# **Annual Review**

# Vickery Coal Mine

Vhitehaven Coal Mining Ltd SSD-5000 Whitehaven Coal Mining Ltd ML 1471, CL 316, ML 1718, AUTH 406 Whitehaven Coal Mining Ltd (ML 1471), Whitehaven Coal Mining Ltd (CL 316), Whitehaven Coal Mining Ltd (ML 1718), Whitehaven Coal Mining Ltd (AUTH 406) Not applicable <sup>1</sup> Whitehaven Coal Mining Ltd			
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# **1. STATEMENT OF COMPLIANCE**

The compliance status of the Vickery Coal Mine as at the 31st December 2020, is summarised in **Table 1** and further detailed in **Table 2**.

#### Table 1 - Statement of Compliance

Approval	Were all conditions of the relevant approval(s) complied with? <sup>1</sup>
Development Consent SSD-7480	Yes
Development Consent SSD-5000	Yes
EPBC 2012/6263	Yes
Coal Lease 316	Yes
ML 1471	No
Authorisation 406	Yes
ML 1718 (MLA 1, 2, 3)	Yes

<sup>1</sup>Vickery Coal Project Environmental Assessment referenced a number of water licences for the Project, however development, and hence utilisation of licences, is yet to commence.

#### Table 2 - Non-Compliances

Relevant Approval	Condition, Schedule & Number	Condition Description (Summary)	Compliance Status	Comment	Section
		Evidence to support the security		WHC requested written	
ML1464	51	was provided to the Minister is	Non Compliant	confirmation from the	10
& 1471		required to clearly demonstrate	Non-Compliant	Minister. Pending at time	10
		compliance.		of report.	

#### Table 3 - Key for Table 2

Risk Level	Colour Code	Description	
High	Non- compliant	Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence	
Medium Non- compliant		<ul> <li>Non-compliance with:</li> <li>Potential for serious environmental consequences, but is unlikely to occur; or</li> </ul>	
Low	Non- compliant	<ul> <li>Non-compliance with:</li> <li>Potential for moderate environmental consequences, but is unlikely to occur; or</li> <li>Potential for low environmental consequences, but is likely to occur</li> </ul>	
Administrative non- compliance	Non- compliant	Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions)	

# 2. INTRODUCTION

This is the sixth Annual Review (AR) produced for the Vickery Coal Mine (VCM), and has been prepared in accordance with Schedule 5, Condition 4 of Development Consent SSD-5000. The AR follows the format required by the NSW Government Annual Review Guideline (October, 2015).

The VCM is located approximately 15 kilometres (km) south-east of Boggabri and approximately 25 km north of Gunnedah in New South Wales (Refer to Figure 1). Mining operations at the previous VCM ceased in 1998 when approval from the NSW Department of Primary Industries (DPI) was granted to suspend operations and complete rehabilitation works on-site. Rehabilitation activities at the open cut and waste emplacement areas are now complete and the site is currently in closure. Whitehaven (WHC) acquired 100 percent (%) of the Coal Lease (CL) 316 and Authorisation (AUTH) 406 from Rio Tinto Limited in January 2010. ML1718 was issued under Part 5 of the NSW *Mining Act,* 1992 by the NSW Minister for Mineral Resources in September 2015.

The VCM (SSD 5000), to which this AR relates, was granted on the 19<sup>th</sup> September 2014. Construction and operation is yet to commence under SSD 5000.

Development Consent (SSD-7480) was granted to VCPL on 12 August 2020 by the NSW Independent Planning Commission as a delegate of the NSW Minister for Planning under Section 75J of the NSW Environmental Planning and Assessment Act, 1979 (EP&A Act). The Development Consent allows for the development of an open cut mine and associated infrastructure with a 25 year mine life, extracting run-of-mine (ROM) coal at up to 10 million tonnes per annum (Mtpa) and processing the coal, as well as coal from WHC's Tarrawonga Mine, at an on-site coal handling and processing plant (CHPP) for off-site transport by rail.

### 2.1 Mine Contacts

The management personnel responsible for the VCM, and their relevant contact details, are as follows:

- Mr Jacques du Toit, General Manager, Open Cut Operations. Contact (02) 6741 9309.
- Ms Alexandra Carynny, Environmental Officer. Contact (02) 6741 9321.

