production improvement initiatives or major production delays
- Advances in technology.

Figure 10: CVM - Five Year Plan for all coal seams



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3. Section 318DT(1)(c): For each mineral the applicant proposed to mine under the proposed mining lease each of the following:

3.1 Section 318DT(1)(c)(i): The location and an estimate of the coal resources in all of the area, or proposed area, of the proposed mining lease

3.1.1 Location and Estimation of Coal Resources and Coal Reserves

Coal resource and reserve estimates for the Caval Ridge MLs areas shown in Figure 11, and in accordance with the reporting guidelines of the 2012 Joint Ore Reserves Committee of The Australasian Institute of Mining and Metallurgy, Australasian Institute of Geoscientists, and Minerals Council of Australia (“**JORC Code 2012**”) as at end June 2021, are as follows:

Table 3: CVM - Coal Resources

Reported as at 30 June 2021 in accordance with the JORC Code 2012

Commodity Deposit	Mining Method	Coal Type	Measured Coal Resource				Indicated Coal Resource				Inferred Coal Resource				Total Coal Resources				BHP Interest %
			Mt	%Ash	%VM	%S	Mt	%Ash	%VM	%S	Mt	%Ash	%VM	%S	Mt	%Ash	%VM	%S	
Caval Ridge	OC	Met	318	12.3	22.0	0.56	216	11.9	20.1	0.56	147	11.9	18.8	0.49	681	12.1	20.7	0.54	50
	Total	Met	318				216				147				681				

The content in [Table 3](#) has been publicly reported in the BHP Annual Report 2021.

Table 4: CVM - Marketable Coal Reserves

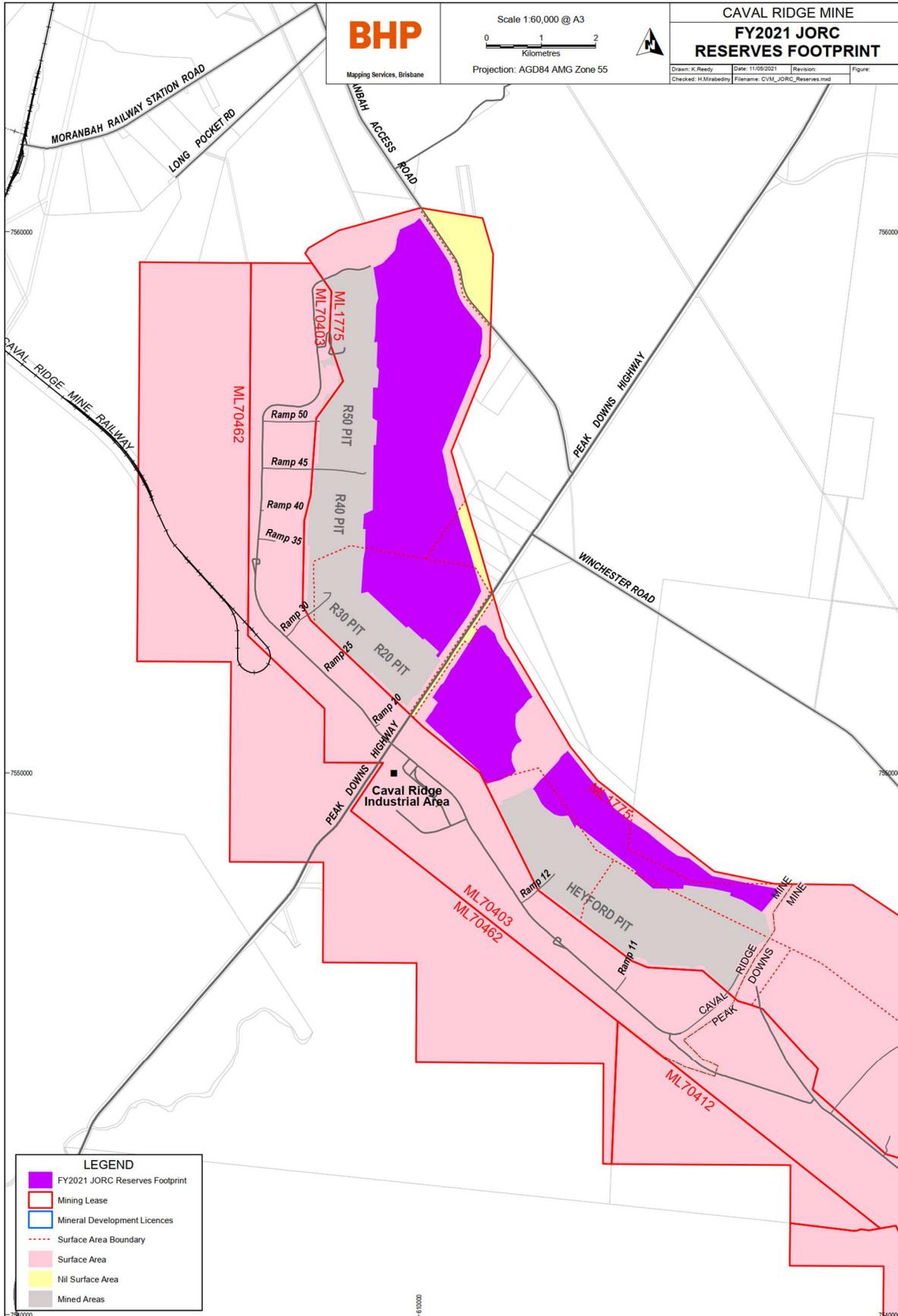
Reported as at 30 June 2021 in accordance with the JORC Code 2012

Commodity Deposit	Coal Type	Proved Marketable Coal Reserves				Probable Marketable Coal Reserves				Total Marketable Coal Reserves				Reserve Life (Years)
		Mt	%Ash	%VM	%S	Mt	%Ash	%VM	%S	Mt	%Ash	%VM	%S	
Caval Ridge	Met	128	11.0	22.3	0.57	68	11.0	22.4	0.57	196	11.0	22.3	0.57	27
	Total	128				68				196				

The content in Table 4, with the exception of the coal quality information, has been publicly reported in the BHP Annual Report 2021.

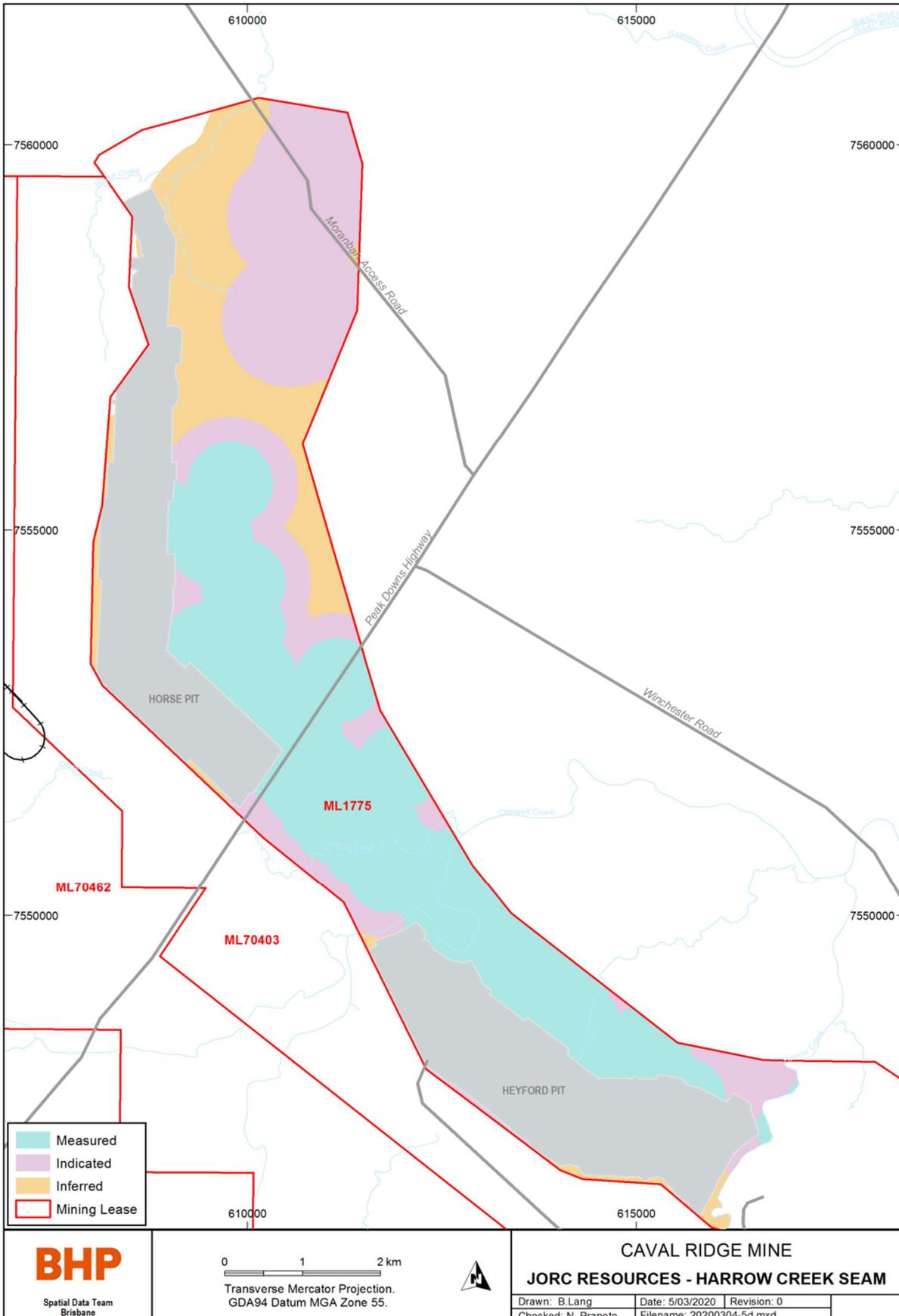
Resource maps for the Harrow Creek and Dysart coal seams are provided in Figure 12 and Figure 13, which display the location of the relevant coal seam and JORC resource definition. Appendix 1 provides individual coal seam JORC resource maps. The Harrow Creek depth and thickness plots are provided in [Figure 14](#) and [Figure 16](#) respectively. The Dysart coal seam depth and thickness plots are provided in [Figure 15](#) and [Figure 17](#) respectively. A cross section through each of the CVM open-cut mining pits is provided in [Figure 18](#).

Figure 11: CVM - FY2021 JORC Reserves



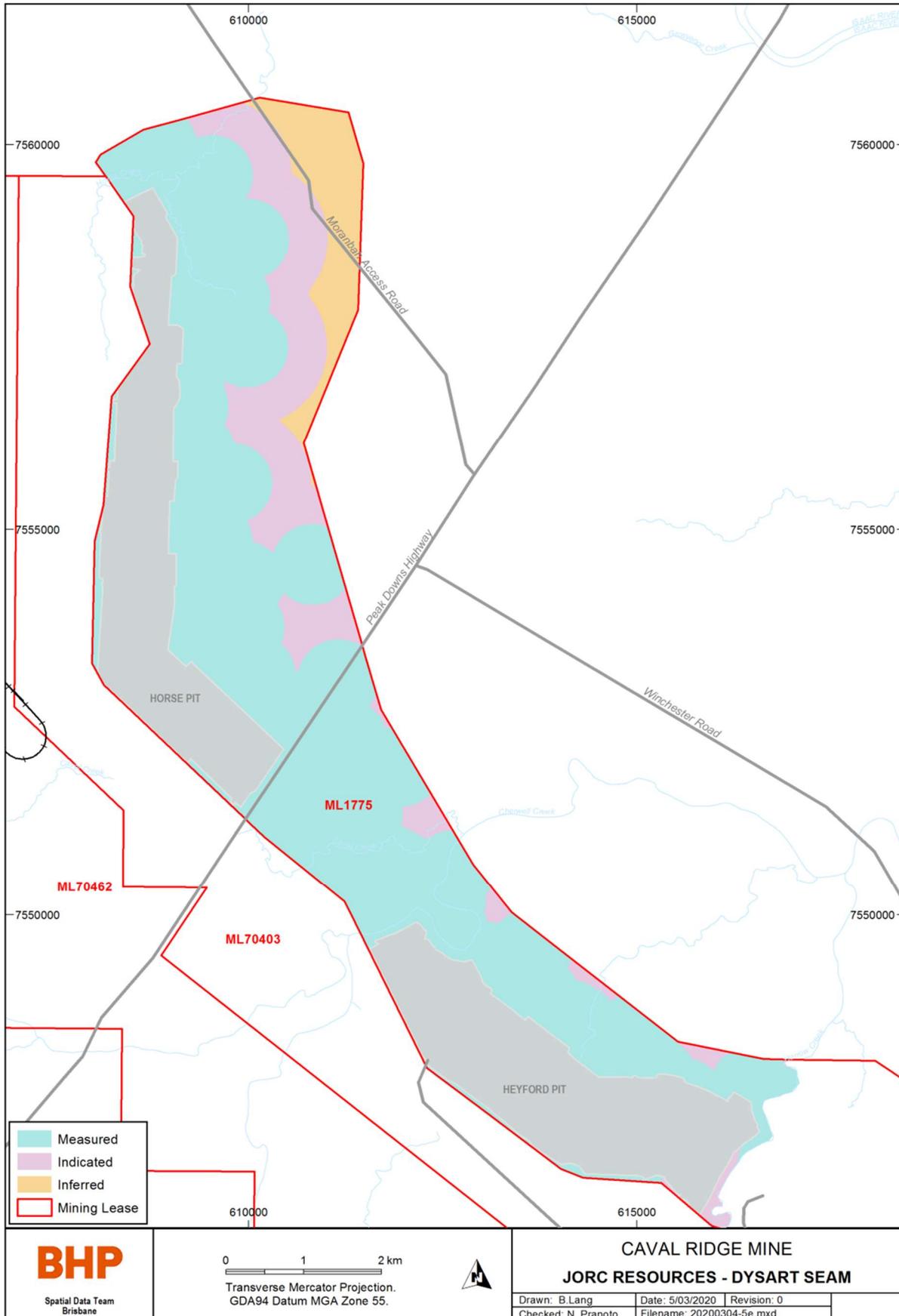
ML 1775 CVM – Application for Additional Surface Area 16

Figure 12: CVM - JORC Resources - Harrow Creek Seam



ML 1775 CVM – Application for Additional Surface Area 16

Figure 13: CVM - JORC Resources - Dysart Seam



ML 1775 CVM – Application for Additional Surface Area 16

Figure 14: CVM - Harrow Creek Seam Depth

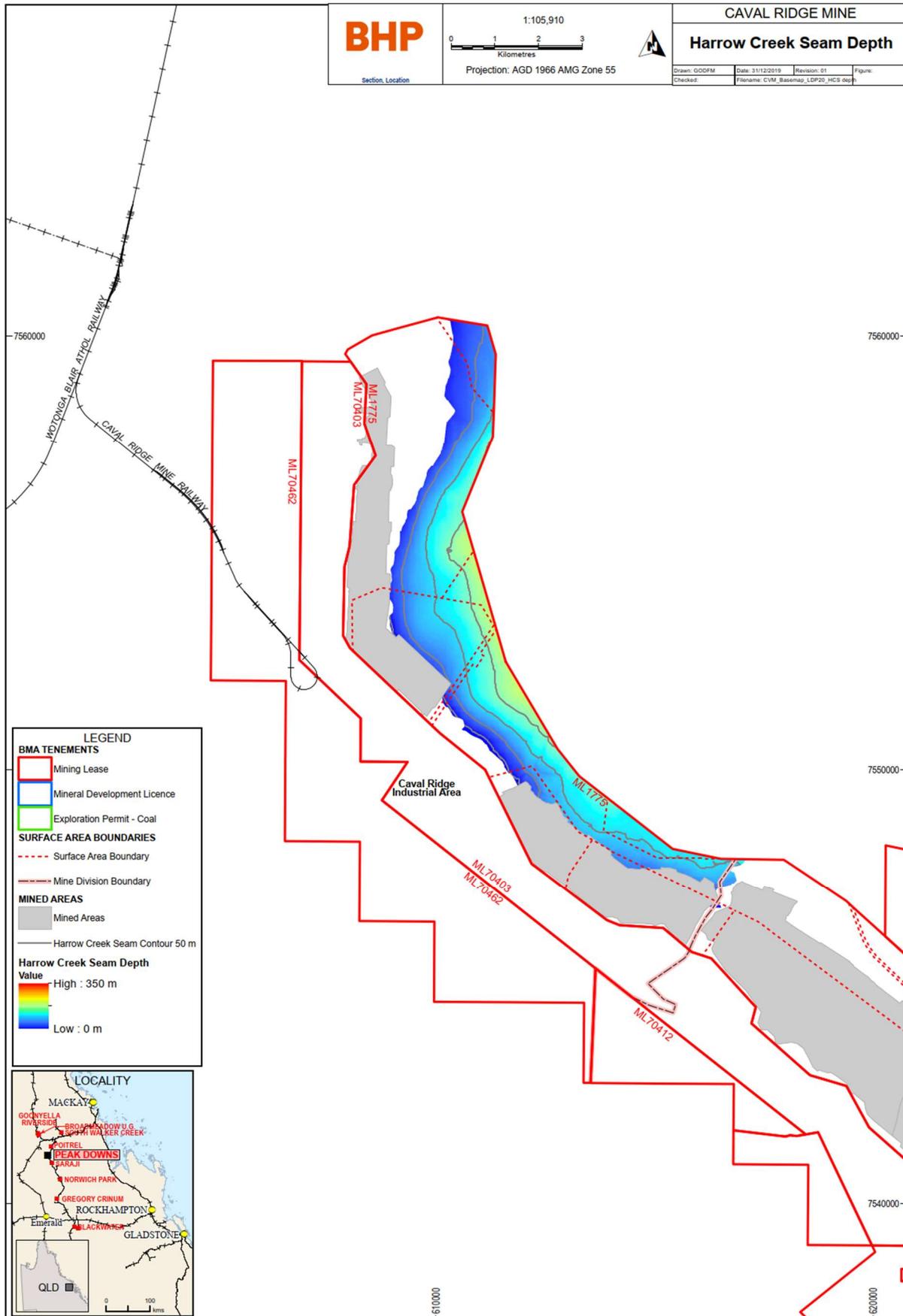


Figure 15: CVM - Dysart Seam Depth (D13 Ply)

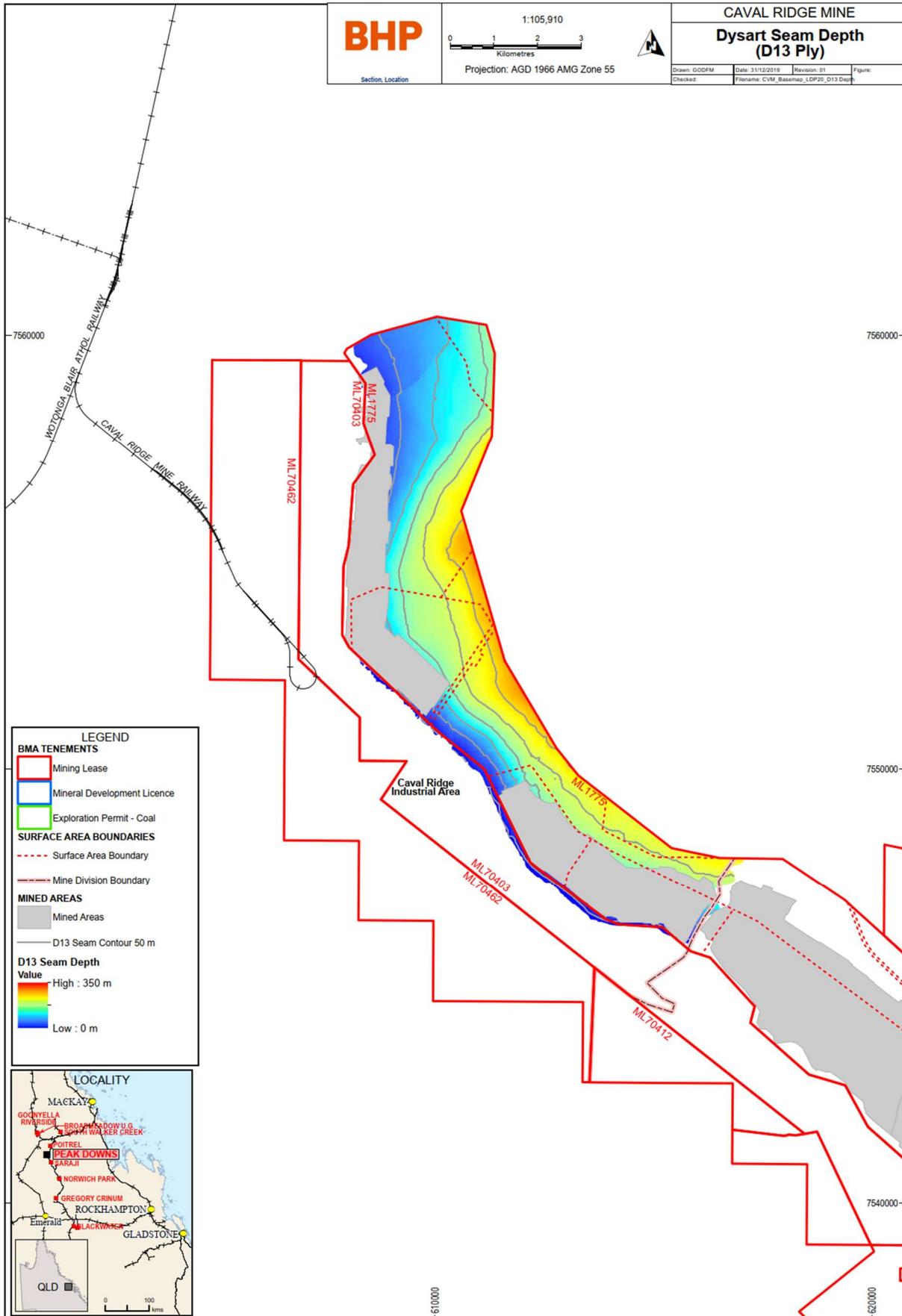
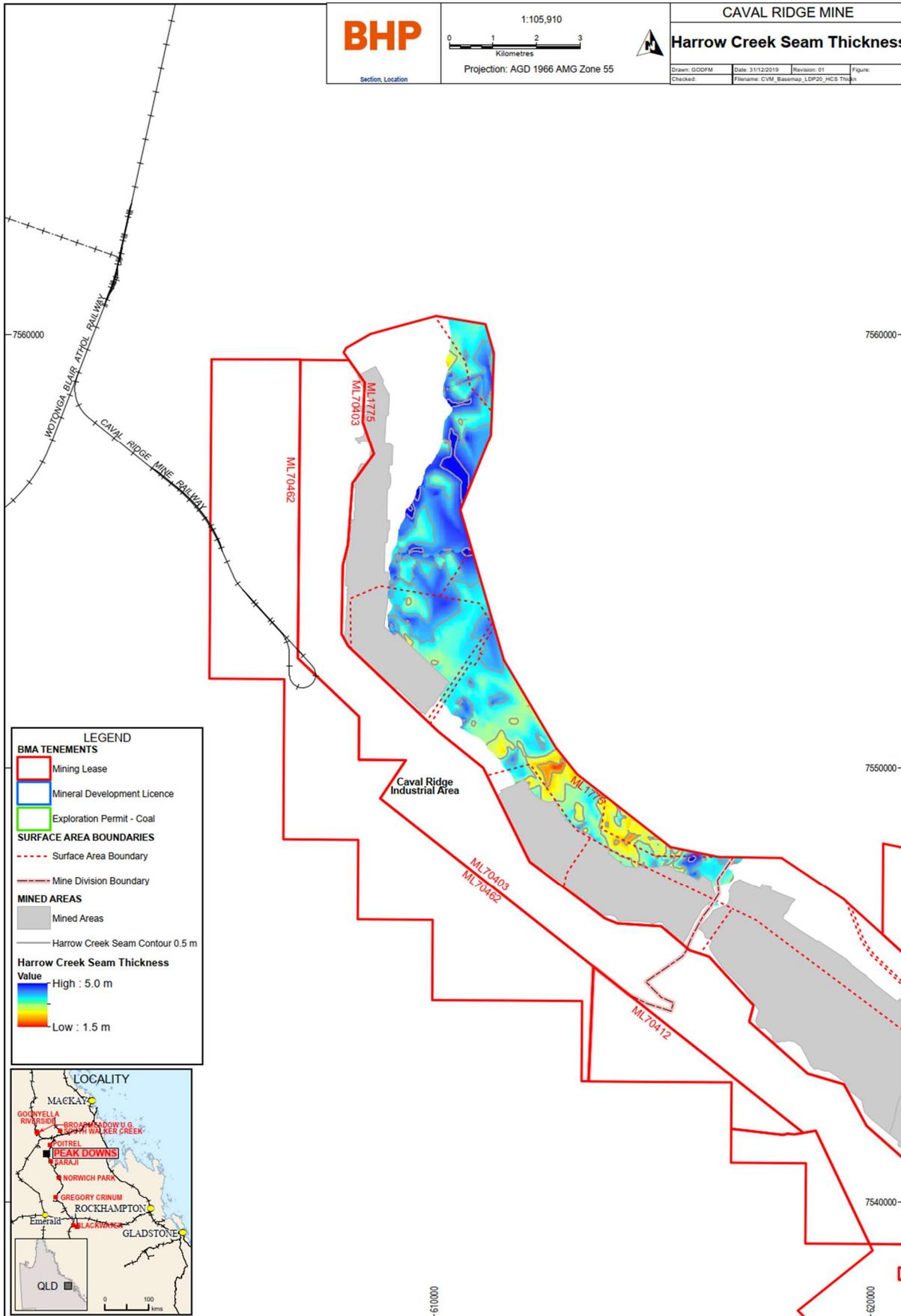


Figure 16: CVM - Harrow Creek Seam Thickness



ML 1775 CVM – Application for Additional Surface Area 16

Figure 17: CVM - Dysart Seam Thickness (D13 Ply)

