

Illawarra Coal

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20 January 2012

Department of Planning and Infrastructure
Manager Mining Assessment Unit
GPO Box 39
SYDNEY NSW 2001
Attn: Howard Reed

Dear Howard

**Response to Submissions
s75W Modification 2
Appin Mine Surface Gas Management Project (08_0256)**

Thank you for providing submissions received in response to the public exhibition of the s75W Modification 2 for the Appin Mine Surface Gas Management Project (08_0256). The Environmental Assessment was on public exhibition between 29 November 2011 and 22 December 2011. Illawarra Coal has considered the matters raised in the submissions and our response is provided in Appendix A. This response is an update of the document provided on 23 December 2011.

A revised Statement of Commitments is provided in Appendix B. Further plans and images outlining the access to MSGD Site 1 is provided in Appendix C.

We look forward to Project Approval as soon as possible. If you have any queries please contact the undersigned or Adam West (Approvals Advisor (Surface)) on 0438418537 or Adam.T.West@BHPBilliton.com.

Yours sincerely,



Bruce Blunden
Manager – Environmental Approvals

Illawarra Coal Holdings Pty Ltd
ABN 49 004 028 077

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Appendix A

Illawarra Coal response to Submissions

Agency Submissions

1. Office of Environment & Heritage – Heritage Branch

The Heritage Branch acknowledged that no impacts to any known cultural heritage site will occur as a result of this project. Illawarra Coal has revised the Statement of Commitments as requested by the Heritage Branch (see Appendix B).

2. DTIRIS – Division of Resources and Energy (DRE)

Mine Safety Issues

Mine safety is the highest priority for Illawarra Coal in the design, implementation and operation of all our infrastructure and activities. Well design, construction, casing and grouting, testing and final rehabilitation for our Mine Safety Gas Drainage Projects are undertaken in accordance with the American Petroleum Institute (API) standard. The API standard is generally acknowledged as providing the most stringent and conservative safety and environmental standard for wells of this nature. All the issues raised by DRE have been recognised by Illawarra Coal and form a fundamental part of the design and implementation of this project.

Rehabilitation Issues

The original Environmental Assessment for the Appin Mine Surface Gas Drainage Project, as well as the Environmental Assessment for this modification, adequately describes the rehabilitation sequence and standards that will be applied during various phases of the project. Note that all well sites and surface infrastructure are located on highly disturbed land that is currently used for low value agricultural purposes. Illawarra Coal has implemented progressive rehabilitation of infrastructure and well sites during this project. As described in the Environmental Assessment and supporting Management Plan;

- interim rehabilitation of well and infrastructure sites includes removal of all construction equipment, reduction in drill pad size, and temporary revegetation of disturbed land with pasture species to minimise potential for erosion and sedimentation, and to improve visual amenity, and
- final decommissioning of well and infrastructure sites includes removal of all equipment and infrastructure, decommissioning of the boreholes in accordance with EDG01 Borehole Sealing Requirements on Land, rehabilitation of the disturbed sites to the pre-existing landform, and reinstatement of the pre-existing vegetation type.

Examples of the progressive rehabilitation of Mine Safety Gas Drainage infrastructure are shown below.



A well site soon after construction has been completed with equipment removed, well infrastructure installed and drill pad temporary rehabilitation installed.



A well during operation. Site temporarily rehabilitated to pre-existing landform and vegetation.



Site rehabilitation soon after well plugged and site landform shaped to pre-existing surface.



Site approximately six months after infrastructure removal and final rehabilitation completed.

Illawarra Coal does not consider that additional information on the rehabilitation sequence or standards for this project is warranted, particularly given our commitment to progressive rehabilitation in the Statement of Commitments and our current rehabilitation performance.

Illawarra Coal will amend the Appin Mine Mining Operations Plan (MOP), including an updated rehabilitation cost estimate to cover the associated liability, for this project in consultation with DRE staff from the Wollongong office. The amendment to the MOP will occur during 2012.