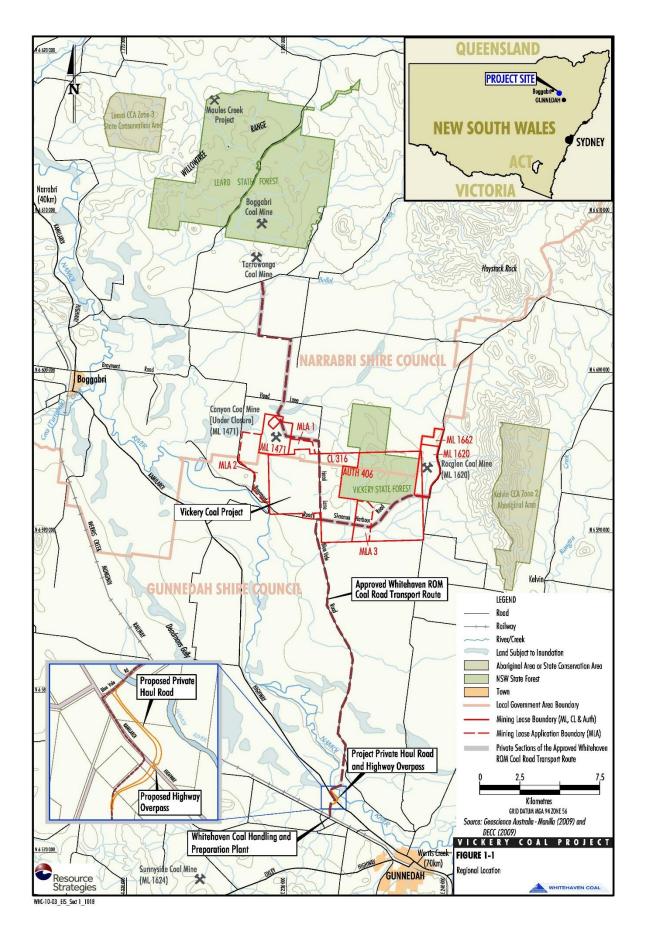


Figure 1 - Locality Plan

# 3. APPROVALS

### 3.1 Tenements, Licences and Approvals

**Table 4** identifies the approvals in place for the VCM at the end of the reporting period, the issuing/responsible Authority, date of issue, expiry date and relevant comments.

Issuing/Responsible Authority	Type of Lease, Licence,	Date of Issue	Expiry	
	Approval			
Independent Planning	Development Consent SSD-7480	12 <sup>th</sup> August 2020	11 <sup>th</sup> August 2045	
Commission of NSW	Development Consent COD-1400		August 2045	
Department of Planning,				
Infrastructure and Environment	Development Consent SSD-5000	19 <sup>th</sup> September 2014	31 <sup>st</sup> December 2044	
(DPIE)				
Australian Department of				
Agriculture, Water and the	EPBC 2012/6263	17 <sup>th</sup> May 2012	Continuing	
Environment.				
Department of Regional NSW –				
Division of Mining, Exploration	Authorisation 406	29 <sup>th</sup> November 1988	18 <sup>th</sup> November 2020	
and Geoscience (DMEG)				
Department of Regional NSW –				
Division of Mining, Exploration	Mining Lease 1471 (ML 1471)	7 <sup>th</sup> September 2000	7 <sup>th</sup> September 2021	
and Geoscience (DMEG)				
Department of Regional NSW –				
Division of Mining, Exploration	Coal Lease 316 (CL 316)	5 <sup>th</sup> June 1988	15 <sup>th</sup> June 2033	
and Geoscience (DMEG)				
Department of Regional NSW -				
Division of Mining, Exploration	Mining Lease 1718 (ML 1718)	15 <sup>th</sup> September 2015	15 <sup>th</sup> September 2036	
and Geoscience (DMEG)				

Table 4 - Tenements, Licences and Approvals

Note: Vickery Coal Project Environmental Assessment referenced a number of water licences for the Project however development, and hence utilisation of licences, is yet to commence.

# 4. OPERATIONS SUMMARY

### 4.1 Mining Operations

No mining operations have commenced for the VCM (refer to **Table 5**).

