

EPBC 2013/6881 Annual Compliance Report

Springvale Mine

March 2018



Declaration of Accuracy

In making this declaration, I am aware that Section 490 and 491 of the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

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TABLE OF CONTENTS

1.	INTRODUCTION				
2.	DES	SCRIPTION OF ACTIVITIES	. 8		
	2.1.	Project Details	. 8		
	2.2.	Approvals	. 8		
	2.3.	Operational Summary	. 9		
3.	DET	AILS OF COMPLIANCE WITH APPROVAL CONDITIONS	11		
4.	IMP	LEMENTATION OF MANAGEMENT DOCUMENTS	54		
5.	TRIC	GGER NOTIFICATIONS	55		
	5.1.	GW2	55		
	5.1.	GG1	55		
	5.2.	GG2	56		
	5.3.	SPR1104 & SPR1107	57		
	5.4.	SPR1108	58		
	5.5.	SPR1111	58		
	5.1.	APNEPGAN	59		
	5.2.	WC02, WC03 & WC04	30		
	5.3.	WC01, WC02 & LGG01	31		
	GURES	Controlled Action Area EPBC2013/688110	ı		
TA	BLES				
Та	ble 1	EPBC2013/6881 Project Details	}		
Та	ble 2	Springvale major Approvals	}		
Ta	ble 3	SSD_5594 Modifications during the Reporting period9	1		
Ta	ble 4	EPBC2013/6881 Condition Compliance Status			
Ta	ble 5	EPBC 2013/6881 Condition 1 – NSW Development Consent SSD_5594 Conditions28			
	ble 6	EPBC 2013/6881 Condition 2 – NSW Development Consent SSD_5594 Conditions			
Та	ble 7	EPBC 2013/6881 Condition 3 – NSW Development Consent SSD_5594 Conditions46			
ΑP	PEND	ICES			



1. INTRODUCTION

Springvale Mine is an existing underground coal mine producing high quality thermal coal which is supplied to both domestic and international markets. It is located 15 kilometres to the northwest of the regional city of Lithgow and 120 kilometres west-northwest of Sydney in New South Wales (NSW). The mine is a joint venture owned in equal share by Centennial Springvale Pty Ltd (a wholly owned subsidiary of Banpu Minerals Ltd) and Springvale SK Kores Pty Limited. Springvale Coal Pty Limited is the operator of Springvale Mine.

Underground coal mining commenced at Springvale Mine in 1995 following the granting of Springvale Mine's development consent (DA 11/92) on the 27th of July 1992, pursuant to Section 101 under Part 4 of the NSW Environmental Planning and Assessment Act, 1979 (EP&A Act).

The Springvale Mine Extension Project (SMEP) was approved by the New South Wales Planning and Assessment Commission on the 21st of September 2015 (SSD_5594). The Commonwealth Department of Environment subsequently assessed the SMEP and the Minister of Environment approved the SMEP and issued the approval EPBC 2013/6881 on the 15th of October 2015 to allow secondary extraction associated with the Springvale Mine Extension Project SSD_5594.

A variation to Conditions 6 and 7 of EPBC 2013/6881 was approved on the 29th of July 2016. The variation related to Temperate Highland Peat Swamp monitoring requirements and was subsequently implemented as part of the Swamp Monitoring Program for longwall 419.

Modifications 1 and 2 to SSD 5594 were subsequently approved in 2017 by the Planning Assessment Commission (PAC), under delegation from the Minister. The approval of SSD 5594 (including Mods 1 and 2) allows Springvale to continue underground coal mining operations within the Lithgow Seam at rates up to 5.5 Mtpa until 31 December 2028, with subsequent rehabilitation and closure works. In summary the project includes:

This report has been prepared in accordance with the Annual Compliance Report Guidelines (Department of Environment, 2014) to address the requirement of EPBC 2013/6881 Condition 18, which state that:

Before 31 March each year, the approval holder must publish a report on its website addressing compliance with each of the conditions of this approval, including the implementation of any management documents as specified in the conditions during the previous calendar year. Documentary evidence of the date of publication of the compliance report, as well as details of any reported potential non-compliance, must be provided at the same time as the compliance report is published.

The reporting period for this Annual Compliance Report is from the 1st of January 2017 to the 31st of December 2017.

2. DESCRIPTION OF ACTIVITIES

2.1. Project Details

An overview of EPBC 2013/6881 project details, as per Annual Compliance Report Guidelines (Department of Environment, 2014) is outlined in Table 1.

Table 1. EPBC 2013/6881 Project Details

EPBC Number	EPBC 2013 / 6881	
Project Name	Springvale Mine Extension Project	
Approval Holder Springvale Coal Pty Ltd		
	ACN 052 096 769	
Approved Action	To expand underground mining operations at the existing Springvale Mine.	
Location of the Project	Springvale Mine, 8km north-east of Lithgow. Refer Figure 1 for controlled action area.	
Reporting Period	1 st of January 2017 to 31 st of December 2017	
Date of Report	29 th March 2018	

2.2. Approvals

Springvale operates under NSW Development Consent SSD_5594, two EPBC Approvals and EPL3607. Details of these are provided in Table 2. During the reporting period two modifications to SSD_5594 were submitted and subsequently approved by DPE. Details of these are outlined in Table 3.

Table 2. Springvale Major Approvals

Approval	Details	Date of Issue	Expiry
SSD_5594	Springvale Mine Extension Project	21 September 2015	31 December 2028
EPBC 2011/5949	Mining of Longwalls 415 – 417.	14 March 2012	19 March 2032
EPBC 2013/6881	Mining associated with the Springvale Mine Extension Project.	15 October 2015	8 October 2035
EPL3607	Environmental Protection License for Springvale Coal Pty Limited	17 May 2000	Renewed Annually

Table 3. SSD_5594 Modifications during the Reporting Period

Modification No.	Details of Modification	Date of Application /Exhibition Period	Status (as at 31 December 2016)
	 Increase of the approved workforce (including contractors) from 310 full time equivalent (FTE) to 450; 		
	 Increase in ROM coal production from the approved 4.5 Mtpa to 5.5 Mtpa; and 	23/07/2016 /	Approved 19 April 2017
Mod 1	 Increase in the existing stockpile capacity at the Springvale pit top from 85,000 tonnes to 200,000 tonnes capacity and an increase in the coal stockpile footprint by 0.3ha northeast of the stockpile area. 	02/08/2016 – 23/08/2016	Approved 19 April 2017
Mod 2	To remove the requirement to Meet limits for salinity of 700 (50th percentile), 900 (90 th percentile)and 1000 (100 th percentile) uS/cm by 30 June 2017; and		
	To defer to 30 June 2019 the requirement to Eliminate acute and chronic toxicity from LDP009 discharges to aquatic species by 30 June 2017, with acute toxicity defined as >10% effect relative to the control group and chronic toxicity defined as >20% effect relative to the control group.	22/12/2016 / 24/01/2017 – 28/02/2017	Approved 19 June 2017

2.3. Operational Summary

The approval of SSD_5594 (including Modifications 1 and 2) allowed Springvale to continue underground coal mining operations within the Lithgow Seam until 31 December 2028, with subsequent rehabilitation and closure works. In summary the project includes:

- continued longwall mining operations to extract up to 5.5 million tonnes per annum (Mtpa) of run-of-mine (ROM) coal from the Lithgow Seam;
- continued operation of the mine's pit top area, support facilities and utilities;
- extension and continued use of the Springvale Delta Water Transfer Scheme, bore dewatering facilities and ventilation infrastructure;
- continued processing (sizing and screening) of ROM coal at the pit top area;
- continued stockpiling of ROM coal (200,000 tonnes (t) capacity);
- continued transportation of processed coal by overland conveyor to Centennial's Western Coal Services site (WCSS) for further processing or to the Mt Piper Power Station;
- continued transportation of processed coal by road haulage to other local domestic customers (limited to 50,000 tpa); and
- rehabilitation of the pit top area and Newnes Plateau surface infrastructure sites.

The main components of Springvale Mine's operations are an underground longwall mine, accessed via the Springvale pit top, and supporting surface infrastructure within the pit top area and on Newnes Plateau within the Newnes State Forest.

During the 2017 reporting period, coal was extracted from longwalls 419, 420 and 421.

Extraction of longwall 419 was completed on the 18th March 2017 with a total chainage of 2340m.

Extraction of longwall 420 commenced on the 29th of April 2017 and was completed on the 9th of November 2017 with a total chainage of 2086m.

Extraction of longwall 421 started on the 19th of December 2017 and chainage at 31st of December 2017 was 1628m.

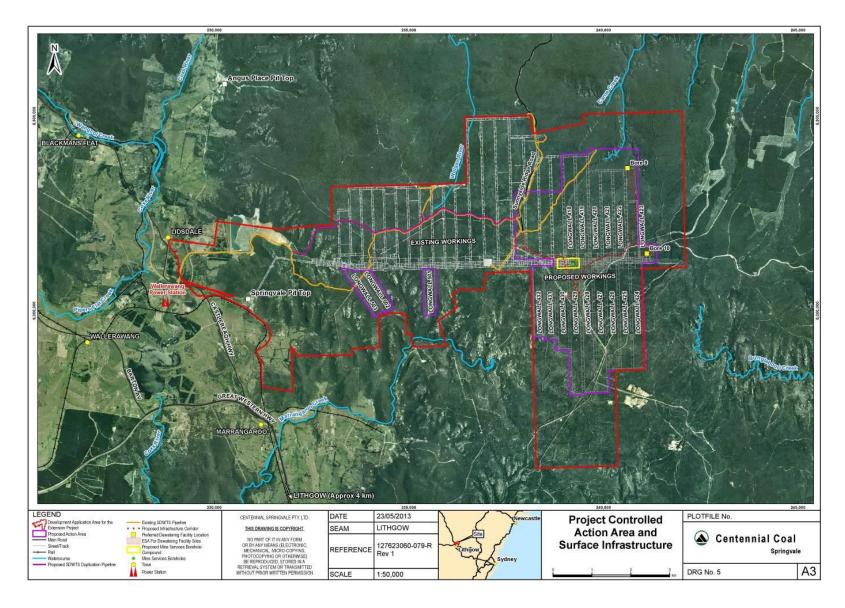


Figure 1 Controlled Action Area EPBC 2013/6881

3. DETAILS OF COMPLIANCE WITH APPROVAL CONDITIONS

Springvale's compliance status with EPBC 2013/6881 is outlined in Tables 4 through 7.

During the reporting period, an audit of EPBC 2013/6881 was conducted by the Department of Environment and Energy (DEE). The audit covered conditions 11 to 18 of the approval and determined the Springvale was in compliance with the conditions assessed. A copy of the audit findings has been attached as Appendix 1.

Table 4. EPBC 2013/6881 - Condition Compliance Status

Condition Number / Reference	Condition			Project Status	Compliance	Evidence / Comments
1	communities,	the approval h	te for impacts to listed threatened species and older must comply with the following conditions elopment consent.	Compliant		Refer Table 5 for breakdown of Development Consent condition compliance.
	Schedule	Condition	Subject			
	3	1	General performance measures			
	4	15	Biodiversity offset strategy			
		16	Long-term security of offsets			
		18	Biodiversity management plan			
		30	Rehabilitation			
		31				
		32				
	5	all	Notification of landowners and independent review			
2	Swamps, the	approval holde	ate for impacts on Temperate Highland Peater must comply with the following conditions on opment consent.	Compliant		Refer Table 6 for breakdown of Development Consent condition compliance.

	Schedule	Condition	Subject		
	3	1	General performance measures and risk		
		2	management and assessment		
		3	Offsets for breach of performance measures		
		4	Offsets for first undermined swamps		
		5	Offsets for other undermined swamps		
		6			
		10	Extraction plans		
		11	Independent Monitoring Panel		
	5	all	Notification of landowners and independent review		
	with the folloconsent.	Condition	ns on the New South Wales developme Subject	nt	condition compliance.
	3	1	General performance measures		
		10(h)(iii)	Water management plan		
	4	9	Water supply		
		10	Water pollution		
		12	Water management performance measures		
		14	Water management plan		
	5	all	Notification of landholders and independent review		
4	Condition 1 (Schedule 3) or	nperate Highland Peat Swamps, in addition the New South Wales development consersure that the action does not have greater that	nt,	Refer Table 5 for breakdown of Schedule 3, Condition 1 compliance.

negligible environmental consequences on any Temperate Highland Peat Swamps within the project area, including in relation to their size, ecological functionality and species composition or distribution, unless those consequences are addressed through Condition 5.

In addition to actions undertaken under SSD_5594, documents have been developed to monitor and manage potential environmental consequences as a result of the approved actions of LW419, LW420 and LW421 extraction.

LW419

Springvale developed the LW 419 Extraction Plan and component management plans to meet SSD-5594 CoA S3-1 and CoA S3-10. The Extraction Plan and component management plans included means of tracking monitoring results against 'negligible environmental consequences on swamps' performance measures'. The IMP reviewed draft versions of the LW 419 Extraction Plan and concluded that LW 419 be allowed to commence subject to recommendations. The DPE informed CC on 21/07/2016 that following acceptance of the IMP recommendations on the LW 419 Extraction Plan, the DPE had assessed and approved the Extraction Plan attaching strict conditions to monitoring impacts on swamp vegetation communities.

LW420-420

Springvale developed the LW 420 - 422 Extraction Plan and component management plans to meet SSD-5594 CoA S3-1 and CoA S3-10. The Extraction Plan and component management plans included means of tracking monitoring results against 'negligible environmental consequences on swamps' performance measures'. The IMP reviewed draft versions of the LW 420 - 422 Extraction Plan and concluded that LW 420 - 422 be allowed to commence subject to recommendations. The DPE informed CC on 21/04/2017 that following endorsement of the IMP recommendations on the LW 420 - 422 Extraction Plan, the DPE had assessed and approved the Extraction Plan attaching strict conditions to monitoring impacts on swamp vegetation communities.

Through the approval and implementation of these Management Plan documents, Springvale monitor the environment consequences on THPS within the project area in accordance with Condition 4.

To minimise impacts on Temperate Highland Peat Swamps, in addition to Conditions 4, 5 and 6 (Schedule 3) on the New South Wales development consent:

5

- a. Greater than negligible environmental consequences on Temperate Highland Peat Swamps, and therefore offset liabilities, must be initially determined based on changes to the shallow groundwater aquifer as measured using piezometers in accordance with Conditions 6 to 10.
- b. Where monitoring identifies a change to the shallow groundwater aquifer below an undermined Temperate Highland Peat Swamp and that change cannot be reasonably attributed to other specific factors to the satisfaction of the Minister, the swamp will be considered to have experienced a greater than negligible environmental consequence of the action.
- c. 90 per cent (by area) of offset liabilities for Temperate Highland Peat Swamps must be met with direct offsets, within the meaning of the Commonwealth offsets policy.
- d. If after five (5) years, the approval holder can demonstrate to the satisfaction of the Minister that a greater than negligible environmental consequence on Temperate Highland Peat Swamps identified under Condition 5a has been reversed, has not eventuated or has only partially eventuated, whether due to active remediation or passive (natural) equilibration, any offsets already provided in relation to that identified consequence may be held by the approval holder and used to offset future liabilities.
- e. Except in relation to Sunnyside East and Carne West Swamps, the approval holder must not commence longwall mining before the corresponding maximum predicted offset liability has been determined in accordance with Conditions 4 and 5 (Schedule 3) on the New South Wales development consent and approved in writing by the Minister.

Compliant

Refer Table 6 for breakdown of Schedule 3, Conditions 4/5/6 compliance.

- The Draft Upland Swamp Maximum Offset Liability Framework Western Region has been developed to address the requirements of SSD-5594 CoA S3-5 by describing how Centennial propose to:
 - Define a negligible environmental consequence in the context of swamp communities;
 - Establish the offset liability; and
 - Monitor for mining induced impacts for which an offset would be required.

The Framework monitors for mining induced impacts based on monitoring outlined in the Swamp Monitoring Program. The Swamp Monitoring Program in turn uses groundwater monitoring results in the context of trigger levels and TARPs to assess for potential impacts.