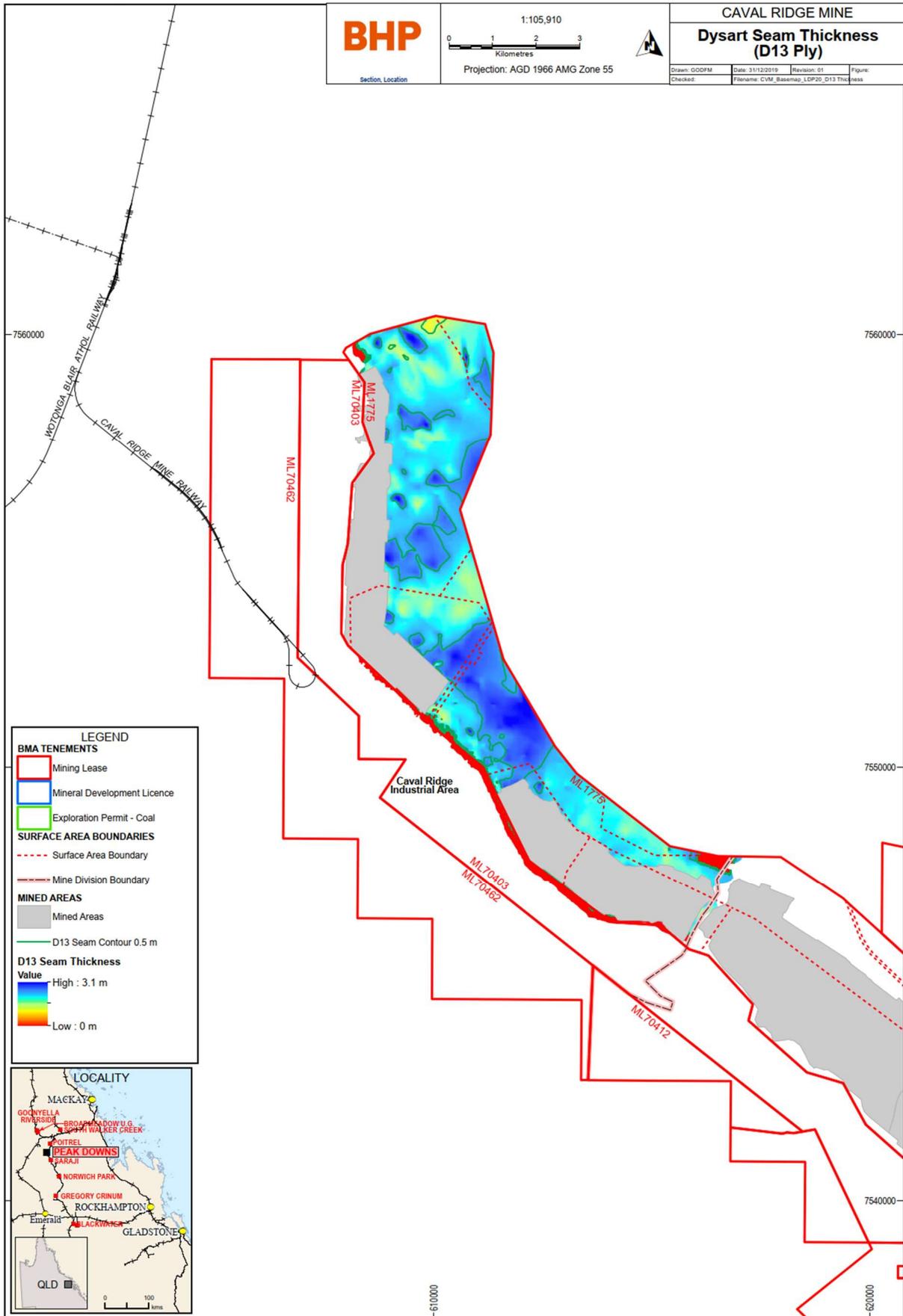
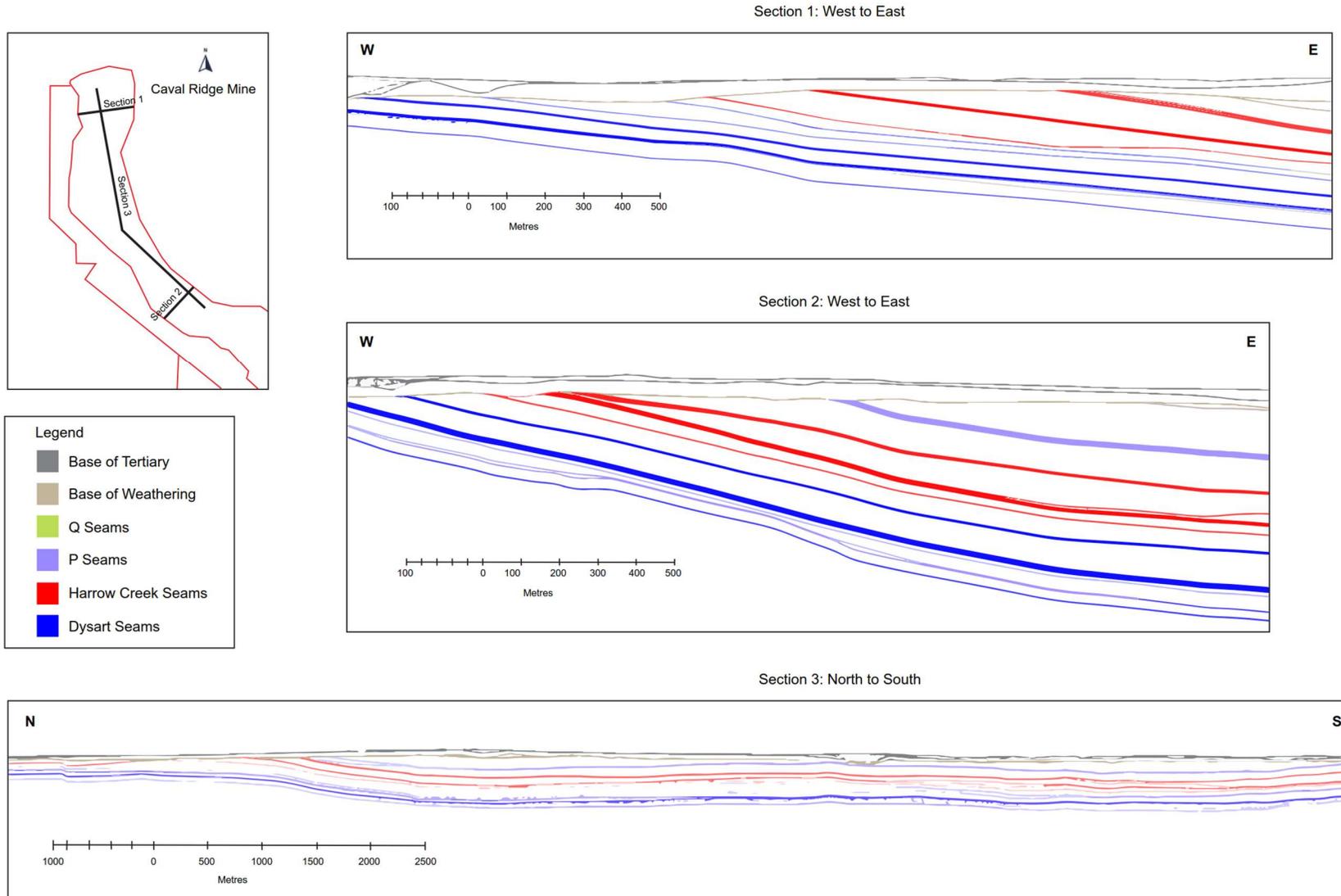


Figure 18: CVM - All Seams Geological Cross Sections



3.1.2 Location and Estimation of CSG Resources and CSG Reserves

In total, eight (8) exploration gas bores have been drilled at the CVM. In addition there are over a dozen third party CSG exploration and appraisal wells in close proximity to ML 1775 which are utilised as additional down-dip control points for the modelling of gas resources distribution.

Refer to [Figure 19](#): Locations of exploration gas boreholes across the Caval Ridge Mine

Note all coal seams intersected have a gas content of < 1 m³/t. Note that across Caval Ridge and Peak Downs the Dysart seam gas content is modelled as being < 1 m³/t.

Stochastic CSG resource ranging analyses were carried out to understand the gas resources and potential value proposition across CVM. The analysis was done utilising BMA and published third party data in proximity. The results are summarised below in Table 5 with the CSG resources estimate extending beyond the LOA mine plan.

CSG resources are Gross, un-risked Hydrocarbon In-Place (HIP).

Table 5: CVM - CSG Resource Ranging Analysis Results

Mining Lease	Mine	Seam	HIP – Bcf ¹			
			Low	Mid	Mean	High
ML 1775	Caval Ridge	Harrow Creek	1	2	3	4
ML 1775	Caval Ridge	Dysart	4	7	9	15
Total			5	10	11	20

Note: CSG resources are Gross, un-risked Hydrocarbon In-Place (HIP).

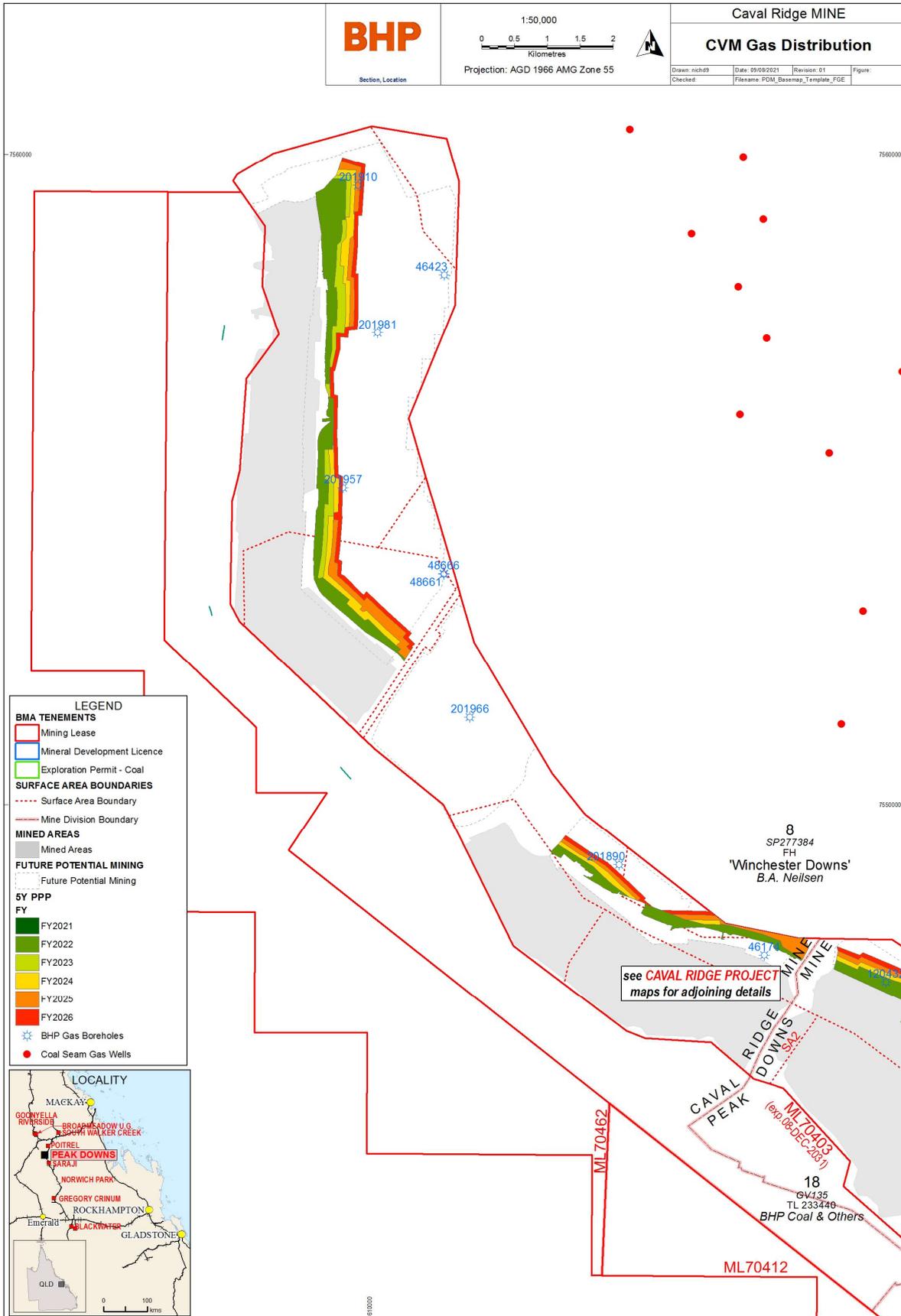
As BMA is prioritising coal mining over the CSG resources proposition, no estimated ultimate recoverable (EUR) volume or reserves has been declared, therefore the CSG resources within ML 1775 are classified as Prospective Resources.

Annual Fugitive Gas Emissions assessment for CVM employs the NGER Method 1 as the mine was commissioned post the abolishment of the carbon pricing scheme. However, with the additional gas resource characterisation boreholes drilled in FY 2021 and the resulting uplift in in-situ gas characterisation, CVM will transition to reporting fugitive gas emissions under Method 2 as outlined in the NGER scheme and support ACARP guidelines.

The estimation methodology and fugitive emissions are independently audited and certified by a third party independent auditor – KPMG is the currently the nominated auditor, prior to submission to the federal government.

¹ Note that whilst the analysis was completed for ML70411, BMA does not hold the hydrocarbon rights. CSG resources are Gross, un-risked Hydrocarbon In-Place (HIP)

Figure 19: Locations of exploration gas boreholes across the Caval Ridge Mine
 Note all coal seams intersected have a gas content of < 1 m3/t.



3.2 Section 318DT(1)(c)(ii): The standards and procedures used to make the estimate

3.2.1 Coal Resource Estimation Standards and Procedures

Borehole survey, lithology and coal quality data are stored in BHP's Geobank geological database, which is transferred to the Vulcan geological modelling software in order to generate structural models, coal quality models and Coal Resource estimates. The deposits are generally modelled on a 25 or 50 metre grid cell size (depending on deposit size), with structure modelled using the triangulation interpolator and thickness and coal qualities derived through the inverse distance method. Geostatistical studies have been carried out and krigged estimates on a suite of variables are supplied where appropriate. The resource estimates are made using the Rsvute module within the Vulcan modelling software.

Resource modelling and estimation have been carried out using the procedures defined in the BMA RPD Estimation and Reporting of Potential Mineralisation and Coal Resources Work Instruction v.7 (2014) and the Australian Guidelines for the Estimation and Classification of Coal Resources (2014 Edition).

Reporting of Coal Resources and Reserves has been carried out in compliance with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves, 2012 (JORC Code) and the BHP Tenement Management and Minerals Reporting - Our Requirement (previously Group Level Document GLD-022).

Coal Resource estimates and Coal Reserve estimates have been made by, or under the supervision of, Competent Persons as defined by the 2012 JORC Code.

3.2.1.1 Coal Resource

BMA's resource estimators are required to ensure that the coal resources are estimated and reported in conformity with:

- ASX listing rules 2012 (http://www.asx.com.au/resources/listing_rules.htm)
- December 2012 edition of "The JORC Code", which sets the minimum acceptable standard for resources quotation <http://www.jorc.org>
- 2014 edition of the Coal Guidelines (http://www.jorc.org/docs/Coal_Guidelines_2014_-_Final_Ratified_Document.pdf)

In all cases, resource estimations require Competent Persons as defined in the JORC Code.

The Coal Guidelines define points of observation as "*surface or underground exposures, bore cores, downhole geophysical logs and/or drill cuttings in non-cored boreholes*". Because both tonnage and coal quality must be known to the same level of confidence, BMA standard practice requires valid points of observation to have the following attributes:

- be geophysically logged;
- target seams cored;
- having at least 95% linear core recovery; and
- with sample analyses pertinent to the coal product being quoted as resource and where the coal requires, or is likely to require washing, the analyses must include washed yield data.

Interpretive data, such as seismic surveys, also provide evidence of continuity.

Note that support data is important in confirming coal seam continuity. Support data includes chip drill holes with down-hole logs, geophysical surveys, field mapping etc.

Where a coal seam has been evaluated geostatistically (ie. variography has been performed on appropriate domained datasets), the results of Drill Hole Spacing Analysis (DHSA) are used to determine the appropriate borehole spacing for resources classification. The DHSA method estimates global estimation precision values for annual average uncovered coal area, which should remain relatively static form one year to the next.

The global estimation precision based on the annual average coal uncovered for a five year area is used to classify resources as follows:

- Measured - +/- 10 % error @ 95% confidence
- Indicated - +/- 10% to +/- 20% error @ 95% confidence
- Inferred - +/- 20% to +/- 50% error @ 95% confidence.

For underground longwall mineable deposits, there must be a high level in structure for the resource to be classified as Measured, eg. interpretable 3D seismic coverage.

For most deposits the open-cut reserves limits and open-cut economic limits for each seam are provided by BMA Reserves Estimators (Engineers). Where this data is not available, an economic strip ratio cut-off should be sourced from the Reserves Estimator.

The following assumptions and constraints are applied in open-cut resource determination.

- Minimum seam thickness of 0.5 m unless indicated otherwise by economic assessment.
- The up-dip limit of resources will be the mined-out area. If un-mined, the full fresh LOX line shall be used for thin seams less than 1 m thick or a nominal 1 m coal thickness line in thicker seams.
- Resources shall generally only be calculated for coals having drill core product yields of 50% or greater.
- Narrow corridors and permanent bridges down dip of the current face are considered a resource.

For calculating underground Resources the following constraints are applied:

- Underground areas must be covered by 3D seismic survey to qualify for Measured resource status.
- Minimum coal thickness for underground mining is 2.0 m.
- Maximum working section height for underground mining is full seam thickness, this based on the assumption that LTCC mining methods will be used.
- Pillars are also considered as resources, unless existing data shows that there is little prospect of economic extraction due to mining constraints and geotechnical issues.

Among the parameters considered by the engineers in deciding whether a particular underground resource will be within the mining plan are:

- Maximum seam dip of 10 degrees,
- Minimum depth to cover of 60 m,
- Minimum depth of 20 m below the Base of Weathering surface,
- Minimum seam inter-burden of 20 m for multiple seam mining.

The default is to mine by open-cut, where possible, as this maximises resource extraction.

Coal Resources are reported on an *in-situ* moisture content basis for tonnage and an air dried basis for qualities.

3.2.1.2 Coal Reserve

The Coal Reserve is “the economically mineable part of the coal resource at the time of reporting”.

In generating reserve estimates, mine plans are laid out over the resource models having due consideration to the appropriate mining methodology, which in the case of open-cut mining involves dragline stripping assisted by shovel / truck pre-strip.

Areas to be mined are blocked out and coal/waste volumes and coal qualities estimated. These estimates are fed to a mine planning database where appropriate mining recovery and dilution, moisture adjustments are applied to estimate the Coal Reserve.

The coal reserves are classified as Proven and Probable with consideration given to the underlying coal resource classification and the Modifying Factors (refer JORC Code). Note that, per the JORC Code, Inferred resources may not be included in the reserves base.

CPP yields and moisture adjustments are then applied to estimate Marketable Coal Reserves. Reconciliations are conducted to confirm the validity of the mining recovery, dilution, preparation plant yields and moisture adjustments used to estimate coal reserves, and fed back into the mining operations to maximise resource extraction.

For open-cut reserves, cash margin plots are generated and the limit of economic open-cut extraction is deemed to be the limit at which the strips achieve a zero Free on Board (FOB) cash margin. Coal down-dip of this cut-off is deemed to be potentially underground mineable (refer to Section [3.2.1.2](#) on underground mine-ability of coal seams at Caval Ridge and Peak Downs Mines).

In determining the zero cash margin the following assumptions are made:

- **Revenue:** Coal prices are BMA’s long term coal price forecasts, which are based on BHP pricing protocols and exchange rate forecasts (confidential).
- **Costs:** Mine site operating and capital costs (confidential).

The mine database allows for edge, roof and floor coal loss and dilution mechanisms. These are varied depending on the seam and mining conditions encountered in each pit. The average of loss and dilution assumptions adopted for the estimation of the reserves is shown in [Table 6](#): Coal Loss and Dilution Assumptions.

Table 6: Coal Loss and Dilution Assumptions

Category	Caval Ridge	
	Loss (m)	Dilution (m)
Edge	0	0
Roof	0.125	0.02
Floor	0.023	0.11

3.2.2 Underground Reserves

Underground reserves have not been declared for CVM at this point in time.

3.2.3 Gas Resource Estimation Standards and Procedures

BHP’s gas testing protocols have been designed to address three requirements below.

3.2.3.1 Safety and Compliance

Gas testing in operational underground mines is undertaken in accordance with the site Principal Hazard Management Plan (PHMP) and Safety and Health Management System (SHMS) including obtaining data to assess the risk of outburst, development gas emission, longwall gas emission and for design of ventilation and gas drainage. This is not applicable to Peak Downs Mine or CVMs as they are open-cut operations.

To support safety in open-cut mines the same gas dataset is obtain but to a lesser degree of rigour to sufficiently understand the distribution of gas content and composition risks across the site. This will enable the identification and implementation of effective controls to support operations and exploration drilling as outline in the Flammable or Toxic Gas Standard Operating Procedure (SOP), Standard Work Instruction (SWI) and Trigger Action Plan (TARP)

3.2.3.2 Determination of Fugitive Gas Emissions

Reporting and further potential exploration will be in accordance to the following:

- The National Greenhouse and Energy Reporting (NGER) Act 2007 (the NGER Act), the National Greenhouse and Energy Reporting Regulation 2008 (the 'Regulation').
- The National Greenhouse and Energy Reporting (Measurement) Determination 2008 (the Determination).
- The ACARP Guidelines 2012 for the Implementation of National Greenhouse and Energy Reporting Method 2 or 3 for Open Cut Coal Mine Fugitive Greenhouse Gas Emissions Reporting (the ACARP Guidelines).

3.2.3.3 Assessment of CSG Resources

Coal seam resources estimation and resources classification are conducted in compliance with the Petroleum Resources Management System (PRMS); an industry standard published in collaboration by a number of internationally recognised bodies including Society of Petroleum Engineering, World Petroleum Council and American Association of Petroleum Geologists.

For the CVM, the Probabilistic resource estimation methodology was used in calculating the CSG resources, this involved building a Monte Carlo simulator capturing the key resources parameters and respective dependencies including coal prospective fairway areas, coal thickness, density, gas content and composition. The data ranges were derived from the comprehensive understanding of the coal resources distribution. The process is undertaken by a competent person with working experience of both coal and petroleum.

In alignment with PRMS the CSG resources at CVM are classified as Prospective Resources on the basis of not having demonstrated substantial gas recovery or economic value.

In addition to the immateriality of the CSG resource at CVM, BMA is also currently not pursuing a gas business, hence does not report on CSG resource to the market.

3.3 Section 318DT(1)(c)(iii): Rate and amount of the proposed mining

The CVM currently produces approximately 14 Mtpa ROM coal. [Table 7](#): CVM - Coal Production (Mtpa) describes the proposed CVM production plan for FY 2022 to 2026.

As noted above, actual production rates may differ to account for:

- Market conditions presenting opportunities for expansion or the effects of an adverse market
- Requirements for different product qualities changing blend requirements
- Major production improvement initiatives or major production delays
- Advances in technology.

Table 7: CVM - Coal Production (Mtpa)

Coal Seam	Method	Coal Tonnage	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
P	Open Cut	ROM	3.1	2.1	0.6	1.0	3.3
Harrow Creek		ROM	4.3	4.2	7.1	5.9	5.5
Dysart		ROM	7.5	7.8	6.3	6.6	5.6
Total		ROM	15.0	14.2	14.0	13.6	14.4
		Product	8.6	7.9	8.0	7.8	8.0

3.4 Section 318DT(1)(c)(iv): Approximately when the proposed mining is to start

The LOA mine plan highlights that open-cut coal mining operational activities in the AASA 16 area is estimated to commence from FY 2035 to 2040. Mining activities planned within AASA 16 are beyond the current ML 1775 term, expiring on 31 December 2031. Refer to Sections [1.1.2](#): and [1.1.3](#): for more detail.

As noted above, actual start date may differ to account for:

- Market conditions presenting opportunities for expansion or the effects of an adverse market
- Requirements for different product qualities changing blend requirements
- Major production improvement initiatives or major production delays
- Advances in technology.

3.5 Section 318DT(1)(c)(v): Schedule for the proposed mining during the plan period

Plans showing the location and timing of the proposed mining are included under [Section 318DT\(1\)\(b\)\(i\)](#): Nature and extent of activities proposed to be carried out under the proposed mining lease for each year. Open-cut coal mining is not planned within AASA 16 during the current ML 1775 term. Mining infrastructure will require relocation in FY 2024 prior to coal uncover, with scheduled coal mining in FY 2035.

4. Section 318DT(1)(e): Any other information relevant to the criteria mentioned in section 318EF of the MRA

Section 318DT(1)(e) of the *Mineral Resources Act 1989* requires the *Development Plan* to address “any other information relevant to the criteria mentioned in Section 318EF”. Section 318EF in turn refers back to Section 318EA. The requirements of these various sections have been addressed in other parts of this Plan, as set out in Table 8 below:

Table 8: Compliance with Requirements of Section 318DT(1)(e)

Section	Description of requirement	Location in IDP
318EA(2)(a)	The potential of the area of the proposed mining lease for each of the following- (i) Mining (ii) Each other purpose for which the lease is sought	Section 3, 4
318EA(2)(b)	Nature and extent of activities	Section 3
318EA(2)(c)	When and where the activities are proposed to be carried out	Section 3
318EA(2)(d)	Whether the mining will be optimised in the best interests of the State	Section 4
318EA(2)(e)	CSG assessment criteria	Sections 1.3.5, 3.12, 3.2.3
318EF (a)	The criteria under section 318EA for deciding whether to approve a proposed IDP	See above
318EF (b)	The extent to which the current development plan for the mining lease has been complied with	Not Applicable
318EF (c)	The CSG assessment criteria	Sections 3, 4
318EF (d)	The effect of any approval of the proposed plan on any relinquishment condition for the mining lease	Not Applicable
318EF (e)	If the proposed plan provides for a significant change that is a cessation or reduction of mining or other purposes for which the mining lease is granted – (i) Whether the cessation or reduction is reasonable and (ii) Whether the mining lease holder has taken all reasonable steps to present the cessation or reduction	Not Applicable

4.1 Section 318EF (b): The extent to which the current development plan for the mining lease has been complied with

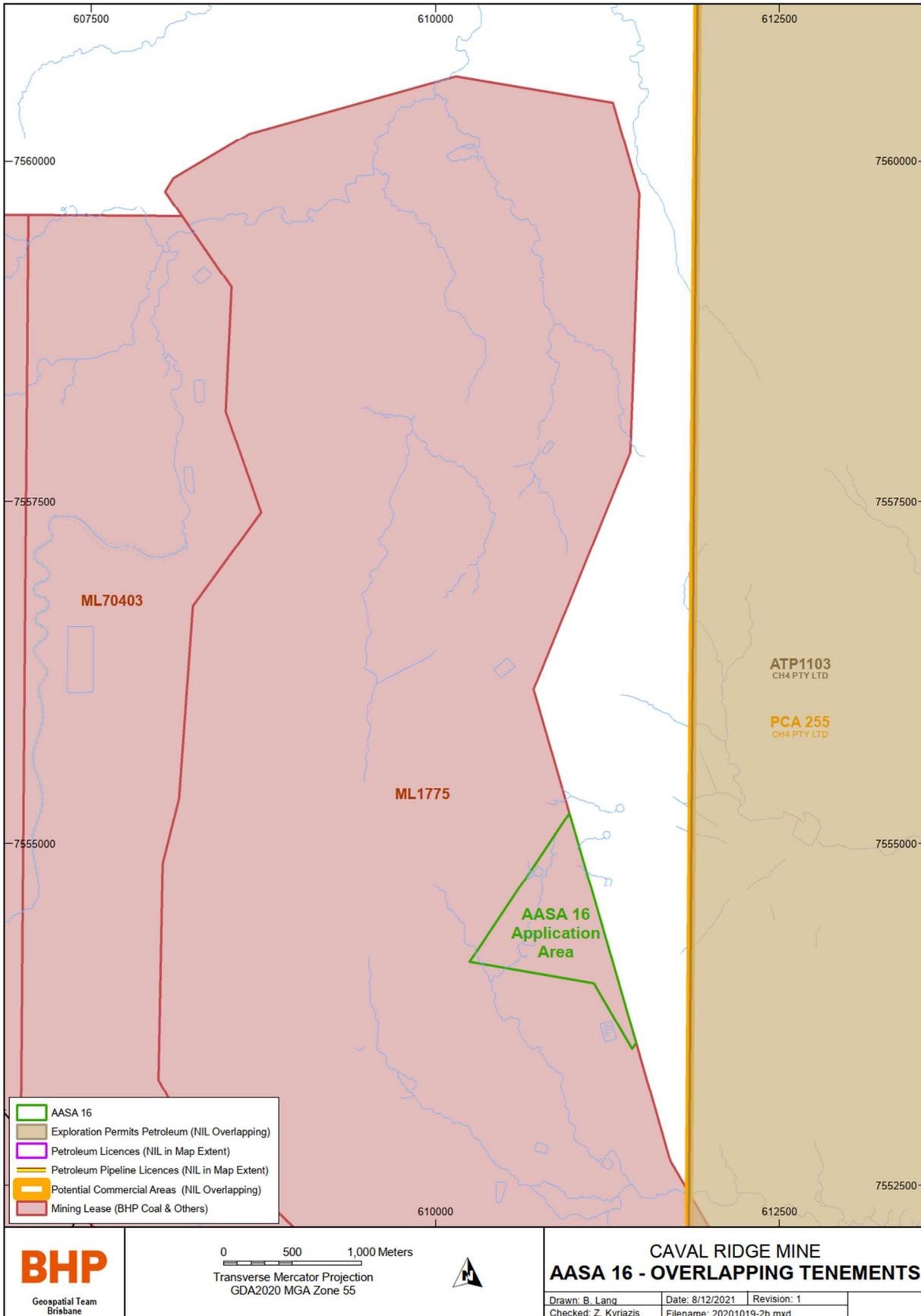
This is the first IDP for the AASA 16 area within ML 1775, and this section is not applicable as there is not any previous development plan to reconcile or comply with for this surface area application.

4.2 Section 318EF (c): The CSG assessment criteria

There are no overlapping petroleum resource authorities within the AASA 16 area, refer to [Figure 20](#) below. A CSG Statement and CSG Assessment Criteria are not required to be provided.

ML 1775 covering the coal producing Caval Ridge, Peak Downs and Saraji mines is a coal and mineral hydrocarbon authority (MHCML).