#### **Table 5 - Production Summary**

Material	Approved Limit	Previous Reporting Period (actual)	This Reporting Period (actual)	Next Reporting Period (forecast)
Waste Rock/Overburden	1,269 Mbcm <sup>1</sup>	0	0	0
ROM Coal/Ore	4.5 Mtpa <sup>2</sup>	0	0	0
Coarse Reject	N/A	0	0	0
Fine Reject (Tailings)	N/A	0	0	0
Saleable Product	N/A	0	0	0

<sup>1</sup>Environmental Impact Statement – Life of Mine

<sup>2</sup> Development Consent SSD-5000

### 4.2 Next Reporting Period

Operations forecast for the next reporting period is expected to include construction and initial mining activities.

The construction and initial mining stage is anticipated to take approximately 30 months based on sequencing of the major construction activities, with the bulk of significant construction earthworks to occur within a 12 - 18 month period, and will include:

- construction of the CHPP;
- construction of the rail spur and loop and train load-out facility;
- construction of the mine industrial area (MIA);
- construction of ROM and product coal stockpile pads;
- initial development of the box cut;
- construction of temporary infrastructure facilities;
- construction of temporary ROM coal stockpiles;
- construction of workshops and offices;
- construction of water supply bores and Namoi River pump station and pipelines;
- construction of dams, sediment dams, up-catchment diversions, channels and other water management infrastructure;
- construction of soil stockpile areas;
- construction of access roads and internal roads;
- closure of a portion of Braymont Road;
- construction of connection to the existing 66 kilovolt powerline and construction of substations and power supply;

- construction of ancillary infrastructure including consumable storage areas, laydown areas, explosives storage facilities;
- ongoing exploration activities; and
- other associated minor infrastructure construction, use of other plant and other activities.

Earthworks associated with the development of the above infrastructure would include the excavation of waste rock, gravel and coal material from within the VCM open cut footprint. The earthworks would include the initial development of the box cut, with a small volume of ROM coal extracted for stockpile pad treatment, commissioning activities and transport to the Gunnedah CHPP. Additionally, a small volume of coal from WHC's other mines may be delivered to the VCM for stockpile pad treatment and CHPP commissioning activities.

# 5. ACTIONS REQUIRED FROM PREVIOUS ANNUAL REVIEW

There were no actions required from DPI&E in relation to the 2019 Annual Review. However, **Table 6** indicates commitments identified by WHC from the last Annual Review.

#### Table 6 - Actions from the previous Annual Review

Action required from previous Annual	Requested	Action taken by the Operator	Where discussed
Review	by		in Annual Review
Continue CCC Meetings	Operator	CCC Meeting held in June and November 2020	Section 9
Weeds are to be regularly managed, monitoring to be continued and trends to be reviewed regularly.	Operator	Weed and feral animal monitoring was undertaken	Section 6.2.4
Continue environmental monitoring and reporting, as required	Operator	Environmental monitoring was continued	Section 6
Pursue the approval of the Vickery Extension Project.	Operator	Completed. Approval granted by IPC.	Section 2

# 6. ENVIRONMENTAL PERFORMANCE

### 6.1 Air Quality

Dust and air quality criteria for VCM is noted in SSD-5000 however, they are not relevant as no operational activities have occurred during the reporting period.

#### 6.1.1 Dust Monitoring

Construction of the VCM is yet to commence and as such no air quality monitoring for compliance purposes is undertaken. Monitoring of deposited dust is undertaken on a monthly basis, with results within the criteria of 4g/m<sup>2</sup>/month (**Table 7**).

Site	Property Name	Annual mean total insoluble solids (g/m <sup>2</sup> /month)
DG1	Ingleburn	3.32
DG2	Mirrabinda	2.24
V1	Greenwood/Shannon Harbour	1.52
V2	Greenwood/Shannon Harbour	1.33
V3	Welkaree/Tralee	2.68
V4	Shannon Harbour	1.58
V5	Wilga	1.43

#### Table 7 - Depositional Dust

#### 6.1.2 Air Quality Monitoring

 $PM_{10}$  is measured at a Whitehaven Coal owned property, approximately 1.5 km to the east of the northeastern boundary of the mining lease. For the majority of the year, the results were within the criteria. The mean annual  $PM_{10}$  particulate level was 19.1 µg/m<sup>3</sup> which was within the 30 µg/m<sup>3</sup> criteria. This value is consistent with the predicted mean annual  $PM_{10}$  particulate levels in the EIS (between 15 µg/m<sup>3</sup> and 35 µg/m<sup>3</sup>).