- b. To date, greater than negligible impacts to swamps has not been identified. Springvale has calculated the maximum offset liability for swamps as part of each Extraction Plan submitted to DPE. Springvale is continuing to work with DPE on a Swamp Offset Package should offsets for swamps be required. This Swamp Offset package is part of ongoing discussions with various government agencies. In the meantime, while a suitable Swamp Offset Package is being developed and agreed to, Springvale Coal has increased the security bond held with the DPE from \$2 Million to \$6 Million.
- c. Springvale is continuing to work with DPE on a Swamp Offset Package should offsets for swamps be required. The offsets package will be aimed at meeting the conditions of Springvale approval.
- d. Point d has not been triggered during this reporting

			period. e. In accordance with SSD_5594, Springvale has increased the security bond held with the DPE from \$2 Million to \$6 Million in accordance with Schedule 3, Conditions 4 and 5. Further information regarding offsets is provided in Table 5, Schedule 4, Condition 16.
6	The condition applies to all longwalls except LW418 and LW419. To minimise impacts on Temperate Highland Peat Swamps, in addition to Condition 10(h)(v) (Schedule 3) on the New South Wales development consent, swamp monitoring programs (or similar documents) must: a. be capable of detecting any greater than negligible environmental consequence on any swamps within the project area that meet the listing criteria for Temperate Highland Peat Swamps; b. include at least three (3) control swamps for each swamp to which the program applies, matched in terms of vegetation, geomorphology, hydrology and size, which must be monitored according to the same standards and protocols (a swamp may serve as a control for any number of suitably matched swamps to which the program applies); and c. establish for each swamp proposed for undermining a monitoring regime that includes daily data collection from each swamp with data review at least weekly during undermining operations and at least monthly at all other times. The approval holder must not commence longwall mining before the corresponding swamp monitoring program has been approved in writing by the Minister. Each approved swamp monitoring program must be implemented for no less than five (5) years from the approval of the program.	Not Applicable	During the reporting period, this condition was relevant to longwalls 420 and 421, which were mined under the approved LW420-422 Extraction Plan. a. To be able to detect any greater than negligible environmental consequences Springvale has prepared and implemented the LW420-422 Swamp Monitoring Program (component of the LW420-422 Extraction Plan) respectively. The monitoring programs implemented at Springvale have evolved over time to reflect updated monitoring methodologies and understandings. Monitoring has transitioned to the Unmanned Aerial Vehicle (UAV) method developed by the University of Queensland (developed in 2014 by Brownstein et al). This method was developed as a result of a research program undertaken over five years, as the traditional Blanquet monitoring methods, had not been effective at detecting change. Centennial undertook consultation on the Brownstein methodology with OEH and the DoE in 2014 and obtained peer review of the methodology by David Golding (Cenwest) in 2014. The LW 420-422 Extraction Plan includes the Brownstein methodology developed. A component of the LW 420-422 Extraction Plan, the LW 420-422 Swamp Monitoring Program, was prepared to meet the requirements of SSD_5594 and EPBC 6811 Approval CoAs 7 and 9 and references the 'Flora monitoring methods for Newnes Plateau Shrub Swamps and Hanging Swamps' (Brownstein et al. 2014). The LW420-422 Extraction Plan included an

expanded groundwater monitoring network, subsidence monitoring and flora monitoring to monitor impacts on swamp vegetation communities. The Swamp Monitoring Program was approved by the Department on the 21 st of April 2017 as in accordance with Condition 7 of the EPBC2013-6881.
 b. Control swamps are identified in the LW420-422 Swamp Monitoring Program in accordance with point b) of Condition 7. They are as follows: Shrub swamp reference sites listed in the LW 420-422 Swamp Monitoring Program are: Barrier Swamp, Carne Central Swamp, Marrangaroo Swamp, Twin Gully Swamp, Firetail Swamp, Best Swamp and TriStar Swamp. Hanging swamp reference listed in the LW 420-422 Swamp Monitoring Program are: Firetail Hanging Swamp, Amphitheatre hanging Swamps (a group of approximately 5 Hanging Swamps), Twin Gully Hanging Swamps and Tristar hanging Swamp. Monitoring undertaken in regards to these swamps include: Subsidence, Flora, Fauna, Aquatic Ecology, Stygofauna, Surface Water and Groundwater.
c. Daily data collection is carried out at groundwater monitoring locations through data loggers. Weekly reports are prepared based on weekly data collected and provided to Springvale in the form of a Weekly Report. Sites included in this weekly report are within 600m of the advancing longwall and where the longwall face intersects identified major lineaments. Where swamps are intersected by this buffer zone, all piezometer data is collected for inclusion in the Weekly Report. Impact and Reference swamp monitoring sites not included in the weekly data download and reporting are downloaded and reported monthly. The remaining swamp, ridge/aquifer and vibrating wire piezometers are downloaded either bi-monthly or quarterly. The monitoring regime is outlined in the LW420-422 Swamp Monitoring Program.
Mining of LW420 did not commence until the 29 th of April

			2017, following the approval of the LW420-422 Extraction
			Plan on the 21 st of April 2017.
7	This Condition applies to Longwalls LW418 and LW419	Compliant	This condition applies to longwall 419 (extracted during the reporting report).
	To minimise impacts on Temperate Highland Peat Swamps, in addition to Condition 10(h)(v) (Schedule 3) on the New South Wales development consent, swamp monitoring programs (or similar documents) must: a. Be capable of detecting any greater than negligible environmental consequence on any swamps within the project area that meet the listing criteria for Temperate Highland Peat Swamps; b. Include at least three (3) control swamps for each swamp to which the program applies, matched in terms of vegetation, geomorphology, hydrology and size, which must be monitored according to the same standards and protocols (a swamp may serve as a control for any number of suitably matched swamps to which the program applies); and c. Establish for each swamp proposed for undermining a monitoring regime that includes daily data collection from each swamp with data review at least weekly during undermining operations and at least monthly at all other times. The approval holder must not continue longwall mining beyond 21 July 2016 until the swamp monitoring program(s) has been approved in writing by the Minister. Each approved swamp monitoring program must be implemented for no less than five (5) years from the approval of the program.		a. To be able to detect any greater than negligible environmental consequences Springvale has prepared and implemented the overarching management plans for longwalls 418 and 419, the LW418 THPSSMMP and LW419 Swamp Monitoring Program (component of the LW419 Extraction Plan) respectively. The monitoring programs have evolved over time to reflect updated monitoring methodologies and understandings. Monitoring has transitioned to the Unmanned Aerial Vehicle (UAV) method developed by the University of Queensland (developed in 2014 by Brownstein et al). This method was developed as a result of a research program undertaken over five years, as the traditional Blanquet monitoring methods, had not been effective at detecting change. Centennial undertook consultation on the Brownstein methodology with OEH and the DoE in 2014 and obtained peer review of the methodology by David Golding (Cenwest) in 2014. The major difference between the LW 415 -417 THPSSMMP and the LW 418 THPSSMMP was the inclusion of the Brownstein methodology for LW 418 THPSSMMP. A component of the LW 419 Extraction Plan, the LW 419 Swamp Monitoring Program, was prepared to meet the requirements of SSD_5594 and EPBC 6811 Approval CoAs 7 and 9 and references the 'Flora monitoring methods for Newnes Plateau Shrub Swamps and Hanging Swamps' (Brownstein et al. 2014). The LW419 Extraction Plan approval contained strict conditions to monitoring impacts on swamp vegetation communities e.g. layout of piezometers as presented in the EPBC Approval 2013/6881, and requirement to address a knowledge gap on soil moisture in swamps. The Swamp Monitoring Program was approved by the Department of Environment on the 29th July 2016 as in accordance with Condition 7 of the EPBC2013-6881.

			 b. Control swamps are identified in the LW419 Swamp Monitoring Program in accordance with point b) of Condition 7. They are as follows: Shrub swamp reference sites listed in the LW 419 Swamp Monitoring Program are: Barrier Swamp, Carne Central Swamp, Marrangaroo Swamp, Twin Gully Swamp and TriStar Swamp. Hanging swamp reference listed in the LW 419 Swamp Monitoring Program are: Barrier are Northern portions of Reference Swamp 1, Southern section of Twin Gully Swamp and South eastern arm of TriStar Swamp. Monitoring undertaken in regards to these swamps include: Subsidence, Flora, Fauna, Aquatic Ecology, Stygofauna, Surface Water and Groundwater. c. Daily data collection is carried out at groundwater monitoring locations through data loggers. Weekly reports are prepared based on weekly data collected and provided to Springvale in the form of a Weekly Report. Sites included in this weekly report are within 600m of the advancing longwall. Where swamps are intersected by this buffer zone, all piezometer data is collected for inclusion in the Weekly Report. Impact and Reference swamp monitoring sites not included in the weekly data download and reporting are downloaded and reported monthly. The remaining swamp, ridge/aquifer and vibrating wire piezometers are downloaded either bi-monthly or quarterly. The monitoring regime is outlined in the LW419 Swamp Monitoring Program. Mining of LW419 did not commence until the 2nd of August 2016, following the approval of the LW419 Extraction Plan. Extraction of longwall 419 was completed on the 18th March 2017.
8	Until Condition 7 has been met, the approval holder must monitor LW418 and LW419 consistent with Temperate Highland Peat Swamps on Sandstone Monitoring and Management Plan for LW418, August 2015, except that data collection must be consistent with Condition 7d from the commencement of longwall mining in LW418 and LW419.	Compliant	Prior to the approval and implementation of the Swamp Monitoring Program for Longwall 419, monitoring was undertaken in accordance with the Temperate Highland Peat Swamps on Sandstone Monitoring and Management Plan for Longwall 418. This included weekly reporting and downloads

			in undertaken in accordance with Condition 7(d), which was varied on the 29 th of July 2016.
9	This condition applies to all longwalls except LW418. To minimise impacts on Temperate Highland Peat Swamps, in addition to Condition 10(h)(ix) (Schedule 3) on the New South Wales development consent, trigger action response plans (or similar documents) must: a. define specific triggers (exceedence thresholds), with reference to baseline data and control swamps, which will apply to each Temperate Highland Peat Swamp within the project area b. define specific cease-work triggers, with reference to baseline data and control swamps, to respond to cases of sudden, unexpected or persistent exceedences, after which work may not recommence until the impact has been explained or offset to the satisfaction of the Minister c. define protocols for investigation and appropriate treatment of early warning and ceasework triggers in a timely fashion d. establish a protocol for reporting exceedences promptly to the Department; and e. explain how the measures described in the trigger action response plan will protect Temperate Highland Peat Swamps. The approval holder must not commence longwall mining before the corresponding trigger action response plan has been approved in writing by the Minister. The approved trigger action response plan must be implemented.	Compliant	During the reporting period, this condition applied to longwalls 419, 420 and 421. The LW 419 Swamp Monitoring Program and associated TARP (component management plan of the LW419 Extraction Plan), was approved by the DPE on the 11 th of July 2016. The LW 420 - 422 Swamp Monitoring Program and associated TARP (component management plan of the LW419 Extraction Plan), was approved by the DPE on the 21 st of April 2017. The Swamp Monitoring Program included the following to address the points of Condition 9: a. Specific triggers (exceedence thresholds), with reference to baseline data and control swamps, which will apply to each Temperate Highland Peat Swamp within the project area (LW419 - Section 7 and Table 27, LW420-422 - Section 7, Table 31); b. Specific cease-work triggers, with reference to baseline data and control swamps, to respond to cases of sudden, unexpected or persistent exceedences, after which work may not recommence until the impact has been explained or offset to the satisfaction of the Minister (LW419 - Table 27, Sections 7, 9 and 10. LW420-422 - Section 10, Table 31) c. Defines protocols for investigation and appropriate treatment of early warning and cease work triggers in a timely fashion (LW419 - Sections 9 and 10, LW420-422 - Sections 7 and 10) d. Establishes a protocol for reporting exceedences promptly to the Department (LW419 - Chart 3 and section 10), LW420-422 - Chart 3 and Section 10); and

			e. Explains how the measures described in the trigger action response plan will protect Temperate Highland Peat Swamps (LW419 and LW420-422, Section 7).
			Extraction of LW419 commenced on the 2 nd of August 2017, following the approval of the LW419 Extraction Plan (including Swamp Monitoring Program and TARP) on the 11 th of July 2017. Longwall mining did therefore not commence until the TARP was approved in writing by the Minister.
			Extraction of LW420 - 422 commenced on the 29 th of April 2017, following the approval of the LW420 - 422 Extraction Plan (including Swamp Monitoring Program and TARP) on the 21 st of April 2017. Longwall mining did therefore not commence until the TARP was approved in writing by the Minister.
			The TARPs contained within the LW419 and LW420 - 422 Swamp Monitoring Program were implemented during the reporting period through weekly data downloads and reporting as outlined in Table 22 of the Swamp Monitoring Program and through the trigger notifications and investigative reports submitted under them. During the reporting period, notifications submitted under the LW419 and LW420 - 422 Swamp Monitoring Program included (further outlined in Section 5 of this report);
			 GW2; GG1; GG2; SPR1108; SPR1111; and SPR1104 and SPR1107.
10	This condition applies to LW418, for which a trigger action response plan already exists.	Not Applicable	Springvale has not received a cease work notification from the Minister.
	At any time after an exceedence has been reported to the Department, the Minister may order the approval holder to cease work, after which work may not recommence until the exceedence has been explained or offset to the satisfaction of the Minister.		As this condition has not been triggered, it has been assessed as not applicable.

11	To minimise impacts on listed threatened species and communities, the approval holder must not clear more than 13 hectares of habitat for threatened species within the project area.	Compliant	Since EPBC Approval 2013/6881 was granted on 13/10/2015, two projects have been undertaken on the Newnes Plateau involving clearing/disturbance work relevant to this condition. These projects are: • Booster Station 1 (booster station to improve efficiency of dewatering bores); and • Infill of Subsidence lines (in accordance with the LW420-422 Extraction Plan – Subsidence Monitoring Program).
			Booster Station 1 Booster Station 1 underwent three re-designs to ensure the footprint did not impact on or disturb threatened species (Caesia parviflora var. minor). 0.19hectares of native vegetation was removed for the project, however no threatened species were removed. Identified threatened species were demarcated so as to prevent any disturbance to them.
			Infill of Subsidence Lines within Newnes Plateau Shrub Swamps A requirement of the LW420-422 Extraction Plan (Subsidence Monitoring Program) was to infill subsidence lines BB, GGE, GGSW and GG. Following an Ecological Due Diligence, a s91 Application was submitted to OEH for approval to infill the subsidence. 0.0404 hectares of Newnes Plateau Shrub Swamp Endangered Ecological Community (NPSS EEC) was estimated to be potentially impacted (refer Section 7 of s91 Application).
			The total area cleared as part of these projects was 0.2304 hectares.
12	This condition applies to all longwalls except LW418. To minimise impacts on listed threatened species and communities, in addition to Condition 18 (Schedule 4) on the New South Wales development consent, the biodiversity management plan (or similar document) must: a. include measures to avoid and / or mitigate impacts on listed threatened species and communities that may occupy landform habitats including cliffs, minor cliffs, pagodas and gorges - these measures must include pre-mining surveys and translocation and / or cease work protocols if any sites with potential as nursery caves for Large-eared Pied Bat are identified	Compliant	This condition was relevant to LW419, LW420 and LW421 during the reporting period. LW419 During 2016, Springvale prepared the LW419 Biodiversity Management Plan addressing the requirements of Condition 12. The LW 419 Biodiversity Management Plan was approved in July 2016 and includes an Appendix that specifically addresses the points of Condition 12 (a) to (d) of the EPBC Approval EPBC 2013/6881.

	 b. include measures to control the spread of pathogens including chytrid fungus and Phytophtora cinnamomi c. explain how the mitigation and management measures described will protect specific listed threatened species and communities; and d. specify clear timeframes for all management and mitigation measures described. The approval holder must not commence the action before the biodiversity management plan has been approved in writing by the Minister. The approved biodiversity management plan must be implemented. 		Extraction of LW419 commenced on the 2 nd of August 2017, following the approval of the LW419 Extraction Plan (including Swamp Monitoring Program and TARP) on the 11 th of July 2017. Longwall mining did therefore not commenced until the TARP was approved in writing by the Minister. LW420-421 During 2017, Springvale prepared the LW420-422 Biodiversity Management Plan addressing the requirements of Condition 12. The LW 420-422 Biodiversity Management Plan was approved in April 2017 and includes an Appendix that specifically addresses the points of Condition 12 (a) to (d) of the EPBC Approval EPBC 2013/6881. Extraction of LW420-422 commenced on the 29 th of April 2017, following the approval of the LW420-422 Extraction Plan (including Swamp Monitoring Program and TARP) on the 21 st of April 2017. Longwall mining did therefore not commenced until the TARP was approved in writing by the Minister.
13	The approval holder must prepare a management and research program for the Blue Mountains Water Skink at Carne West Swamp, including specific measures for monitoring that population and response measures to be implemented if a decline is detected. The approval holder must not commence undermining of Carne West Swamp before the management and research program has been approved in writing by the Minister. The approved management and research program must be implemented.	Compliant	The Blue Mountains Water Skink Research and Management program was submitted on the 30 th October 2015 and was approved on the 27 th of November 2015. This was prior to the commencement of undermining Carne West Swamp under EPBC 2013/6881. The RPS Australia report Appended to the Biodiversity Management Plan addressed Condition 12 of the EPBC Approval 2013/6881 and identifies that the Blue Mountains Water Skink Research and Monitoring Program was commenced by RPS in October 2015 and involved monitoring populations of the BMWS within certain swamps in the site and overarching Project Application Area. A status report detailing the results of two separate surveys and analysis was prepared by RPS and supplied in January 2017. Monitoring has been conducted in 2017 in accordance with the monitoring program.