Figure 20: ASAA 16 - Overlapping Petroleum Authorities



4.3 Section 318EF (d): The effect of any approval of the proposed plan on any relinquishment condition for the mining lease

There are not any known effects of any AASA 16 proposed plan approval on any relinquishment condition for ML 1775, and this section is considered not applicable.

4.4 Section 318EF (e): If the proposed plan provides for a significant change that is a cessation or reduction of mining or other purposes which the mining lease is granted

The proposed Plan does not provide a significant change that involves the cessation or reduction of mining or other purposes, which the mining lease is granted, and this section is considered not applicable.

4.5 Section 318EA (2) (d): Whether the mining will be optimised in the best interests of the State

As demonstrated in Sections 1, 2 and 5, the approach outlined in this IDP will optimise the mining of coal which is the subject of the ML 1775 to which this Plan relates, in the best interests of the State, having regard to the public interest, including:

- The future Plan contemplates further investment in, extension of current production, including through proposed mining of new areas and adoption of new technologies.
- By doing so, it will:
 - Provide significant royalty revenue to the State.
 - Provide employment.
 - Have other flow-on benefits to the Local and State economies (including through the expenditure required for continuing and expanding existing operations).

The Plan contemplates CSG production, which remains commercially unviable, and further endeavours to determine how CSG can be used or commercialised in a way which is feasible in the context of ML 1775 to which this Plan relates, will be re-evaluated should prospectivity change.

5. Section 318DT(1)(f): Reasons why the plan is considered appropriate

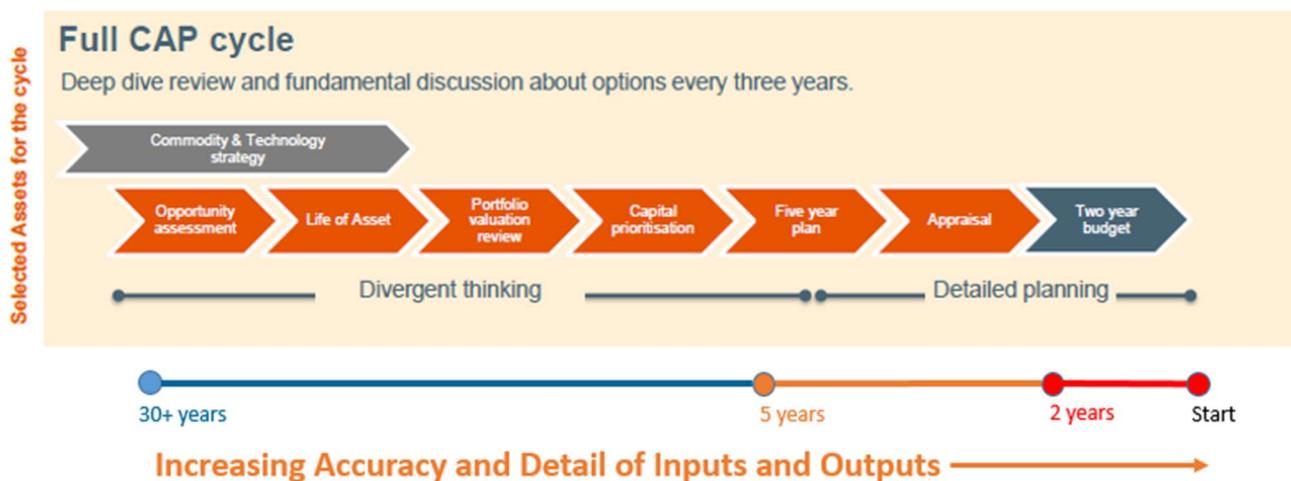
5.1 BHP's Approach to Mine Planning

BHP's world class planning and optimisation process has three core components:

- The *Life of Asset Plan* considers alternative development strategies for each project (mine) area from which a preferred development strategy is selected. The alternatives typically consider alternative mining methods and mine layouts, product specifications and potential synergies between mining methods and product qualities with the objective of maximising the value extracted from the entire resource. The life of asset optimised base plan develops the selected alternative in further high level detail and forms the basis of shorter term plans and business investment decisions. The *Life of Asset Plan* covers the life of the mine or 30 years at a maximum in cases where life is expected to be greater than 30 years.
- The *5 Year Plan* develops the first five years of the *Life of Asset Plan* in considerably more detail and forms the basis for execution of activities on the mine. The expected market tonnage and quality requirements form the basis of the plan within a range to take into account potential variation in market and operational requirements.
- The *2 Year Budget* is prepared annually and includes significant detail on all activities and is based on all relevant market and operational conditions.

Figure 21: *Planning Cycle* sets out BHP's planning process, including, on a relative basis, the level of accuracy and detail of each plan.

Figure 21: BHP-BMA Planning Cycle



Mineral hydrocarbon resources may represent a potential source of value for BHP and its key stakeholders. At sites where studies show that the extraction of hydrocarbons is technically and commercially viable, BMA will incorporate this into the planning cycle to optimise the extraction process of both coal and hydrocarbons and to ensure the value of the managed resource base is maximised.

5.2 The Caval Ridge Mine Plan

The CVM Plan is considered appropriate for the following reasons:

- Current open-cut mining operations at Caval Ridge commenced eight (8) years ago, and is formed on forty three (43) years of accumulated mining history of Peak Downs.
- The mine layout is designed to further continue open-cut coal mining operations at depth in the multiple seam pits for an expected mine life in excess of thirty (30) years
- The approach to the open-cut mine plan allows for flexibility as the knowledge base improves.
- All significant coal seams are mined.

- State of the art mining methods are used to maximise resource recovery.
- Production levels prescribed by the strategies in the Plan fully utilise installed coal processing capacity.
- Gas prospectivity within the mines is currently not commercially viable but where warranted studies will be undertaken to re-examine the technical and commercial viability of extracting gas resources.
- The optimum mix of mining methods is continually considered for Life of Mine as part of the BMA 5 Year Plan process.

6. Section 318DT(1)(g): Another matter prescribed under a regulation

At the time of writing (December, 2021), there were not any matters prescribed under the *Mineral Resources Regulation 2013* that require addressing for the AASA 16 IDP.

7. Section 318DV: Statement about interests of relevant petroleum tenure holder

7.1.1 Effects on Any Overlapping or Adjacent Petroleum Tenure Holders

There are not any overlapping petroleum resource authorities within the AASA 16 area, refer to [Figure 20](#) above. A CSG Statement and CSG Assessment Criteria are not required to be provided.

ML 1775 (Caval Ridge, Peak Downs and Saraji Mines) is a coal and gaseous hydrocarbon mining authority (MHML), and therefore only subject to adjacent petroleum resource authorities. Arrow Energy is the primary “Gas Party” operating adjacent to ML 1775 with Authority to Prospect (ATP) 1103 (formerly ATP 364 held by BHP Coal) and Petroleum Lease Application (PL) 485. PL 485 is related to the Eagle Downs Project, which is owned by the Bowen Central Coal Joint Venture (BCCJV), the participants in which are Bowen Central Coal Pty Ltd (50%), a subsidiary of Vale Australia Holdings Pty Ltd, and Aquila Coal Pty Ltd (50%), a subsidiary of the Australian listed mining company Aquila Resources Ltd.

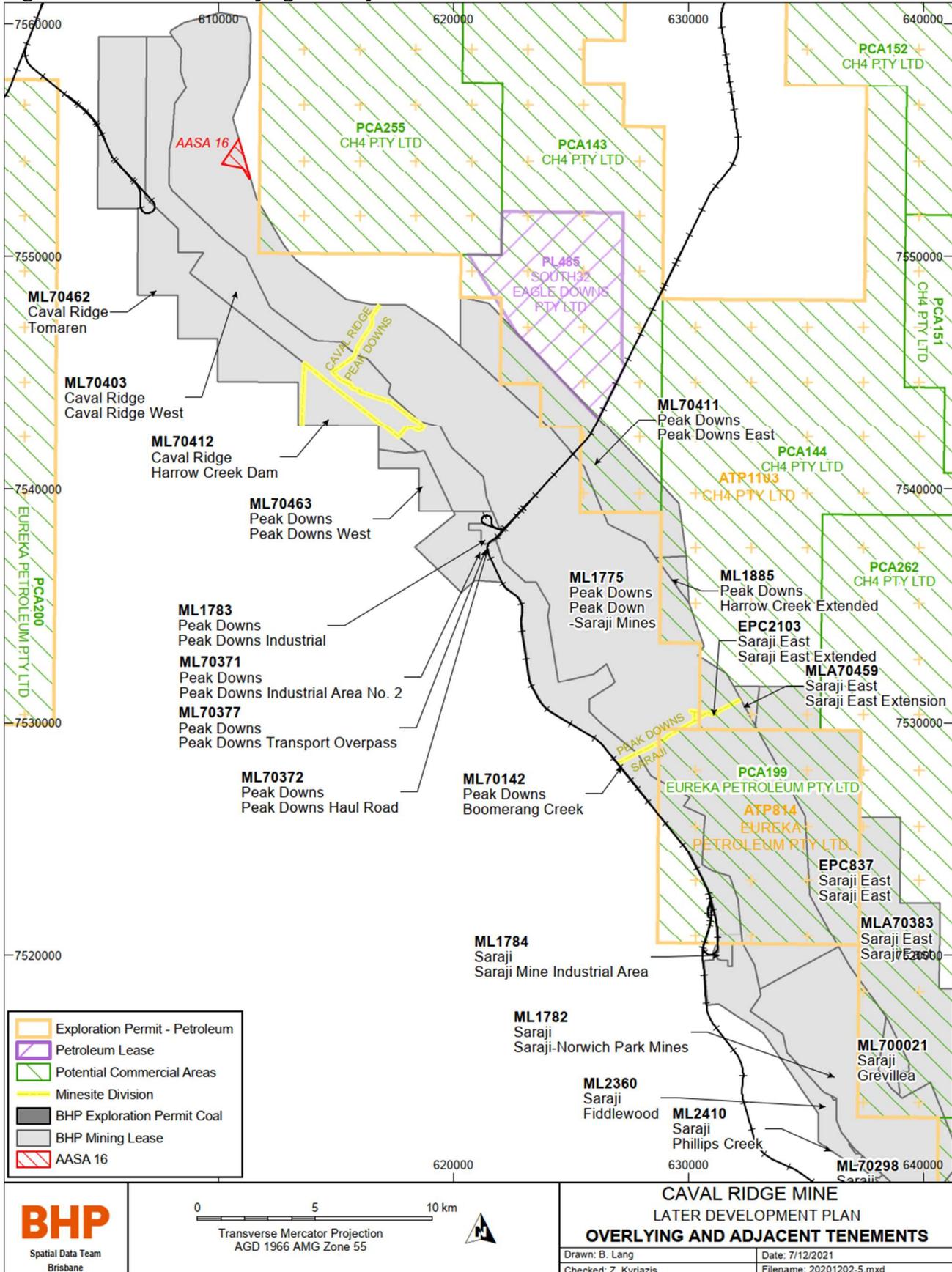
[Table 9: Overlapping or Adjacent Petroleum Authority Holders](#) sets out overlapping and adjacent petroleum authorities associated with the Peak Downs and Caval Ridge Mines with the locations shown on [Figure 22: ML 1775 - Overlying and Adjacent Petroleum Authorities](#)

Table 9: ML 1775 - Overlapping or Adjacent Petroleum Authority Holders

Mining Lease	Hydrocarbon Rights	Associated Petroleum Authority	Holder/s	Nature of Association	Pre-MERCP	Post MERCP
MHML 1775	Yes	PCA 255	CH4 Pty Ltd	Adjacent	-	-
		ATP 814 / PCA 199	Eureka Petroleum Pty Ltd	Adjacent	-	-
		ATP 1103 / PCA 143, PCA 144	CH4 Pty Ltd (0.7%); Arrow CSG (ATP364) Pty Ltd (0.3%); and AGL Energy Limited (99%)	Adjacent	-	-
		Vacant	N/A	N/A	-	-

Annual engagements are held between BMA and the Petroleum authority where CSG overlap BMA’s tenements or more regularly where our activities interact. Current gas volumes, within areas where we hold hydrocarbon rights, are currently not considered prospective, however, should BMA identify potentially prospective volumes in future mining areas BMA will go through our Corporate Alignment Planning Process and BHP’s Global Investment Process to ascertain the commercial viability for capital investment.

Figure 22: ML 1775 - Overlying and Adjacent Petroleum Authorities



8. Section 318DW: Requirement to optimise use of incidental CSG

The strategy BMA is undertaking to manage incidental CSG involves four key areas.

1. Gas resources characterisation to ascertain the requirement of gas management to support safe coal mining operations
2. Assess the potential for onsite beneficial gas utilisation where viable
3. Minimise the Fugitive Gas Emissions where economical and sustainably possible
4. Collaborate with Petroleum Operators to realise the value of the gas resources ahead of mining

Across the CVM, gas exploration drilling by BMA and adjacent petroleum operators has occurred to quantify the gas resources which has indicated the ability to sustainably and economically capture and utilise the incidental gas associated with the Open Cut coal mining process is not viable. This is further reinforced by decline in focus on CSG activities in proximity to the mine.

Based on the low gas contents and associated methane concentrations, the annual Fugitive Gas Emissions from the open-cut mines is deemed to be low; currently below the QLD default emission factor and is forecasted to continue on this trend over the later development Plan Period with the majority of the forecasted mining areas occurring in low in-situ gas areas ($< 1 \text{ m}^3/\text{t}$).

BMA has continued communications with the principal holders of each relevant overlapping and adjacent petroleum tenure with a view to determining, where it is commercially and technically feasible to do so, how to optimise the development of the State's resources and to protect any overlapping holders' operations and investment. The communications are ongoing at present and BMA undertakes to advise the State's Department of Resources of the outcome of those discussions as soon as they are known.

9. Section 318DX: Consistency with petroleum lease development plan and relevant coordination arrangement

There are not any petroleum resource authorities that overlap the AASA 16, refer to Figure 20 above, which means there is not any third party petroleum lease development plans or coordination arrangements to consider for AASA 16. BMA does not have a CSG development plan for MHML 1775, as the ability to sustainably and economically capture and utilise the incidental gas associated with the open-cut coal mining process is considered non-viable (refer to Section 8 above).

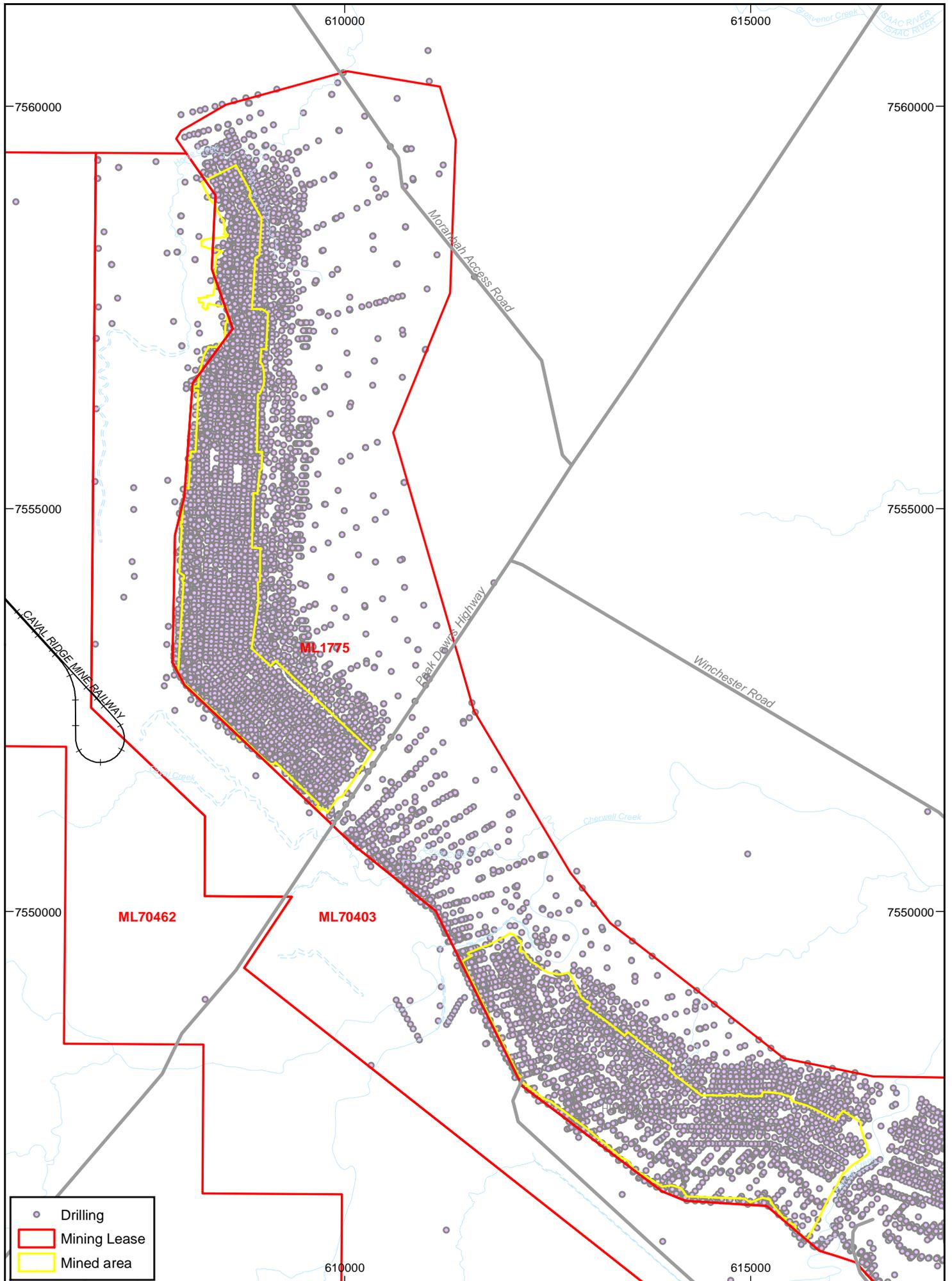
Consequently, there are not any CSG development plans nor coordination arrangements to consider or review for consistency with the AASA 16 open-cut coal mine plan.

10. Section 760: Additional Requirements for proposed development plan for a Mineral Hydrocarbon Lease

BMA continues to examine the viability of CSG commercialisation activities, including beneficial use across all BMA's MHMLs in the Bowen Basin. Should it prove viable (based on CSG resource definition work, implications for coal mining and negotiations with potential service providers), BMA will seek to commercialise CSG on its MHMLs.

To date the gas resources assessment of Caval Ridge open-cut mine, based on the existing gas dataset, has shown that across the ML the CSG resources is currently deemed to be unviable for commercialisation. BMA will continue to monitor improvements in technologies and market developments and regularly review the commercialisation potential of the CSG resources across its portfolio of assets.

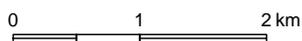
Appendix 1: JORC Resource Maps



	Drilling
	Mining Lease
	Mined area

BHP

Spatial Data Team
Brisbane

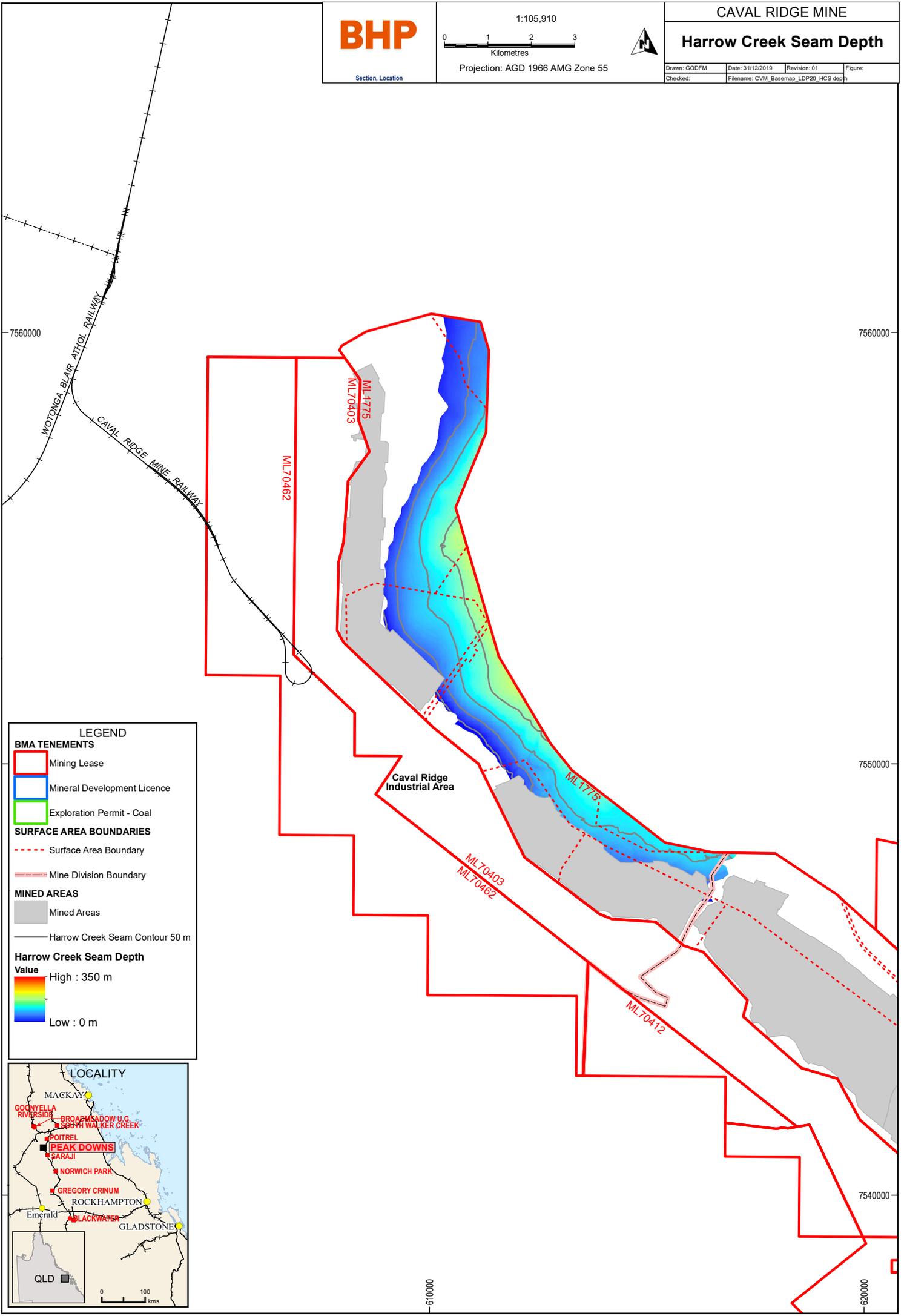


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



**CAVAL RIDGE MINE
DRILLING COVERAGE**

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: 20200609-9a.mxd	



LEGEND

BMA TENEMENTS

- Mining Lease
- Mineral Development Licence
- Exploration Permit - Coal

SURFACE AREA BOUNDARIES

- Surface Area Boundary
- Mine Division Boundary

MINED AREAS

- Mined Areas
- Harrow Creek Seam Contour 50 m

Harrow Creek Seam Depth Value

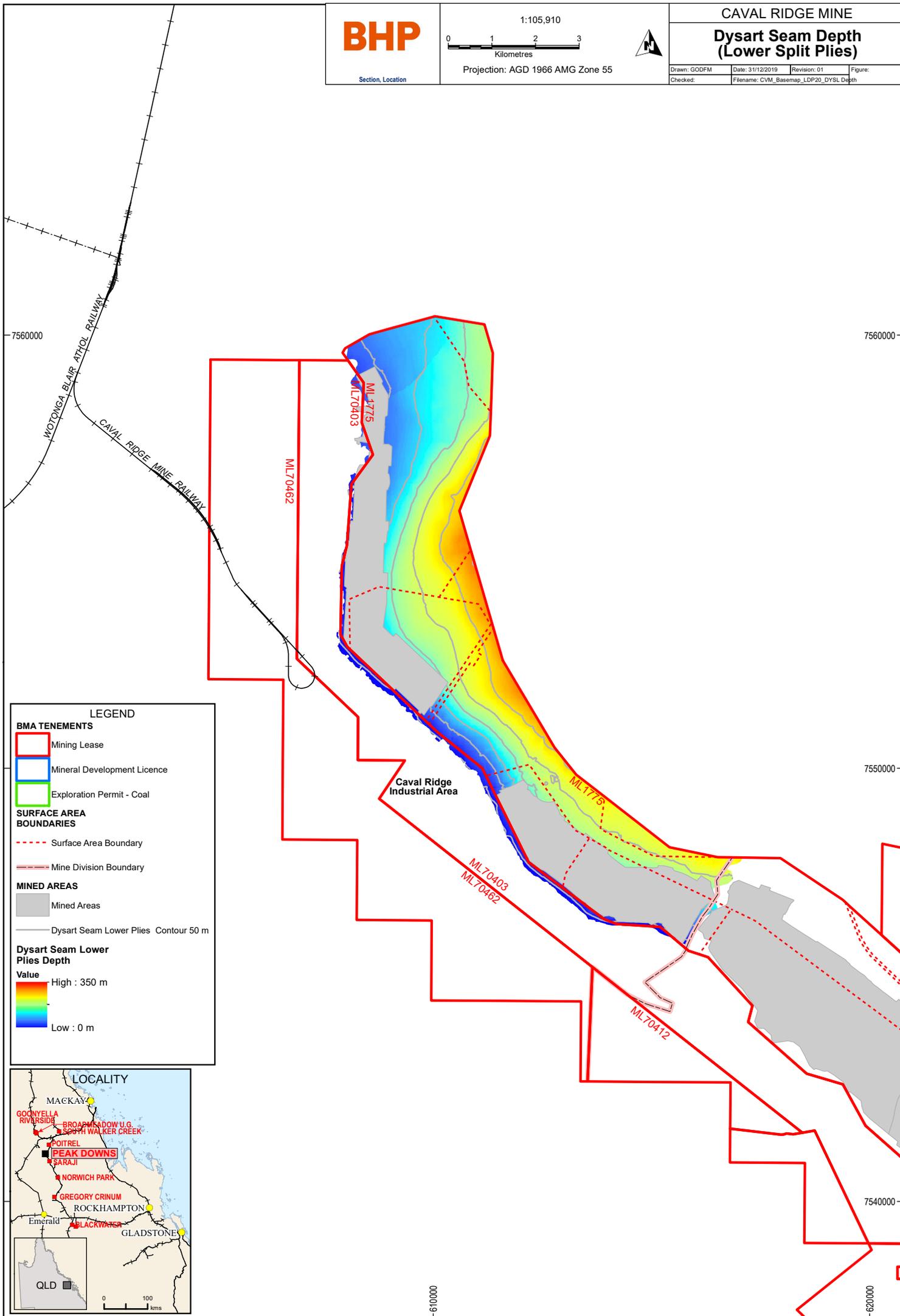
High : 350 m

Low : 0 m





Dysart Seam Depth (Lower Split Plies)



LEGEND

BMA TENEMENTS

- Mining Lease
- Mineral Development Licence
- Exploration Permit - Coal

SURFACE AREA BOUNDARIES

- Surface Area Boundary
- Mine Division Boundary

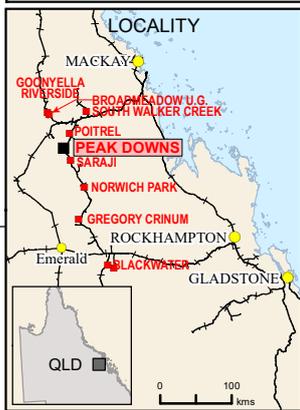
MINED AREAS

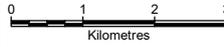
- Mined Areas
- Dysart Seam Lower Plies Contour 50 m