The 24 hour average  $PM_{10}$  particulate level was exceeded on 18 occasions during 2020. However, these exceedances are not due to the development as the site remains in closure and the measurements correlate with regional dust storms and the prolonged drought conditions. Total suspended particulate matter was within target criteria during the year with a value of 38.2  $\mu$ g/m<sup>3</sup>.

### 6.1.3 Key Environmental Performance/Management Issues

No key environmental performance/management issues were identified during the reporting period.

#### 6.1.4 Proposed Improvements to Environmental Management

No improvements are proposed within the next reporting period.

### 6.2 Biodiversity

#### 6.2.1 Threatened Flora

During the reporting period, WHC developed a Threatened Species Project Plan and a Translocation Strategy specific for the management of the Winged Peppercress threatened flora located at the VCM. In January 2020, refurbishment of existing fences of the Vickery Impact Area and Canyon Protection Area was

undertaken to exclude herbivore access from the two population areas. An experienced botanist undertook target inspections during the annual growing season (November and December) but due to the ongoing drought, there were no Winged Peppercress specimens identified; which was consistent with historic inspections. Modelling of the topography micro-relief within each fenced areas was undertaken to identify areas of potential localised ponding and thus target those areas for future inspections.

#### 6.2.2 Threatened Fauna

Construction of the VCM is yet to commence and as such, no monitoring of threatened fauna was conducted during the reporting period.

#### 6.2.3 Biodiversity Offsets

WHC is materially progressing towards the securement of offset properties to align with the requirements in SSD-5000. By the end of the reporting period, WHC had finalised the Willeroi Offset Conservation Agreement with the NSW Biodiversity Conservation Trust (BCT) inclusive of the Willeroi East property aiming to lodge and register with NSW Land Registry Service by 31 March 2021.

WHC continued to consult with NSW Department of Planning, Industry & Environment (DPIE) and Commonwealth Department of Agriculture, Water and the Environment (DAWE) during the reporting period to keep abreast of securement progress. Following registration of Conservation Agreements; WHC will prioritise negotiations of those biodiversity offset areas that NPWS has previously shown interest in being transferred to National Park Estate.

Biodiversity management of the Willeroi BOA was ongoing during the reporting period. Maintenance works have been undertaken as per the Willeroi West Biodiversity Management Plan, which include;

- Multiple assessments, inspections and surveys including;
  - o seed assessment,
  - heritage fencing inspections,
  - o quarterly weed monitoring,
  - o quarterly feral animal monitoring,
  - o annual fuel load monitoring, and
  - ecological monitoring program.
- Maintenance weed spraying,
- Maintenance of fire breaks, and
- Feral animal control program resulting in the management of foxes, pigs, wild dogs, hares and kangaroos.

Ecological monitoring found that all 8 sites exceeded the performance criteria for native plant species richness which did not change from the monitoring undertaken in 2019. Winter bird surveys recorded 5 threatened species (Dusky Woodswallow, Brown Treecreeper, Diamond Firetail, Little Lorikeet and Turquoise Parrot. The average species richness at the 4 woodland sites was 2.75 (range 1 to 4), slightly lower than the 2019 result of 3.25 mean species (range 2 to 4). Ten (10) species were positively identified through ANBAT recordings. One frog and 10 reptile species (average 4; range 3 to 6) were detected during diurnal

herpetofauna surveys of 4 sites. Spotlighting surveys at 4 sites detected 24 species of vertebrate taxa (average = 10.75; range = 9 to 13).

#### 6.2.4 Weeds and pests

Given their proximity to one another, feral animal monitoring and control was undertaken on the Canyon Coal Mine which is considered to be applicable to the VCM. Monitoring cameras have been successful in monitoring pests. Monitoring indicates that feral pig and fox abundance has improved since 2019 with a score of low, compared to scarce to medium in 2019. Four pigs and twenty-four foxes were managed in 2020.