14	The approval holder must provide the Department with details of each offset area secured in accordance with Conditions 3 to 5 (Schedule 3) or Conditions 15 and 16 (Schedule 4), on the New South Wales development consent, within twenty (20) business days of securing each offset. Details to be provided must include but are not necessarily limited to: • textual descriptions and maps to clearly define the location and boundaries of the offset areas • written evidence of legal protection • management plans • offset attributes and shapefiles	Not Applicable	Offset areas have not been secured and therefore the requirement has not been triggered. It has therefore been assessed as not applicable.
15	Within ten (10) days after the commencement of the action, the approval holder must advise the Department in writing of the actual date of commencement of the action.	Compliant	The Department was notified on the 16 th of October 2015 that the action had commenced. This was within 10 days of commencing the action (10 th of October 2015).
16	The approval holder must maintain accurate records substantiating all activities associated with or relevant to the conditions of this approval, including measures taken to implement management documents required by this approval, and make them available on request to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of this approval. Summaries of audits will be posted on the Department's website. The results of audits may also be publicised through the general media.	Compliant	Springvale maintain records and reports to substantiate compliance with Condition 16. In addition to internal data records maintained by Springvale, compliance with this condition is demonstrated through routine compliance reporting published to the Springvale website, including Subsidence Management Status Reports (reporting required of the LW411-418 SMP), 6-Monthly Environmental Management Reports (Extraction Plan requirement), Annual Reviews (requirement of SSD_5594) and trigger notifications submitted during the reporting period. The following record keeping means are utilised at Springvale to demonstrate that records were maintained: Subsidence data portal records; Flora monitoring results compared to THPSSMMP trigger results, with triggers reported as required; Groundwater results compared to relevant trigger levels (i.e. to LW419 or LW420-422 Water Management Plan trigger values) weekly, monthly and bi-monthly; Water quality and flow data, sampled weekly and monthly; and Notification of trigger level exceedances from piezometers and flora monitoring sites. No requests for documents or requests to undertake an

			independent audit have been received by Springvale.
17	The approval holder must report potential non-compliance with any of the conditions of this approval to the Department within two (2) business days of becoming aware of the non-compliance.	Compliant	No non-compliances with conditions of the EPBC approval 2013/6881 were detected during the reporting period. During the reporting period, trigger notifications were submitted to DoE under this condition. These provided notification of potential non-compliances (through triggers identified through the LW420-422 Swamp Monitoring Program, LW419 Water Management Plan and LW418 THPSSMMP TARPs). These notifications were submitted within two business days as demonstrated by the below notification and submission days. • WC02 and CW04 (flora triggers) – Springvale notified on 08/03/2017, notification provided to DEE on 09/03/2017. • WC01, WC02 and LGG01 (flora triggers) – Springvale notified on 03/07/2017, notification provided to DEE 05/07/2017. • GW2 (groundwater trigger) – Springvale notified on 19/05/2017, notification provided to DEE on 22/05/2017. • SPR1111 and GG2 (groundwater triggers) – Springvale notified on 16/06/2017, notification provided to DEE on 16/06/2017. • SPR1108 (groundwater triggers) - Springvale notified on 17/11/2017, notification provided to DEE
			 on 21/11/2017 WC01, WC02 and LGG01 (flora triggers) – Springvale notified on 03/06/2017, notification provided to DEE on 05/06/2017. GG2 (groundwater triggers) – Springvale notified on 11/09/2017, notification provided to DEE on
			13/09/2017. • GG1 (groundwater triggers) – Springvale notified on 13/10/2017, notification provided to DEE on 16/10/2017.
			Further information regarding these notifications is provided

			in Section 5 of this report.
18	Before 31 March each year, the approval holder must publish a report on its website addressing compliance with each of the conditions of this approval, including implementation of any management documents as specified in the conditions during the previous calendar year. Documentary evidence of the date of publication of the compliance report, as well as details of any reported potential non-compliance, must be provided to the Department at the same time as the compliance report is published.	Compliant	The 2016 Annual Compliance Report was submitted to the Department and uploaded on the Centennial Website on the 30 th of March 2017. Following correspondence received from the Department on the 5 th of July 2017 requesting further information be included in the Compliance Report, a second, updated report was submitted was published on the 19 th of July 2017. This report represents the 207 Annual Compliance Report.
19	Upon the direction of the Minister, the approval holder must ensure that an independent audit of compliance with the conditions of this approval is conducted and a report submitted to the Minister. The audit must not commence until the independent auditor and audit criteria have been approved by the Minister. The audit report must address the criteria to the satisfaction of the Minister.	Not Applicable	No direction has been received by the Minister to undertake an independent audit. As this condition has not been triggered it has been assessed as not applicable. As previously noted, an audit by DEE was conducted during the reporting period, however this has not been noted as an independent audit in the context of this condition.
20	The approval holder may choose to revise a management document approved by the Minister under Conditions 6, 7, 9 12 or 13 without submitting it for approval under Section 143A of the EPBC Act, if the taking of the action in accordance with the revised management document would not be likely to have a new or increased impact on a matter protected under the conditions of this approval. If the approval holder makes this choice, it must:	Not Applicable	Springvale has not revised any management document associated with EPBC 2013/6881. As this condition has not been triggered it has been assessed as not applicable.
	 a. notify the Department in writing that the approved management document has been revised and provide the Department with an electronic copy of the revised management document b. implement the revised management document from the date that it is submitted to the Department; and c. for the life of this approval, maintain a record of the reasons the approval holder considers that taking the action in accordance with the revised management document would not be likely to have a new or increased impact on a matter protected under the conditions of this approval. 		
21	The approval holder may revoke its choice under Condition 20 at any time by notice to the Department. If the approval holder revokes the choice to implement a revised management document, without approval under	Not Applicable	Springvale has not revised any management document associated with EPBC 2013/6881.

	section 143A of the EPBC Act, the approval holder must implement the management document most recently approved by the Minister.		As this condition has not been triggered it has been assessed as not applicable.
22	Condition 20 does not apply if the revisions to the approved management document include changes to offsets established under the conditions of the approval, unless otherwise agreed in writing by the Minister. This does not otherwise limit the circumstances in which the taking of the action in accordance with a revised management document would, or would not, be likely to have new or increased impacts.	Not Applicable	Springvale has not revised any management document associated with EPBC 2013/6881. As this condition has not been triggered it has been assessed as not applicable.
23	If the Minister gives a notice to the approval holder that the Minister is satisfied that the taking of the action in accordance with the revised management document would be likely to have a new or increased impact on a matter protected by the conditions of this approval, then: a. Condition 20 does not apply, or ceases to apply, in relation to the revised management documents; and b. the approval holder must implement the management documents most recently approved by the Minister. At the time of giving the notice, the Minister may also notify that for a specified period of time that Condition 20 does not apply for one or more specified plans, programs or strategies required under the approval. To avoid any doubt, this condition does not affect any operation of Conditions 20 to 22 in the period before the day after the notice is given.	Not Applicable	Springvale has not revised any management document associated with EPBC 2013/6881. As this condition has not been triggered it has been assessed as not applicable.
24	Conditions 20 to 23 are not intended to limit the operation of section 143A of the EPBC Act which allows the approval holder to submit a revised management document to the Minister for approval.	Not Applicable	Springvale has not revised any management document associated with EPBC 2013/6881. As this condition has not been triggered it has been assessed as not applicable.
25	The approval holder must not commence longwall mining at any time after five (5) years from the date of this approval without the written agreement of the Minister.	Not Applicable	Following the approval of EPBC 2013/6881 on the 15 th of October 2015, mining commenced on the 16 th of October 2015. As this condition has not been triggered it has been assessed as not applicable.
26	Unless otherwise agreed to in writing by the Minister, the approval holder must publish all management documents on their website. Each	Compliant	The following management documents referenced in EPBC Approval 2013/6881 were available on the Centennial Coal

management document must be published on the website within one (1) website: month of being approved by the Minister or being submitted under LW 418 THPSSMMP; Condition 20. and 7); Research Program. Coal website: March 2016). uploaded 1 April 2016. 2016), uploaded 11 August 2016. March 2017: 2017. uploaded within one month. this condition has yet to be triggered.

- EPBC Approval 2013/6881 Variation (conditions 6
- EPBC Approval 2013/6881 Variation (condition 7);
- EPBC Approval 2013/6881 Annual Report (which includes the Annual Compliance Report);
- Blue Mountains Water Skink Research Program;
- Approval of the Blue Mountains Water Skink

The following documents (not referenced in the EPBC Approval 2013/6881) are also available on the Centennial

- 2015 Annual Compliance Report (uploaded 23
- EPBC Condition 7 variation (dated 1 April 2016),
- EPBC Condition 6 & 7 variation (dated 29 July
- LW 419 Extraction Plan, associated Management Plans and IMP advice, uploaded July 2016.

During the reporting period the following documents were uploaded to the Centennial Springvale website:

- 2016 Annual Compliance Report, uploaded 30
- 2016 Annual Compliance Report (updated Report following DEE request), uploaded 19 July 2017; and
- LW 420-422 Extraction Plan, associated Management Plans and IMP advice, uploaded April

All documents published to the Springvale website were

No documents haven been published under Condition 20, as

Table 5. EPBC Condition 1 – NSW Development Consent SSD_5594 Conditions

Condition Number / Reference	Condition		Project Compliance Status	Evidence / Comments
Schedule 3 Condition 1	exceedances of the perform of the Secretary. Table 1: Subsidence In Heritage Features, etc.	ure that the development does not cause any ormance measures in Table 1, to the satisfaction impact Performance Measures – Natural and	Compliant	The performance measures under this condition relate to LW419, LW420 and LW421 (longwalls mined during the reporting period). Subsidence Impact Performance Measures, per table 1, are listed in the LW419 and LW420-422 Extraction Plans and component management plans. Monitoring of performance indicators to address the performance measures listed in Table are described in the following management plans and monitoring
	Water Resources Wolgan River, and other watercourses located outside the site Carne Creek, Marrangaroo Creek and Paddys Creek All other watercourses	Performance Measures Negligible subsidence impacts or environmental consequences including: □ negligible diversion of flows or changes in the natural drainage behaviour of pools; □ negligible reduction in water quality; □ negligible increase in bank erosion or sediment load. No greater subsidence impacts or environmental consequences than predicted in the EIS No greater subsidence impacts or environmental consequences than predicted in the EIS	programs: Water Resources – LW41 (which includes surface wa Swamps - LW419 & LW (which includes flora, fauna 12 (a) to (d) monitoring) and Land - LW419 & LW420-42 Monitoring Programs. Biodiversity - LW419 & LW410 (which includes flora, fauna 12 (a) to (d) monitoring). Heritage – LW419 & LW410 includes aboriginal cultural	 Water Resources – LW419 & LW420-422 Water Management Plan (which includes surface water and groundwater monitoring). Swamps - LW419 & LW420-422 Biodiversity Management Plans (which includes flora, fauna, aquatic ecology and EPBC Approval CoA 12 (a) to (d) monitoring) and Swamp Monitoring Program. Land - LW419 & LW420-422 Land Management Plans and Subsidence Monitoring Programs. Biodiversity - LW419 & LW420-422 Biodiversity Management Plans (which includes flora, fauna, aquatic ecology and EPBC Approval CoA 12 (a) to (d) monitoring). Heritage – LW419 & LW420-422 Heritage Management Plans (which includes aboriginal cultural heritage monitoring). Mine workings – LW419 & LW420-422 Subsidence Monitoring
	Shrub swamps: Sunnyside and Nine Mile Negligible environmental consequences including: negligible change to the shallow groundwater regime when compared with control swamps; negligible erosion of the surface of the swamp; negligible change in the size of the swamp; negligible change in the ecosystem functionality of the swamp; negligible change to the composition or distribution of species within the swamp; and	Programs. The LW 419 & LW420-422 Subsidence Monitoring Programs and Swamp Monitoring Programs included performance measures, performance indicators and reporting requirements. The LW419 Extraction Plan and component management plans were prepared and approved on the 11 th of July 2016. The LW420-422 Extraction Plan and component management plans were approved on the 21 st of April 2017. Compliance To date, monitoring undertaken by Springvale Coal has not determined there to be a greater than negligible impact against the performance criteria listed in Table 1 of the Development Consent. Monitoring is being undertaken in		

	of the bedrock base or any controlling rockbar/s of the swamp.	accordance with the relevant Swamp Monitoring Programmes with reporting of trigger notifications as required.
Hanging swamps	Negligible environmental consequences including: □ negligible change in the size of the swamp; □ negligible change in the ecosystem	While triggers have been detected under the LW418 THPSS MMP, LW419 & LW420-422 Extraction Plan TARPs, the triggers do not necessarily mean an impact has occurred to the swamp, but that investigation should be undertaken into the trigger causation.
Land	functionality of the swamp; and negligible change to the composition or distribution of species within the swamp.	into the trigger education.
Cliffs, minor cliffs, steep slopes and pagoda formations	No greater subsidence impacts or environmental consequences than predicted in the EIS.	
Biodiversity		
Threatened species, populations or their habitats and EECs (except Sunnyside East, Carne West, Gang Gang South West, Gang Gang East, Pine, Pine Upper, Paddys, Marangaroo Creek and Marrangaroo Creek Upper Swamps) Heritage Features	Negligible environmental consequences.	
Aboriginal heritage sites (except sites 45-1-0002, 45-1-005 and 45-1-0065)	Negligible subsidence impact or environmental consequences.	
Aboriginal heritage sites 45-1-0002, 45-1-005 and 45-1-0065	No greater subsidence impact or environmental consequences than predicted in the EIS.	
Historic heritage sites	Negligible subsidence impact or environmental consequences.	
Mine workings		

the NSW Department of Planning and Environment on the 23 rd of December 2016, the Applicant shall update the <i>Western Projects Biodiversity Strategy</i> (RPS Australia East Pty Ltd, 1 October 2014) to provide a suitable offset for: a. the clearing of 4 hectares of native vegetation associated with the construction of Bore 8; and b. the clearing of 8.94 hectares of native vegetation associated b. the clearing of 8.94 hectares of native vegetation associated Section 1.3.1 of the WRBOP outlines how Centennial has developed the Offset of the WRBOP outlines how Centennial has developed the Offset of the WRBOP outlines how Centennial has developed the Offset of the WRBOP outlines how Centennial has developed the Offset of the WRBOP outlines how Centennial has developed the Offset of the WRBOP outlines how Centennial has developed the Offset of the WRBOP outlines how Centennial has developed the Offset of the WRBOP outlines how Centennial has developed the Offset of the WRBOP outlines how Centennial has developed the Offset of the WRBOP outlines how Centennial has developed the Offset of the WRBOP outlines how Centennial has developed the Offset of the WRBOP outlines how Centennial has developed the Offset of the WRBOP outlines have Centennial has developed the Offset of the WRBOP outlines have Centennial has developed the Offset of the WRBOP outlines have Centennial has developed the Offset of the WRBOP outlines have Centennial has developed the Offset of the WRBOP outlines have Centennial has developed the Offset of the WRBOP outlines have Centennial has developed the Offset of the WRBOP outlines have Centennial has developed the Offset of the WRBOP outlines have Centennial has developed the Offset of the WRBOP outlines have Centennial has developed the Offset of the WRBOP outlines have Centennial has developed the Offset of the WRBOP outlines have Centennial has developed the Offset of the WRBOP outlines have Centennial has developed the Offset of the WRBOP outlines have Centennial has developed the Offset of the	First workings beneath any feature where performance measures in this table require negligible subsidence impact or environmental consequences. First workings within a 26.5 degree angle of draw of cliffs. Second workings	To be carried out only in accordance with an approved Extraction Plan		
Condition 15 By the end of December 2016, the Applicant shall update the Western Projects Biodiversity Strategy (RPS Australia East Pty Ltd, 1 October 2014) to provide a suitable offset for: a. the clearing of 4 hectares of native vegetation associated with the construction of Bore 8; and b. the clearing of 8.94 hectares of native vegetation associated with with surface infrastructure for the development; the NSW Department of Planning and Environment on the 23 rd of December 2016. Condition points a and b (Bore 8 and Springvale surface infrastructure native vegetation clearing) are accounted for in the WRBOP (Appendix 1 – Impact Assessment). Section 1.3.1 of the WRBOP outlines how Centennial has developed the Off Package in respect to the NSW Biodiversity Policy for Major Projects, ocurrent version.	 These performance in of this consent. The Applicant will be indicators (including a performance measur under this consent (s) Measurement and/or and performance indicators indicators that are application which the feature or described in the relevance. 	required to define more detailed performance impact assessment criteria) for each of these es in the various management plans that are required ee Condition 5 below). monitoring of compliance with performance measures icators is to be undertaken using generally accepted propriate to the environment and circumstances in characteristic is located. These methods are to be fully that management plans. In the event of a dispute over		
These offsets must be developed in accordance with the NSW	By the end of December Projects Biodiversity Stra 2014) to provide a suitab a. the clearing of 4 the construction b. the clearing of 8 with surface infr	2016, the Applicant shall update the Western tegy (RPS Australia East Pty Ltd, 1 October le offset for: hectares of native vegetation associated with of Bore 8; and .94 hectares of native vegetation associated astructure for the development; If and the Secretary.	Compliant	Condition points a and b (Bore 8 and Springvale surface infrastructure native vegetation clearing) are accounted for in the WRBOP (Appendix 1 – Impact Assessment). Section 1.3.1 of the WRBOP outlines how Centennial has developed the Offsets Package in respect to the NSW Biodiversity Policy for Major Projects, or its

	Biodiversity Offset Policy for Major Projects, or its current version.		
Schedule 4 Condition 16	Biodiversity Offset Policy for Major Projects, or its current version. Long Term Security of Offset By the end of December 2016, unless the Secretary agrees otherwise, the Applicant shall make suitable arrangements to protect the biodiversity offset areas referred to in condition 15(a)&(b) above in perpetuity, to the satisfaction of the Secretary.	Compliant	Arrangements proposed for the long term security of offsets is detailed within the Western Region Biodiversity Offset Package (submitted to DPE on the 23 rd of December 2016). Due to additional information requested by the NSW Office of Environment and Heritage, the NSW Department of Planning have not approved the Western Region Biodiversity Offset Package to-date. As such, the proposed arrangements to provide long term security have not been implemented to date. Centennial Coal entered into a Voluntary Undertaking with the DPE on the 11th of July 2017 to secure the biodiversity offsets by the 1st of April 2018. Since the voluntary undertaking was entered into, Centennial have revised the Western Region Biodiversity Offset Strategy to addressed feedback from OEH dated 1 February 2018 and submitted the Western Region Biodiversity Offset Strategy to DPE for approval. Centennial has commenced the securing of the offset lands in accordance with the Western Region Biodiversity Offset Strategy through the: • Submission of BioBanking Applications for biodiversity offset sites referred to as Lot 5 Pipers Flat, Lots 1 2 and 125 Springvale Mine and Lot 56 Wolgan Road; and
			 Submission is an application for a Conservation Agreement on biodiversity offset site Lot 163 Carinya on 21st of March 2018. Centennial has received advice from OEH and the Biodiversity Conservation Trust the processing of the Agreement Applications will take up to six months. Regardless, land management activities have commenced on the offset sites in accordance with the requirements of the Voluntary Undertaking.
Schedule 4 Condition 18	Biodiversity Management Plan The Applicant shall prepare and implement a Biodiversity Management Plan for the development to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with OEH, Forestry Corporation of	Compliant	The Springvale Biodiversity Management Plan (appended to the Western Region Biodiversity Management Plan (WRBMP) maps the requirements of CoA S4-18 and relevant EPBC 2013/6881 Conditions. a. The Biodiversity Management Plan was provided for consultation to OEH, FCNSW and DoE prior to submission to the Secretary in

	NSW and DoE and be submitted to the Secretary for approval by the end of December 2016, unless otherwise agreed by the Secretary;		December 2016. Appendix D of the WRBMP outlines consultation undertaken.
	(b) establish baseline data for existing remnant vegetation and habitat on site;		 The baseline data for existing remnant vegetation and habitat on site is described n the Baseline Data section of the Springvale Biodiversity Management Plan (appended to the WRBMP).
	 (c) describe the short, medium, and long-term measures to be implemented to manage remnant vegetation and habitat on the site, including upland swamps; 		c. The measures to be implemented to manage remnant vegetation and habitat on site are included in Management Measures Section of the Springvale Biodiversity Management Plan.
	 (d) describe an ongoing monitoring program and TARP for upland swamps and EECs with a particular focus on subsidence-related changes to surface and ground water drainage; 		d. The requirement for a TARP for upland swamp and EECs with a particular focus on subsidence-related changes to surface and ground water drainage are related to CoA S3-10 Extraction Plans. A Swamp Monitoring Program and Extraction Plan Biodiversity Management Plan
	(e) include a detailed description of the measures that would be implemented to:		are required for each Extraction Plan area and detail the baseline, monitoring and adaptive management of the values for each area.
	 minimise impacts to fauna on site, including undertaking pre- clearance surveys; 		e. Measures to be implemented are described in the Management Section of the Springvale Biodiversity Management Plan. The measures are consistent with the Western Region Biodiversity Management Plan.
	 control weeds and feral pests (including goats, rabbits, foxes, cats and pigs); 		f. The Management Section of this Springvale Biodiversity Management
	• control erosion;		Plan describes the monitoring program to demonstrate effectiveness of management measures. The requirements for reporting are also included in the Western Region Biodiversity Management Plan Section
	control access; and		5.4 Reporting.
	manage bushfire risk;		g. The identification of responsible persons for monitoring, reviewing and implementing the Western Region Biodiversity Management Plan are
	 include a program to monitor and report on the effectiveness of these measures and progress against detailed performance and completion criteria; and 		included in Section 5.1 Roles and Responsibilities.
	(g) include details of who would be responsible for monitoring, reviewing, and implementing the plan.		
Schedule 4	4 Rehabilitation Objectives		Springvale has an approved MOP covering the period November 2015 – October 2022. During the reporting period the MOP was updated to reflect the
Condition 30	The Applicant shall rehabilitate the site to the satisfaction of DRE . This rehabilitation must be generally consistent with the proposed rehabilitation strategy described in the EIS, and comply with the		approved activities under Modification 1 to SSD 5594 and submitted to DRE on the 29 th of May 2017. DRE approved the MOP on the 4 th of July 2017.

objectives in Table 7.