3. Wollondilly Shire Council (WSC)

Visual Aspects

Illawarra Coal has selected the two MSGD site locations to balance the varying aspects including:

- Operational requirements and location with respect to underground Mining activities,
- Providing adequate access to the site's while minimising disturbed areas,
- Using existing topography as much as possible to shield surface operations.

Due to the topography and the locations of adjacent dwellings/infrastructure in the Project area it is impossible for the MSGD sites to be completely out of sight from public view. Their size will be minimised by progressively rehabilitating and re-vegetating disturbed areas as promptly as practicable.

To shield the MSGD site compounds 1 and 2 during the drilling phase from public view as much as possible Illawarra Coal will install noise barriers and shade cloth around the perimeter of these compounds. These facilities would be of a colour that is sympathetic to the adjacent area, to better blend these sites into the existing rural aesthetics of the area. To minimise the visual impact of 24 hour drilling Illawarra Coal will consider the location and shielding of lights, where possible, to prevent unnecessary light spillage from night time drilling operations.

The location of the proposed access roads have been selected to minimise the extent of cut and fill and vegetation disturbance. The Appin Mine Ventilation Shaft #6 (VS#6) access road referred to in the WSC submission near Spaniards Hill differs from the access roads in this Mine Safety Gas Project in that the VS#6 access road will be a long term, dual carriageway heavy vehicle, more substantial facility, while the roads for this Project will be much less significant and the Project scheduled for a much shorter duration. Any cut and fill required for temporary access roads will be minimised. Temporary roads installed for this Project will be rehabilitated at MSGD completion unless requested otherwise by the applicable landholders.

Road Sight Distance

The Menangle Road access to MSGD Sites 1 and 2 has been designed to be compliant with the Austroads "Guide to Road Design Part 3: Geometric Design (2010)". The access designs have been developed in consultation with Engineering Staff from Wollondilly Shire Council (also see response to Roads and Maritime Services submission).

Illawarra Coal arranged a meeting with WSC Development Engineering representatives at WSC offices on the 22nd December 2011 to review the Project proposal and to establish both the appropriate review/approval process upon receipt of the development approval and the applicable fees. During this meeting it was requested that Illawarra Coal supply a copy of the detailed design drawings to RMS at the same time it supplies them to WSC for WSC's review and approval. Illawarra Coal was advised that any consultation with the RMS on the access design would be

initiated by WSC. Illawarra Coal will apply for all relevant traffic control and shall obtain Section 138 consent under the Road Act, 1993 from WSC, following granting of this approval.

Construction Hours

The Environmental Assessment for this modification considers construction and vertical drilling activities for extended Saturday hours of 8:00 am until 6:00 pm. With the proposed noise mitigation measures in place the extension of construction hours is not predicted to result in the generation of noise in excess of the relevant criteria. This extension of hours will decrease the total duration of these activities. The Saturday finish time is also consistent with the VS#6 Part 3A approval reference 10_0079.

Threatened Flora

As stated in the Environmental Assessment for this modification, no threatened species were identified in the area of disturbance. Vegetation clearing will be limited to the areas proposed.

Road Condition

The increase in traffic on Menangle Road from this Mine Safety Gas Project will be minor in comparison to the volumes already encountered from general use and from other projects already occurring in the area. Should any damage occur to road infrastructure from this Project it would be expected this would occur immediately at the entrance to the MSGD Sites 1 and 2 due to trucks entering and crossing. Illawarra Coal will consult with WSC prior to commencement of this Project to discuss if a pre-project inspection would be appropriate to determine the existing road condition of these entrances. In the event where damage was attributable directly due to the Project, Illawarra Coal would meet the costs of repair.

Illawarra Coal does not believe a road damage deposit is appropriate.

4. Mine Subsidence Board (MSB)

The Mine Subsidence Board had no objection to the proposed development.

5. Roads & Maritime Services (RMS)

The preferred access location for MSGD Site 1 was selected because it was identified as the safest location without constructing the access road over a creek / drainage line (which would be required by the contingency access point) and was compliant with the Austroads "Guide to Road Design Part 3: Geometric Design (2010)".