Kangaroos had a high abundance, of which ten were managed during 2020. No further control programs to the existing quarterly program are required, however quarterly monitoring will continue and trends will be reviewed regularly.

Weed monitoring found high densities of Patersons Curse, African Boxthorn and Prickly Pear. Approximately 155 ha worth of weeds was sprayed in July 2020.

#### 6.2.5 Key Environmental Performance/Management Issues

No key environmental performance/management issues were identified during the reporting period.

#### 6.2.6 Proposed Improvements to Environmental Management

No improvements are proposed within the next reporting period.

### 6.3 Blasting

Blasting criteria for the VCM are noted in SSD 5000 however, they are not relevant for this reporting period as no blasting has been undertaken on site.

### 6.4 Operational Noise

Noise criteria for the VCM are noted in SSD 5000 however, they are not relevant for this reporting period as site operations and coal haulage have not begun on site.

### 6.5 Aboriginal Heritage Management

A number of cultural heritage items have been identified on the site. A total of 34 Aboriginal cultural heritage sites (including those sites that have been previously recorded and were reinspected as part of the field surveys) were identified during the field surveys of the Project mining area in 2012.

No Aboriginal management measures were put in place in 2020 due to the status of the mine site.

Consultation with Registered Aboriginal Parties for the Vickery Aboriginal Cultural Heritage Management Plan was conducted during the reporting period.

### 6.6 Natural Heritage

There are no features of natural heritage within the Project Approval area, and hence no specific management procedures are required.

### 6.7 ENVIRONMENTAL PERFORMANCE SUMMARY

An environmental performance summary for VCM is presented in **Table 8** below.

#### Table 8 - Environmental Performance

Aspect	Approval Criteria/ EIS Prediction	Performance During the Reporting Period	Trend/Key Management Implications	Implemented/Proposed Management Actions
Mean annual dust deposition	4 g/m <sup>2</sup> /month	Compliant with criteria.	Within criteria	N/A - site not operational
Mean annual PM <sub>10</sub> particulate level	30 µg/m³	19.1 µg/m³	Within criteria	N/A - site not operational
24 hour average PM <sub>10</sub> particulate level	50 µg/m³	18 individual days where PM <sub>10</sub> levels were above the criteria	No operational activities at VCM – exceedances not deemed to be mine related	N/A - site not operational
Mean annual Total Suspended Particulate (TSP) matter	90 µg/m³	38.2 µg/m <sup>3</sup>	Within criteria	N/A
Biodiversity	EPBC 2012/6263 and 3(33) of SSD- 5000, requires the translocation and protection of the Winged Peppercress.	Progress made towards protecting the species.	N/A	Continue regular monitoring and maintenance of fence.
Erosion	ML 1471 (15 & 47)	Continued erosion issues within the final void.	Erosion within Canyon void. Void is a closed system.	Areas requiring erosion repair within the Canyon Void were identified and remediation work was completed by September 2020.
Water	SSD-5000, Schedule 3 (25)	No water discharges on site.	No operational activities at VCM	N/A

## 7. WATER MANAGEMENT

### 7.1 Surface Water Management

#### 7.1.1 Environmental Performance/Management

Construction of the VCM is yet to commence and as such no water quality monitoring for compliance purposes is undertaken. No water take occurred during the reporting period.

#### 7.1.2 Key Environmental Performance/Management Issues

No key environmental performance/management issues were identified during the reporting period.

#### 7.1.3 Proposed Improvements to Environmental Management

No improvements are proposed for the next reporting period.

### 7.2 Groundwater Management

#### 7.2.1 Environmental Performance/Management

No groundwater monitoring for compliance purposes has been undertaken during the reporting period, as construction of the VCM is yet to commence.

#### 7.2.2 Key Environmental Performance/Management Issues

No key environmental performance/management issues were identified during the reporting period.

#### 7.2.3 Proposed Improvements to Environmental Management

No improvements are proposed for the next reporting period.

# 8. REHABILITATION PERFORMANCE DURING THE REPORTING PERIOD

### 8.1 Status of Mining and Rehabilitation

No disturbance has yet been undertaken for the VCM and as such, there has been no requirement for rehabilitation (**Table 9**).