Table 7: Rehabilitation Objectives

Feature	Objective
Mine site (as a whole)	Safe, stable & non-polluting
Rehabilitation materials	Materials from areas disturbed under this consent (including topsoils, substrates and seeds) are to be recovered, managed and used as rehabilitation resources
Surface infrastructure	 To be decommissioned and removed unless DRE agrees otherwise All surface infrastructure sites are to be revegetated with suitable local native plant species to a landform consistent with the surrounding environment
Portals and vent shafts	 To be decommissioned and made safe and stable Retain habitat for threatened species (eg bats), where practicable
Revegetated final landforms	Stable and sustain the intended land use Consistent with surrounding topography to minimise visual impacts Incorporate relief patterns and design principles consistent with natural drainage
Native flora and fauna	Flora species used in rehabilitation selected to reestablish and complement local and regional biodiversity Rehabilitated areas contribute to achieving self-

The MOP includes the rehabilitation objectives listed in SSD-5594 Schedule 4, Condition 30, Table 7 (MOP Tables 3 and 14).

The MOP also identifies performance indicators and completion criteria for rehabilitation phases in Tables 18-22.

No major rehabilitation has been undertaken during the reporting period and as such, Springvale has not sought any relinquishment of land from DRE against the rehabilitation objectives listed in Table 7.

The condition has been assessed as compliant based on the MOP identifying the rehabilitation objectives consistent with Table 7.

	All watercourses subject to mine- water discharges and/or subsidence impacts	sustaining biodiversity habitats • Hydraulically and geomorphologically stable, with aquatic ecology and riparian vegetation that is the same, or better than prior to grant of this consent		
	Cliffs, minor cliffs and steep slopes	No additional risk to public safety compared to prior to mining		
	Other land affected by the development	Restore ecosystem function, including maintaining or establishing self-sustaining ecosystems comprised of local native plant species (unless DRE agrees otherwise)		
	Built features damaged by mining operations	Repair to pre-mining condition or equivalent unless the: owner agrees otherwise; or damage is fully restored, repaired or compensated for under the Mine Subsidence Compensation Act 1961		
	Community	Ensure public safety Minimise the adverse socio- economic effects associated with mine closure		
	Notes: These rehabilitation objectives apply to a consequences caused by mining taking pall surface infrastructure parts of the deverollowing the date of this consent.	place after the date of this consent, and to		
Schedule 4 Condition 31	Progressive Rehabilitation The Applicant shall rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust		Compliant	The Springvale MOP identifies that no major rehabilitation of the pit top Newnes Plateau infrastructure is anticipated until site closure and Springvale Coal has adopted a progressive approach to rehabilitation to re and mitigate potential environmental impacts. Consultation has been undert with FCNSW (Newnes Plateau State Forest landholder) regarding rehabilit objectives and progress.

	generation at any time.		
			Rehabilitation that has been undertaken includes the old Fire Dam pit-top, disused Bore sites 1 – 4 and historic exploration sites that are rehabilitated progressively as exploration programs are completed. The footprint of infrastructure sites in use, such as Bore 8 and Bore 6 were reduced by rehabilitation following the initial construction phase.
			Consultation with FCNSW is undertaken with inspections of exploration sites, rehabilitation sites and access tracks having been completed. No outstanding issues have been identified as part of these inspections.
			No major rehabilitation has been undertaken during the reporting period. Annual Rehabilitation Monitoring was undertaken during the reporting period and reported on in the 2017 Annual Review. Findings from the report indicated improvement opportunities in revegetation practices; however no issues regarding exposed area causing dust generation.
			This condition has been assessed as compliant based on progressive rehabilitation completed and no outstanding landholder issues with disturbance areas.
Schedule 4 Condition 32	Applicant shall prepare and implement a Rehabilitation Management Compliant	Compliant	The Springvale MOP was prepared to address both the MOP requirements within Mining Leases and to meet the SSD-5594 CoA S4-32 for a Rehabilitation Management Plan.
	Plan to the satisfaction of DRE. This plan must:		The 2015 -2022 MOP met the requirements of SSD-5594 CoA S4-32 as follows:
	(a) be prepared in consultation with the Department, DPI-Water, OEH, Council, WaterNSW and the CCC;(b) be submitted to DRE for approval within 6 months of the date of this consent, unless DRE agrees otherwise;		(a) Following approval of the MOP by DRE, the MOP was submitted to DPE, DPI-Water, OEH, LCC and the CCC on 18/01/2016 for consultation. Feedback received from stakeholders was considered prior to submission to the Secretary DRE for approval, satisfying the requirements of CoA S4-32(a);
	(c) be prepared in accordance with any relevant DRE guideline;		(b) The MOP had been submitted to the DRE for approval before 21/03/2016 (submitted 10/11/2015);
	 (d) include detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site, and triggering remedial action (if necessary); 		(c) The MOP references (Section 1) and was prepared in accordance with the ESG3: Mining Operations Plan (MOP) Guidelines (DRE 2013);
	 (e) describe the measures that would be implemented to ensure compliance with the relevant conditions of this consent, and address all aspects of rehabilitation including mine closure, final landform and final land use; 		(d) The MOP included detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site, and triggering remedial action (if necessary) (Tables 18-22);

	 (f) include interim rehabilitation where necessary to minimise the area exposed for dust generation; (g) include a program to monitor and report on the effectiveness of the rehabilitation measures and progress against the detailed performance and completion criteria; and (h) build to the maximum extent practicable on the other management plans required under this consent. Note: The Biodiversity Management Plan and Rehabilitation Management Plan require substantial integration to achieve biodiversity objectives for the rehabilitated mine site. 		 (e) The MOP described the measures to ensure compliance with the relevant conditions of this consent, and address all aspects of rehabilitation including mine closure, final landform and final land use (sections, 4, 6 and 7); (f) The MOP included interim rehabilitation where necessary to minimise the area exposed for dust generation (section 2.2.8); (g) The MOP includes the rehabilitation objectives listed in SSD-5594 CoA S4-30 Table 7 (MP Tables 3 and 14). The MOP also identifies performance indicators and completion criteria for rehabilitation phases in Tables 18 – 22. The MOP (section 8.1) states that "A dedicated monitoring system will be established in spring 2015 to assess effectiveness of implementation of the rehabilitation measures as well as to identify the need for corrective action as soon as required" and that monitoring results will be reported in the AR. Annual Rehabilitation Monitoring was undertaken in 2015 and 2016 in accordance with Section 8.1 and was reported in the Annual Review. (h) Sections 3.2 and 3.3 of the MOP identifies the Management Plans required/prepared under SSD_5594 and how environmental issues are managed through the relevant Management Plans. Updates to the Management Plans and the MOP are completed to ensure consistency and continuity between the documents, allowing for integration of objectives outlined in the SSD_5594. The MOP seeks to reflect current practices carried out under Centennial Springvale Management Plans and is updated as necessary to capture any changes.
Schedule 5 Condition 1	NOTIFICATION OF LANOWNERS As soon as practicable after obtaining monitoring results showing: (a) an exceedance of any relevant criteria in Schedule 4, the Applicant shall notify the affected landowners in writing of the exceedance, and provide regular monitoring results to these landowners until the development is again complying with the relevant criteria; and (b) an exceedance of any relevant air quality criteria in Schedule 4, the Applicant shall send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and/or existing tenants of the land (including the tenants of any mine-owned land).	Compliant	During the reporting period point (a) of CoA 5-1 was triggered in relation to two noise exceedances recorded at receptor S1 during quarter 3 and three exceedances at receptor S2 during quarter 2 (one exceedance) and quarter 4 (two exceedances). During the reporting period, notifications were provided to the landholders as follows: Notification to S1 of quarter 3 noise exceedance; Notification to S2 of quarter 2 noise exceedance; Notification to S2 of quarter 4 noise exceedance; Notification of return to compliance to S1 (following quarter 3 exceedance and quarter 4 monitoring); and

			 Notification of return to compliance to S2 (following quarter 2 exceedance and quarter 3 monitoring). No air quality monitoring results were recorded during the reporting period. Point (b) of CoA 5-1 was therefore not triggered during the reporting period.
Schedule 5 Condition 2	INDEPENDENT REVIEW If an owner of privately-owned land considers the development to be exceeding the relevant criteria in Schedule 4, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land. (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to: □ consult with the landowner to determine his/her concerns; □ conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 4; □ if the development is not complying with these criteria then identify the measures that could be implemented to ensure compliance with the relevant criteria; and (b) give the Secretary and landowner a copy of the independent review.	Not Applicable	As no request for review received, this condition has been assessed as not applicable.

Table 6. EPBC Condition 2 – NSW Development Consent SSD_5594 Conditions

Condition Number / Reference	Condition	Project Compliance Status	Evidence / Comments
Schedule 3 Condition 1	Refer Table 5 for condition.	Compliant	Refer Table 5 for condition compliance assessment.
Schedule 3 Condition 2	The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the performance measures in Table 1.	Not Applicable	Per the Table 5 condition compliance assessment for CoA S3-1 Springvale has prepared and implemented the LW 411-418 LW EMP, LW418 THPSS MMP and LW419 and LW420-422 Extraction Plans to monitor and manage risks

	Any exceedance of these performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation, notwithstanding actions taken pursuant to paragraphs (a)-(c) or condition 4 below. Where any exceedance of these performance measures has occurred, the Applicant must, at the earliest opportunity: (a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur; (b) consider all reasonable and feasible options for remediation and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and (c) implement remediation measures as directed by the Secretary, to the satisfaction of the Secretary.		associated with mining activities. To date, monitoring undertaken by Springvale Coal has not determined there to be a greater than negligible impact against the performance criteria listed in Table 1 of the Development Consent. As an exceedance of the performance criteria has not been identified, this condition has been as assessed as not applicable.
Schedule 3 Condition 3	Offsets If the Applicant exceeds the performance measures in Table 1 and the Secretary determines that: (a) it is not reasonable or feasible to remediate the subsidence impact or environmental consequence; or (b) remediation measures implemented by the Applicant have failed to satisfactorily remediate the subsidence impact or environmental consequence; actions outlined in threatened species recovery programs; actions that contribute to threat abatement programs; biodiversity research and survey programs; and/or rehabilitating degraded habitat. then the Applicant shall provide a suitable offset to compensate for the subsidence impact or environmental consequence, to the satisfaction of the Secretary. The offset must give priority to like-for-like physical environmental offsets, but may also consider payment into any NSW Offset Fund established by OEH, or funding or implementation of supplementary measures such as: Note: Any offset required under this condition must be proportionate with	Not Applicable	To date, monitoring undertaken by Springvale Coal has not determined there to be a greater than negligible impact against the performance criteria listed in Table 1 of the Development Consent. Monitoring is being undertaken in accordance with the relevant Swamp Monitoring Programmes with reporting of trigger notifications as required. Springvale Coal is working with DPE to develop a suitable Swamp Offset Package, should a swamp offset be required. Currently, DPE hold \$6 million in security bonds should monitoring identify a greater than negligible impact and no swamp offset strategy be in place. This condition has therefore been assessed as not applicable.

	the significance of the impact or environmental consequence.		
Schedule 3 Condition 4	Swamp Offset Bond for First Swamps Undermined Prior to the commencement of mining, unless otherwise agreed by the Secretary, the Applicant shall lodge a Swamp Offset Bond of \$2,000,000 with the Department. If, after 12 months of completion of all mining under this consent within 400 metres of either Sunnyside East or Carne West Swamps, monitoring demonstrates that no greater than 'negligible environmental consequences' have resulted to the swamp from mining under this consent, to the satisfaction of the Secretary, then the Secretary will release the half of the Bond that applies to that swamp. If monitoring demonstrates that greater than 'negligible environmental consequences' have resulted to either of these shrub swamps from mining under this consent, and that these consequences have stabilised for a period of at least 12 months, then the Applicant must offset the environmental consequences to that swamp to the satisfaction of the Secretary within any period specified by the Secretary. The offset liability will be set by the Secretary in consultation with OEH, following consideration of: (a) the estimated liability using the Framework for Biodiversity Assessment in accordance with the NSW Biodiversity Offsets Policy for Major Projects; and (b) advice from the Independent Monitoring Panel that will be established by the Secretary for the development. Once the Applicant has offset the environmental consequences to the satisfaction of the Secretary, the relevant proportion of the Swamp Offset Bond will be returned to the Applicant.	Compliant	The LW419 Extraction Plan identified that SSD 5594 CoA S3-4 has been triggered and as such a \$2 Million swamp offset security bond was lodged with DPE for these swamps on 8 October 2015. On the 19 th of July 2017 an additional \$2 Million swamp offset security bond was lodged with DPE for Carne West, Gang Gang South West and Gang Gang East Swamps associated with the LW420-422 Extraction Plan. Points a and b of this condition have not yet been triggered as mining under this consent was within 400m of Sunnyside East and Carne West Swamps during the reporting period, i.e. 12 months has not elapsed.
	Notes: Alternative funding arrangements, such as provision of capital and management funding as agreed by OEH as part of a Biobanking Agreement or transfer to conservation reserve estate, can be used as part of the Swamp Offset Bond. A bank guarantee can be lodged in place		

	of a cash bond.		
Schedule 3	Swamp Offsets for all other Shrub Swamps	Compliant	Springvale has calculated the maximum offset liability for swamps as part of each Extraction Plan submitted to DPE.
Condition 5	Prior to the commencement of mining operations under an approved Extraction Plan which are predicted to cause greater than negligible environmental consequences to either Gang Gang South West, Gang Gang East, Pine, Pine Upper, Paddys, Marangaroo Creek or Marrangaroo Creek Upper Swamp, the Applicant shall demonstrate that it can satisfy the maximum predicted offset liability for the total area of swamp(s) predicted to be impacted under that Extraction Plan. If, after 12 months of completion of all mining under this consent within 400 metres of any of these shrub swamps, monitoring demonstrates that no greater than 'negligible environmental consequences' have resulted to the swamp from mining under this consent, to the satisfaction of the Secretary, then the Applicant will not be required to secure the offset or retire the credits relating to that swamp. If monitoring demonstrates that greater than 'negligible environmental consequences' have resulted to any of these shrub swamps from mining under this consent, and that these consequences have stabilised for a period of at least 12 months, then the Applicant must offset the environmental consequences to that swamp to the satisfaction of the Secretary within any period specified by the Secretary. The offset liability will be set by the Secretary in consultation with OEH, following consideration of: (a) the estimated liability using the Framework for Biodiversity Assessment in accordance with the NSW Biodiversity Offsets Policy for Major Projects; and (b) advice from the Independent Monitoring Panel that will be established by the Secretary for the development. Note: Alternative funding arrangements, such as provision of capital and management funding as agreed by OEH as part of a Biobanking Agreement or transfer to conservation reserve estate, can be used as part of the Swamp Offset.		As noted in Schedule 4, Condition 16, Springvale is continuing to work toward meeting the requirements of the Voluntary Undertaking with DPE and OEH. In the meantime, while a suitable Swamp Offset Package is being developed and agreed to, Springvale Coal has increased the security bond held with the DPE from \$2 Million to \$6 Million. The Draft Upland Swamp Maximum Offset Liability Framework Western Region has been developed to address the requirements of SSD-5594 CoA S3-5 by describing how CC propose to: • Define a negligible environmental consequence in the context of swamp communities; • Establish the offset liability; and • Monitor for mining induced impacts for which an offset would be required. The Framework includes monitoring performance indicators and trigger levels for both shrub swamps (MU50) and hanging swamps (MU51); and three scenarios to calculate the offset liability using the BioBanking Assessment Methodology 2014 (BBAM 2014); this being the methodology that underpins the Framework for Biodiversity Assessment (OEH, 2014).
Schedule 3 Condition 6	As part of each Extraction Plan for mining within 400 metres of the swamps subject to condition 5 above, the Applicant must:	Compliant	Springvale Coal has prepared the Draft Upland Swamp Maximum Offset Liability Framework Western Region to address the requirements of SSD-5594 CoA S3-5 and calculation of offset liability.
	(a) calculate the maximum predicted offset liability for any environmental consequences on these swamps that may result		