Dysart Seam Lower Plies Depth

Value

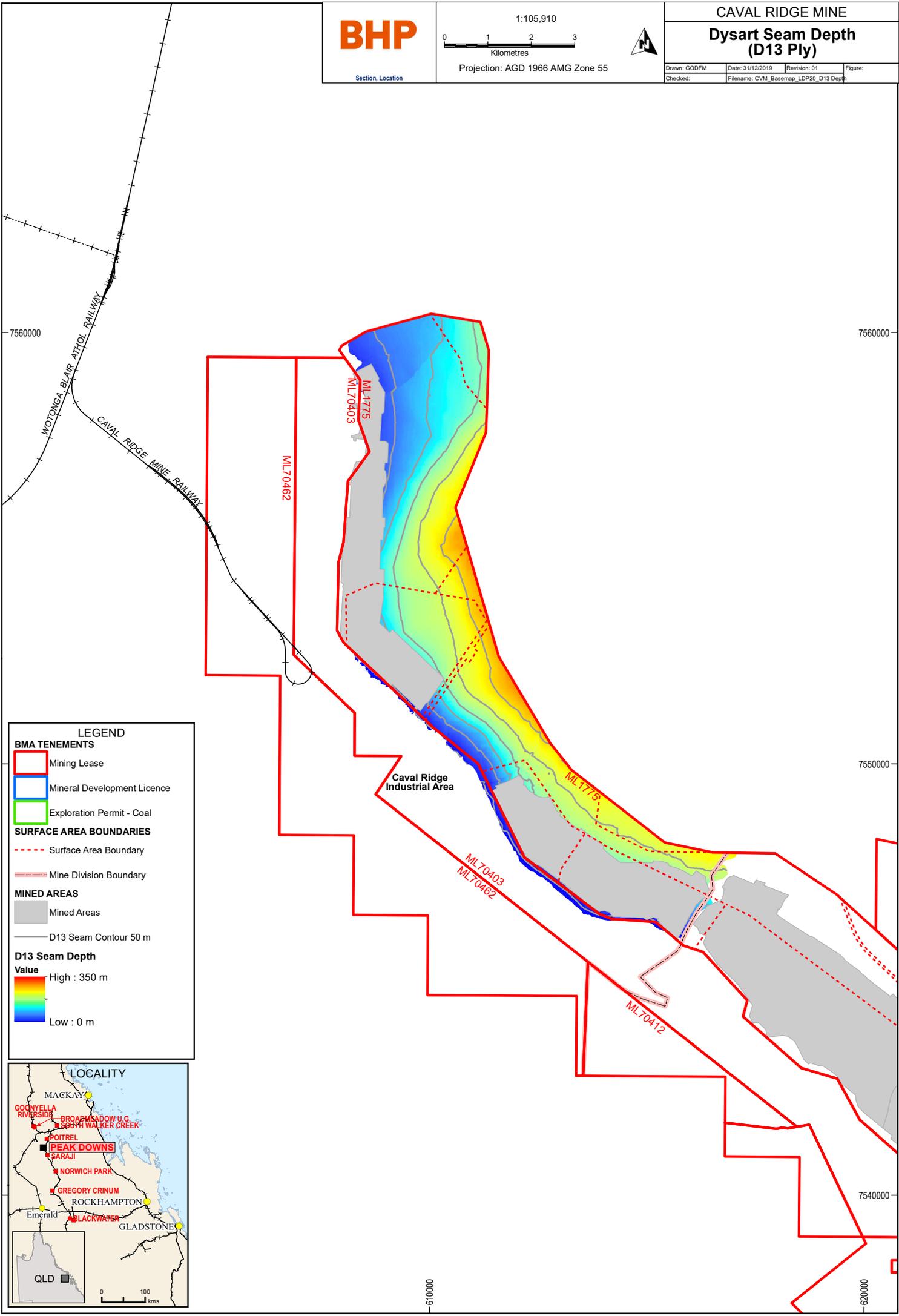
- High : 350 m
- Low : 0 m





Dysart Seam Depth (D13 Ply)

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LEGEND

BMA TENEMENTS

- Mining Lease
- Mineral Development Licence
- Exploration Permit - Coal

SURFACE AREA BOUNDARIES

- Surface Area Boundary
- Mine Division Boundary

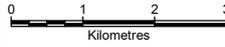
MINED AREAS

- Mined Areas
- D13 Seam Contour 50 m

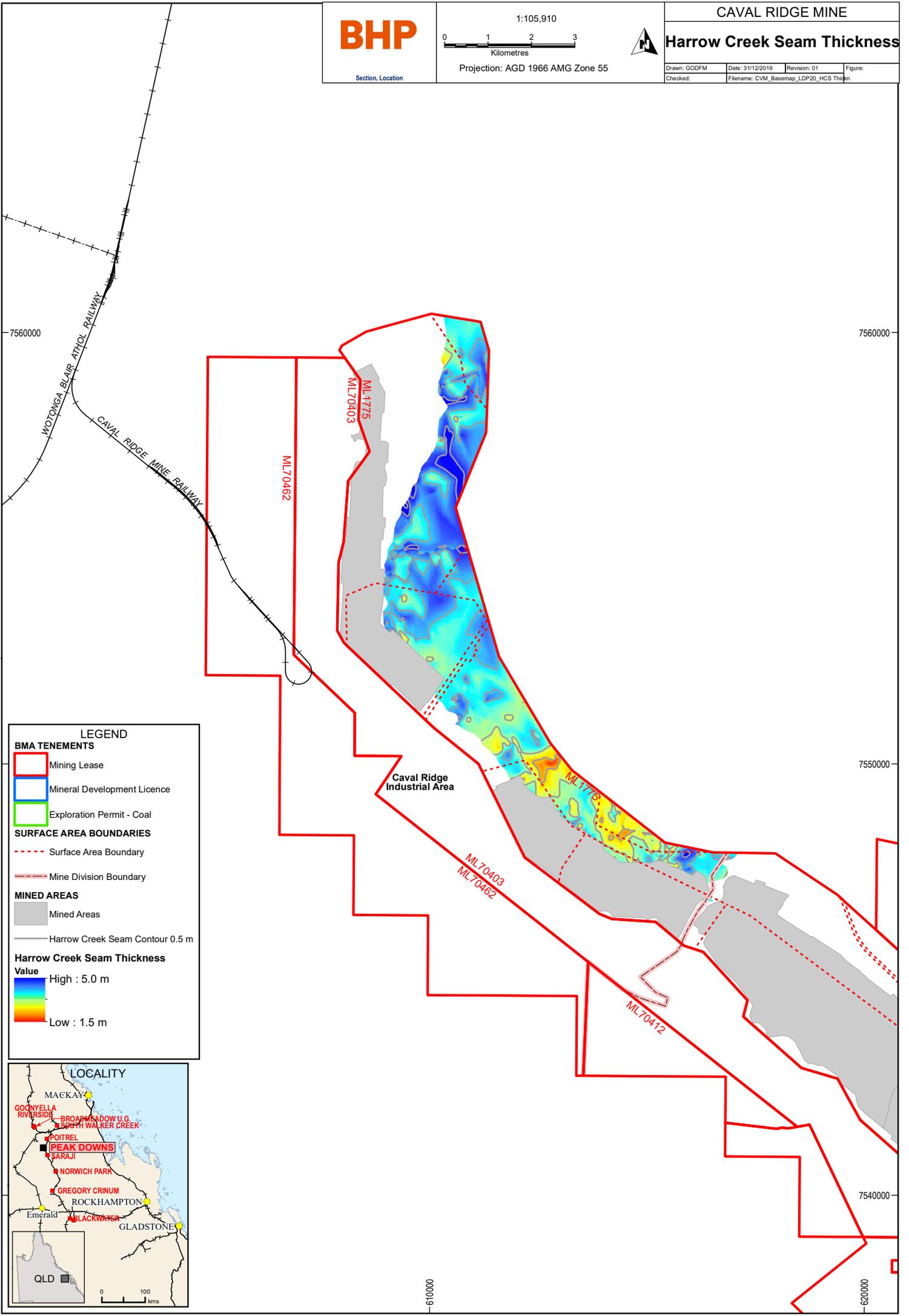
D13 Seam Depth Value

High : 350 m
Low : 0 m





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LEGEND

BMA TENEMENTS

- Mining Lease
- Mineral Development Licence
- Exploration Permit - Coal

SURFACE AREA BOUNDARIES

- Surface Area Boundary
- Mine Division Boundary

MINED AREAS

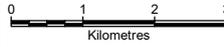
- Mined Areas
- Harrow Creek Seam Contour 0.5 m

Harrow Creek Seam Thickness

Value

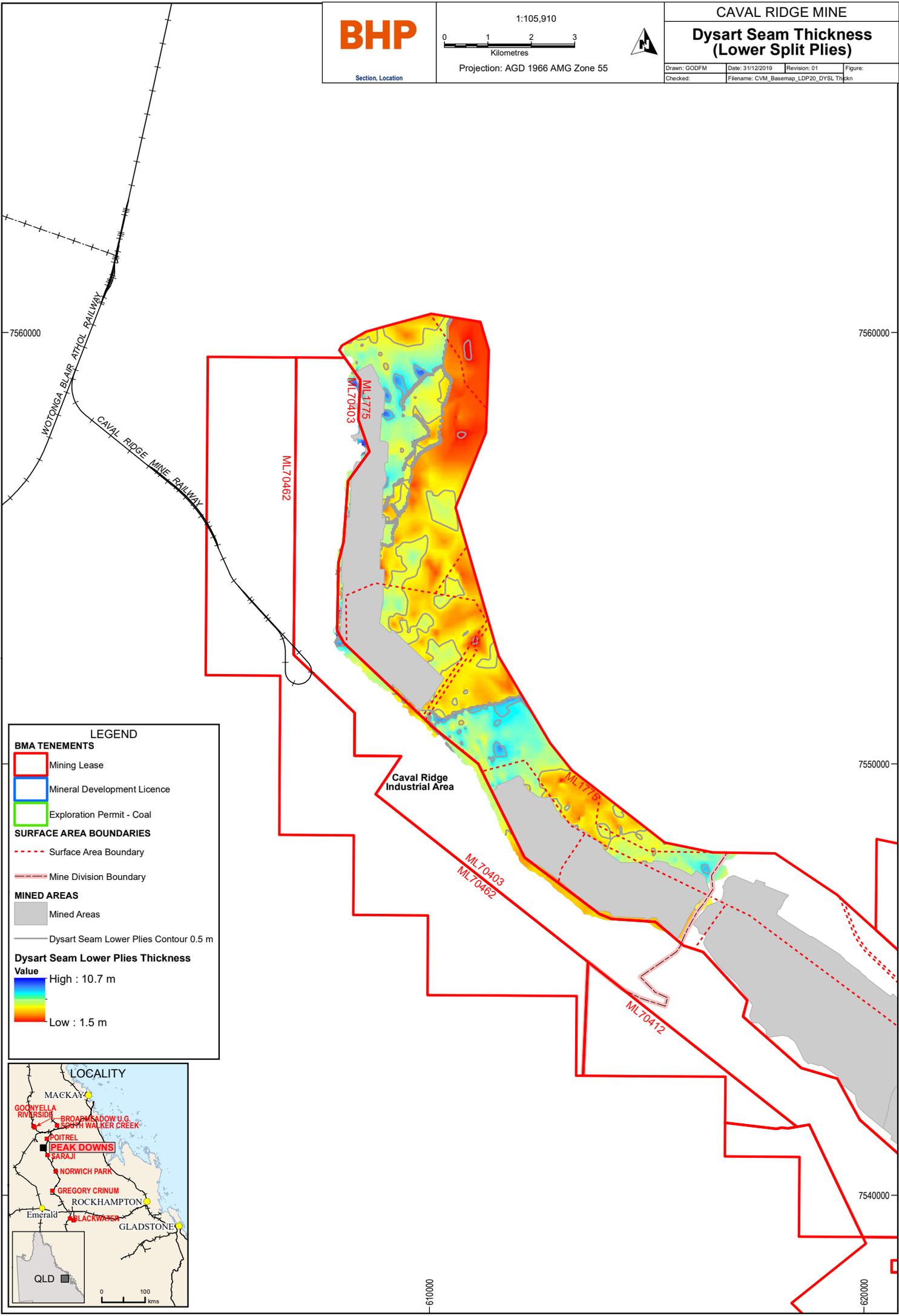
- High : 5.0 m
- Low : 1.5 m





Dysart Seam Thickness (Lower Split Plies)

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LEGEND

BMA TENEMENTS

- Mining Lease
- Mineral Development Licence
- Exploration Permit - Coal

SURFACE AREA BOUNDARIES

- Surface Area Boundary
- Mine Division Boundary

MINED AREAS

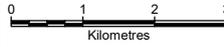
- Mined Areas
- Dysart Seam Lower Plies Contour 0.5 m

Dysart Seam Lower Plies Thickness

Value

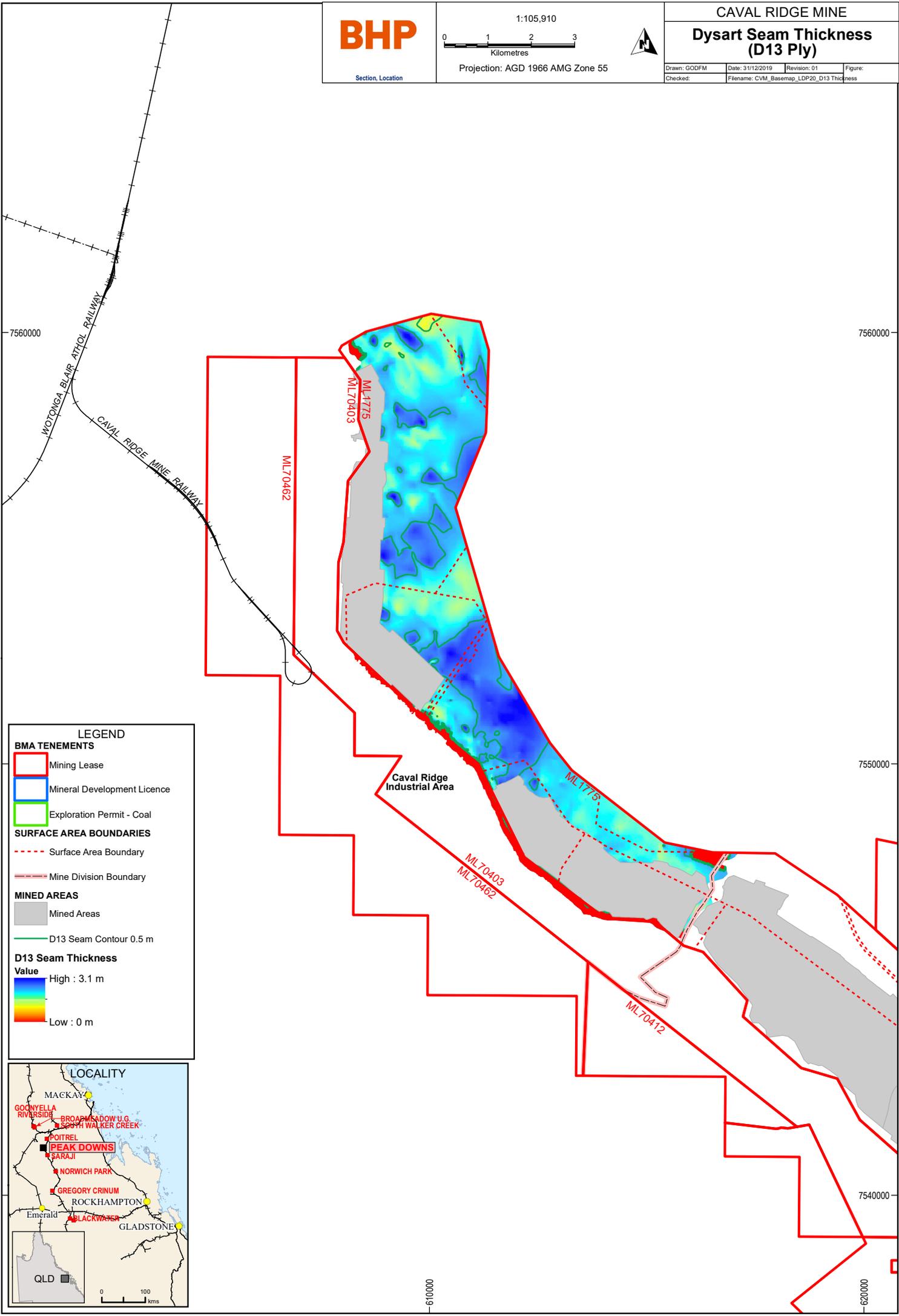
- High : 10.7 m
- Low : 1.5 m





Dysart Seam Thickness (D13 Ply)

Drawn: GODFM	Date: 3/1/2019	Revision: 01	Figure:
Checked:	Filename: CVM_Basemap_LDP20_D13 Thickness		



LEGEND

BMA TENEMENTS

- Mining Lease
- Mineral Development Licence
- Exploration Permit - Coal

SURFACE AREA BOUNDARIES

- Surface Area Boundary
- Mine Division Boundary

MINED AREAS

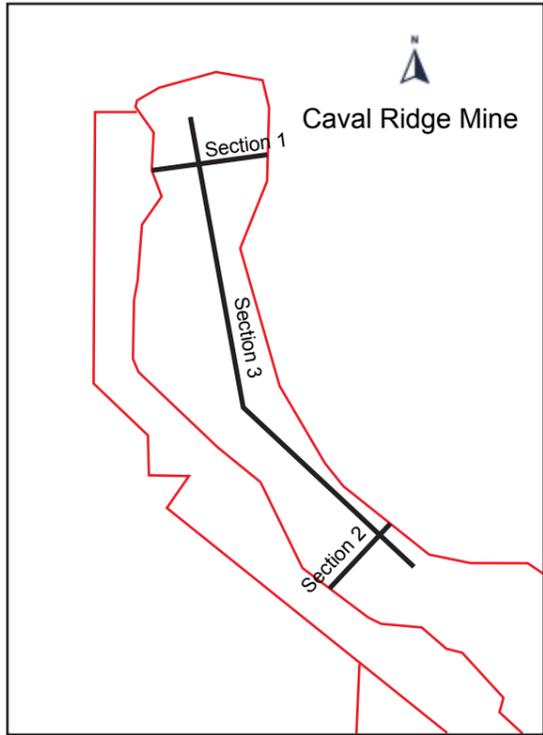
- Mined Areas
- D13 Seam Contour 0.5 m

D13 Seam Thickness

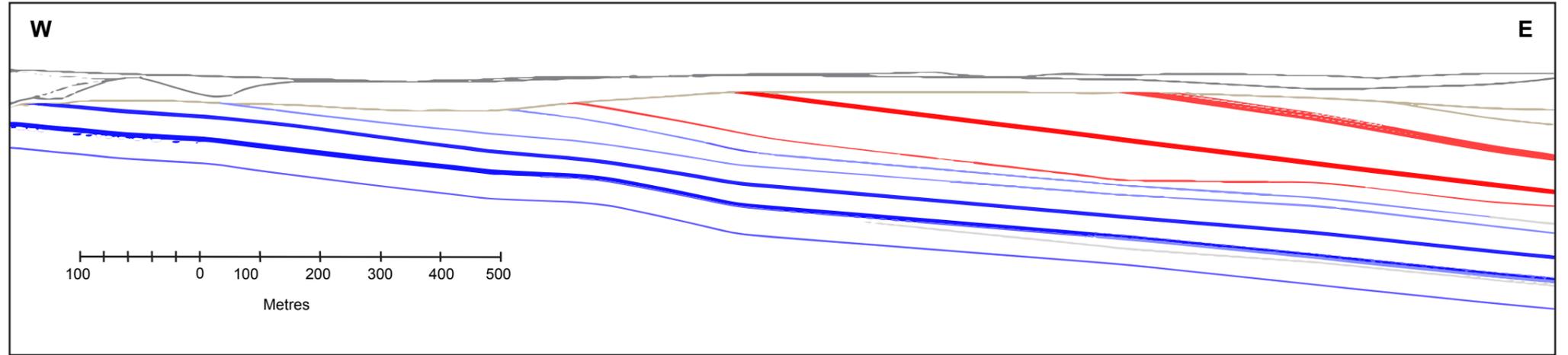
Value

- High : 3.1 m
- Low : 0 m

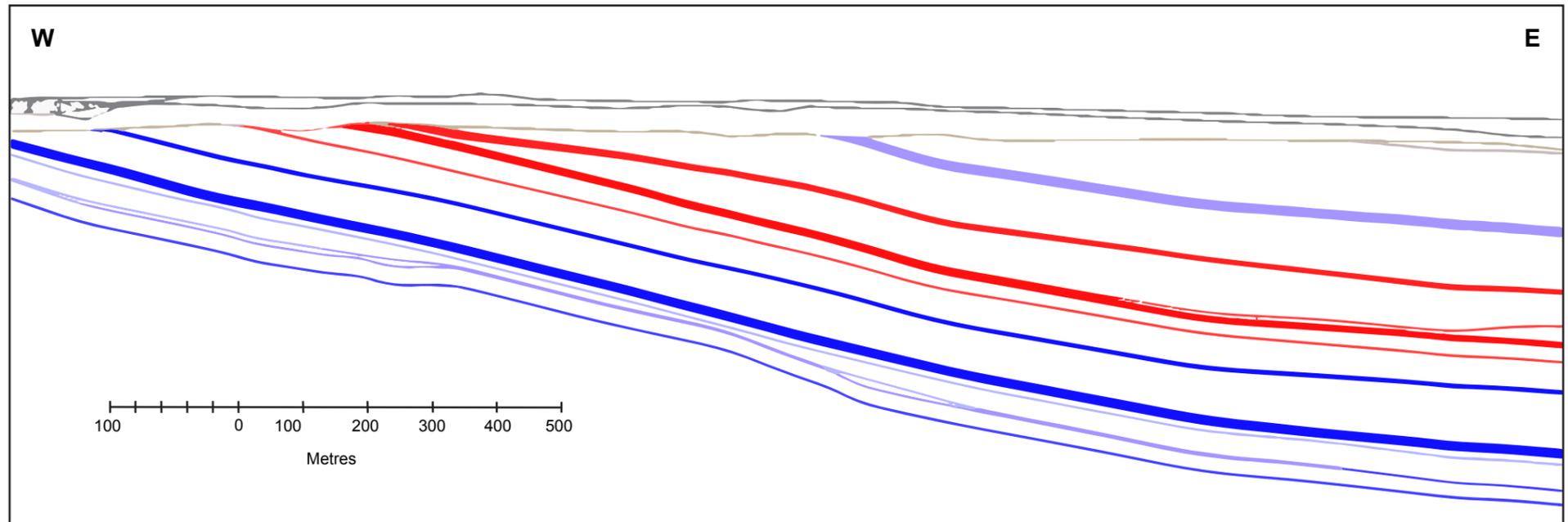




Section 1: West to East



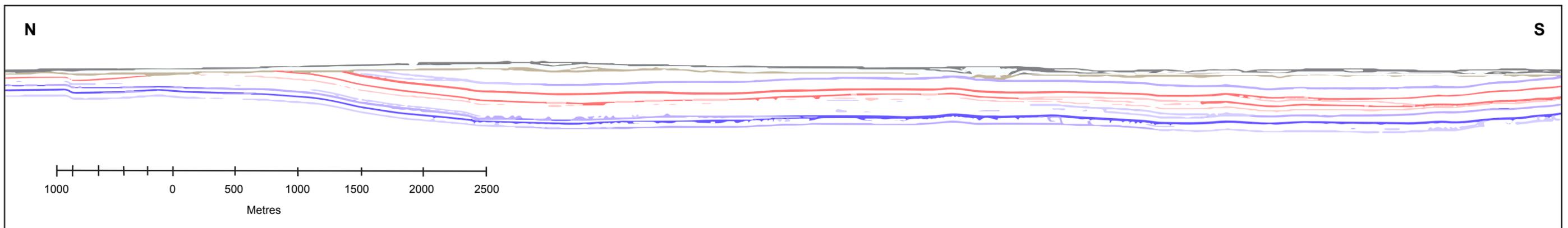
Section 2: West to East

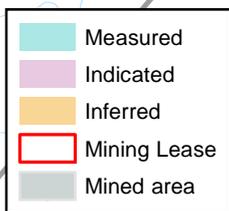
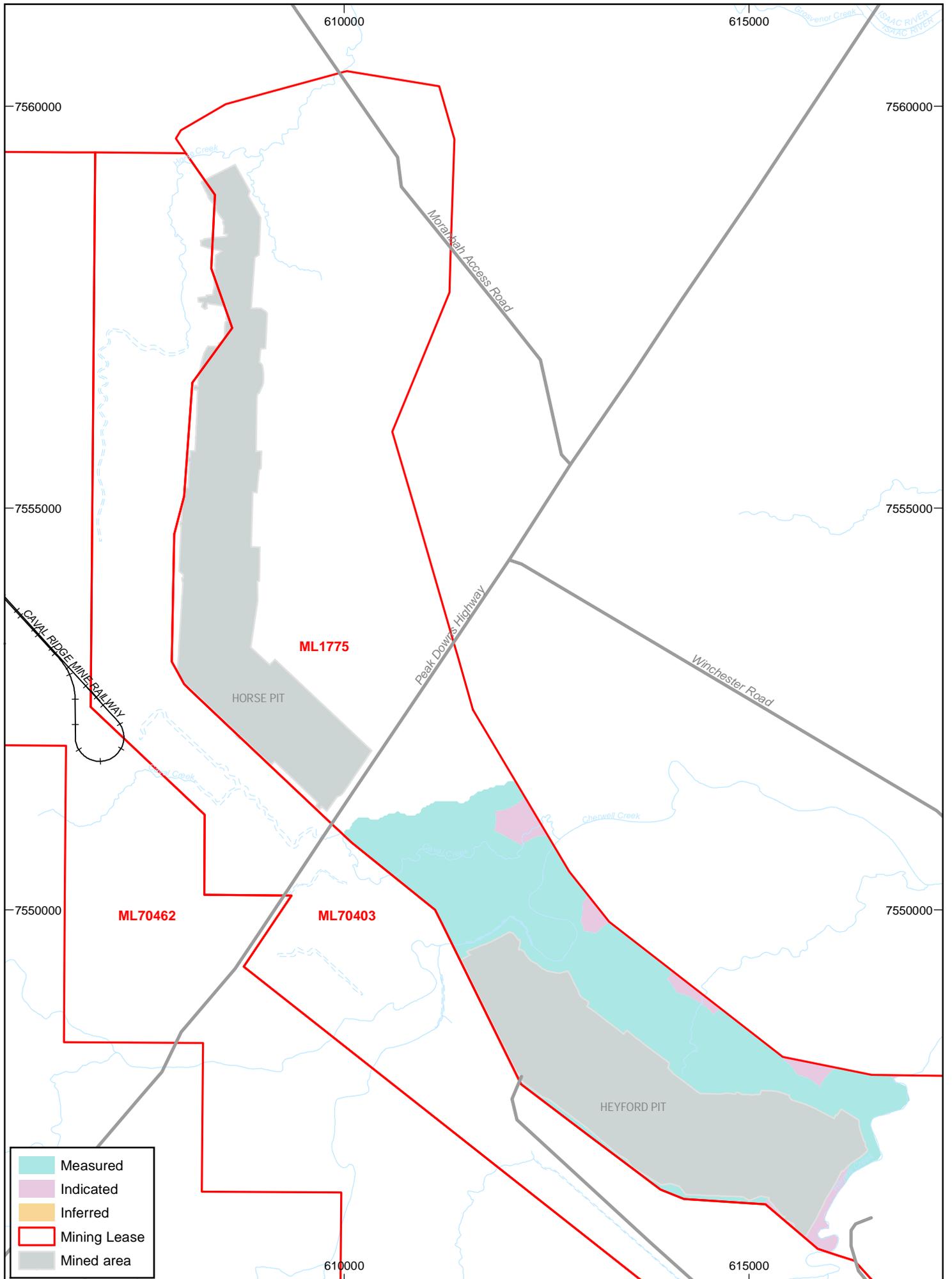


Legend

- Base of Tertiary
- Base of Weathering
- Q Seams
- P Seams
- Harrow Creek Seams
- Dysart Seams