It is recognised the sighting distance for Site 1 is greater for the contingency access location, however the sighting distance for the preferred access location is compliant with the Austroads "Guide to Road Design Part 3: Geometric Design (2010)". The minimum sight distance calculated

from Table 5.4 of the aforementioned standards is 193m based on a reaction time of 2.5 seconds, a negative grade of 4% and a speed limit of 100km per hour. From our site analysis (see Appendix C), the sight distance is in the vicinity of 230m from the south west direction along Menangle Road.

Vehicles (in particular heavy vehicles) will only be entering / exiting the site from / to the south west direction on Menangle Road which limits the reduction in sighting distance as a result of the curvature of the road (the curvature of the road reduces the sighting distance on the southbound which is less critical due to the direction of site traffic).

In summary, the proposed access location for Site 1 was selected to limit the area of disturbed land, eliminate any disturbance to a natural waterway (the creek), reduce the risk of disturbing heritage items whilst complying to the relevant Austroads Standards (note: also complies with RTA Road Design Standards (1988)).

The preferred access option is the most appropriate location for access. Notwithstanding the above, Illawarra Coal retains the option to revert to the contingency access should the preferred access be unable to meet RMS' requirements.

All other issues raised by RMS are acceptable to Illawarra Coal.

6. Office of Environment and Heritage - Environmental Protection Authority (EPA)

Noise

Illawarra Coal concurs with the suggestions made by the EPA and the noise section of the Environmental Management Plan has been updated accordingly. The revised EMP is attached.

Cumulative Noise Impacts

The vertical wells associated with Longwall 704 will be drilled during daytime hours only. These activities will coincide with daytime construction activities at Ventilation Shaft #6. Illawarra Coal is required to comply with strict noise limits and monitoring requirements associated with the Ventilation Shaft #6 project approval. We do not believe that these activities in combination will create exceedance of these criteria.

MRD drilling for wells associated with Longwall 705 are well shielded from residential receivers by site topography. Previous MRD drilling for Longwall 704 was much more exposed to residential receivers by the site topography and monitoring demonstrated these activities to comply with night time noise limits. While MRD drilling may coincide with night time drilling operations at Ventilation Shaft #6, given the noise mitigation measures that are proposed at both MRD and Ventilation Shaft #6 sites, the combined operations will be within the required criteria.

7. Department of Primary Industries (DPI)

Agriculture

The actions identified by the DPI form part of the Environmental Assessment and our Statement of Commitments, and as such, will be implemented during the course of this project.

Office of Water (NOW)

Illawarra Coal applied for a licence under Part 5 of the Water Act to intercept groundwater as a result of our operations at Appin Mine, within Consolidated Coal Lease 767, on 7 August 2008. To date NOW has not completed the granting of the licence.

It is expected that less than 3ML/year will be produced from the gas extraction boreholes which are also located in CCL767. The volumes removed from site will be monitored and it is expected that the total volume removed from CCL767 will be consistent with the application before NOW. The volume of water removed from the borehole project will not report to the mine water.

Drilling operations for this project will be undertaken by a drilling contractor holding a water drillers license valid in NSW. Well design will be undertaken to meet the American Petroleum Institute (API) standards.

The current well designs for the goaf gas drainage vertical bores are not cased into the Bulgo Sandstone as it is from this geological unit that gas will be drawn from. The bores are designed to remain open to enable efficient liberation of gas into the well. These wells are designed to maximise the removal of strata gas from the Bulgo Sandstone to resolve mine safety issues. The Bulgo Sandstone is not a productive aquifer and there are limited licenced water bores into the Bulgo Sandstone in the area of the lease. The minimisation of impacts on the Hawkesbury Sandstone aquifer above the gas zone is achieved by casing and grouting into the top of the Bulgo Sandstone. The MRD and MSGD wells are targeting removal of gas from the Bulli Seam and Scarborough Sandstone and, as such, are cased to below the Bulgo Sandstone. Bores will be constructed to API Standards, which are consistent, or in many aspects, exceed the *Minimum Construction Requirements for Water Bores* Standard.