	from the proposed mining using the Framework for Biodiversity Assessment in accordance with the NSW Biodiversity Offsets Policy for Major Projects; and (b) demonstrate that it has suitable arrangements in place to deal with these liabilities quickly in the event that offsets are required.		Springvale has calculated the maximum offset liability for swamps as part of each Extraction Plan submitted to DPE. Springvale is continuing to work with DPE on a Swamp Offset Package should offsets for swamps be required. This Swamp Offset package is part of ongoing discussions with various government agencies. In the meantime, while a suitable Swamp Offset Package is being developed and agreed to, Springvale Coal has increased the security bond held with the DPE from \$2 Million to \$6 Million.
Schedule 3 T Condition 10 E (i) (i) (ii) (ii) (ii) (iii) (ii	The Applicant shall prepare and implement an Extraction Plan for all second workings on site to the satisfaction of the Secretary. Each Extraction Plan must: (a) be prepared in consultation with DRE and by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary; (b) be approved by the Secretary before the Applicant carries out any of the second workings covered by the plan; (c) include detailed plans of existing and proposed first and second workings and overlying surface features, including any applicable adaptive management measures; (d) include adequate consideration of mine roof and floor conditions, pillar width to height ratio, final pillar design dimensions and the long-term stability of pillars which has been undertaken in consultation with DRE; (e) provide revised predictions of the potential subsidence effects, subsidence impacts and environmental consequences of the proposed mining covered by the Extraction Plan, incorporating any relevant information obtained since this consent; (f) provide revised predictions for potential environmental consequences on affected shrub swamps and the social and economic costs of avoiding these consequences; (g) describe in detail the performance indicators that would be implemented to ensure compliance with the performance measures in Tables 1 and 2, and manage or remediate any impacts and/or environmental consequences consequences to meet the rehabilitation objectives in condition 30 of Schedule 4; (h) include a: (i) Subsidence Monitoring Program which has been prepared in consultation with DRE to: describe the ongoing conventional and non-conventional subsidence monitoring program: provide data to assist with the management of risks associated with conventional and nonconventional subsidence;	Compliant	The LW419 Extraction Plan was the first prepared under this consent. The LW420-422 Extraction Plan we prepared during the reporting. (a)&(b) Both LW419 and LW420-422 Extraction Plans were prepared in accordance with the DPE and DRE draft Guidelines for the Preparation of Extraction Plans. The Extraction Plan was prepared by suitably qualified and experienced persons whose appointments were endorsed by the DPE (LW420-422 was endorsed during the reporting period - 18/12/2017). The draft Extraction Plans and component management plans were prepared and provided to the DPE and IMP for comment. (c)-(g) The LW419 Extraction Plan Main Documents acknowledges these conditions as requirements of SSD_5594 CoA S3-10 for the Extraction Plan. These conditions have been met through Section 3 of the Main Document. (h) The LW 419 Extraction Plan and the following component management plans referenced in SSD-5594 CoA S3-10 were approved by DPE on the 11 th of July 2016: (i) LW 419 Subsidence Monitoring Program (ii) LW 419 Built Feature Management Plan (iv) LW 419 Biodiversity Management Plan (vi) LW 419 Biodiversity Management Plan (vi) LW 419 Heritage Management Plan (vii) LW 419 Heritage Management Plan (viii) LW 419 Public Safety Management Plan The LW419 Extraction Plan and component plans map where the requirements of SSD-5594 CoA S3-10 are addressed within each document and include (ix) TARPs addressing features in Tables 1 and 2 and (x) contingency plans.

□ validate the conventional and non-conventional subsidence predictions; □ analyse the relationship between the predicted and resulting conventional and non-conventional subsidence effects and predicted and resulting impacts under the plan and any ensuring environmental consequences; and □ inform the contingency plan and adaptive management process in paragraphs (ix) and (x) below; (ii) Built Features Management Plan which has been prepared in consultation with DRE, to manage the potential subsidence impacts of the proposed underground workings on built features, and which: □ has been prepared in consultation with the owner/s of potentially affected feature/s;	The LW 420-422 Extraction Plan and the following component management plans referenced in SSD-5594 CoA S3-10 were approved by DPE on the 21 st of April 2017: (i) LW 420-422 Subsidence Monitoring Program (ii) LW 420-422 Built Feature Management Plan (iii) LW 420-422 Water Management Plan (iv) LW 420-422 Biodiversity Management Plan (v) LW 420-422 Swamp Monitoring Program (vi) LW 420-422 Land Management Plan (vii) LW 420-422 Heritage Management Plan (viii) LW 420-422 Public Safety Management Plan
affected feature/s; addresses in appropriate detail all items of key public infrastructure and other public infrastructure and all classes of other built features; recommends appropriate pre-mining mitigation measures to reduce subsidence impacts; and recommends appropriate remedial measures and includes commitments to mitigate, repair, replace or compensate predicted impacts on potentially affected built features in a timely manner; (iii) Water Management Plan which has been prepared in consultation with DPI-Water, WaterNSW and the Independent Monitoring Panel (required by condition 11), which provides for the management of potential impacts and/or environmental consequences of the proposed underground workings on watercourses and aquifers, including: detailed baseline data on: - surface water flows and quality in water bodies that could be affected by subsidence, including Wolgan River, Carne Creek, Marangaroo Creek, Coxs River and all major associated tributaries; - groundwater levels, yield and quality in the region; surface and groundwater impact assessment criteria, including trigger levels for investigating any potentially adverse impacts on water resources or water quality; a surface water monitoring program to monitor and report on: - stream flows and quality; - stream and riparian vegetation health; - channel and bank stability; a groundwater monitoring program to monitor and report on:	The LW420-422 Extraction Plan and component plans map where the requirements of SSD-5594 CoA S3-10 are addressed within each document and include (ix) TARPs addressing features in Tables 1 and 2 and (x) contingency plans.
 springs, their discharge quantity and quality, as well as associated groundwater dependent ecosystems; groundwater inflows to the underground mining operations; the height of groundwater depressurization; background changes in groundwater yield/quality against mine-induced changes, in particular, on groundwater bore users in the vicinity of the 	

 site;
- permeability, hydraulic gradient, flow direction and connectivity of the
deep and shallow groundwater aquifers;
- impacts of the development on upland swamps (refer to condition 10
below) and other groundwater dependent ecosystems;
☐ a description of any adaptive management practices implemented to
guide future mining activities in the event of greater than predicted
impacts on aquatic habitat;
☐ a program to validate the surface water and groundwater models for
the development, and compare monitoring results with modelled
predictions; and
☐ a plan to respond to any exceedances of the surface water and
groundwater assessment criteria;
(iv) Biodiversity Management Plan which has been prepared in
consultation with OEH and the Independent Monitoring Panel, which
provides for the management of potential impacts and/or environmental
consequences of the proposed second workings on aquatic and
terrestrial flora and fauna, with a specific focus on threatened species,
populations and their habitats and EECs, including a management and
research program for the Blue Mountains Water Skink (Eulamprusleuraensis):
(v) Swamp Monitoring Program which has been prepared in consultation
with OEH, DPI-Water, WaterNSW and the Independent Monitoring Panel,
and which includes (as a minimum):
☐ further consideration of the location of existing piezometers and the
installation of upslope and downslope piezometers in all shrub swamps,
in order to better understand the down-slope movement of shallow
groundwater;
☐ installation of flow monitoring points in all shrub swamps;
measures to record the nature and condition of terrestrial and aquatic
flora and fauna within all shrub swamps and selected hanging swamps;
measures to characterise soils or peat layers within the swamps to
determine:
- porosity;
- a basis for relating water levels to rainfall and evapotranspiration; and
- the presence, or absence, of clay materials at the interface with the
underlying bedrock;
☐ a program for monthly review of the water balance of all monitored
swamps based on recorded rainfall, estimated evapotranspiration and
recorded surface and shallow groundwater levels and outflow
measurements;
☐ detailed performance indicators for the relevant performance measures
in Table 1, including performance indicators relating to surface and
shallow groundwater levels and outflow measurements.

□ assessment of any post-mining impacts on the incision feature in			
Sunnyside East Swamp;			
□ specific consideration of subsidence impacts on and environmental			
consequences to hanging swamps;			
□ consideration of a minimum of 2 years of baseline data for swamp			
hydrology and swamp vegetation;			
□ hydrological and vegetative monitoring which fully satisfies Before After			
Control Impact (BACI) design principles;			
□ provision of raw piezometer and other monitoring data to the			
Department, OEH and the Independent Monitoring Panel, if requested;			
and			
□ incorporation of any relevant findings from swamp research projects			
into the swamp monitoring program;			
(vi) Land Management Plan which has been prepared in consultation with			
OEH and any other affected public authorities, which provides for the			
management of potential impacts and/or environmental consequences of			
the proposed underground workings on land in general, with a specific			
focus on cliffs, minor cliffs, pagoda formations, steep slopes and gorges;			
(vii) Heritage Management Plan which has been prepared in consultation			
with OEH and relevant stakeholders for both Aboriginal and non-			
Aboriginal heritage, which provides for the management of potential			
environmental consequences of the proposed second workings on			
Aboriginal and non- Aboriginal heritage and includes all requirements			
under condition 24 of Schedule 4;			
(viii) Public Safety Management Plan which has been prepared in			
consultation with DRE and OEH, which ensures public safety and			
manages access on the site;			
(ix) TARPs addressing all features in Tables 1 and 2, which contain:			
□ appropriate triggers to warn of increased risk of exceedance of any			
performance measure; and			
□ specific actions to respond to high risk of exceedance of any			
performance measure to ensure that the measure is not exceeded;			
an assessment of remediation measures that may be required if			
exceedances occur and the capacity to implement the measures;			
(x) Contingency Plan that expressly provides for:			
adaptive management where monitoring indicates that there has been an avacadence of any performance management. Tables 4 and 2 are where			
an exceedance of any performance measure in Tables 1 and 2, or where			
any such exceedance appears likely; and ☐ an assessment of remediation measures that may be required if			
exceedances occur and the capacity to implement those measures;			
(xi) proposes appropriate revisions to the Rehabilitation Management			
Plan required under condition 32 in Schedule 4; and			
(xii) includes a program to collect sufficient baseline data for future			
Extraction Plans.			
Extraction Francis.	I	1	

	Notes: ☐ This condition does not apply to first or second workings which are covered by an Extraction Plan or Subsidence Management Plan approved, or submitted for approval, as at the date of this development consent. ☐ In accordance with condition 7 in Schedule 6, the preparation and implementation of Extraction Plans may be staged, with each plan covering a defined area of underground workings. In addition, these plans are only required to contain management plans that are relevant to the specific underground workings that are being carried out. ☐ Due to the sensitive and rugged terrain of the Newnes Plateau, the Applicant may propose remote subsidence monitoring techniques.		
Schedule 3 Condition 11	Independent Monitoring Panel An Independent Monitoring Panel for the development will be established by the Secretary, and be comprised of suitably qualified experts in the fields of mining subsidence, upland swamps and landforms of the western Blue Mountains. The role of the Panel is to provide timely, accurate and focussed advice to the Applicant and the Secretary regarding the: (a) collection of relevant data to predict and monitor the potential subsidence impacts and environmental consequences of second workings; (b) achievement of performance measures in Table 1 in respect of Swamps, Land and Biodiversity, including relevant performance indicators, including avoidance of impacts where reasonable and feasible, rather than relying on remediation and offsets; (c) preparation, revision and implementation of Extraction Plans, particularly the Swamp Monitoring Program, Biodiversity Management Plan and Land Management Plan components; (d) undertaking iterative risk assessment in Extraction Plans, including consideration of all options for avoiding or minimising damage to swamps and all possible adaptive management measures; (e) appropriate implementation of the swamp and groundwater monitoring programs and adaptive management regime throughout the life of the project; and	Compliant	The IMP has been established and consists of Dr Wendy Timms (water/groundwater), Dr Barbara Mactaggart (swamp ecology), and Emeritus Professor Jim Galvin (subsidence). The IMP reviewed and provided input on the LW 419 and LW420-422 Extraction Plan component Management Plans (Water Management Plan, Biodiversity Management Plan and Swamp Monitoring Program). Final correspondence has been placed on the Centennial Coal website.

	 (f) calculation of swamp offset liability and verification of calculated swamp offset liability under conditions 4 and 5 of Schedule 3. 		
Schedule 5	Refer Table 5 for condition.	Compliant	Refer Table 5 for condition compliance assessment.
Condition 1			
Schedule 5	Refer Table 5 for condition.	Not Applicable	Refer Table 5 for condition compliance assessment.
Condition 2			

Table 7. EPBC 2013/6881 Condition 3 – NSW Development Consent SSD_5594 Conditions

Condition Number / Reference	Condition	Project Compliance Status	Evidence / Comments
Schedule 3	Refer Table 5 for condition.		Refer Table 5 for condition compliance assessment.
Condition 1			
Schedule 3	Extraction Plan		<u>LW419</u>
Condition 10 (h)(iii)	The Applicant shall prepare and implement an Extraction Plan for all second workings on site to the satisfaction of the Secretary. Each Extraction Plan must: (h) include a: iii. Water Management Plan which has been prepared in consultation with DPI-Water, WaterNSW and the Independent Monitoring Panel (required by condition 11), which provides for the management of potential impacts and/or environmental		The LW419 Extraction Plan was the first prepared under this consent in 2016, but implemented during the reporting period. The LW419 Water Management Plan maps where the requirements of SSD-5594 CoA S3-10(h)(iii) are addressed (Section 4.1- Table 1). The LW419 Water Management Plan was approved as part of the LW419
	consequences of the proposed underground workings on watercourses and aquifers, including: • detailed baseline data on: • surface water flows and quality in water bodies that could be affected by subsidence, including Wolgan River, Carne Creek, Marangaroo Creek, Coxs River and all major associated tributaries; • groundwater levels, yield and quality in the region;		Extraction Plan on the 11 th of July 2016. LW420 and LW421 The LW420-422 Extraction Plan was prepared under this consent in 2017 and was in place during the reporting period. The LW420-422 Water Management Plan maps where the requirements of

	 surface and groundwater impact assessment criteria, including trigger levels for investigating any potentially adverse impacts on water resources or water quality; a surface water monitoring program to monitor and report on: stream flows and quality; stream and riparian vegetation health; channel and bank stability; a groundwater monitoring program to monitor and report on: springs, their discharge quantity and quality, as well as associated groundwater dependent ecosystems; groundwater inflows to the underground mining operations; the height of groundwater depressurization; background changes in groundwater yield/quality against mine-induced changes, in particular, on groundwater bore users in the vicinity of the site; permeability, hydraulic gradient, flow direction and connectivity of the deep and shallow groundwater aquifers; impacts of the development on upland swamps (refer to condition 10 below) and other groundwater dependent ecosystems; a description of any adaptive management practices implemented to guide future mining activities in the event of greater than predicted impacts on aquatic habitat; a program to validate the surface water and groundwater models for the development, and compare monitoring results with modelled predictions; and a plan to respond to any exceedances of the surface water and groundwater assessment criteria; 		SSD-5594 CoA S3-10(h)(iii) are addressed (Section 4.1- Table 1). The LW420-422 Water Management Plan was approved as part of the LW420-422 Extraction Plan on the 21 st of April 2017.
Schedule 4 Condition 9			The Springvale Water Management Plan (Table 3-4) includes a summary of water inputs and outputs of water management system for the existing conditions (2013) and for proposed conditions (2022). Table 3-4 identifies that Springvale Coal has sufficient water for both of these stages.
Schedule 4	Water Pollution	Compliant	This condition is also included in the Springvale EPL 3607 as condition L1.1.