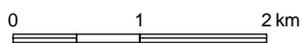
Section 3: North to South





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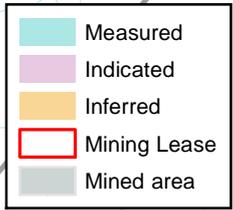
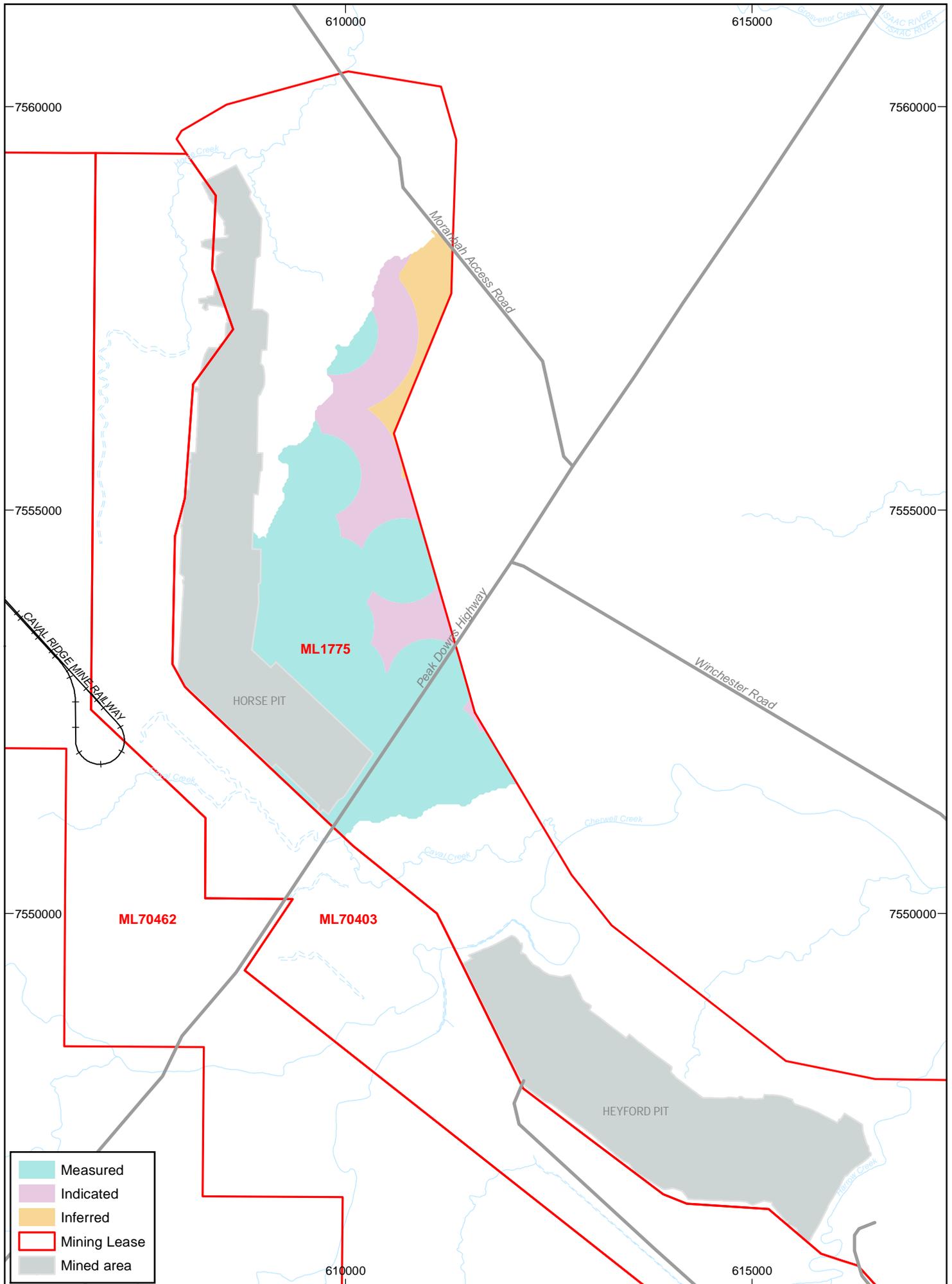


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



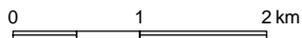
CAVAL RIDGE MINE
JORC RESOURCES - D01

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_D01.mxd	



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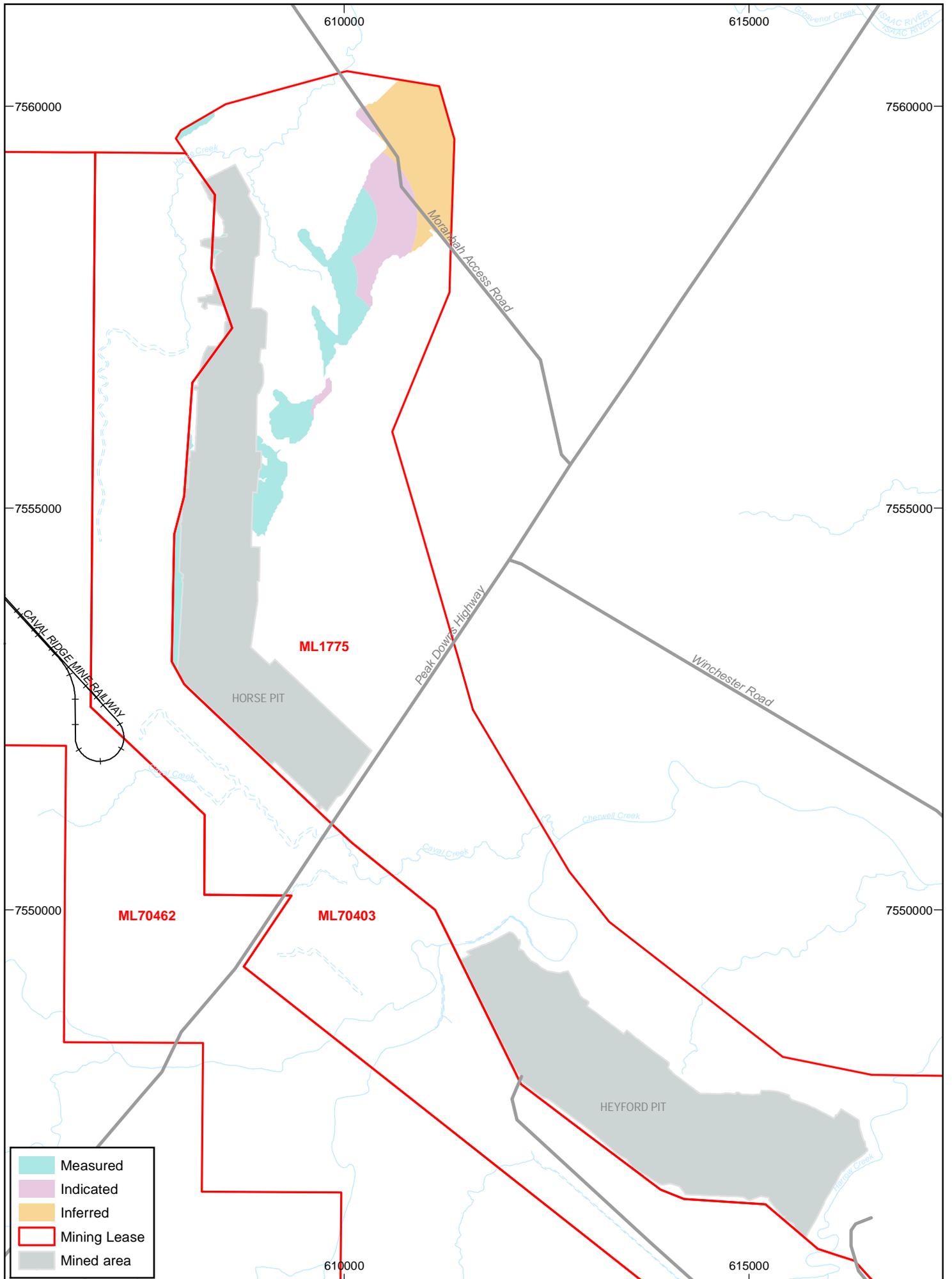


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



CAVAL RIDGE MINE
JORC RESOURCES - D02

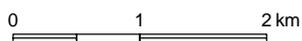
Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_D02.mxd	



	Measured
	Indicated
	Inferred
	Mining Lease
	Mined area

BHP

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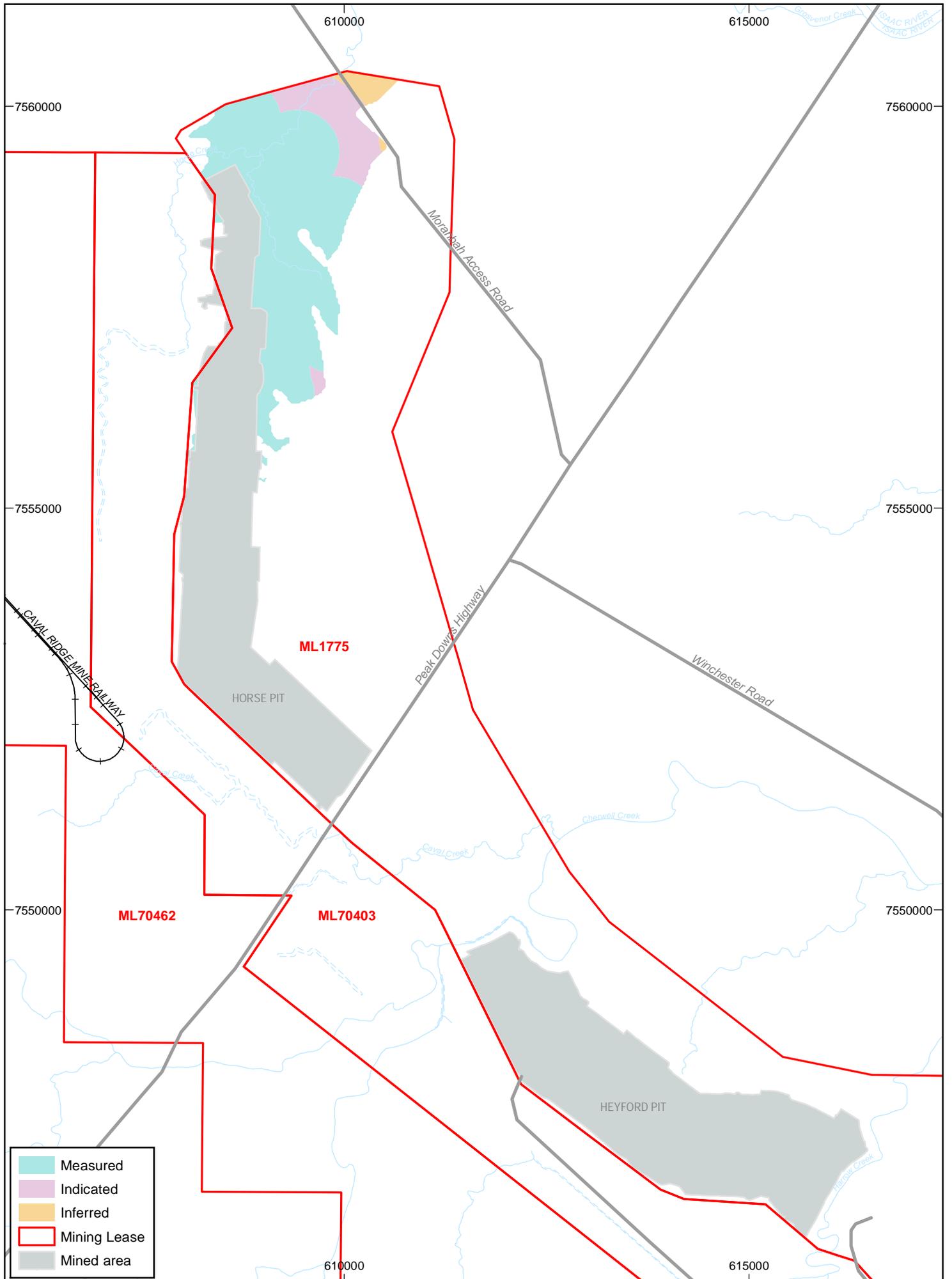


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



CAVAL RIDGE MINE
JORC RESOURCES - D02L

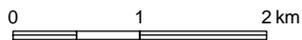
Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_D02L.mxd	



	Measured
	Indicated
	Inferred
	Mining Lease
	Mined area

BHP

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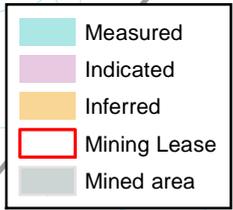
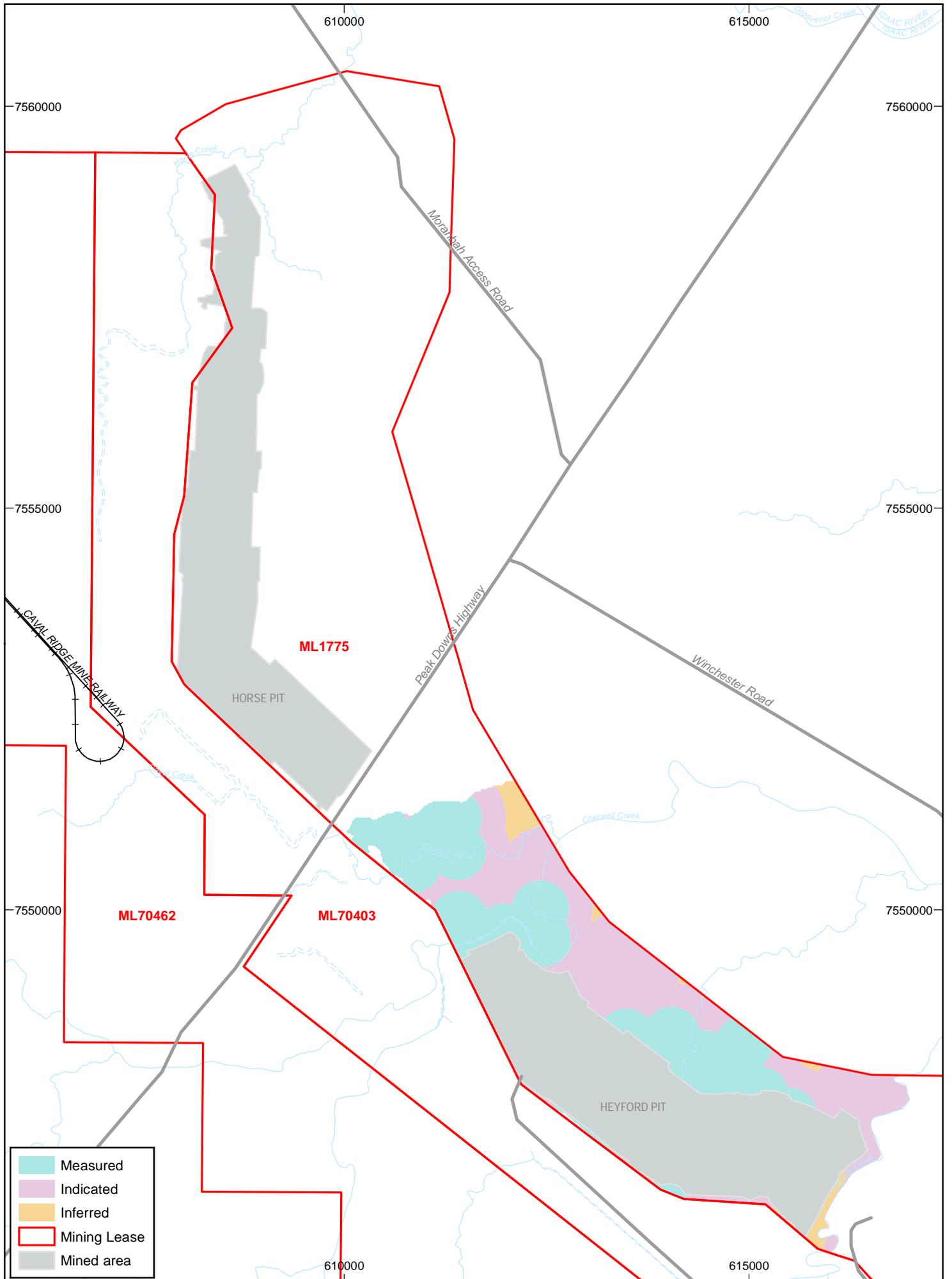


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



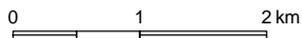
CAVAL RIDGE MINE
JORC RESOURCES - D02LL

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_D02LL.mxd	



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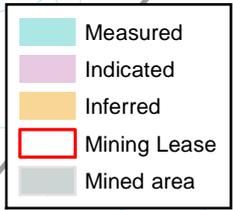
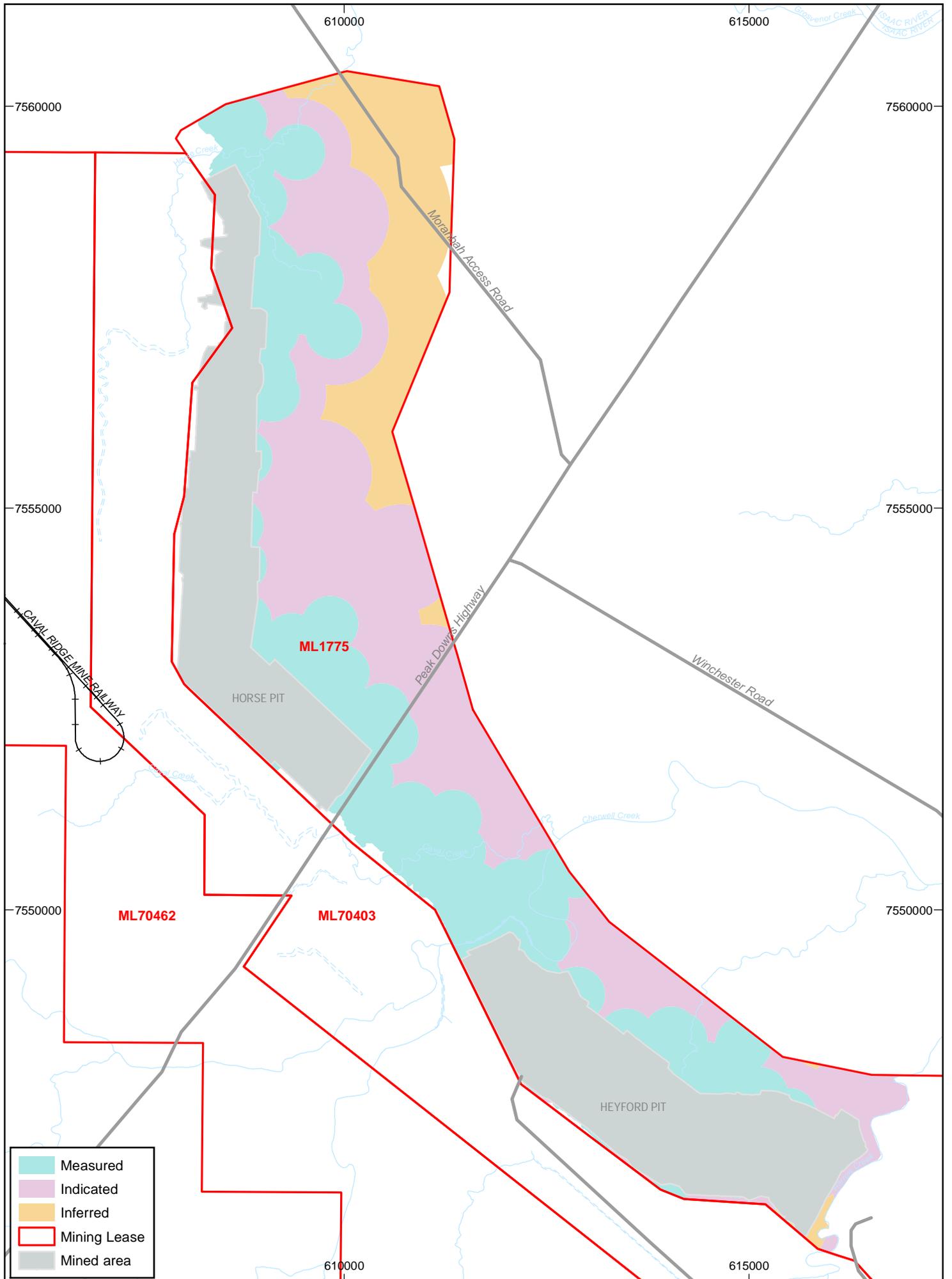


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



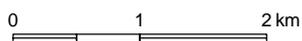
CAVAL RIDGE MINE
JORC RESOURCES - D12

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_D12.mxd	



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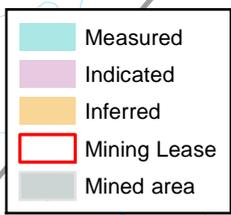
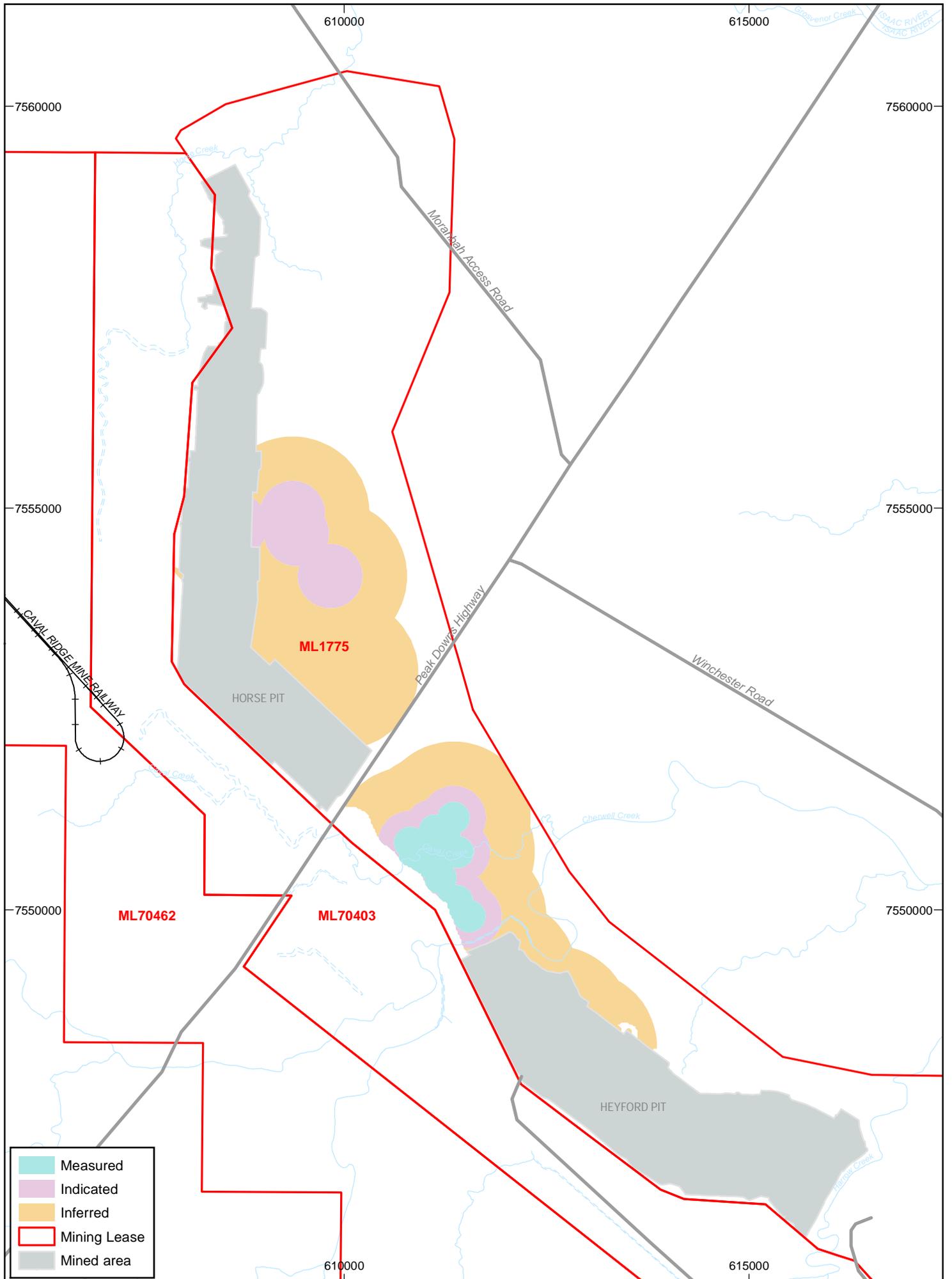


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



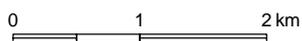
CAVAL RIDGE MINE
JORC RESOURCES - D13

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_D13.mxd	



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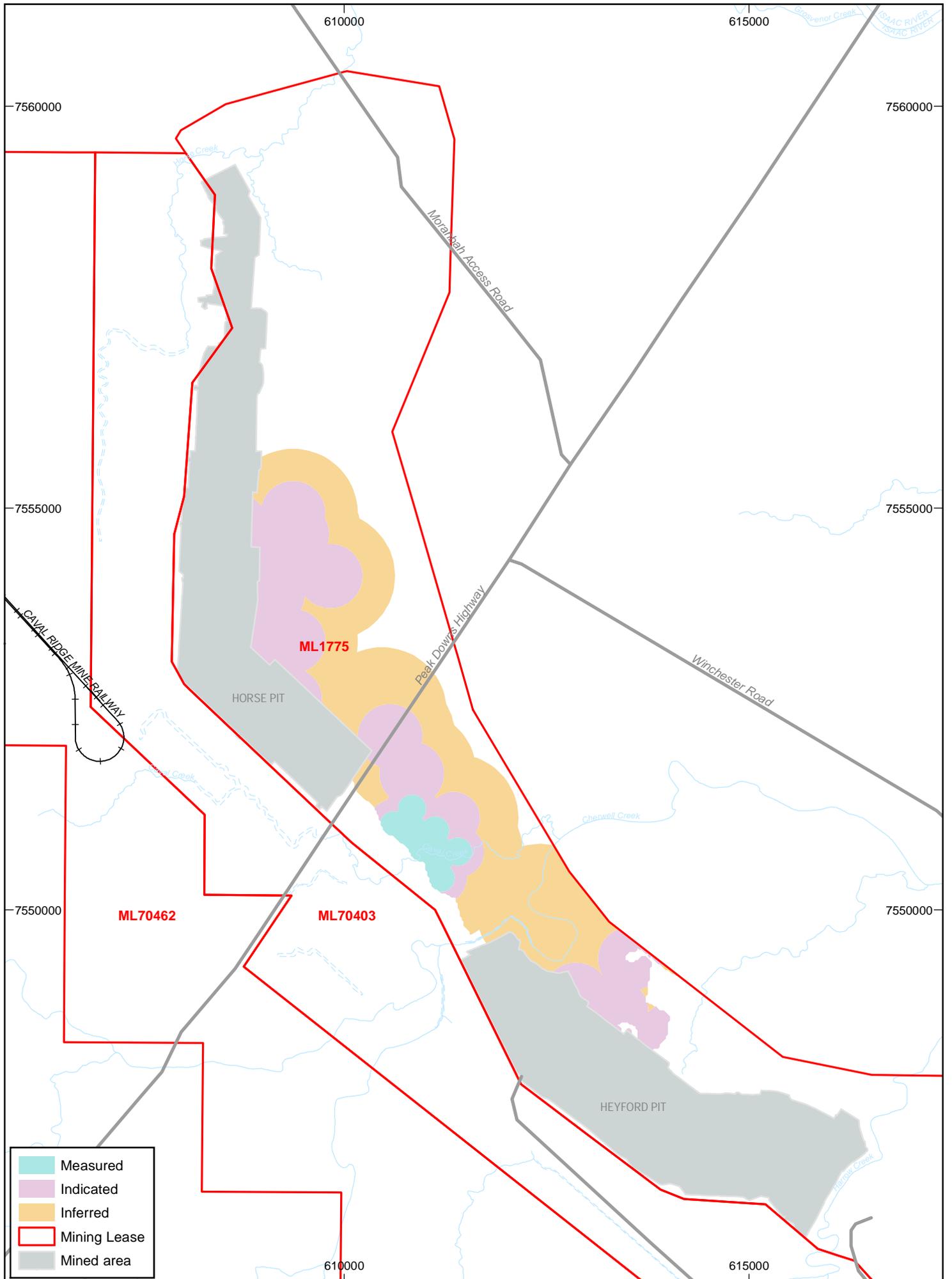