#### Table 9 - Rehabilitation Status

Mine Area Type <sup>1</sup>	Previous Reporting Period (Actual) (ha) 2019	This Reporting Period (Actual) (ha) 2020	Next Reporting Period (Forecast) (ha) 2021
Total Mine Footprint	0	0	0
Total Active Disturbance	0	0	0
Land Being Prepared for Rehabilitation	0	0	0
Land Under Active Rehabilitation	0	0	0
Completed Rehabilitation	0	0	0

<sup>1</sup>Refer to Annual Review Guidelines (p.11) for description of mine area types.

### 8.2 Post Rehabilitation Land Uses

Two final rehabilitation land uses are to be established at Vickery – land suitable for grazing (780 ha) and native forest/woodland (1,360 ha).

### 8.3 Key Rehabilitation Performance Indicators

No rehabilitation occurred during the reporting period.

### 8.4 Renovation or Removal of Buildings

No renovation or removal of buildings occurred during the reporting period.

### 8.5 Other Rehabilitation Undertaken

No rehabilitation occurred during the reporting period. No additional rehabilitation of infrastructure, shafts, adits, dams, fence lines or bunds occurred during the reporting period.

### 8.6 Departmental Sign-off of Rehabilitated Areas

Departmental sign-off has not been requested for any rehabilitated areas.

### 8.7 Variations in Activities against MOP/RMP

Not applicable.

### 8.8 Trials, Research Projects and Initiatives

No rehabilitation trials, research projects or other initiatives were undertaken during the reporting period.

### 8.9 Key Issues to Achieving Successful Rehabilitation

No specific issues in achieving rehabilitation success have been determined to date.

### 8.10 Actions for Next Reporting Period

Ongoing environmental monitoring and management, as per SSD-5000.

# 9. COMMUNITY

In accordance with Schedule 5, Condition 6 of SSD-5000, the Community Consultative Committee (CCC) met in June and November 2020.

One complaint was received during the 2020 reporting period.

Community contributions are managed in accordance with the Whitehaven Coal Donations and Sponsorship Policy. Whitehaven Coal donated \$361,398 to various local Gunnedah and Regional groups during the reporting period.

# **10. INDEPENDENT AUDIT**

No independent audit was undertaken for the VCM during the reporting period. The first scheduled Independent Environmental Audit (IEA) will take place within 2 years from the commencement of construction.

The Canyon Coal Mine and the Vickery Coal Mine both overlap ML 1471. In 2019, Canyon Coal Mine IEA produced an action relating to the Canyon Void.

An action from the IEA relating to ML 1471 advised that WHC acquire evidence to clearly demonstrate compliance with condition 51 for the security bond that was paid to the Regulator. In 2019, WHC had requested written confirmation from the Regulator to demonstrate compliance with this condition. A follow up request was sent to the Department in February 2021 and WHC are awaiting the Departments advice.

A majority of the audit actions were completed in 2019. One action was completed in 2020 which relates to erosion on the inside walls of the void. Some items are awaiting confirmation from government authorities. The next IEA for Canyon Coal Mine is due to be completed in September 2021.

# 11. INCIDENTS AND NON-COMPLIANCES DURING THE REPORTING PERIOD

### **11.1 Reportable Incidents**

There were no reportable incidents recorded during the reporting period.

### 11.2 Non-compliances

There were no non-compliances recorded during the reporting period.

### 11.3 Regulatory Actions

No penalty notices were received in 2020.

# 12. ACTIVITIES TO BE COMPLETED IN THE NEXT REPORTING PERIOD

The following measures will continue, or be implemented, in the next reporting period to improve the environmental or community performance of the operation:

- Continued undertaking of the CCC meetings;
- Continuation of weed and feral animal monitoring on-site to guide management actions, and
- Continued environmental monitoring and reporting, as required.

# 11. REFERENCES

Annual Review Guideline – Post Approval requirements for State significant mining developments (October 2015), *NSW Government, available:* <u>https://www.planning.nsw.gov.au/en/Policy-and-Legislation/Mining-and-</u> <u>Resources/~/media/3AA21D35168042FE813DD0FB92E00E58.ashx</u>, accessed on 4/01/2021