In summary, as the NOW Recommended Conditions of Approval are already largely addressed by the existing licence application, industry standards, or bound in Part 3A Approvals, Illawarra Coal does not believe they are warranted on top of those commitments and conditions that already exist.

Appendix B

Revised Statement of Commitments

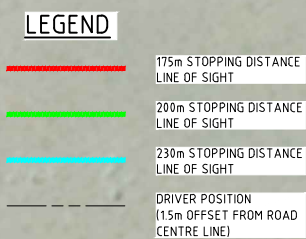
Objective	Commitment
<i>Greenhouse Gas Emissions</i>	
Minimise impacts to the environment associated with GHG emissions.	- Subject to obtaining RTA/ARTC approval and/or any unforeseen construction delays to the under-bore beneath the road and rail corridor, BHPBIC will maximise the reticulation of goaf gas to EDL for electricity generation to minimise the emission of Greenhouse Gas emissions from the extraction of goaf gas associated with Longwall 703-705. (Note: this is the preferred option). - BHPBIC will implement a temporary flaring system to minimise GHG emissions from the extraction of goaf gas associated with Longwall 703 after three months of commissioning the secondary extraction plant. Flaring will occur until the road and rail corridor can be completed and connected to the EDL reticulation system. - BHPBIC will maximise the reticulation of goaf gas to the EDL to minimise the emission of GHG from the works associated with Longwall 704 and 705. - If unplanned and prolonged goaf gas venting occurs, BHPBIC will investigate the implementation of a flaring capability to minimise GHG emissions. - BHPBIC will flare methane gas drained from the MSGD sites.
<i>Working Hours - Construction</i>	
Minimise impacts on the local area from construction and site implementation.	- BHPBIC will carry out vertical well drilling and Hume Highway under-boring six days per week during daylight hours. - BHPBIC will drill the MRD and horizontal steered boreholes 24 hours per day, seven days per week until complete (approx. 13 week process for each well). - BHPBIC will conduct construction of the goaf gas reticulation pipeline six days per week during daylight hours. - BHPBIC will carry out extraction plant implementation activities six days per week during daylight hours.
<i>Working Hours – Operation</i>	
Minimise impacts on the local area from operation of the extraction plant.	The extraction plant(s) will operate 24 hours per day, seven days per week until goaf gas is depleted.
<i>Noise</i>	
Minimise noise impacts from the Appin gas drainage project activities on sensitive	- BHPBIC will endeavour to use the quietest available drilling plant, which is regularly maintained and fitted with appropriate mufflers. - Orient the drill rig and equipment so that the quietest side is faced toward the

Objective	Commitment
receivers.	nearest receivers where it is possible to do so. - Place temporary noise barriers around the drill rig. - Affected neighbours will be contacted and informed of likely duration of work, noise mitigation measures to be installed and contact details of BHPBIC Landholder Advisor will be provided to allow feedback on any noise impacts.
<i>Public Consultation</i>	
- Keep local residents informed of BHPBIC operations. - Provide a public opportunity to comment on ongoing operations at Appin Colliery.	- BHPBIC will continue to operate the Appin community office during construction of this project to allow for any public comments or enquiries. - BHPBIC will continue to operate the 24-hours telephone line to provide an alternative method for public information. - BHPBIC will continue to support the Appin Area Community Working Group, Douglas Park Advisory Panel and associated liaison activities to ensure the local community have an opportunity to raise any questions regarding the gas drainage project.
<i>Water</i>	
Minimise impacts on: - Quality - Supply - Groundwater	- Stormwater runoff, soil and erosion control measures will be managed in accordance with guidelines detailed in the Landcom Publication "Soils and Construction" Volume 1, 4th Edition, dated March 2004. - Water used for drilling operations will be from a Sydney Water Authorised User or licensed extraction from the Nepean River. - All excavated ponds will contain an appropriate impermeable liner to prevent water loss. The walls of the ponds will be of an appropriate height to provide adequate freeboard to prevent inflow or overflow during rainfall. - The vertical boreholes will be cased with steel and grouted in place from the ground surface of the well to the top of the Bulgo Sandstone section of the strata above the coal seam (approximately 250m underground) for goaf gas drainage wells and within the vicinity of the Bulli Seam (approximately 500m underground) for MSGD vertical wells. This is considerably below any regionally significant aquifers that may be present within the project area. - The MRD and MSGD boreholes will be cased with welded or threaded steel and grouted in place from the ground surface of the borehole to the end of the radial or build section where the horizontal alignment of the borehole starts, at an approximate depth of 450-500m underground. This is considerably below any regionally significant aquifers that may be present within the project area. - The water used in the extraction plant cooling process and borehole drilling will be removed and reused at Appin, West Cliff Collieries or another licensed facility.
<i>Flora and Fauna</i>	