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



CAVAL RIDGE MINE
JORC RESOURCES - D40

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_D40.mxd	



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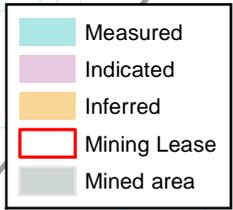
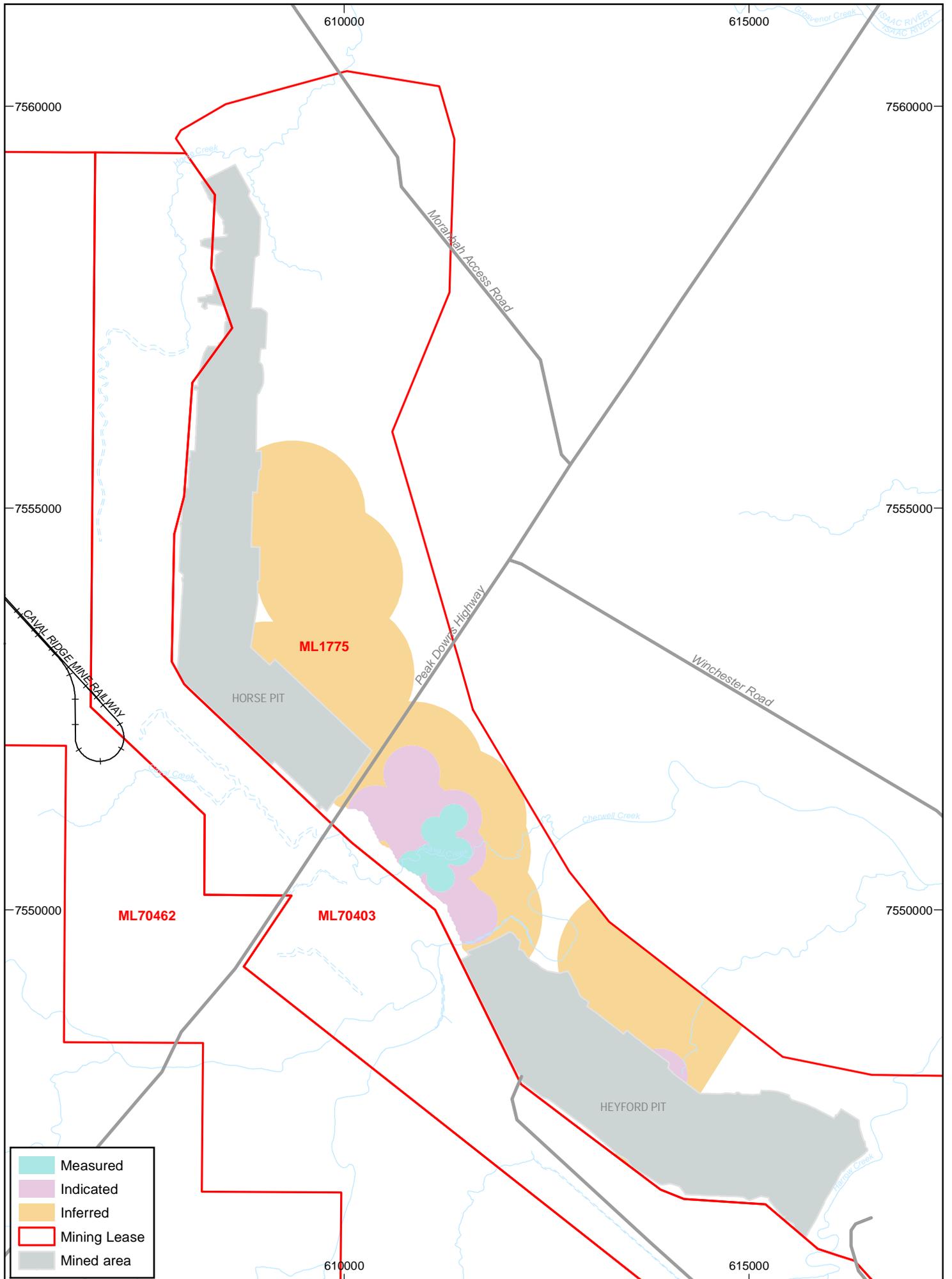


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



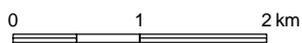
CAVAL RIDGE MINE
JORC RESOURCES - D43

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_D43.mxd	



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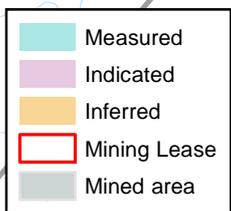
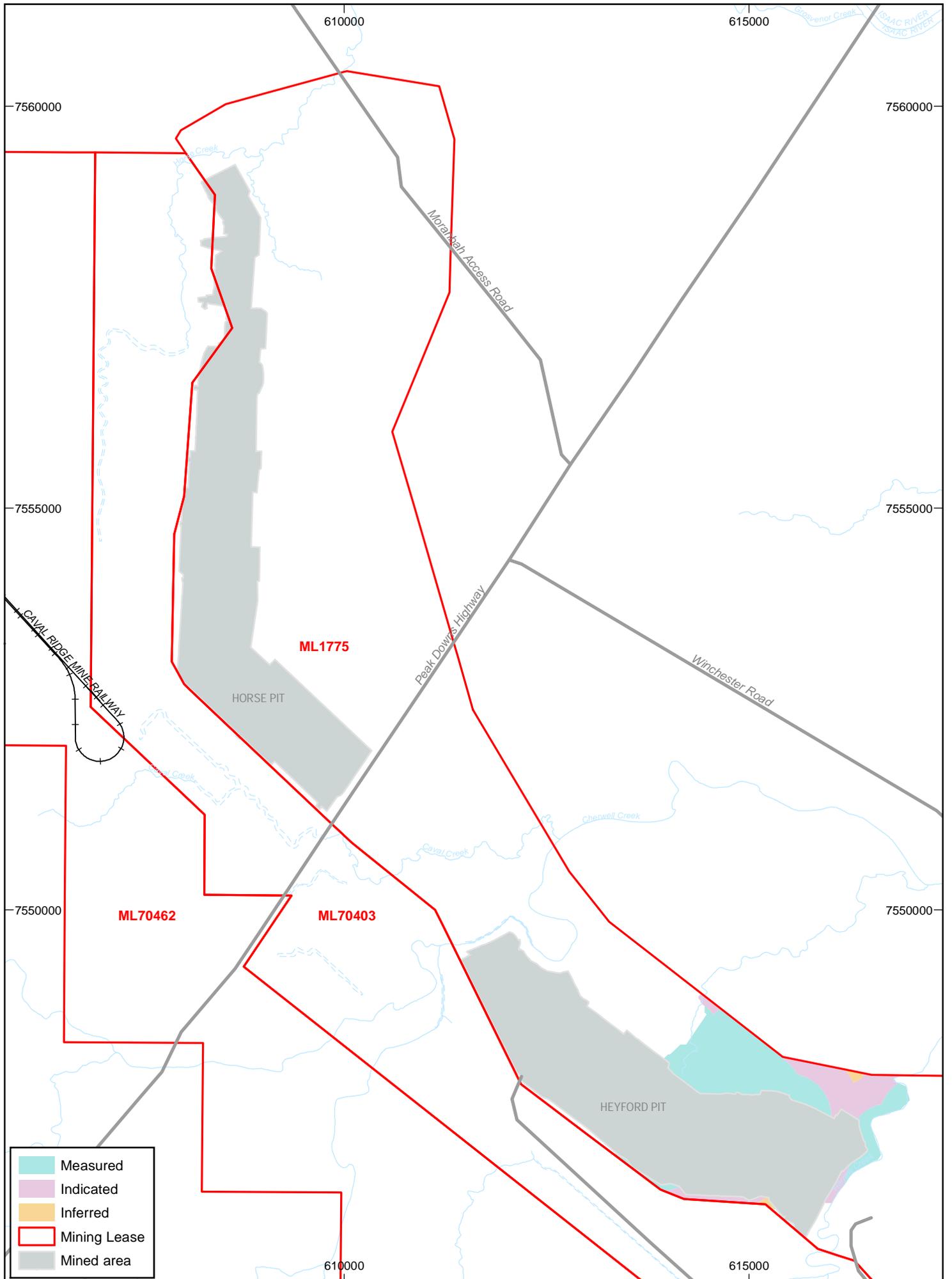


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



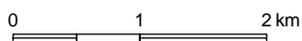
CAVAL RIDGE MINE
JORC RESOURCES - D45

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_D45.mxd	



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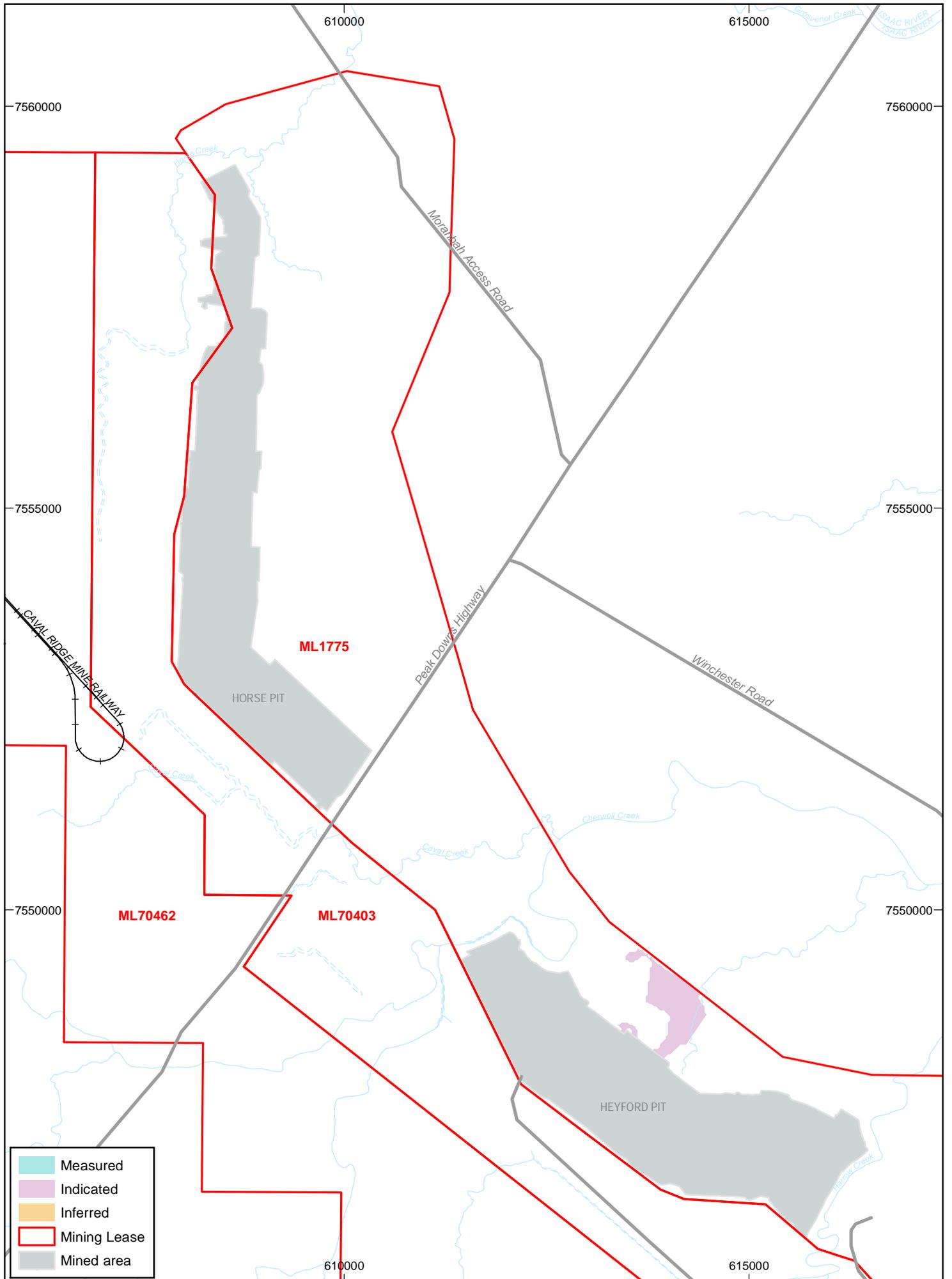


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



CAVAL RIDGE MINE
JORC RESOURCES - D46

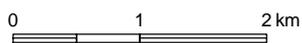
Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_D46.mxd	



	Measured
	Indicated
	Inferred
	Mining Lease
	Mined area

BHP

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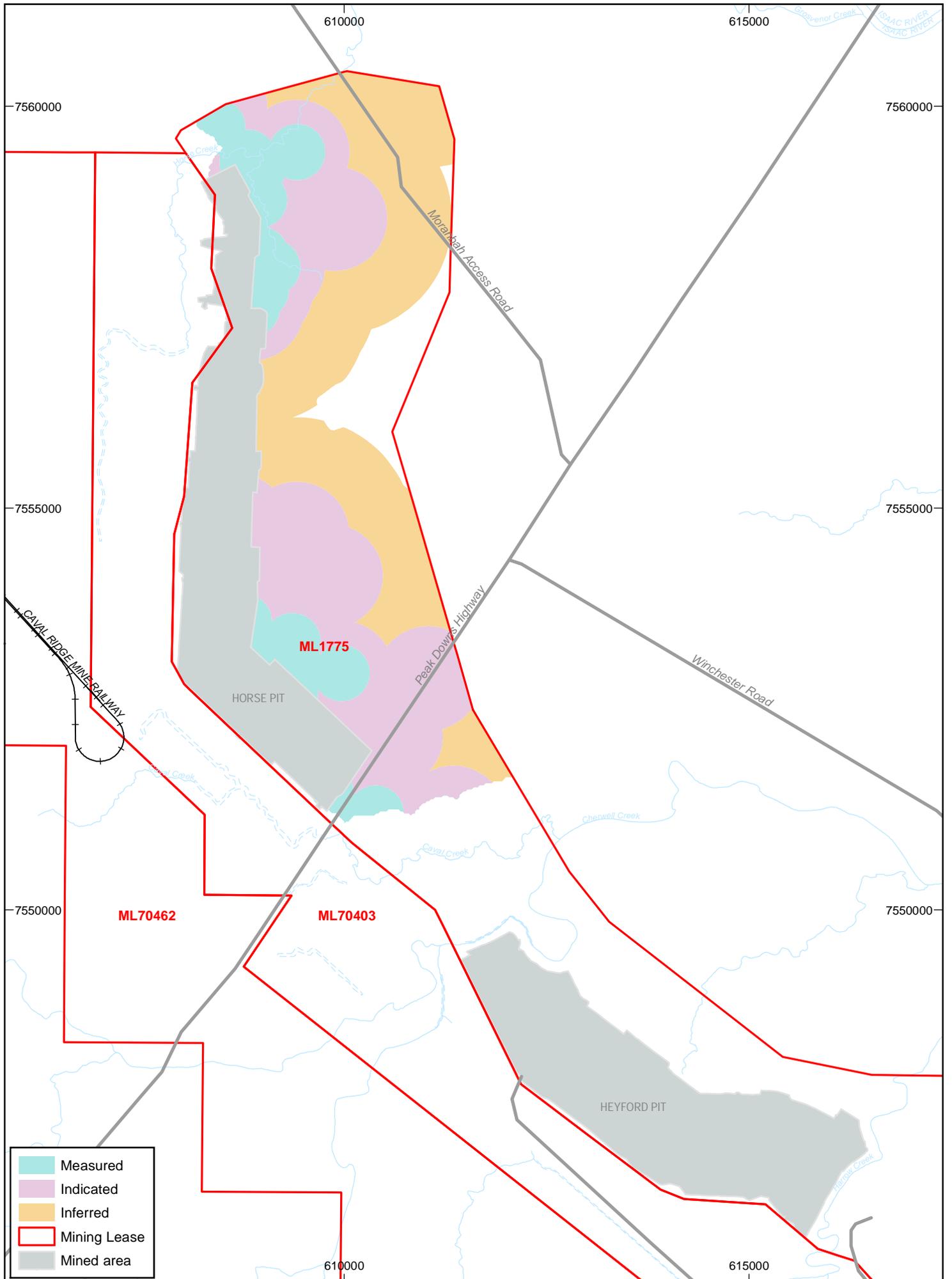


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



CAVAL RIDGE MINE
JORC RESOURCES - D47

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_D47.mxd	



	Measured
	Indicated
	Inferred
	Mining Lease
	Mined area

BHP

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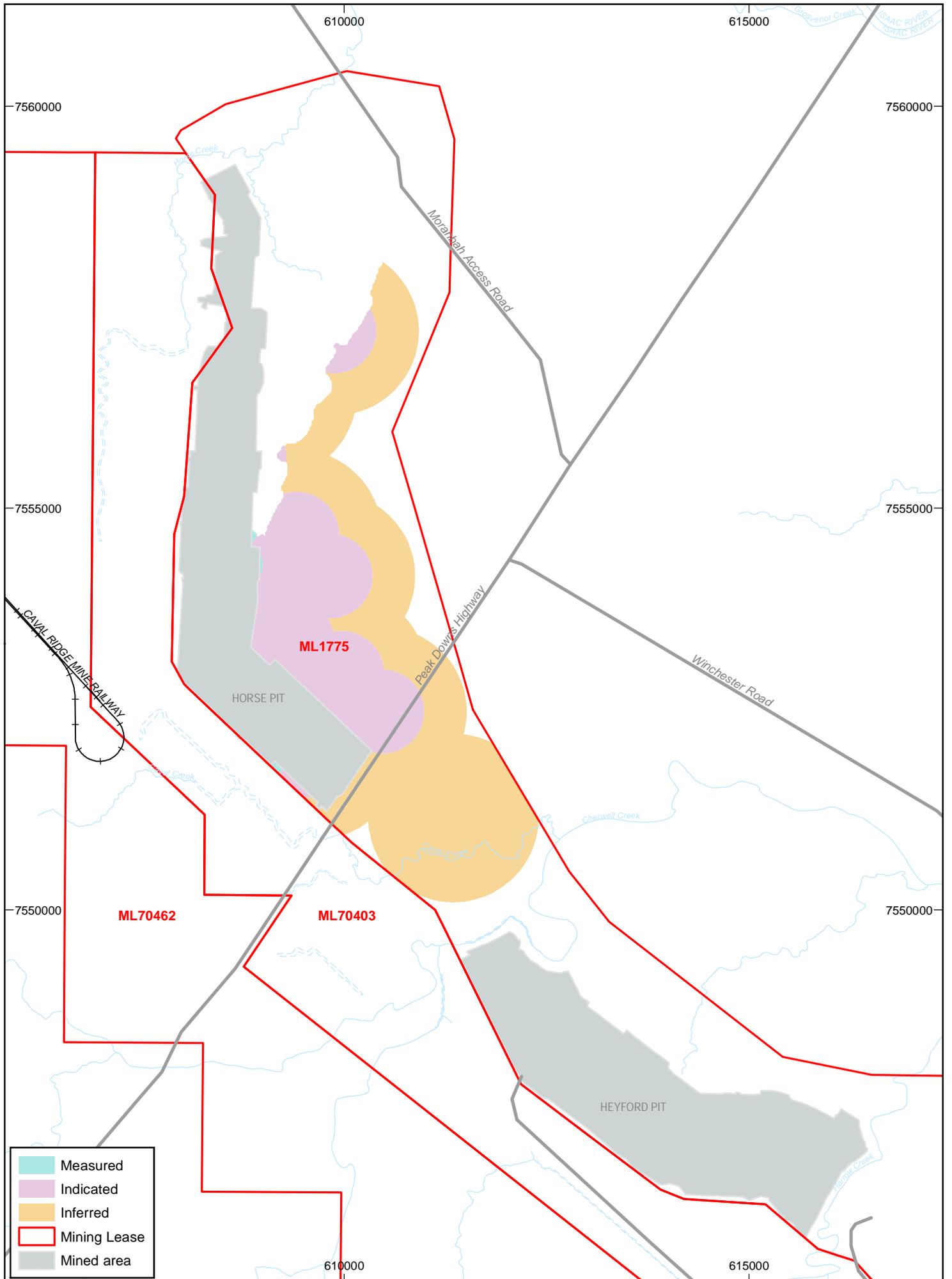


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



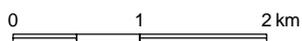
CAVAL RIDGE MINE
JORC RESOURCES - D122

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_D122.mxd	



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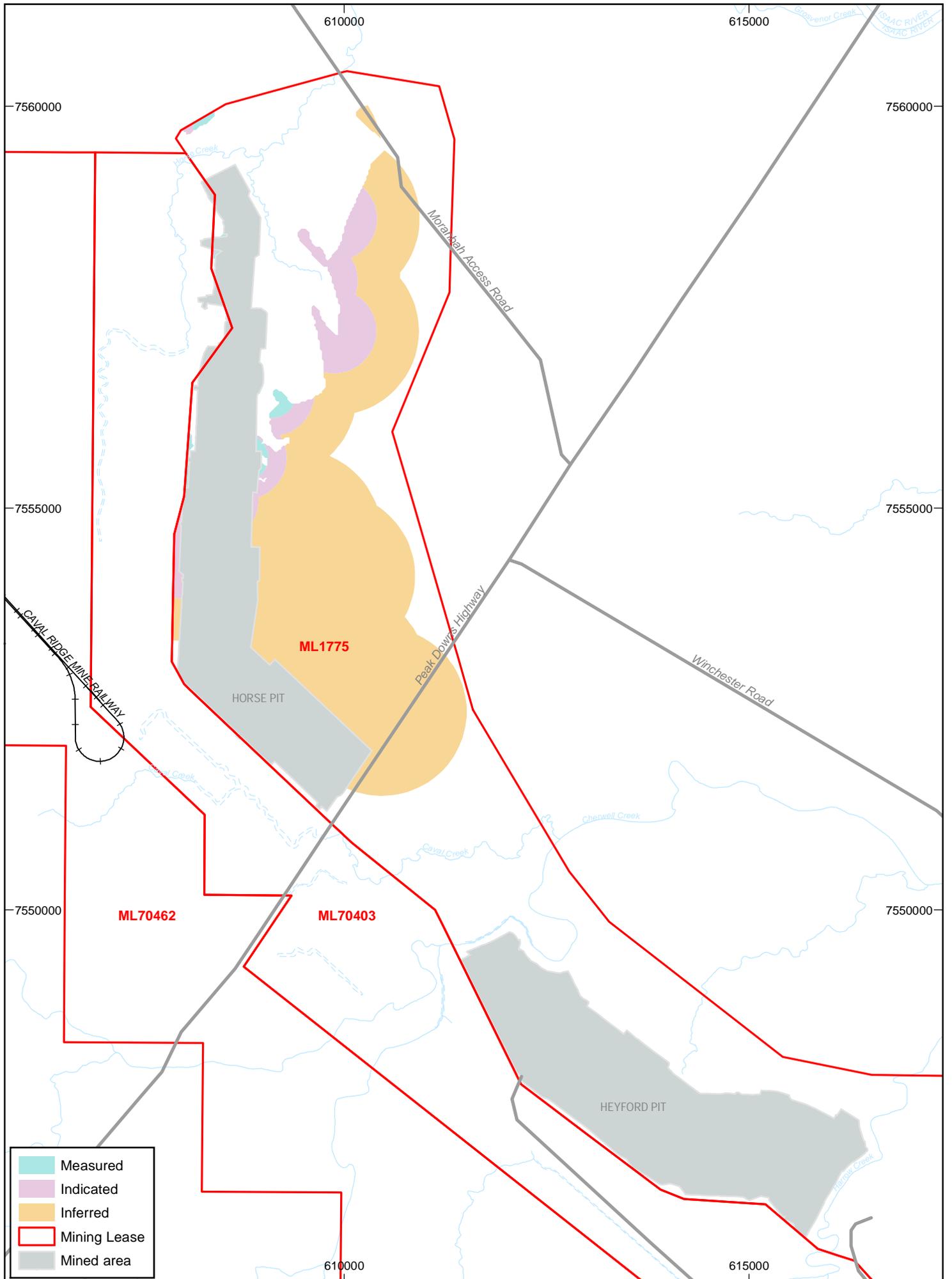


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



**CAVAL RIDGE MINE
JORC RESOURCES - DL**

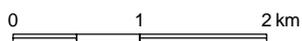
Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_DL.mxd	



	Measured
	Indicated
	Inferred
	Mining Lease
	Mined area

BHP

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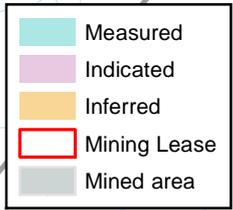
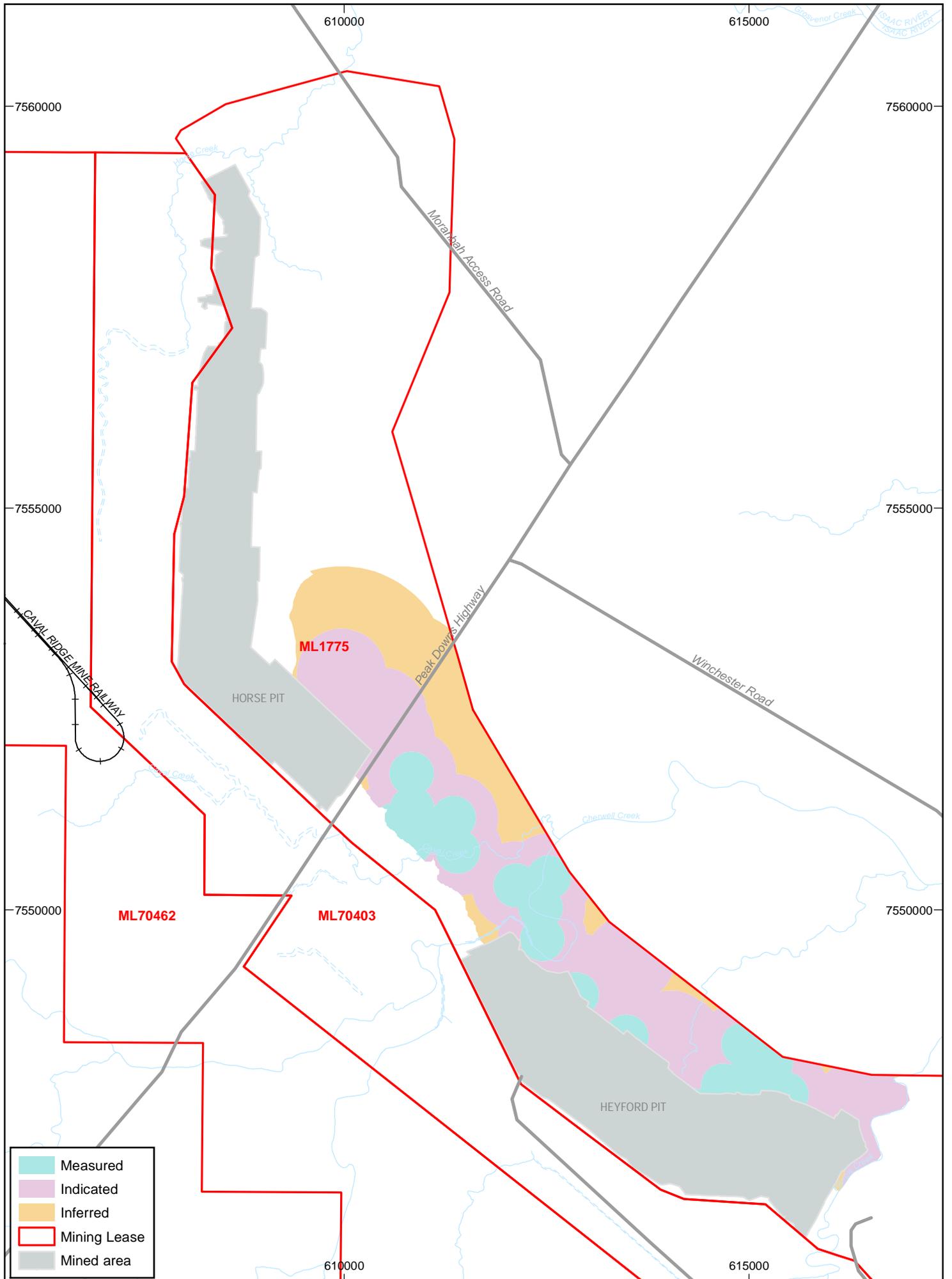