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Condition 10	Unless an EPL authorises otherwise, the Applicant shall comply with section 120 of the POEO Act.			EPL 3607 includes management, monitoring and reporting requirements for water pollution and siltation at Springvale operations.
				Non-compliances with EPL 3607 conditions during the reporting period were reported in the 2017 Annual Return (EPL), Annual Review (SSD_5594), in monthly environmental monitoring reports available on the Springvale Centennial and are available on the EPA Public Register website.
				All non-compliances during the reporting period were reported in accordance with relevant approvals.
	Water Management Performance	Measures		
Schedule 4 Condition 12	The Applicant shall comply with the the satisfaction of the Secretary.	e performance measures in Table 6 to	Compliant	Springvale has prepared a Western Region Water Management Plan and Springvale Water Management Plan which were provided to the DPE, EPA, DPI-Water and WaterNSW for review to meet SSD-5594 S4-14.
	Feature	Performance Measure		The Management Plans seek to address the performance measures from SSD-
	Water Management – General	Minimise the use of clean water on site Minimise the use of water from external sources		The Management Plans seek to address the performance measures from St 5594 CoA S4-12 Table 6 and includes management controls to enable performance measures to be met. To date, neither Management Plan has been approved. Consultation of the control of the contr
	Construction and operation of infrastructure	 Design, install and maintain erosion and sediment controls generally in accordance with the series Managing Urban Stormwater: Soils and Construction including Volume 1, Volume 2A – Installation of Services and Volume 2C – Unsealed Roads Design, install and maintain the infrastructure within 40 m of watercourses generally in accordance with the Guidelines for Controlled Activities on Waterfront Land (DPI 2012), or its latest version Design, install and maintain creek crossings generally in accordance with the Policy 		stakeholders will continue to be undertaken to ensure the Management Plans suitably comply to the performance measures stated in this condition.

	and Guidelines for Fish Friendly Waterway Crossings (NSW Fisheries, 2003) and Why Do Fish Need To Cross The Road? Fish Passage Requirements for Waterway Crossings (NSW Fisheries 2003), or their latest versions
Clean water diversion	Maximise as far as reasonable and feasible the diversion of clean water around disturbed areas on site, except where clean water is captured for use on site
Sediment dams	Design, install and maintain the new dams generally in accordance with the series Managing Urban Stormwater: Soils and Construction – Volume 1 and Volume 2E – Mines and Quarries
Mine water storages	 Design, install and maintain mine water storage infrastructure to ensure no unlicensed or uncontrolled discharge of mine water offsite Minimise discharges to surface waters as far as reasonable and practicable New storages (mine infrastructure dams, groundwater storage and treatment dams) are suitably treated to comply with a permeability standard of < 1 x 10-9 m/s
Mine water discharges	☐ Discharge all groundwater inflow mine water (except from

	Aquatic and riparian ecosystems Chemical and petroleum storage	the Renoun workings) through the Springvale Delta Water Transfer Scheme ☐ Meet limits for salinity of 700 (50th percentile), 900 (90th percentile) and 1,000 (100th percentile) µS/cm EC by 30 June 2017 ☐ Meet a limit for salinity of 500 (90th percentile) µS/cm EC by 30 June 2019 ☐ Eliminate acute and chronic toxicity from LDP009 discharges to aquatic species by 30 June 2017, with acute toxicity defined as >10% effect relative to the control group and chronic toxicity defined as >20% effect relative to the control group ☐ Maintain or improve baseline channel stability ☐ Develop site-specific water quality objectives in accordance with the ANZECC Guidelines and Water Quality Objectives in NSW procedures (DECC 2006), or its latest version Chemical and hydrocarbon products to be stored in bunded areas in accordance with the relevant Australian Standards		
Schedule 4 Condition 14	The Applicant shall program and invalence at a Mater Management Planter		Compliant	Springvale has prepared a Western Region Water Management Plan and Springvale Water Management Plan which were provided to the DPE, EPA, DPI-Water and WaterNSW for review to meet SSD-5594 S4-14. The Management Plans seek to address the performance measures from SSD-5594 CoA S4-12 Table 6 and includes management controls to enable the performance measures to be met.

of this consent, unless otherwise agreed by the Secretary;	
(c) include detailed performance criteria and describes measures to ensure that the Applicant complies with the Water Management	To date, neither Management Plan has been approved. Consultation with
Performance Measures (see Table 6);	stakeholders will continue to be undertaken to ensure the Management Plans
(d) in addition to the standard requirements for management plans (see	suitably comply to the performance measures stated in this condition.
condition 2 of Schedule 6), this plan must include a:	
(i) Site Water Balance that:	
☐ includes details of:	
- sources and security of water supply, including contingency planning for	
future	
reporting periods;	
- water use and management on site;	
- any off-site water discharges; and	
- reporting procedures, including the preparation of a site water balance	
for each	
calendar year; and ightharpoonup investigates and implements all reasonable and feasible measures to	
minimise water use on site;	
(ii) Surface Water Management Plan, that includes:	
detailed baseline data on water flows and quality in the waterbodies	
that could be affected by the development, including Wolgan River, Carne	
Creek, Marrangaroo Creek and Paddys Creek, Coxs River, Lake Lyell,	
Lake Wallace, Lake Burragorang and associated tributaries;	
☐ a detailed description of the water management systems on site,	
including the:	
- clean water diversion systems;	
- erosion and sediment controls; and	
- mine water management systems;	
detailed objectives and performance criteria, including trigger levels for	
investigating any potentially adverse impacts associated with the development for:	
- the water management system;	
- downstream surface water quality;	
- downstream flooding impacts; and	
- stream and riparian vegetation health for rivers and creeks and their	
tributaries potentially impacted by the development;	
- design and management for the emplacement of coal reject materials;	
- restoration of an appropriate drainage network on the rehabilitated	
areas of the site; and	
- control of any potential water pollution from the rehabilitated areas of the	
site; □ a program to monitor and report on:	
- the performance measures listed in Table 6;	
- the effectiveness of the water management system;	
and and an analytical management dyotom,	l .

]
	- surface water flows, quality and geomorphology of the watercourses		
	potentially affected by the development within and immediately outside of		
	the site;		
	- the seepage/leachate from on-site water storages; and		
	- downstream flooding impacts;		
	□ consideration of any EPA review of licensed discharge points for the		
	development and any further advice from WaterNSW in relation to water		
	discharges;		
	□ an updated Regional Water Quality Impact Assessment Model having		
	regard for variations in Lake Burragorang (salinity and volume) and		
	spillages from Lake Lyell;		
	reporting procedures for the results of the monitoring program;		
	□ a program to validate the Regional Water Quality Impact Assessment		
	Model, including an independent review of the model every 3 years, and		
	comparison of monitoring results with modelled predictions; and		
	☐ a plan to respond to any exceedances of the performance measures,		
	and repair, mitigate		
	and/or offset any adverse surface water impacts of the development; and		
	(iii) Groundwater Management Plan, which is consistent with DPI-Water's		
	guideline entitled Groundwater Monitoring and Modelling Plans –		
	Introduction for prospective mining and petroleum activities, and includes:		
	detailed baseline data of groundwater levels, yield and quality in the		
	region that could be affected by the development, including licensed		
	privately-owned groundwater bores and a detailed survey/schedule of		
	groundwater dependent ecosystems;		
	groundwater dependent ecosystems,		
	investigating any potentially adverse groundwater impacts;		
	□ a program to monitor and report on:		
	- springs and their discharge quantity and quality;		
	- groundwater inflows transferred to the surface water management		
	system;		
	- the seepage/leachate from water storages and emplacements;		
	- impacts of the development on:		
	o regional and local (including alluvial) aquifers;		
	o groundwater supply of potentially affected landowners; and		
	o groundwater dependent ecosystems (including rules for the		
	management of		
	groundwater level impacts to protect GDEs), and riparian vegetation;		
	a program to validate the groundwater model for the development,		
	including an independent review of the model every 3 years, and		
	comparison of monitoring results with modelled predictions; and		
	□ a plan to respond to any exceedances of the performance measures.		
	□ a plan to respond to any exceedances of the performance measures.		
	_ ,		
Schedule 5	Refer Table 5 for condition.	Compliant	Refer Table 5 for condition compliance assessment.

Condition 1			
Schedule 5	Refer Table 5 for condition.	Not Applicable	Refer Table 5 for condition compliance assessment.
Condition 2		7.600.00	

4. IMPLEMENTATION OF MANAGEMENT DOCUMENTS

There are four documents which have been approved under EPBC 2013/6881. These are listed below. Potential non-compliances reported under these management documents and EPBC2013/6881 are presented in Section 4 of this report.

- The Temperate Highland Peat Swamps on Sandstone Monitoring and Management Plan for LW 418:
- 2. The Blue Mountains Water Skink Research and Management Plan;
- 3. The Swamp Monitoring Program and Biodiversity Management Plan for Longwall 419; and
- 4. The Swamp Monitoring Program and Biodiversity Management Plan for Longwall 420-422.

Monitoring undertaken in accordance with the Monitoring Programs and an analysis of results are presented in the Subsidence Management Status Reports (prepared four-monthly), 6-Monthly Environmental Monitoring Reports (required under the Extraction Plans) and the Annual Review (submitted by the 31st of March each year).

The inaugural monitoring event for the Blue Mountains Water Skink was conducted in 2015 – 2016. Replicated surveys were conducted over three monitoring rounds and across ten sites to establish the foundations for a successful multi-year monitoring program by:

- Determining Blue Mountains Water Skink presence at each candidate swamp;
- Refining monitoring methodologies and capture-mark-recapture techniques to improve the accuracy of population estimate; and
- Initiating the development of a baseline dataset for impact and control sites thus define the natural pre-impact variation within Blue Mountains Water Skins populations.

It is expected that two to three years of monitoring will be required to provide a baseline for future analyses. A status report detailing the results of two separate surveys and analysis was prepared by RPS and supplied to Springvale in January 2017. Research conducted in the first sampling period (i.e. 2015-2016) focused on the evaluation of the following:

- Efficacy of different trapping methods; and
- Population size estimates.

Baseline data suitable for the performing of a multi year monitoring program was initiated in 2016 and is being implemented at Carne West, other swamps identified within the area of investigation and reference swamps where no mining impacts are expected.

Research efforts are focused on improving the accuracy of population size estimates for the purposes of population viability modelling; as initial estimates generated from the 2015-2016 dataset were unrefined. These estimates are contingent on performing adequate capture/ mark/ recapture programs with sufficient spatial scale to accurately estimate swamp scale population sizes. In this respect, there has been an increased focus on evaluating within swamp habitat values (i.e. identification of high value or refugia habitat) and this information will greatly enhance the accuracy of swamp scale population estimates

Recommendations for ongoing research and monitoring were made and have been acted on with further sampling completed in February 2017 and November 2017. The report indicated that Blue Mountains Water Skink was found within nine of thirteen Temperate Highland Peat Swamps on Sandstone sampled. Results indicated varying population sizes, although the reliability of these population estimates is intrinsically linked by the limit dataset on hand. Consideration for the enhancement of the monitoring methods utilised are currently being evaluated as part of the monitoring program.

5. TRIGGER NOTIFICATIONS

The following notifications were provided to the Department of Environment during the reporting period. In accordance with relevant approval requirements, Centennial notified the Department of Environment and has undertaken investigations into the exceedances. The following sections summarise the actions undertaken in relation to each trigger. Additional detail is included in the reports provided to the Department.

5.1. GW2

Initial Notification

Notification of an exceedance at groundwater monitoring location GW2 was received by Springvale from RPS on the 19th of May 2017. Notification of the trigger was then provided to the Department of Environment and the Department of Planning and Environment on the 22nd of May 2017, as required under the response protocol in the Swamp Monitoring Program for longwall 420-422 and EPBC 2013/6881 Condition 17.

Investigative Report

A Trigger Investigation Report was submitted to both Departments of the 14th of July 2017. The Report outlined a series of checks to discern non-mining impacts from mining related impacts and a proposed action plan.

Response Strategy

The following actions are currently being undertaken by Centennial:

- The following actions will be reviewed to form part of a further investigation program to determine potential causes in the change in groundwater level behaviour observed in GW2:
 - Centennial to continue its investigations into subsidence effects to groundwater systems to determine if there is a relationship between mine subsidence and the change in groundwater level behaviour observed in GW2.
 - Review the results obtained from the Stage 1 Hydrological Modelling of Shrub Swamps recently completed by Jacobs.
 - Complete a review of adjacent aquifer piezometers to determine whether there has been a corresponding decline in regional groundwater beneath the base of GW1.
- Continue to monitor conditions for a 6 month period and:
 - o Undertake any necessary investigations.
 - Review data from all monitoring programs.

Investigation Outcomes

GW2 exceeded the short term trigger criteria set out in the LW420-422 SMP. GW2 has previously exceeded its 95th percentile pre-mining threshold during the pre-mining period on several occasions and was in exceedance before the longwall approached within 600m. Applying the 95th percentile to reference piezometers also showed exceedances during the pre-mining period due to rainfall deficit which has affected swamps on a regional scale. The longwall approach is not observed as a major contributor to the exceedance of GW2 with a combination of declining CRD and the mining of a regional fault structure during LW418 and LW419 considered more likely influences.

5.1. GG1

Initial Notification

Notification of an exceedance at groundwater monitoring location GG1 was received by Springvale from RPS on the 13th of October 2017. Notification of the trigger was then provided to the Department of Environment and the Department of Planning and Environment on the 16th of October 2017, as required

under the response protocol in the Swamp Monitoring Program for longwall 420-422 and EPBC 2013/6881 Condition 17.

Investigative Report

A Trigger Investigation Report was submitted to both Departments of the 15th of December 2017. The Report outlined a series of checks to discern non-mining impacts from mining related impacts and a proposed action plan.

Response Strategy

The following actions are currently being undertaken by Centennial:

- Centennial should continue its investigations into subsidence effects to groundwater systems to determine if there is a relationship between mine subsidence and the change in groundwater level behaviour observed in GG1.
- Complete a review of adjacent aquifer piezometers to determine whether there has been a corresponding decline in regional groundwater beneath the base of GG1.

Continue to monitor conditions for a 6-month period and:

- Undertake any necessary investigations.
- Review data from all monitoring programs.

Investigation Outcomes

Although the water levels at GG1 dropped below the short-term trigger level during the postmining period, the response is not dissimilar to water levels observed in February 2017 in response to rainfall deficit. The effects of drought and/or prolonged rainfall deficit on monitored swamps are not fully understood, as the duration of monitoring at most impact and reference piezometers is relatively short and began on the back of a prolonged wetting period from 2010 to 2013. In an environment of natural water level regression, it is difficult to distinguish between climatic influences and gradual or progressive mining influences. The effects, or not, of mining influences will become more apparent with on-going monitoring and the comparison of GG1 to long-term triggers.

5.2. GG2

Initial Notification

Notification of an exceedance at groundwater monitoring location GG1 was received by Springvale from RPS on the 11th of September 2017. Notification of the trigger was then provided to the Department of Environment and the Department of Planning and Environment on the 12th of September 2017, as required under the response protocol in the Swamp Monitoring Program for longwall 420-422 and EPBC 2013/6881 Condition 17.

Investigative Report

A Trigger Investigation Report was submitted to both Departments of the 17th of October 2017. The Report outlined a series of checks to discern non-mining impacts from mining related impacts and a proposed action plan.

Response Strategy

The following actions are currently being undertaken by Centennial:

Centennial should continue its investigations into subsidence effects to groundwater systems to determine if there is a relationship between mine subsidence and the change in groundwater level behaviour observed in GG2.

- Complete a review of adjacent ridge piezometers to determine whether there has been a corresponding decline in regional groundwater beneath the base of GG2.
- Continue to monitor conditions for a 6-month period; an:
- Closely observe GG1 and GG3 for any sudden changes in swamp water level behaviour.

Investigation Outcomes

GG2 exceeded its pre-mining trigger level approximately three months before LW420 was within 600m which then continued into the post-mining period. Prior to exceedance and between the December 2016 and March 2017 rainfall events, the water level at GG2 was hovering just above its respective trigger level. After rainfall in March 2017, the water level at GG2 fluctuated at or below the base of the piezometer, periodically exceeding its respective pre-mining trigger level during the pre-mining period. The post-mining period commenced on the 4th August 2017 and the exceedance trigger occurred 7 days after on the 10th August 2017 once the short trigger criteria had been met. It is not known whether peaky responses to rainfall are characteristic of the water levels in this portion of Gang Gang East Swamp because of the short pre-mining monitoring period. The impact of recent rainfall deficits is evident at historically water logged swamps such as GG1, CC1 and BS2, with some of the lowest water levels recorded since monitoring began and triggering respective trigger levels during the pre-mining period. Furthermore, swamp piezometers located over Angus Place also experienced these rainfall deficits indicating the climatic impact was on a regional scale.

The effects of drought on monitored swamps are not fully understood, as the duration of monitoring at most impact and reference piezometers is relatively short and began on the back of a prolonged wetting period from 2010 to 2013. It is hard to distinguish between mining and climate impacts without monitoring swamps during significant pre-mining rainfall deficit or drought as post-mining climatic responses can easily be confused for mining impacts. Applying the 95th percentile to reference piezometers also showed exceedances during the pre-mining period due to rainfall deficit which has affected swamps on a regional scale. The longwall approach is not observed as a major contributor to the exceedance of GG2 with available data indicating the water levels in the swamp around GG2 is largely rainfall dominated.

5.3. SPR1104 & SPR1107

Initial Notification

Notification of an exceedance of water level trigger thresholds (short-term) at SPR1104 and SPR1107 was received by Centennial from RPS on the 22nd of December 2016, following scheduled monitoring and subsequent data verification. Notification of the triggers was provided to the Department of Environment and the Department of Planning and Environment on the 22nd of December 2016, as required under Springvale approvals.

Investigative Report

A Trigger Investigation Report was submitted to both Departments on the 16th of February 2017. The Report outlined a series of checks to discern non-mining impacts from mining related impacts and a proposed action plan.

Response Strategy

The following actions are currently being undertaken by Centennial:

- Centennial will continue investigations into subsidence affects to groundwater systems to determine if there is a relationship between mine subsidence and the change in groundwater level behaviour observed at SPR1104 and SPR1107.
- Continue to monitor conditions for a 6 month period and:
 - o Undertake any necessary investigations if conditions worsen.
 - Review data from all monitoring programs.

Investigation Outcomes

Both SPR1104 and SPR1107 exceeded the 5th percentile pre-mining thresholds during the pre-mining period. This caused the immediate trigger of SPR1104 and SPR1107 when the longwall approached within the 600m trigger investigation area. With the same trigger criteria applied, reference piezometers SPR1108, SPR1111, and SPR1113 were also found to trigger during the pre-mining period, indicating a

regional climatic influence on groundwater levels. This is supported by a rainfall deficit from March 2013 which is observable through CRD.

SPR1104 shows a sharp declining trend towards the end of September 2016 that does not correlate with reference piezometers or climatic conditions. The hydrograph indicates that groundwater level in the vicinity of the piezometer has re-equilibrated with reduced groundwater levels above the longwall goaf which have been impacted by subsidence, likely fracture dilation and bed separation resulting in increased storage capacity and a corresponding reduction in groundwater levels. This is further supported by stabilisation towards the end of the data set. There is no evidence of continued decline that might be associated with vertical fracturing or deep drainage at this stage.

Post-mining, the groundwater level at SPR1107 has continued at a similar gradient to reference piezometers. Continued monitoring may be expected to show a similar response with the passing of Longwall 419, as observed at SPR1104.