Objective	Commitment
BHPBIC will minimise impacts on native vegetation and animals by managing: ▪ Weeds ▪ Cumberland Plain Woodland (CPW)	▪ Machinery and heavy vehicles will be washed down prior to accessing private properties to avoid the transmission of weeds or disease into intact areas of native vegetation. ▪ Rehabilitation of the land that was at the contingency goaf gas extraction location with local native species characteristic of CPW after the cessation of the goaf gas drainage.
<i>Rehabilitation</i>	
▪ To reduce long term affects from the proposed developments on the environment. ▪ To ensure public and/or private safety following completion of the borehole use.	▪ Any disturbed land will be rehabilitated to ensure the environment is returned back to the pre-development condition or to meet landowner specific requirements. ▪ Decommissioning of the boreholes will be undertaken in accordance with EDG01 Borehole Sealing Requirements on Land (Summerhayes, 1997). All boreholes will be sealed in accordance with these guidelines upon completion of operations.
<i>Waste</i>	
BHPBIC will minimise impacts on the environment associated with waste generation and disposal.	▪ BHPBIC will minimise waste where possible through careful planning of the extraction locations prior to implementation. ▪ Drilling waste will be reused where possible: ▪ At the West Cliff Coal Waste Emplacement for site capping or rehabilitation. ▪ Onsite for construction and rehabilitation purposes. ▪ Onsite for construction of noise barriers. ▪ Appropriate capture and transfer of waste to suitable reuse, recycling or disposal location.
<i>Air Quality</i>	
Reduce impacts from dust on surrounding properties.	▪ Construction activities will be managed in order to minimise dust generation.
<i>Heritage</i>	
BHPBIC will minimise impacts on Aboriginal and cultural heritage.	▪ Aboriginal cultural sites will be avoided and temporarily fenced during construction where possible. ▪ Aboriginal cultural sites that may be impacted during construction will be managed in accordance with the Aboriginal Cultural Heritage Management Plan and in consultation with registered Aboriginal Stakeholders. ▪ Any unexpected relics discovered during construction will be managed in accordance with the Cultural Heritage Management Plan and in accordance with

Objective	Commitment
	s146 of the Heritage Act.
<i>Traffic</i>	
Reduce the potential for traffic associated with the project to create congestion	▪ During the construction phase, warning signs will be erected at critical access points, including along Menangle Road and Moreton Park Road. ▪ A Journey Management Plan will be developed by the contractor and approved by the BHPBIC Project Manager prior to the commencement of any drilling works. This plan will guide appropriate controls for movement of project equipment including drilling rigs. ▪ If necessary, a Traffic Management Plan will be prepared by the Contractor and approved by the BHPBIC Project Manager prior to the commencement of any construction works. This plan will control movements of employee's vehicles and associated implementation traffic. ▪ BHPBIC has consulted with and obtained written agreements from all landholders. In addition, residents will be advised prior to the commencement of works and advised of any related disruptions to local traffic.
<i>Construction Management</i>	
▪ Minimise impact on the environment from construction work. ▪ Ensure employee safety during construction.	▪ The successful contractor/s will prepare management plans and safe work method statements for approval by BHPBIC prior to work commencing. ▪ The Contractor will maintain equipment to a safe standard and ensure secure storage. ▪ The Contractor will prepare an Environmental Management Plan for BHPBIC approval prior to the commencement of works. ▪ All works will be conducted in accordance with relevant construction legislation and best practice.