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



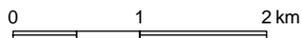
CAVAL RIDGE MINE
JORC RESOURCES - DLL

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_DLL.mxd	



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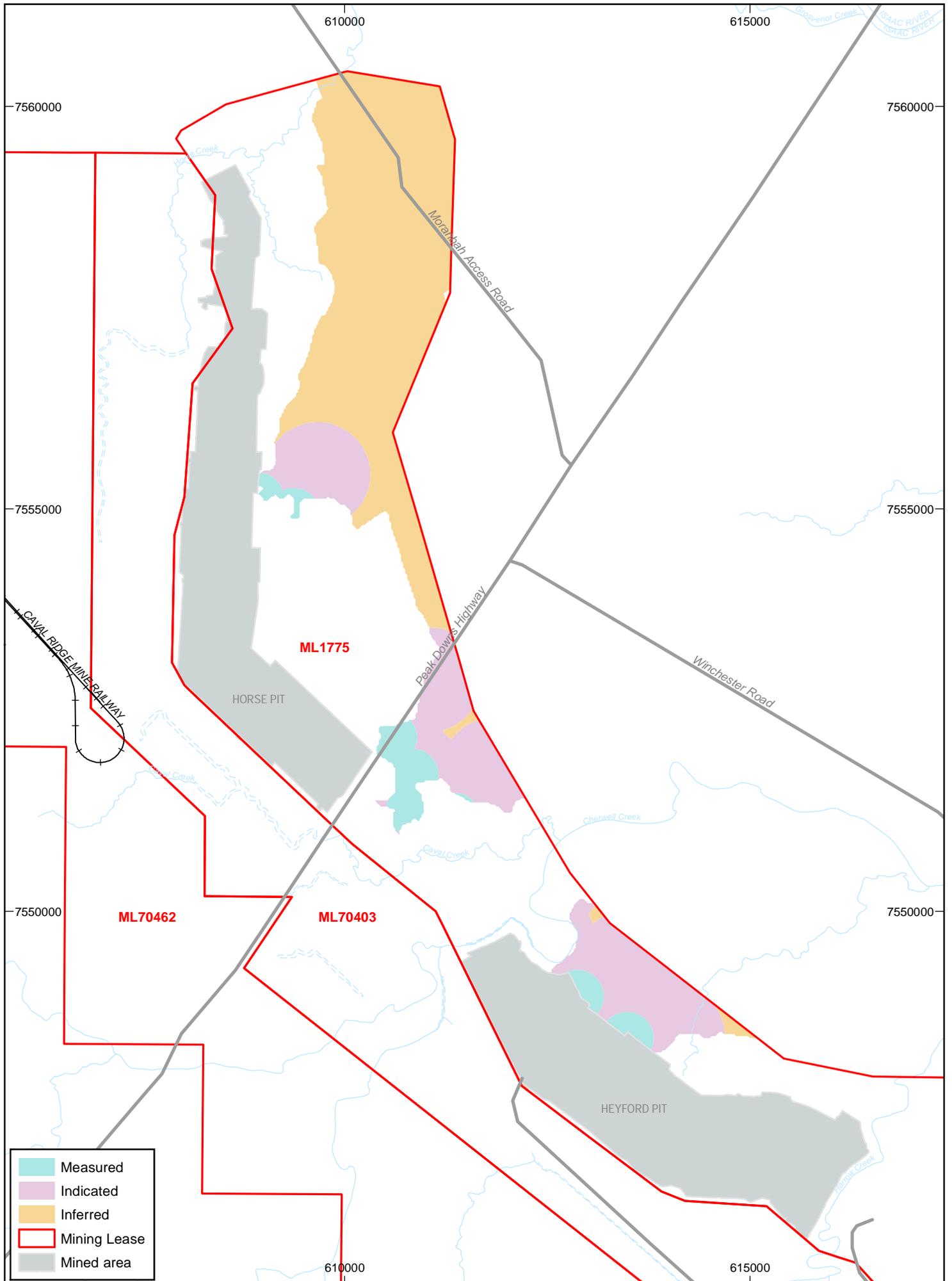


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



CAVAL RIDGE MINE
JORC RESOURCES - H00

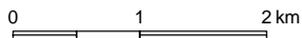
Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_H00.mxd	



	Measured
	Indicated
	Inferred
	Mining Lease
	Mined area

BHP

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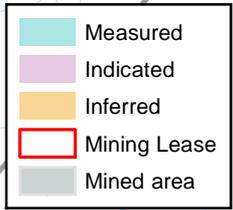
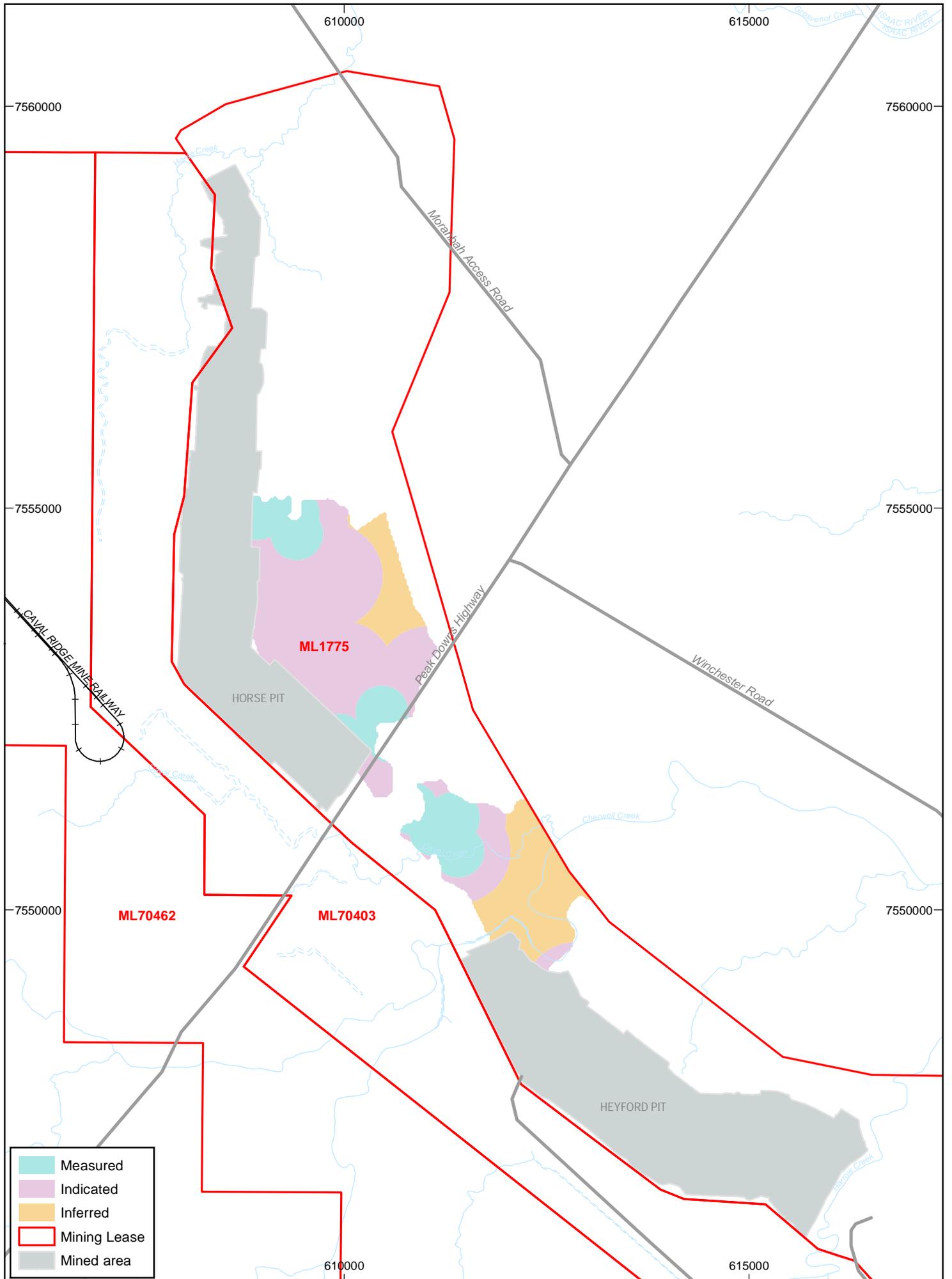


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



CAVAL RIDGE MINE
JORC RESOURCES - H01

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_H01.mxd	



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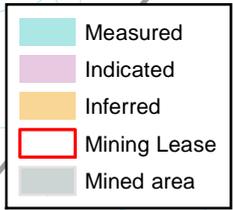
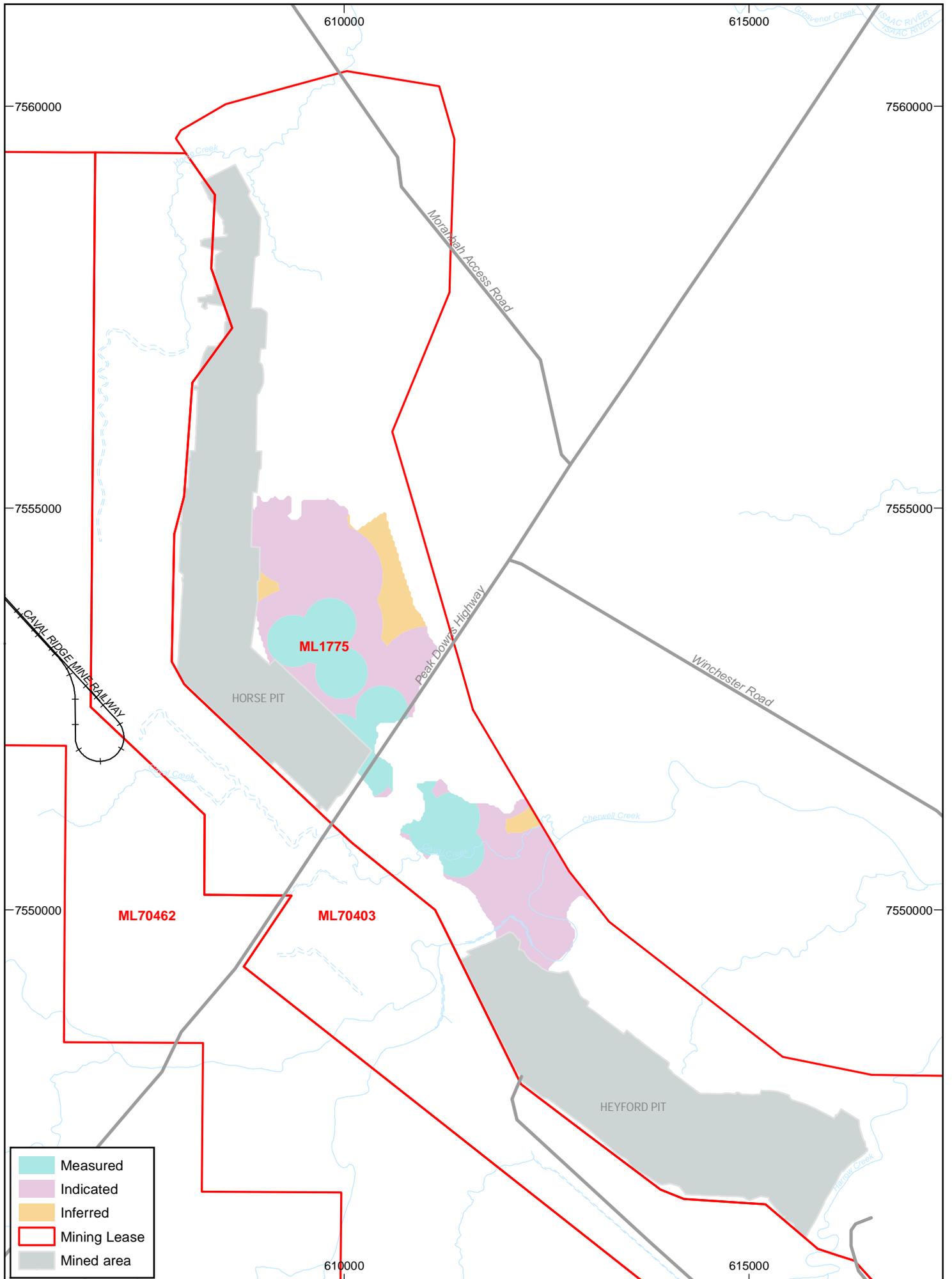


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



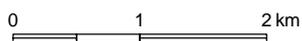
CAVAL RIDGE MINE
JORC RESOURCES - H02

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_H02.mxd	



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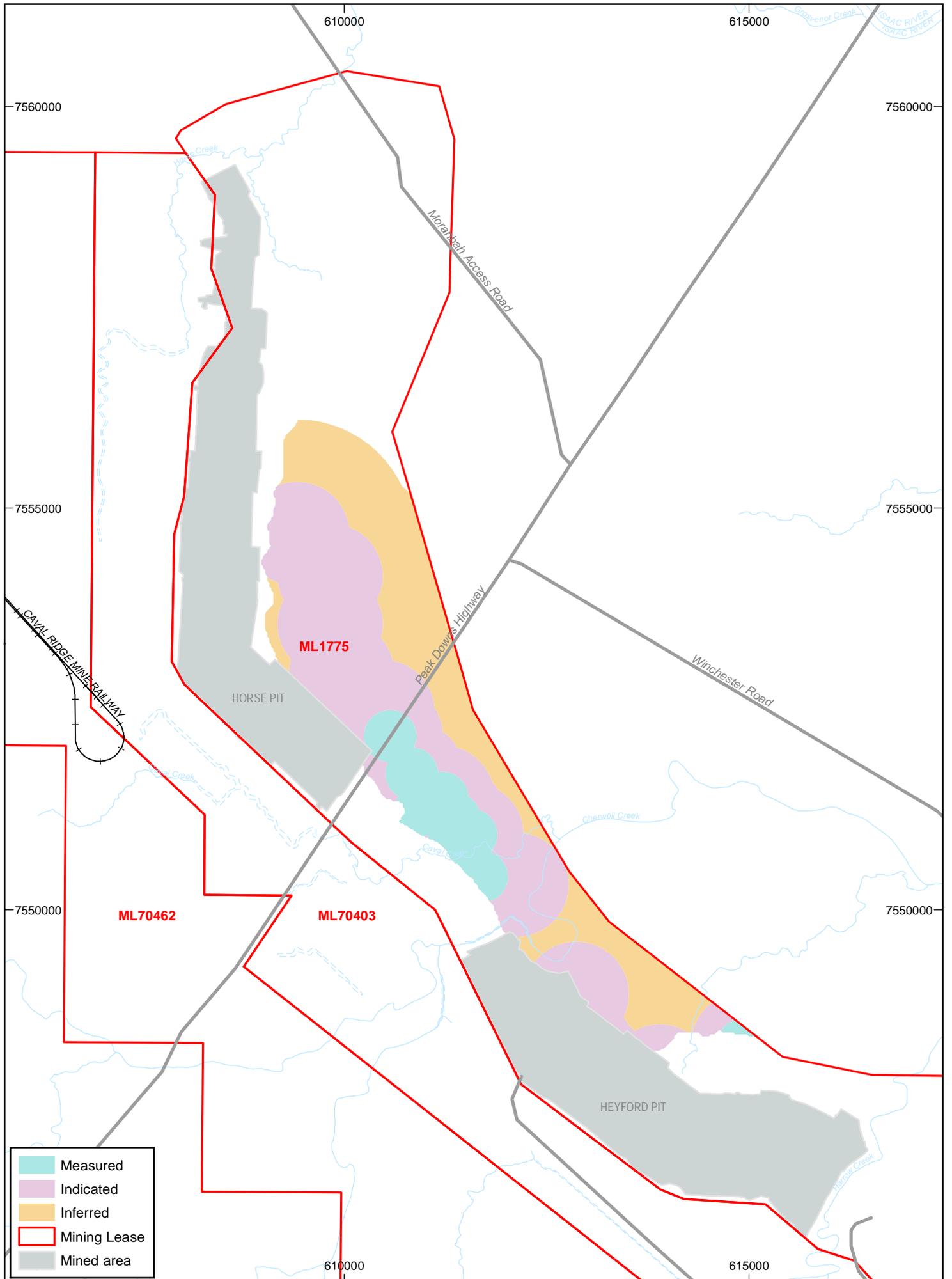


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



CAVAL RIDGE MINE
JORC RESOURCES - H03

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_H03.mxd	



	Measured
	Indicated
	Inferred
	Mining Lease
	Mined area

BHP

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Brisbane

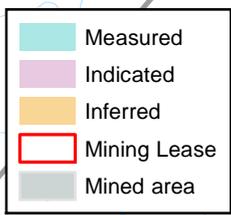
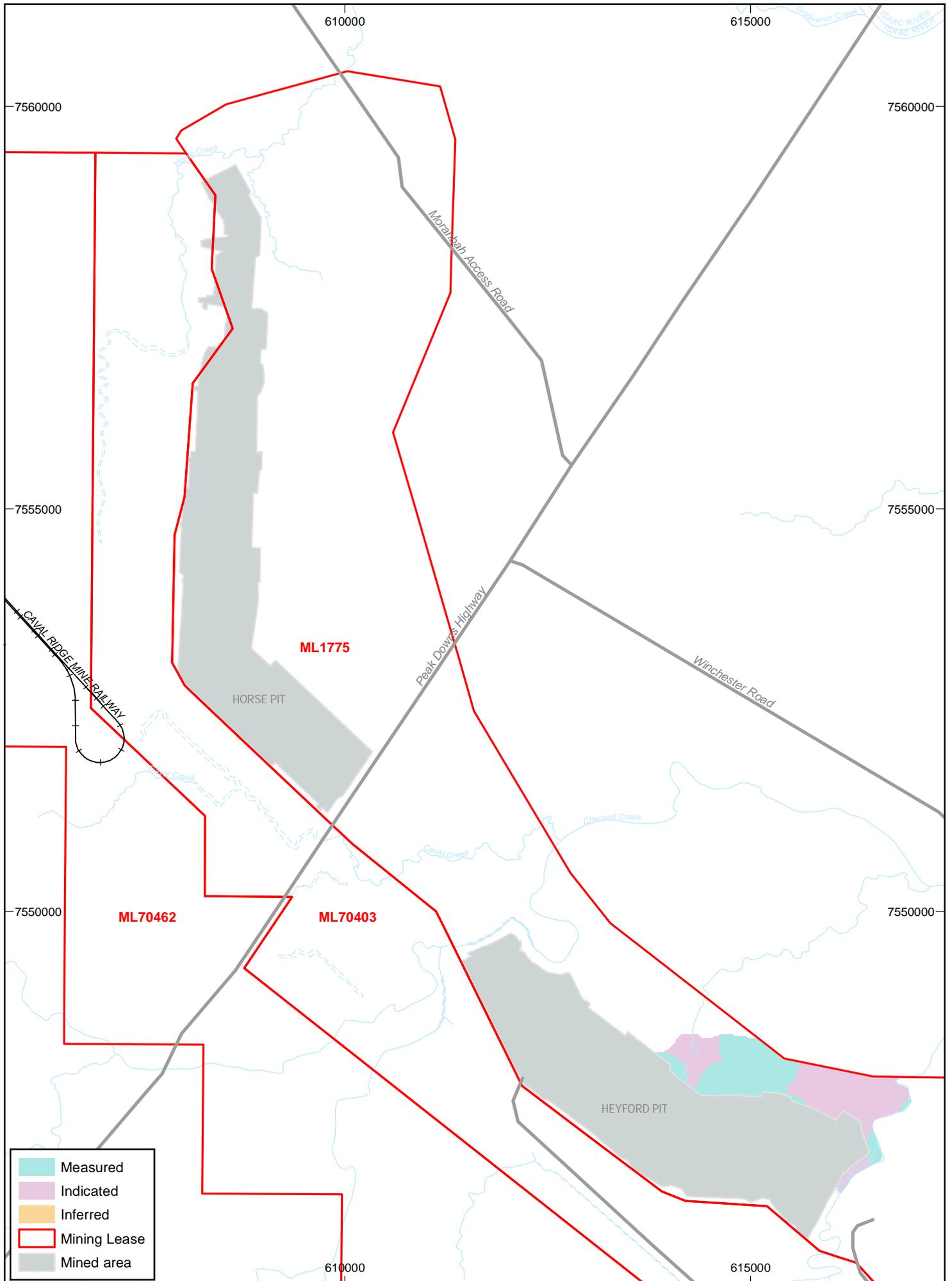
0 1 2 km

Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



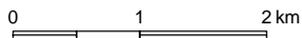
CAVAL RIDGE MINE
JORC RESOURCES - H06

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_H06.mxd	



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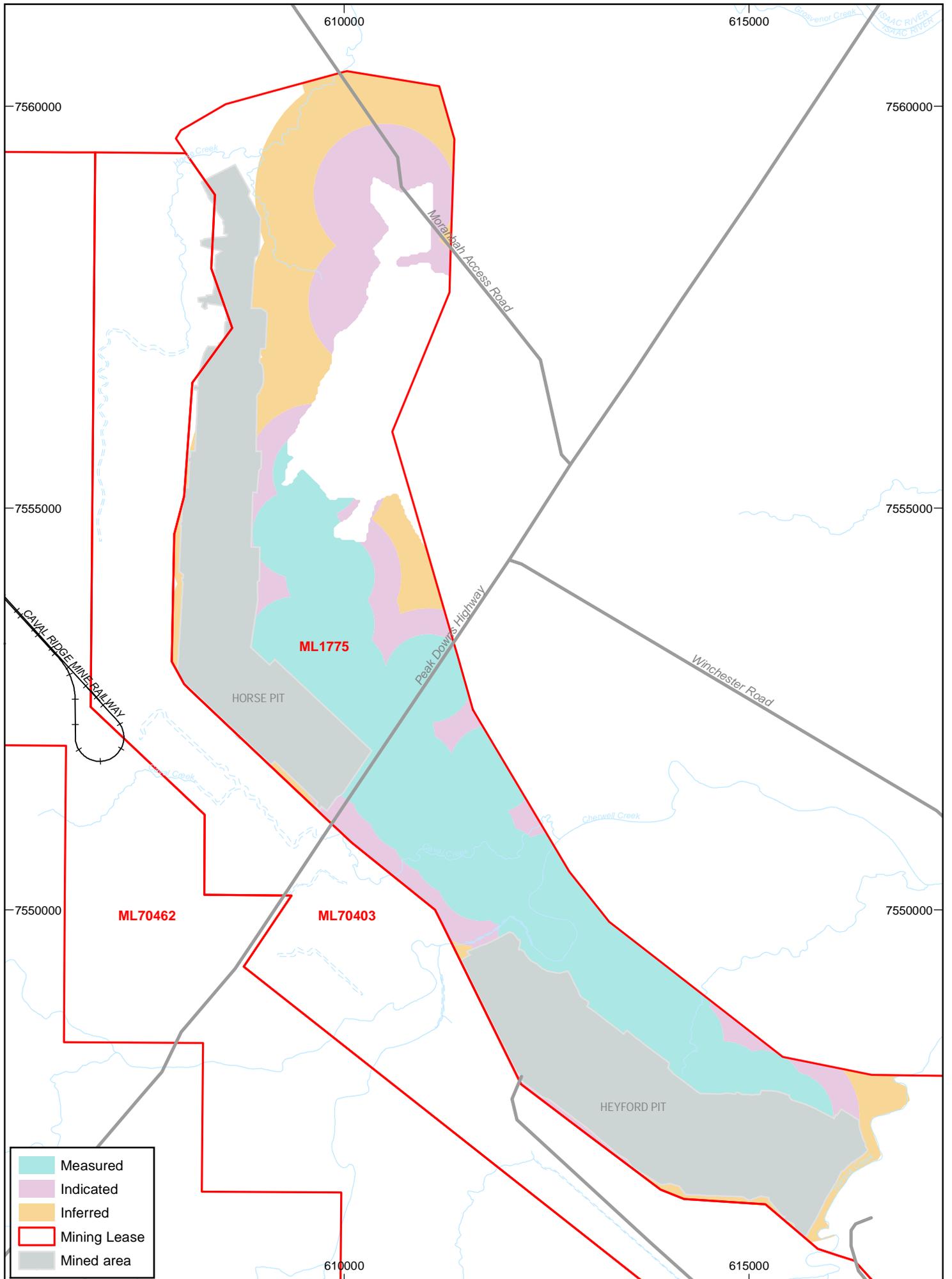


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



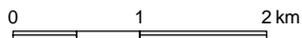
CAVAL RIDGE MINE
JORC RESOURCES - H08

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_H08.mxd	



BHP

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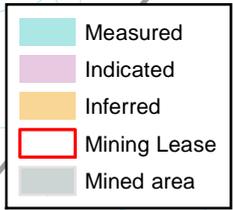
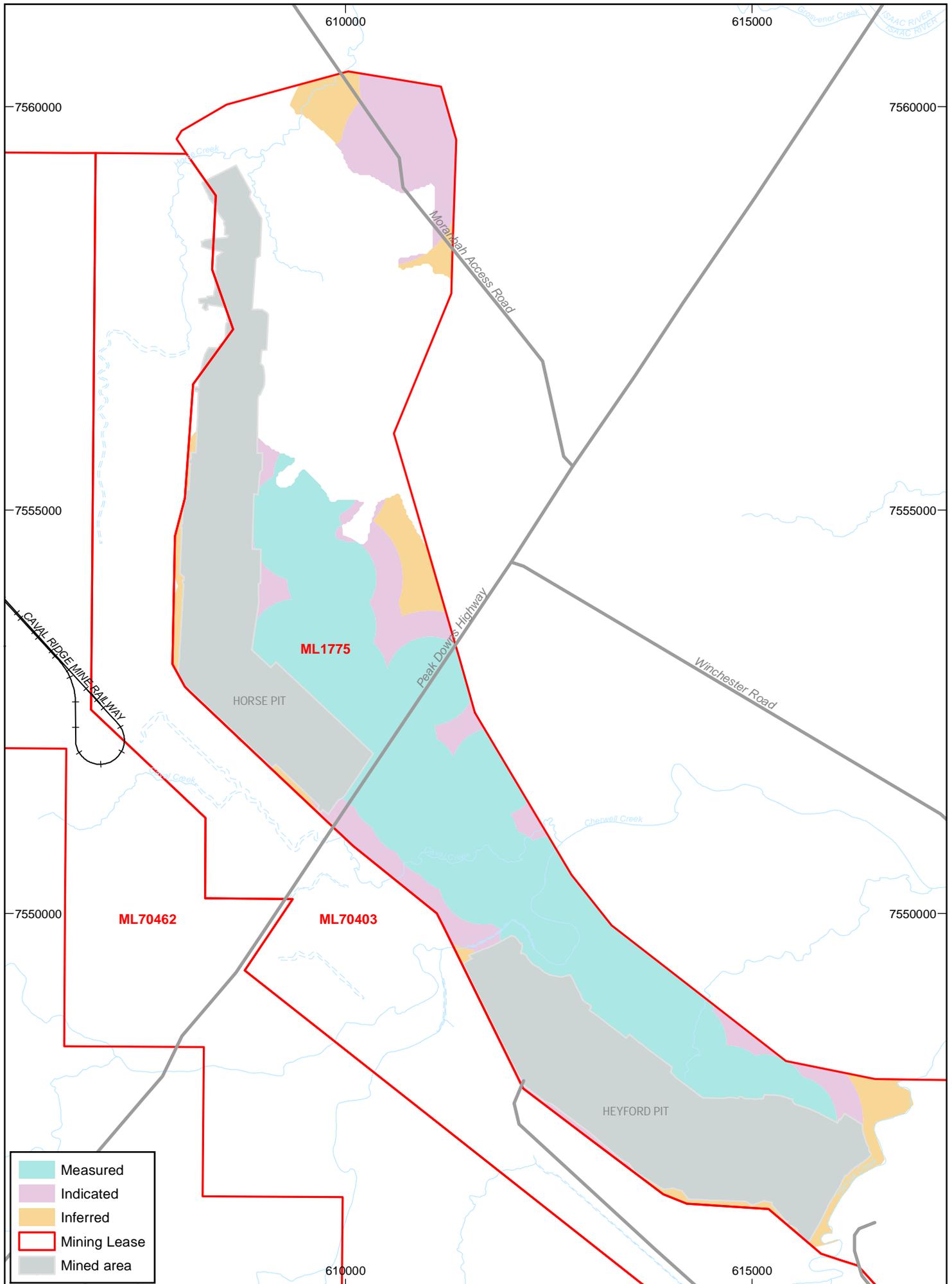