5.4. SPR1108

Initial Notification

Notification of an exceedance at groundwater monitoring location GG1 was received by Springvale from RPS on the 17th of November 2017. Notification of the trigger was then provided to the Department of Environment and the Department of Planning and Environment on the 21st of November 2017, as required under the response protocol in the Swamp Monitoring Program for longwall 420-422 and EPBC 2013/6881 Condition 17.

Investigative Report

A Trigger Investigation Report was submitted to both Departments of the 9th of January 2018. The Report outlined a series of checks to discern non-mining impacts from mining related impacts and a proposed action plan.

Response Strategy

At the time of reporting, the short term trigger for SPR1108 is considered to be climatically driven with no mining impacts considered to be influencing groundwater levels. Given the investigations findings, the following recommendation is provided as per Chart 2 of the TARP:

 Continue monitoring SPR1108 for potential long term mining impacts as per the LW420 – 422 SMP.

Investigation Outcomes

Statistical assessment of pre and post-mining groundwater level data for SPR1108 indicate that the groundwater level dropped below the short term trigger level before the LW420 mining face was within 600m of the piezometer. When LW420 came within 600m of SPR1108, groundwater levels remained below the respective trigger level for the one-month observation period, as detailed in the SMP, and the short term trigger was exceeded.

LW420 was completed on the 9/11/2017. No obvious indication of mining impacts are observed in the gradual decline in groundwater levels at SPR1108, which is considered to be climatically driven.

5.5. SPR1111

Initial Notification

Notification of an exceedance at groundwater monitoring location GG1 was received by Springvale from RPS on the 16th of June 2017. Notification of the trigger was then provided to the Department of

Environment and the Department of Planning and Environment on the 16th of June 2017, as required under the response protocol in the Swamp Monitoring Program for longwall 420-422 and EPBC 2013/6881 Condition 17.

Investigative Report

A Trigger Investigation Report was submitted to both Departments of the 11th of August 2017. The Report outlined a series of checks to discern non-mining impacts from mining related impacts and a proposed action plan.

Response Strategy

The following actions are currently being undertaken by Centennial:

- Continue to monitor conditions for a 6 month period and:
- Closely observe water levels at SPR1111 for indications of further decline or recovery.
- Closely monitor water levels at Gang Gang South West and Gang Gang East Swamps for any delayed responses to interaction with intercepted lineaments.
- Closely observe VWP SPR66 for indications of stabilisation or further depressurisation.

Investigation Outcomes

SPR1111 was in exceedance of its respective trigger level during the premining period and as a result was in immediate breach when LW420 commenced on the 29/04/2017.

It is believed that the sudden drop in water level observed in early February 2017 is a legitimate aquifer response which has been verified with manual water level measurements. SPR66, which was within 600m of LW419, also demonstrates decreases in piezometric pressures in all 8 piezometers around the same time as SPR1111.

The timing of the response observed at SPR1111 indicates that the water level drop is unrelated to LW420 and is believed to be a far field depressurisation response due to the interception of a lineament when mining LW419 (Centennial 2017). The stable water level observed after the stepped drop at SPR1111 is suggestive of a sudden increase in pore space due to bed separation and/or fracture/fault dilation along the lineament. Further to this, no indication of deep drainage (typical of a consistently declining water level) has been observed at the time of reporting.

5.1. APNEPGAN

Initial Notification

Notification of an exceedance at groundwater monitoring location APNEPGAN was received by Springvale from RPS on the 5th of April 2017. Notification of the trigger was then provided to the Department of Environment and the Department of Planning and Environment on the 6th of April 2017, as required under the response protocol in the Swamp Monitoring Program for longwall 419 and EPBC 2013/6881 Condition 17.

Investigative Report

A Trigger Investigation Report was submitted to both Departments of the 18th of April 2017. The Report outlined a series of checks to discern non-mining impacts from mining related impacts and a proposed action plan.

Investigation Outcomes

The reduction in surface flows observed at APNEPGAN from September 2016 coincides with a period of decreasing rainfall. However from comparison with historical rainfall responses and rainfall response at reference site APNEPTRI, it is not considered that rainfall alone was responsible for the observed flow reduction.

- Swamp groundwater levels measured at Gang Gang East and Gang Gang South West generally show a declining trend from approximately September 2016 with increased level fluctuation. From mid-October GW1, GW4 and GG2 are no longer recording a water level, indicating that the groundwater level is below the data logger.
- The LW 419 face passed adjacent to Gang Gang South West swamp during October and November 2016, which coincides with the timing of the period of reduced flows.

The response observed in groundwater level data measured at Gang Gang East and South West swamps and flow data measured at APNEPGAN appears consistent with the hypothesis discussed in Centennial Coal (2017). The hypothesis suggests that mining in the vicinity of significant fault zones can cause changes to standing water levels in swamps.

5.2. WC02, WC03 & WC04

Initial Notification

Notification of an exceedance of flora performance indicator triggers at monitoring locations WC02, WC03 and WC04 (Carne West Swamp) was received by Centennial from RPS on the 8th of March 2017. Notification of the triggers was provided to the Department of Environment on the 9th of March 2017, as required under the response protocol in the Longwall 415 – 417 THPSS MMP and Longwall 418 THPSS MMP TARP.

Investigative Report

A Trigger Investigation Report was submitted to the Department on the 3rd of May 2017. The Report outlined a series of checks to discern non-mining impacts from mining related impacts and a proposed action plan.

Response Strategy

The following actions were recommended for consideration and are currently being undertaken/investigated by Centennial:

WC02, WC03 & WC04 (Condition Scores)

- Continue to perform monitoring activities in accordance with the THPSS MMP for LW418;
- Transition to lower impact monitoring practices as soon as possible to reduce any exacerbating deleterious impacts on the swamp (i.e. Brownstein et al 2014 and RAM (Goldney et al 2009) as specified under SMP for LW419);
- Consider options for reducing the amount of entry into Carne West for monitoring purposes and/ or consider alternate access options (e.g. installation of raised boardwalk to piezometer sites); and
- Consider construction of a barrier along the swamp margin to disperse fauna movements thus
 potentially reduce trampling impacts.

WC04 (Non-live ground cover)

- Continue to perform monitoring activities in accordance with the THPSS MMP for LW418; and
- Transition to lower impact monitoring practices as soon as possible to reduce any exacerbating deleterious impacts on the swamp (i.e. Brownstein et al 2014 and RAM (Goldney et al 2009) as specified under SMP for LW419).

Investigation Outcomes

SSE1

The drying effect of the incision feature (an aged and previously documented erosion feature within Sunnyside East Swamp that pre-dates mining) and the recent prolonged period of dry weather provide an alternative hypothesis for the emergence of eucalypt recruitment. Contrary to other monitored swamps, it is also noteworthy to mention the extensive eucalypt canopy overhang within Sunnyside East Swamp, thus its increased exposure to eucalypt seed accumulation.

Unseasonably dry warm conditions were also prevalent in the preceding months adding further pressure on water availability in the upper peat layers. The combined influence of the incision feature and weather conditions could explain the emergence of eucalypt regeneration within the swamp.

Other measures monitored at SSE01 remain within the expected range and have not resulted in a trigger event. While inconclusive, it is reasonable to speculate that the eucalypt trigger is not necessarily related to mining, rather may be a function of weather and opportunity (i.e. a considerable proportion of Sunnyside East Swamp has overhanging eucalypt cover).

WC01, WC03 & WC04

Coral Fern is a characteristic species in THPSS of the Newnes Plateau area. At Carne West this species forms dense aggregations on the swamp margins decreasing to dense patches in the central parts. Being a fern, this species generally develops a shallow root system in the upper parts of the peat profile and is reliant on constant high soil moisture for growth and vigour. These two factors make this species particularly susceptible to water loss and/ or fluctuation.

According to Hose et al. (2014), Coral Fern is characteristic of the wetter parts of the 'Budderoo' THPSS where it associates with sedge (i.e. Gymnoschoenus sphaerocephalus) and tussock (Xyris operculata) species. Zonation of this nature in Carne West is not exactly the same as described by Hose et al. (2014), however is broadly similar with Xyris ustulata substituting X. operculata and the sedge Lepidosperma limicola substituting G. sphaerocephalus on the swamp margins.

Centennial (2016) provides insight into the recent hydrological regime of Carne West indicating a shift in 2014 from a groundwater to rainfall dependent swamp. Ongoing groundwater investigations are currently being performed to determine if this shift in water reliance is mining induced or is a delayed response to longer term climatic influences.

In consideration of Hose et al. (2014) and Centennial (2016), the exclusion of mining as a possible cause for the decline in Coral Fern condition is a feasible conclusion given that recent dry warm weather conditions may represent a plausible reason for the observed change. If Carne West is rainfall dependent then it is reasonable to assume that the swamp margins will experience the greatest water stress and do so earlier than the swamp axis. Other anthropogenic and natural influences may also have contributed to the sharp decline in Coral Fern condition. Therefore, without clarity on the reason for change in water dependency, it is premature to conclude if the change in Coral Fern condition is mining related or not.

5.3. WC01, WC02 & LGG01

Initial Notification

Notification of an exceedance of flora performance indicator triggers at monitoring locations WC01, WC02 (Carne West Swamp) and LGG01 (Lower Gang Gang Swamp) was received by Centennial from RPS on the 3rd of July 2017. Notification of the triggers was provided to the Department of Environment on the 5th of July 2017, as required under the response protocol in the Longwall 415 – 417 THPSSMP.

Investigative Report

A Trigger Investigation Report was submitted to the Department on the 30th of August 2017. The Report outlined a series of checks to discern non-mining impacts from mining related impacts and a proposed action plan.

Response Strategy

WC01 & WC02 (Species Assemblages)

- Continue to perform monitoring activities in accordance with the THPSS MMP for LW418;
- Transition to lower impact monitoring practices as soon as possible to reduce any exacerbating deleterious impacts on the swamp (i.e. Brownstein et al 2014 and RAM (Goldney et al 2009) as specified under SMP for LW419);
- Consider options for reducing the amount of entry into WC for monitoring purposes and/ or consider alternate access options (e.g. installation of raised boardwalk to piezometer sites); and
- Consider construction of a barrier along the swamp margin to disperse fauna movements thus
 potentially reduce trampling impacts.

LGG01 (Eucalpty Recruitment)

- · Continue to perform monitoring activities in accordance with the THPSS MMP for LW418; and
- Transition to lower impact monitoring practices as soon as possible to reduce any exacerbating deleterious impacts on the swamp (i.e. Brownstein et al 2014 and RAM (Goldney et al 2009) as specified under SMP for LW419).

Investigation Outcomes

WC01 & WC02 (Species Assemblages)

Centennial (2016) indicates the recent hydrological regime of Carne West shifted in 2014 from a groundwater fed system to one predominantly reliant on rainfall events. Under this regime it is considered that abnormal weather conditions likely exacerbate any change in the bioavailability of groundwater resources, particularly along the eastern swamp margin for the following reasons:

- Reduced water saturation of upper peat layers in the central parts of the swamp (i.e.
 groundwater related) is likely to have reduced water availability at the swamp margins (i.e.
 drawdown of rainfall related contributions to the central parts of the swamp); and
- High evapotranspiration stress in the 2016 summer autumn period with the most pronounced effect being on west facing aspects.

In consideration of Hose et al. (2014), Centennial (2016), it is considered that mining may be the primary cause for the observed decline in species diversity (i.e. prolonged reductions in the bioavailability of groundwater resources has caused decline in species richness and cover for some species). In this respect the most pronounced effects of reduced groundwater bioavailability will be at the swamp margins rather than the swamp axis.

LGG01 (Eucalypt Recruitment)

The 'non-swamp species' trigger is considered to be a trigger co-correlating with prolonged abnormal weather conditions (i.e. drying of the peat at the swamp margins with the highest evapotranspiration stress resulting in reduced regenerative potential) and effects of fire. Given the weather and natural impacts evident in LGG01, it is not clear that causation for the trigger event is mining related (i.e. monitoring data is likely to have identified unrelated impacts).

As noted in Section 6.2, LGG01 was incorrectly reported as a trigger notification. Site LGG01 was considered as an impact site, however is a reference site in the context of the monitoring program. Under the monitoring program, trigger indicators do not apply to reference sites.



APPENDIX 1

Final Compliance Audit Report

Springvale Coal Mine Extension Project, New South Wales (EPBC 2013/6881)

Approval Holder: Centennial Coal Pty Ltd

TABLE OF CONTENTS

AUDIT DETAILS	3
BACKGROUND	4
The compliance audit	4
AUDIT OBJECTIVE	4
EPBC Act Controlling Provisions	4
AUDIT FINDINGS	5
AUDIT PROCESS	5
TERMINOLOGY	5
APPENDICES	6
Appendix 1 – Completed audit criteria document	6
Appendix 2 – Conditions of approval for EPBC 2013/6881 including variations	7

AUDIT DETAILS

Report Title:	Compliance audit of the Springvale Coal Mine Extension Project, New South Wales.		
Auditee Name:	Centennial Coal Pty Ltd (Centennial Coal)		
Main Auditee Contact:	Ms Catherine Suggate, Centennial Coal		
E-mail:	audit@environment.gov.au		
Audit Leader:	Mr Nicholas Scholar		
Telephone:	(02) 6274 1284		
Date Audit Conducted:	November 2017 - January 2018		

BACKGROUND

On 15 October 2015, the (then) Department of the Environment approved the *Springvale Coal Mine Extension Project, New South Wales* (EPBC 2013/6881) project. The approval contained 26 conditions mainly related to long wall mining and a number of biodiversity management conditions. Conditions one to three of the EPBC approval are linked to the New South Wales state approval. These conditions require the approval holder to act in accordance with those state based conditions.

The Department of the Environment and Energy (the Department) approved three variations to the original EPBC approval in April, June and July 2016. The variations related to the longwall mining activities under Centennial Coal's EPBC approval.

The project commenced operations on 16 October 2015 with the EPBC approval remaining valid until 8 October 2035.

The compliance audit

On 25 October 2017, the Department commenced a compliance audit of the *Springvale Coal Mine Extension Project, New South Wales* project. The compliance audit focused on the biodiversity management conditions (numbers 11-13) and the standard administrative conditions (numbers 14-18) of the EPBC approval.

The compliance audit was undertaken by an experienced compliance auditor from the Department. The compliance audit was undertaken between November 2017 and January 2018.

AUDIT OBJECTIVE

The audit objective was to assess Centennial Coal's compliance with the biodiversity management and the standard administrative conditions of the 2013/6881 approval.

EPBC Act Controlling Provisions

The relevant provisions under Part 3 of the EPBC Act are:

- 1. Sections 18 and 18A Listed threatened species and communities:
- Temperate Highland Peat Swamps on Sandstone (Endangered);
- Blue Mountains Water Skink (Endangered).
- 2. Sections 20 and 20A Listed migratory species
- Regent Honeyeater (Critically Endangered)
- 3. Sections 12 and 15A World Heritage properties
- The Greater Blue Mountains World Heritage Area (N/A).
- 4. Sections 15B and 15C National Heritage places
- The Greater Blue Mountains World Heritage Area (N/A).
- 5. Section 24D and 24E A water resource, in relation to coal seam gas development and a large coal mining development
- Surface water (N/A);
- Ground water (N/A).

AUDIT FINDINGS

Centennial Coal have demonstrated compliance with all the conditions of the EPBC approval that were examined as part of this compliance audit. Condition 14 was found to be not applicable at the time of the compliance audit. This condition relates to the requirement to secure an offset property in accordance with the development consent of the New South Wales government.

Centennial Coal has advised the Department they are currently working on a suitable swamp offset package in consultation with the New South Wales Department of Planning and Environment. The swamp offset will require input from a number of government agencies. The process for engaging with the agencies is being managed by the New South Wales Department of Planning and Environment.

Detailed findings from the compliance audit are contained in *Appendix 1 – Completed Audit Criteria Document*. The conditions of approval, including the variations are contained below in *Appendix 2 – Conditions of approval EPBC 2013/6881*.

Centennial Coal's comments

AUDIT PROCESS

The compliance audit process commenced in November 2017 with the analysis and audit findings completed in January 2018. The compliance audit was conducted by an experienced compliance auditor at the Department and primarily undertaken as a 'desktop review' of documentation and evidence provided by the approval holder.

The Department acknowledges and appreciates the cooperation and assistance of Centennial Coal during the compliance audit process.

TERMINOLOGY

The following designations are used to record findings during compliance audits.

Compliant

A rating of 'compliant' is given when the approval holder has complied with a condition or element of a condition.

Non-compliant

A rating of 'non-compliance' is given when the approval holder has not met a condition or an element of a condition.

Not applicable at the time of the compliance audit

A rating of 'not applicable' is given when the condition falls outside the scope of the audit. For example, this rating would be given if an activity has not yet commenced.

Undetermined

A rating of 'undetermined' is given when the condition or element of a condition falls inside the scope of the compliance audit but there is insufficient evidence to make a judgement on whether the approval holder is compliant or non-compliant.

Observation

An observation may be made about issues relevant to the protection of a matter of national environmental significance when the issue is not strictly related to if the approval holder is compliant or non-compliant with a condition.