Appendix C
MSGD Site 1 - Preferred Access

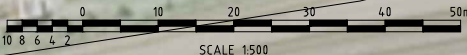


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Rev	Date	Description	Des.	Verif.	Appr.

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Drawn FK	Date 11/01/2012	Client BHP BILLITON - ILLAWARRA COAL APPIN AREA 9 - MSGD SITE # 1 ACCESS SIGHT DISTANCE Status FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION PURPOSES DATUM AHD REGISTER --- Scale 1:100 Size A1 Drawing Number FR201060-005 SK001 Revision 1
Checked	Date	
Designed	Date	
Verified	Date	
Approved	Date	



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Rev	Date	Description	Des.	Verif.	Appr.

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Drawn FK	Date 11/01/2012
Checked	Date
Designed	Date
Verified	Date
Approved	Date

Client	BHP BILLITON - ILLAWARRA COAL
	APPIN AREA 9 - MSGD SITE # 1
	ACCESS SIGHT DISTANCE

Status			
FOR INFORMATION ONLY			
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
DATUM AHD	REGISTER ---	Scale 1"=00'	Size A1
Drawing Number FR201060-005 SK002			Revision 1



PHOTO 

PHOTO 1 - PHOTO TAKEN NORTH-EAST ALONG MENANGLE ROAD TOWARDS PROPOSED MSGD SITE #1 ACCESS. PHOTO WAS TAKEN APPROX 240m FROM ACCESS.



PHOTO 2
SK001

PHOTO 2 - PHOTO TAKEN NORTH-EAST ALONG MENANGLE ROAD TOWARDS PROPOSED MSGD SITE #1 ACCESS. PHOTO 2 IS TAKEN FROM THE SAME LOCATION AS PHOTO 1, BUT IS ZOOMED IN. THE FIGURE IN THE PHOTO IN THE DISTANCE IS STANDING DIRECTLY ACROSS FROM THE PROPOSED ACCESS.



PHOTO 3
SK001

PHOTO 3 - PHOTO TAKEN SOUTH-WEST ALONG MENANGLE ROAD, DIRECTLY ACROSS FROM MSGD SITE#1 ACCESS. HIGHLIGHTS THE POSITION WHERE PHOTO 1 AND 2 WERE TAKEN.

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Rev	Date	Description	Des.	Verif.	Appr.

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Drawn FK	Date 11/01/2012	Client BHP BILLITON - ILLAWARRA COAL				
Checked	Date	APPIN AREA 9 - MSGD SITE # 1 SITE PHOTOS ALONG MENANGLE ROAD	Status	FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Designed	Date		DATUM AHD	REGISTER ---	Scale NTS	Size A1
Verified	Date		Drawing Number FR201060-005 SK003			
Approved	Date		Revision 1			

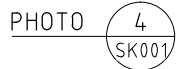


PHOTO 4 - PHOTO TAKEN NORTH-EAST ALONG MENANGLE ROAD, DIRECTLY ACROSS FROM MSGD SITE #1 ACCESS. HIGHLIGHTS THE POSITION WHERE PHOTO 5 AND 6 WERE TAKEN.

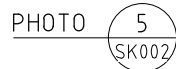


PHOTO 5 - PHOTO TAKEN SOUTH-WEST ALONG MENANGLE ROAD TOWARDS PROPOSED MSGD SITE #1 ACCESS. THE FIGURE IN THE PHOTO IN THE DISTANCE IS STANDING DIRECTLY ACROSS FROM THE PROPOSED ACCESS.

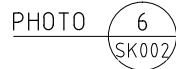


PHOTO 6 - PHOTO TAKEN NORTH-EAST ALONG MENANGLE ROAD TOWARDS PROPOSED MSGD SITE #2 ACCESS. THIS IS TAKEN FROM THE SAME POSITION AS PHOTO 5.

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FK	11/01/2012	
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Approved	Date	

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