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



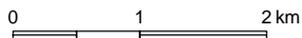
CAVAL RIDGE MINE
JORC RESOURCES - H161

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_H161.mxd	



BHP

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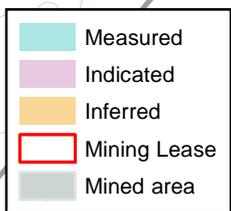
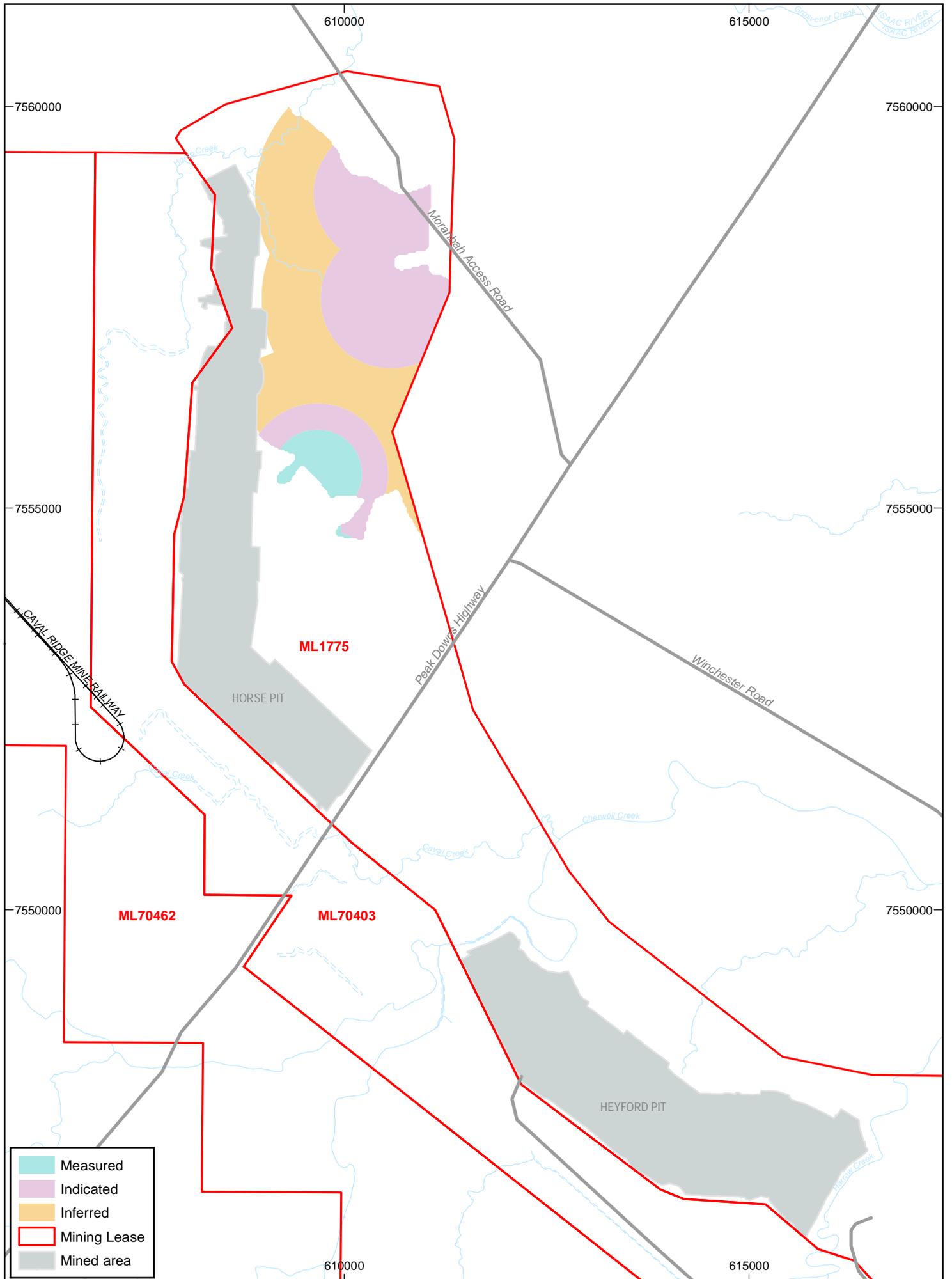


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



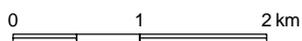
CAVAL RIDGE MINE
JORC RESOURCES - H162

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_H162.mxd	



BHP

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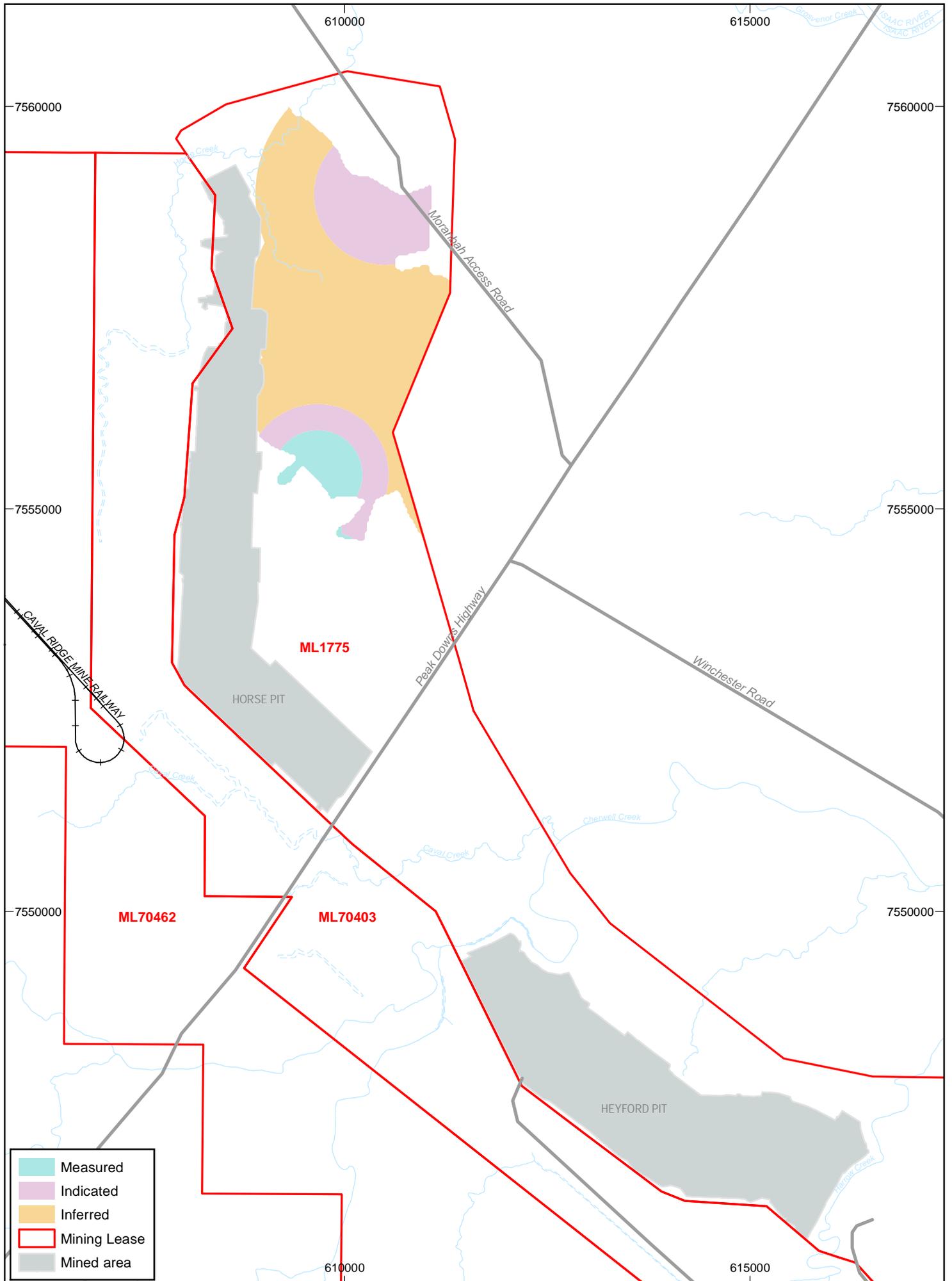


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



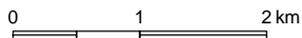
CAVAL RIDGE MINE
JORC RESOURCES - H1621

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_H1621.mxd	



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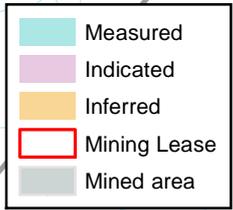
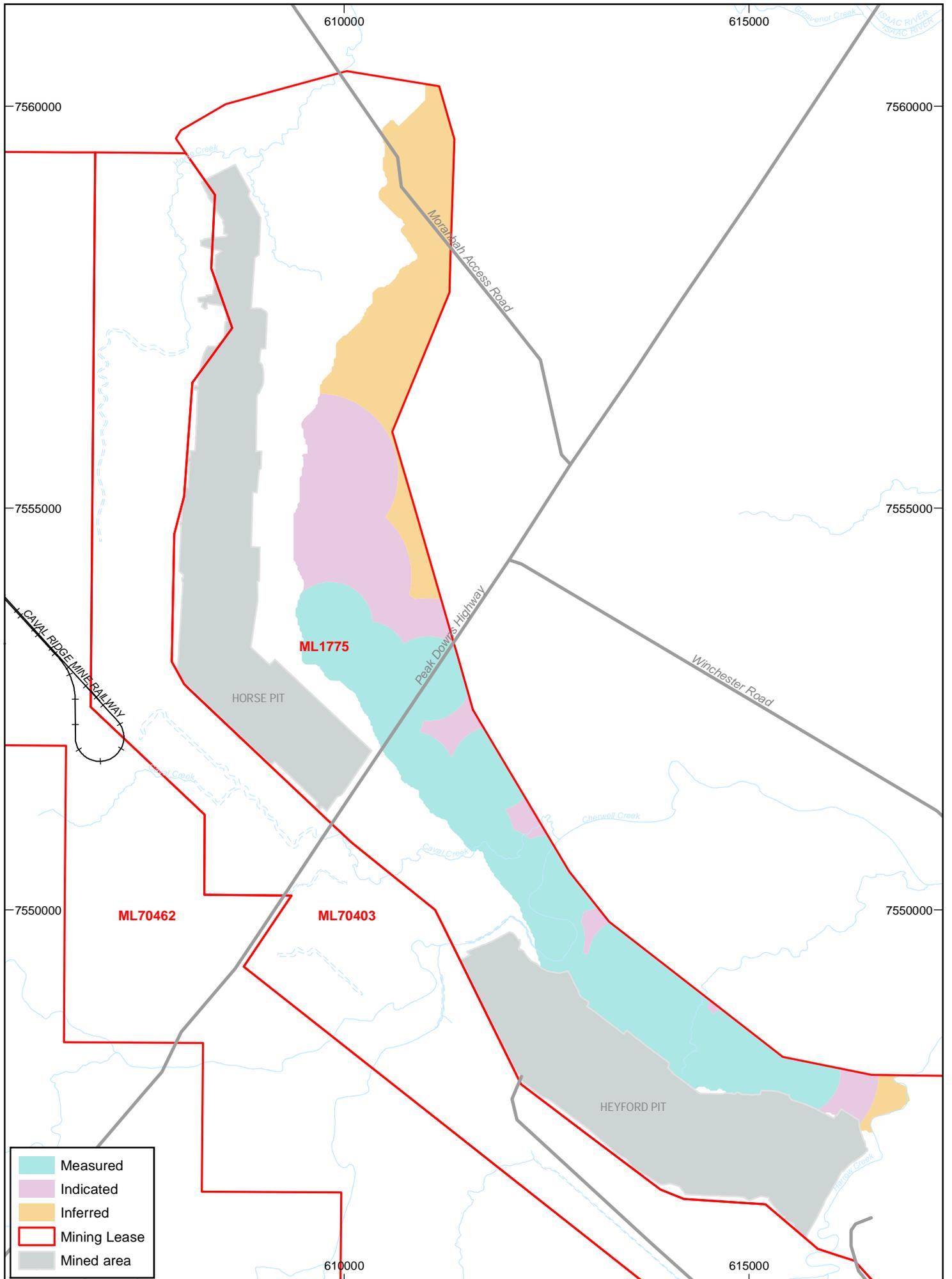


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



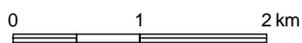
CAVAL RIDGE MINE
JORC RESOURCES - H1622

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_H1622.mxd	



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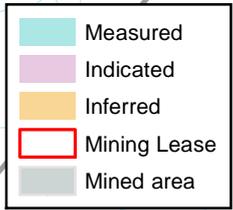
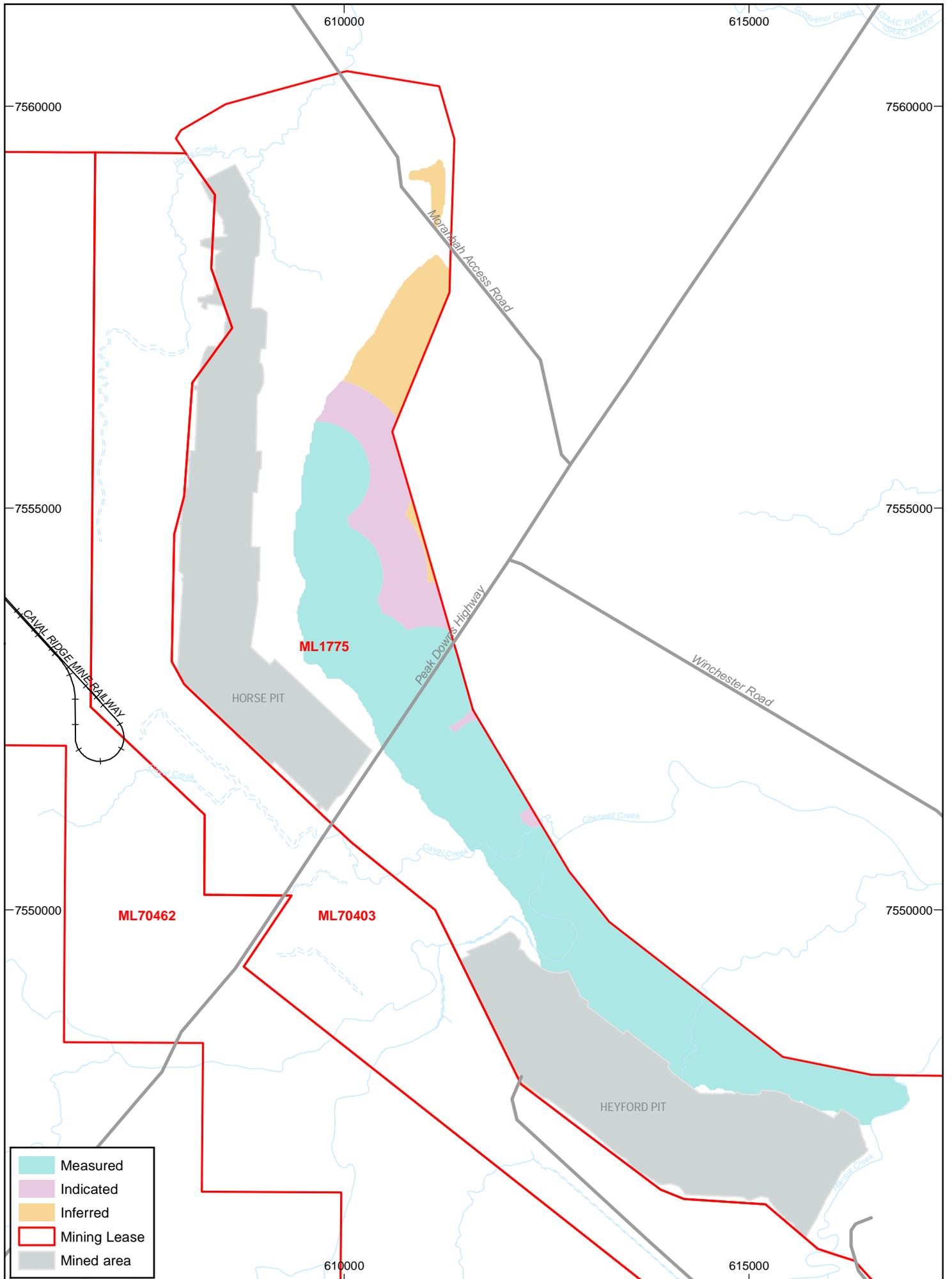


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



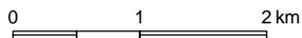
CAVAL RIDGE MINE
JORC RESOURCES - P07

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_P07.mxd	



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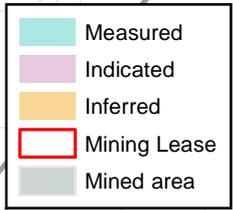
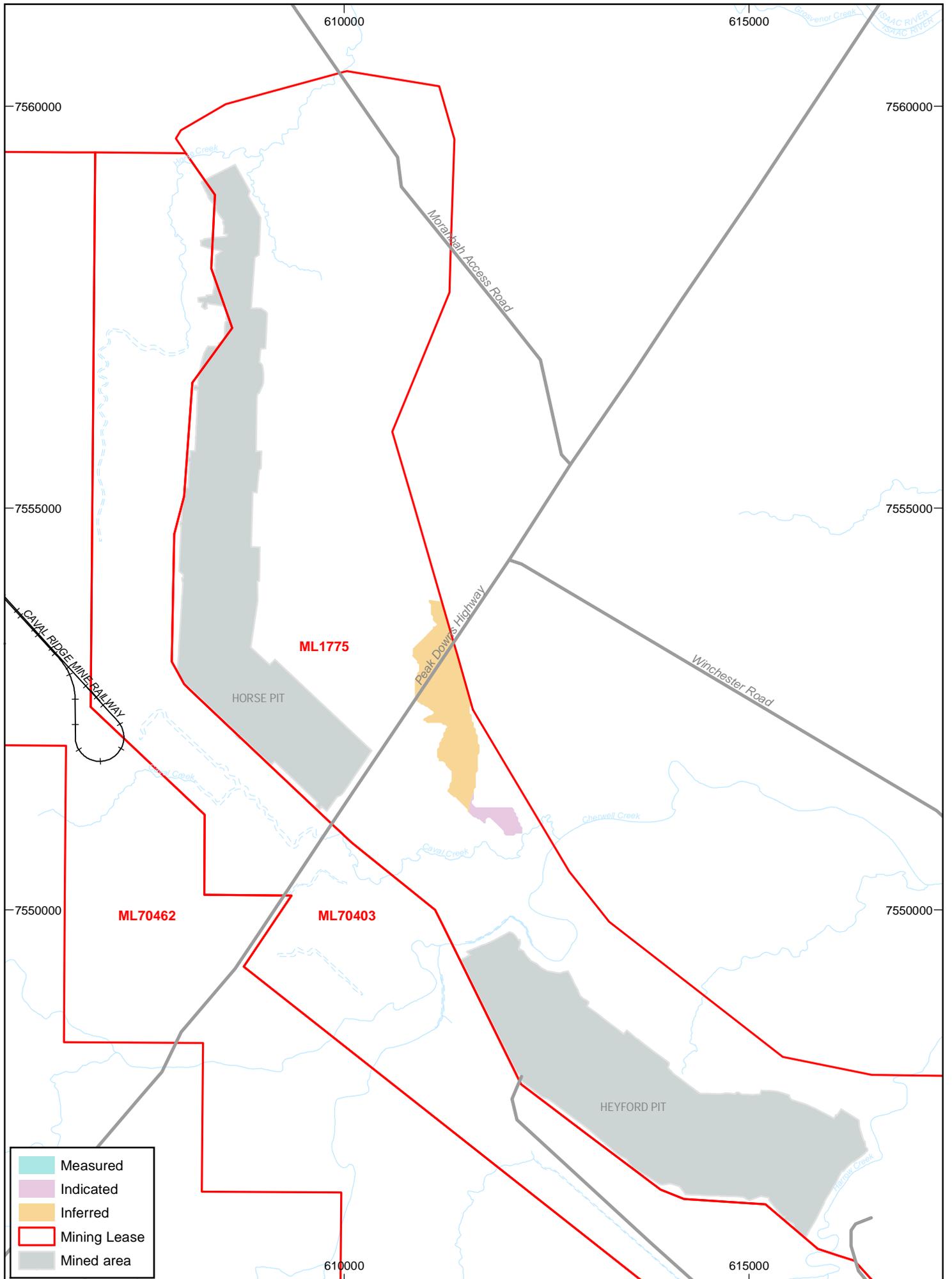


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



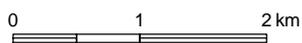
CAVAL RIDGE MINE
JORC RESOURCES - P08

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_P08.mxd	



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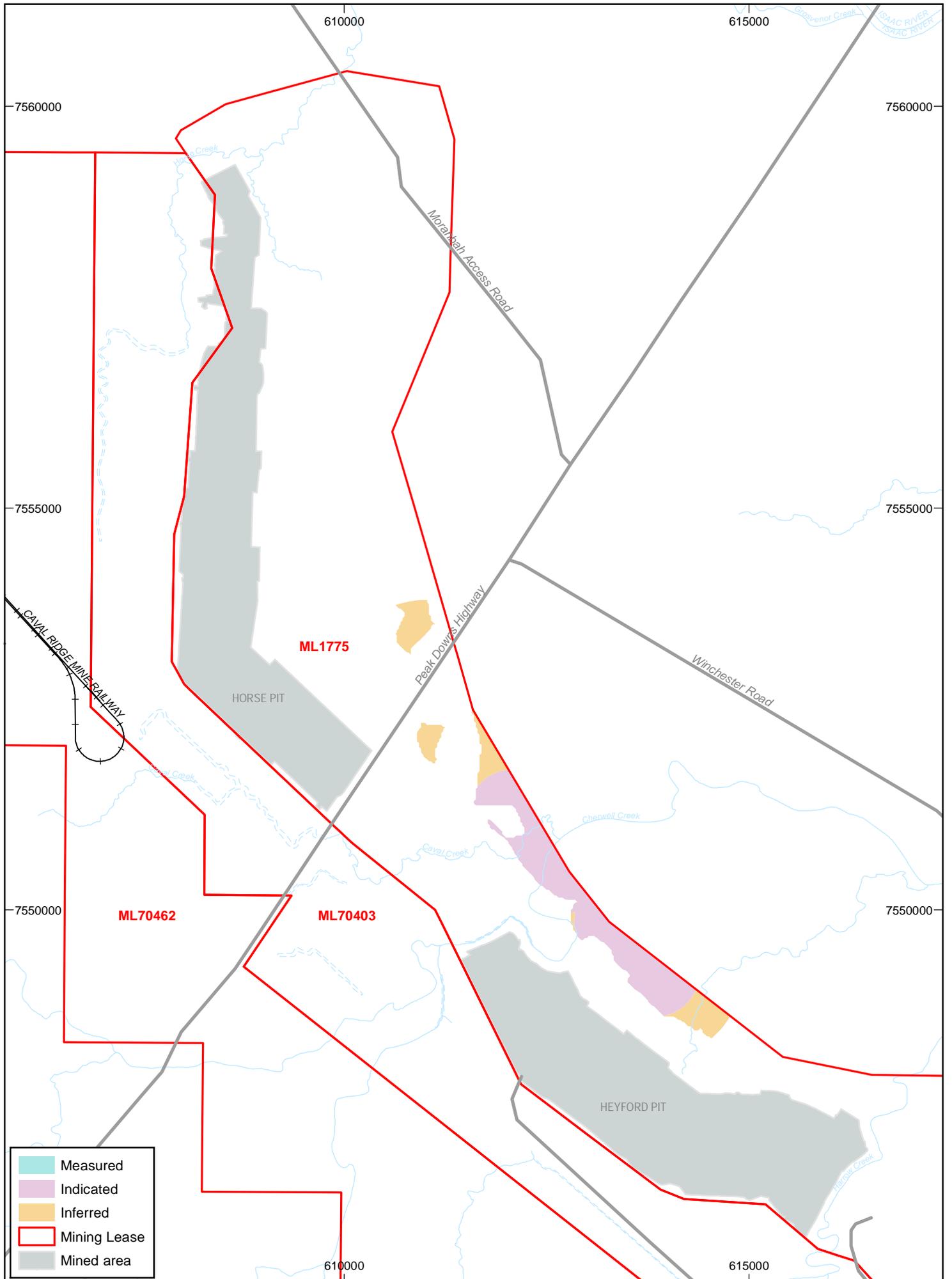


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



CAVAL RIDGE MINE
JORC RESOURCES - Q01

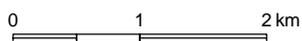
Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_Q01.mxd	



	Measured
	Indicated
	Inferred
	Mining Lease
	Mined area

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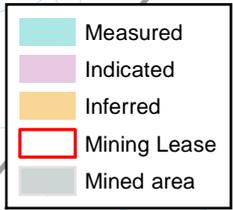
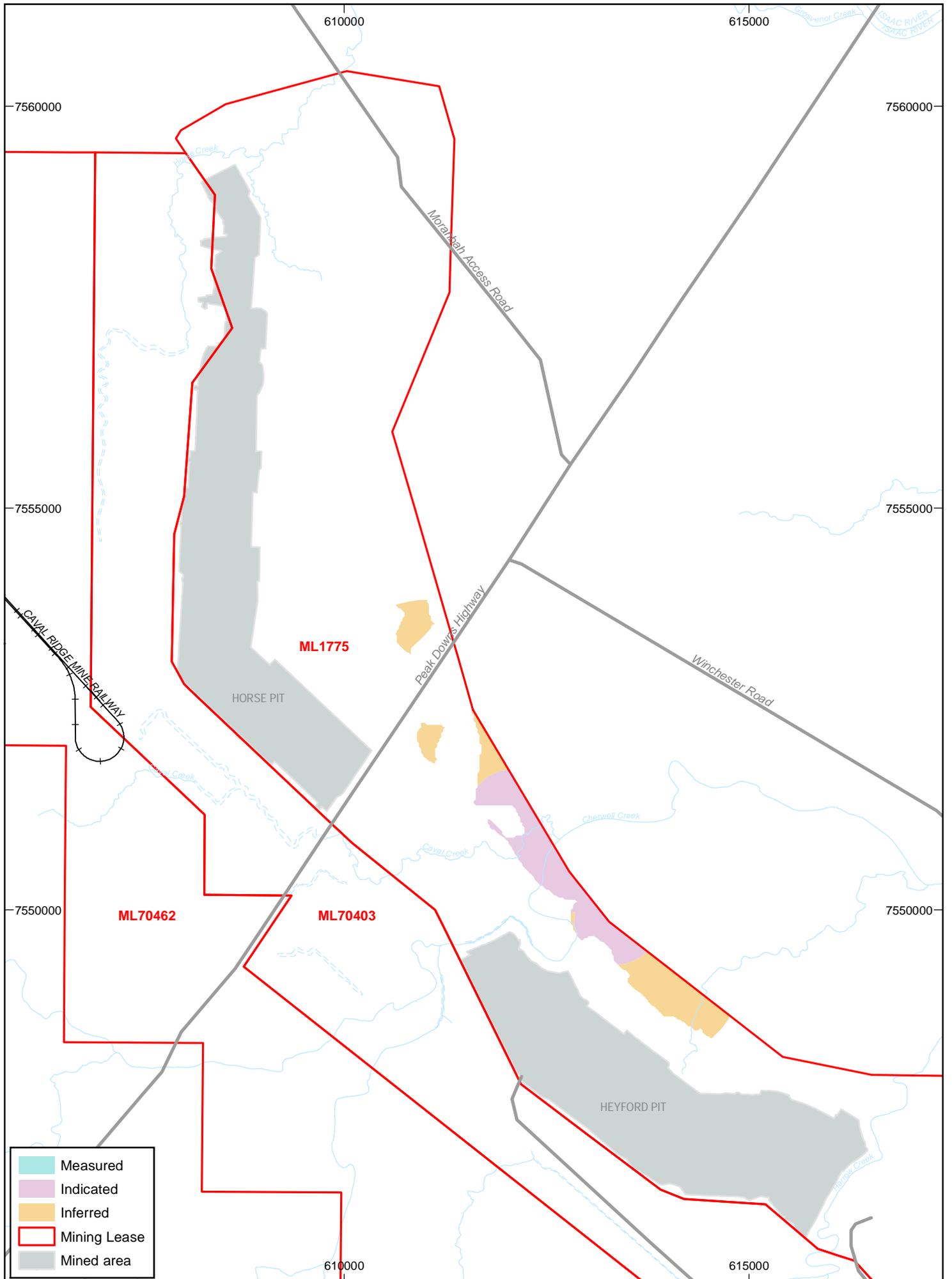


Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



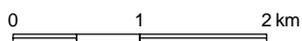
CAVAL RIDGE MINE
JORC RESOURCES - Q02

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_Q02.mxd	



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Transverse Mercator Projection.
AGD66 Datum AMG Zone 55.



CAVAL RIDGE MINE
JORC RESOURCES - Q03

Drawn: B.Lang	Date: 9/06/2020	Revision: 0
Checked: M.Godfrey	Filename: CVM_Q03.mxd	