Appendix 1 – Completed audit criteria document

Appendix 2 – Condition	s of approval for EF	PBC 2013/6881 ii	ncluding variations	
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Audit Criteria and Methodology Springvale Coal Mine Extension Project, New South Wales (EPBC 2013/6881) Client: Springvale Coal Pty Ltd

Date:
Audit criteria prepared by:

25 January 2018

RIODI	VERSITY CONDITIONS OF APP	ROVAL			是一种的 Table 1970年				
EPBC	Approval Condition 11	To minimise impacts on listed threatened species and communities, the approval holder must not clear more than 13 hectares of habitat for threatened species within the project area:							
		Auditor Comments Measurements made		Requirement	Verification Method	Compliance Finding			
11.1	The approval holder must not clear more than 13 hectares of habitat for threatened species.	None	 The approval holder informed the Department that vegetation clearing had occurred at three locations on the mine site. The approval holder further outlined methods to mitigate the impacts of this land clearing; The auditor determined that these mitigation measures were appropriate in mitigating vegetation clearing impacts for the listed threatened species; It was determined that to date, the approval holder has cleared 0.73 hectares at the project site. This is within the allowable 13 hectares approved under the EPBC approval. 	Determine if the approval holder cleared only up to the maximum specified hectares of habitat for threatened species.	Examined project area map that includes measurement and location of habitat that has been cleared.	COMPLIANT			
11.2	The approval holder has only cleared habitat for threatened species within the project area.	None	 The auditors examined a map of the mining site to determine where vegetation clearing had occurred; The auditor is satisfied that the vegetation that occurred at the mine site (0.73 hectares) is within the project boundaries. 	Determine if the approval holder cleared only up to the maximum hectares of threatened species habitat within the specified project area.	Examined project area map to determine that clearing occurred within specified project boundaries.	COMPLIANT			
EPBC	Approval Condition 12	This condition only applies to all longwalls except LW 418. To minimise impacts on listed threatened species and communities, in addition to Condition 18 (Schedule 4) on the New South Wales development consent, the biodiversity management plan must:							
		a. include measures to avoid and/or mitigate impacts on listed threatened species and communities that occupy landform habitats including cliffs, minor cliffs, pagodas and gorges - these measures must include pre-mining surveys and translocation and/or cease work protocols if any sites with potential as nursery caves for Large eared Pied Bats;							
		b. include measures to control the spread of pathogens including chytrid fungus and Phytophtora cinnamomi;							
		c. explain how the mitigation and management measures described will protect specific listed threatened species and communities; and							
		d. specify clear timeframes for all management and mitigation measures described.							
		The approval holder must not commence the action before the biodiversity management plan has been approved in writing by the Minister. The approved biodiversity management plan must be implemented.							
		Auditor Comments	Measurements made	Requirement	Verification Method	Compliance Finding			
12.1	The approval holder has developed a biodiversity management plan that includes:	None	Confirmed that the approval holder has developed Biodiversity Management Plans for Longwall 419 and 420-422.	The approval holder developed a biodiversity management plan for all areas of the Springvale Coal Mine Extension Project except LW 418.	Confirmed and viewed the approval holder's Biodiversity Management Plan for all areas of the Springvale Coal Mine Extension Project except LW 418.	COMPLIANT			

12.1.1	Measures to avoid and/or mitigate impacts on listed threatened species and communities that occupy landform habitats including cliffs, minor cliffs, pagodas and gorges - these measures must include premining surveys and translocation and/or cease work protocols if any sites with potential as nursery caves for Large eared Pied Bats.	None	Contained in Section 5 and 9 of the Biodiversity Management Plan.	The biodiversity management plan included these attributes.	Examined Section 5 and 9 of the Biodiversity Management Plan to determine these requirements are present.	COMPLIANT
12.1.2	Measures to control the spread of pathogens including chytrid fungus and Phytophtora cinnamomi.	None	Contained in Section 9 of the Biodiversity Management Plan.	The biodiversity management plan included these attributes.	Examined Section 5 and 9 of the Biodiversity Management Plan to determine these requirements are present.	COMPLIANT
12.1.3	Explain how the mitigation and management measures described will protect specific listed threatened species and communities.	None	Contained in Section 9 of the Biodiversity Management Plan.	The biodiversity management plan included these attributes.	Examined Section 9 of the Biodiversity Management Plan to determine these requirements are present.	COMPLIANT
12.1.4	Specify clear timeframes for all management and mitigation measures described.	None	Contained in Section 7 of the Biodiversity Management Plan.	The biodiversity management plan included these attributes.	Examine Section 7 of the Biodiversity Management Plan to determine these requirements are present.	COMPLIANT
12.2	The approval holder did not commence the action prior to the biodiversity management plan being approved in writing by the Minister.	None	 The Biodiversity Management Plan was submitted to the Department on 10 March 2016; The Department approved the Biodiversity Management Plan on July 2016; The approval holder advised in the 2017 Annual Compliance Report that longwall mining for those mines subject to the Biodiversity Management Plan commenced on 2 August 2017. 	The approval holder did not commence the action until the biodiversity management plan had been approved in writing by the Minister.	Examined the Annual Compliance Report that the approval holder did not commence the action until after Biodiversity Management Plan was approved.	COMPLIANT
12.3	The approval holder implemented all aspects of the approved biodiversity management plan. The biodiversity management plan has been applied to all areas except LW 418.	None	The approval holder has implemented the Biodiversity Management Plan.		Spring annual reports to ensure that the approval holder has implemented all aspects of the Biodiversity	COMPLIANT
EPBC	Approval Condition 13	that population and re-	sponse measures to be implemented if a d nust not commence undermining of Carne	lecline is detected. • West Swamp before the managem	er Skink at Carne West Swamp, including specific me	
		Auditor Comments	ment and research program must be imple Measurements made	Requirement	Verification Method	Compliance Finding
13.1	The approval holder must prepare a management and research program for the Blue Mountains Water Skink at Carne West Swamp.	None	 The approval holder provided the Blue Mountains Water Skink Management and Research Program to the Department on 30 October 2015; The Blue Mountains Water Skink Management and Research Program was approved by the Department on 27 November 2015. 	management and research program for the Blue Mountains Water Skink at Carne West Swamp.	Research Program. Auditor viewed the approval notice	COMPLIANT
13.1.1	The management and research program must include: - Specific measures for monitoring that population;	None	Reflected in sections 1.5 and 1.6 of the Blue Mountains Water Skink Management and Research Program.	The management and research program must include these attributes.	Examined Sections 1.5 and 1.6 of the Blue Mountains Water Skink Plan to determine these requirements are present.	COMPLIANT

13.1.2	The management and research program must include: - Response measures to be implemented if a decline is detected.	None	Response measures are included in the Blue Mountains Water Skink Management and Research Program.	The management and research program must include these attributes.	Examined Sections 1.5 and 1.6 of the Blue Mountains Water Skink Plan to determine these requirements are present.	COMPLIANT
13.2	The approval holder did not commence undermining of Carne West Swamp prior to the management and research program being approved in writing by the Minister.	None	 The approval holder forecast the commencement of mining on 27 November 2015; The Department approved the Blue Mountains Water Skink Management and Research Program on 27 November 2015. 	The approval holder did not commence undermining of the Carne West Swamp until the management and research program had been approved in writing by the Minister.	Determined the date that undermining of the Carne West Swamp commenced and ensure it is after the Minister's approval date of the Blue Mountains Water Skink Management Plan.	COMPLIANT
13.3	The approval holder has implemented all aspects of the approved management and research program.	None	The approval holder has provided evidence to justify that all aspects of the Blue Mountains Water Skink Management and Research Program have been implemented.	The approval holder has implemented all aspects of the management and research program to all areas of the Springvale Coal Mine Extension Project.	Reviewed approval holder's Annual Compliance Report to determine the approval holder has implemented all aspects of the Blue Mountains Water Skink Management Plan.	COMPLIANT
STAND	ARD ADMINISTRATIVE CONDITIO	NS				
		necessarily limited to:	d maps to clearly define the location and bou gal protection;		f securing each offset. Details to be provided mus	
		Auditor Comments	Measurements made	Requirement	Verification Method	Compliance Finding
14.1	The approval holder must provide the Department with details of each offset area secured within twenty (20) days of securing each offset.	None	 The approval advised the Department that there is ongoing discussion and negotiation with the NSW Government on securing the required offset; The condition is not time related and has not been triggered as per the NSW environmental approval. Therefore the condition is Not Applicable. 	The approval holder notifies the Department within twenty (20) business days of securing each offset property.	Viewed the notice from the approval holder notifying the Department that negotiation with the NSW Government on securing the offset is underway.	N/A
14.2	Details to be provided to the Department must include, but are not necessarily limited to: Textual descriptions and maps to clearly define the location and boundaries of the offset areas Written evidence of legal protection; Management Plans; Offset attributes and shapefiles.	None	As indicated above, this criterion is Not Applicable.	Details of the offset provided to the Department include these attributes:	As above, this criteria is not yet triggered	N/A
EPBC /	Approval Condition 15	Within ten (10) days af	ter the commencement of the action, the a	pproval holder must advise the Dep	partment in writing of the actual date of commencem	ient.
		Auditor Comments	Measurements made	Requirement	Verification Method	Compliance Finding
15.1	The approval holder advised the Department within ten (10) days of the commencement of the action.	None	Examine Centennial Coal commencement notification letter and Departmental response.	The Department was advised within 10 days of the commencement of the action.	Viewed letter from Springvale dated 16 October 2015 advising commencement on 16 October 2015. The letter is dated the same day. Therefore, Springvale Coal is compliant with this condition.	COMPLIANT

EPBC Approval Condition 16		implement any manage Department or an indepe	ment documents required by this appro	val, and make them available on re n 458 of the EPBC Act, or used to ve	or relevant to the conditions of approval, includir equest to the Department. Such records may be se erify compliance with the conditions of approval. Su meral media.	ubject to audit by the
		Auditor Comments	Measurements made	Requirement	Verification Method	Compliance Finding
16.1	The approval holder maintains accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement management plans required by this approval, and make it them available upon request to the Department.	None	The approval holder provided reports and monitoring results for aspects of the EPBC approval including fauna, flora, subsidence and water monitoring.	The approval holder has maintained accurate records substantiating all activities associated with or relevant to the conditions of approval. These are available on request to the Department.	Examined records provided to the Department and determine if the records s maintained reflect all activities and requirements of the EPBC approval. Ensure that these records are available for the Department on request.	COMPLIANT
16.2	Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website.	None	The approval holder provided the Department with the reports and monitoring results in accordance with the requirements of the compliance audit.	Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval.	The Approval Holder provided all records requested as part of this condition.	COMPLIANT
EPBC	Approval Condition 17	The approval holder muthe non-compliance.	st report potential non-compliance with	any of the conditions of this approx	val to the Department within two (2) business days	of becoming aware of
		Auditor Comments	Measurements made	Requirement	Verification Method	Compliance Finding
17.1	The approval holder notified the Department of any non-compliance with the conditions of approval.	None	Examined the exceedance reports provided to the Department.	The approval holder notified the Department of any non-compliance with the conditions of the approval.	Examined the identified non-compliances with the conditions of approval and determined the date they were reported to the Department.	COMPLIANT
17.2	The approval holder notified the Department within two (2) business days of becoming aware of the non-compliance.	None	Determined that all exceedances reported to the Department were within the two business requirement as specified by the EPBC approval.	The Department was notified within two business days of the approval holder becoming aware of the non-compliance.	reported to the Department. Determined that the date the	COMPLIANT
EPBC	Approval Condition 18	implementation of any	management documents as specified in	the conditions during the previous	ng compliance with each of the conditions of this calendar year. Documentary evidence of the date the Department at the same time as the compliance	of publication of the
		Auditor Comments	Measurements made	Requirement	Verification Method	Compliance Finding
18.1	Before 31 March each year, the approval holder must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management documents specified in the conditions during the previous calendar year.	The Department requested further information for 2017 ACR. The ACR was re-submitted to the Department in July 2017.	2016 ACR - Viewed email to the Department with attached ACR on 22 March 2016; 2017 ACR - Viewed letter to the Department with attached ACR on 30 March 2017.	The approval holder has published a report addressing their compliance with the conditions of approval by 31 March each year.	Examine Departmental records to determine if the approval holder submitted Annual Compliance Reports (ACR) by 31 March each year. The annual compliance reports submitted address compliance with the conditions of approval.	COMPLIANT



The approval holder provided No	one	• Examined email with attached ACR and	The approval holder provided to the	Examined the ACR to determine the date that the approval	COMPLIANT
documentary evidence providing		cover letter with ACR to determine the date	Department documentary evidence of	holder submitted the report. Examine the Annual	
proof of the date of publication		that the approval holder submitted the	the date of publication of the annual	Compliance Report to determine if any non-compliance	
and non-compliance with any of		reports to the Department;	report. The report also outlines any	with any of the conditions was outlined.	
the conditions of this approval had		Examined both ACR's to determine if the	non-compliance with any of the		
been provided to the Department					
at the same time as the					
compliance report is published.					
	The approval holder provided documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval had been provided to the Department at the same time as the compliance report is published.	proof of the date of publication and non-compliance with any of the conditions of this approval had been provided to the Department at the same time as the	documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval had been provided to the Department at the same time as the cover letter with ACR to determine the date that the approval holder submitted the reports to the Department; • Examined both ACR's to determine if the approval holder noted any non-compliances with the conditions of the EPBC approval.	documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval had been provided to the Department at the same time as the cover letter with ACR to determine the date that the approval holder submitted the reports to the Department; • Examined both ACR's to determine if the approval holder noted any non-compliances with the conditions of the EPBC approval.	documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval had been provided to the Department at the same time as the conditions of the date of publication and non-compliance with any of the conditions of the same time as the cover letter with ACR to determine the date that the approval holder submitted the report. Examine the Annual that the approval holder submitted the report. Examine the date of publication of the annual that the approval holder submitted the report. The report also outlines any non-compliance with any of the approval holder noted any non-compliance with any of the conditions.



Audit Criteria and Methodology Springvale Coal Mine Extension Project, New South Wales (EPBC 2013/6881) Client: Springvale Coal Pty Ltd

Date: 25 October 2017
Audit criteria prepared by: Nicholas Scholar

EPBC /	Approval Condition 11	To minimise impacts on listed threatened species and communities, the approval holder must not clear more than 13 hectares of habitat for threatened species within the project area:					
		Requirement (DEE)	Springvale Comment	Provided Documents			
11.1	The approval holder must not clear more than 13 hectares of habitat for threatened species.	Determine if the approval holder cleared only up to the maximum specified hectares of habitat for threatened species.	clearing/disturbance work relevant to this condition. These projects are:	Booster Station 1 ◆ Ecological Due Diligence BoosterStation 012017.pdf			
11.2	The approval holder has only cleared habitat for threatened species within the specified project area.	Determine if the approval holder cleared only up to the maximum hectares of threatened species habitat within the specified project area.	Extraction Plan – Subsidence Monitoring Program). Booster Station 1 (refer Ecological Due Diligence BoosterStation 012017.pdf) As seen in Figure 1 of the Booster Station Ecological Due Diligence Report – Booster Station 1 underwent three re-designs to ensure the footprint did not impact on or disturb threatened species (Caesia parviflora var. minor). 0.19hectares of native vegetation was removed for the project, however no threatened species were removed. Identified threatened species were demarcated so as to prevent any disturbance to them. Infill of Subsidence Lines within Newnes Plateau Shrub Swamps A requirement of the LW420-422 Extraction Plan (Subsidence Monitoring Program) was to infill subsidence lines BB, GGE, GGSW and GG (Note: GG-Sup was identified as a potential new line to be installed – however was not required). Following an Ecological Due Diligence, a s91 Application was submitted to OEH for approval to infill the subsidence. 0.0404 hectares of Newnes Plateau Shrub Swamp Endangered Ecological Community (NPSS EEC) was estimated to be potentially impacted (refer Section 7 of s91 Application).	s91_application_Infill of Sub Lines_June 2017.pdf RPS March 2017 Springvale Subsidence Lines Extension Due Diligence.pdf			
EPBC /	Approval Condition 12	This condition only applies to all longwalls except LW 418.					
		To minimise impacts on listed threatened species and communities, In addition to Condition 18 (Schedule 4) on the New South Wales development consent, the biodiversity management plan must:					
		a. include measures to avoid and/or mitigate impacts on listed threatened species and communities that occupy landform habitats including cliffs, minor cliffs, pagodas and gorges - these measures must include pre-mining surveys and translocation and/or cease work protocols if any sites with potential as nursery caves for Large eared Pied Bats;					
		b. include measures to control the spread of pathogens including chytrid fungus and Phytophtora cinnamomi;					
		c. explain how the mitigat	ion and management measures described will protect specific listed thre	eatened species and communities; and			
		d. specify clear timeframe	es for all management and mitigation measures described.				
		The approval holder must must be implemented.	t not commence the action before the biodiversity management plan ha	as been approved in writing by the Minister. The approved biodiversity management plan			
		Requirement (DEE)	Springvale Comment	Provided Documents			

12.1	The approval holder has developed a biodiversity management plan that includes:	The approval holder developed a biodiversity management plan for all areas of the Springvale Coal Mine Extension Project except LW 418.	During 2016, Springvale prepared the LW419 Biodiversity Management Plan addressing the requirements of Condition 12. The LW 419 Biodiversity Management Plan was approved in July 2016 and includes an Appendix that specifically addresses the points of Condition 12 (a) to (d) of the EPBC Approval EPBC 2013/6881.	
12.1.1	Measures to avoid and/or mitigate impacts on listed threatened species and communities that occupy landform habitats including cliffs, minor cliffs, pagodas and gorges - these measures must include pre-mining surveys and translocation and/or cease work protocols if any sites with potential as nursery caves for Large eared Pied Bats.	The biodiversity management plan included these attributes.		
12.1.2	Measures to control the spread of pathogens including chytrid fungus and Phytophtora cinnamomi.	The biodiversity management plan included these attributes.		
12.1.3	Explain how the mitigation and management measures described will protect specific listed threatened species and communities.	The biodiversity management plan included these attributes.		
12.1.4	Specify clear timeframes for all management and mitigation measures described.	The biodiversity management plan included these attributes.		
12.2	The approval holder did not commence the action prior to the biodiversity management plan being approved in writing by the Minister.	not commence the action until the biodiversity	Extraction of LW419 commenced on the 2 nd of August 2016, following the approval of the LW419 Extraction Plan (including Swamp Monitoring Program and TARP) on the 11 th of July 2016. Longwall mining did therefore not commenced until the TARP was approved in writing by the Minister.	
12.3	The approval holder implemented all aspects of the approved biodiversity management plan. The biodiversity management plan has been applied to all areas except LW 418.	The approval holder has implemented all aspects of the biodiversity management plan to all areas of the Springvale Coal Mine Extension Project except LW 418.		
EPBC /	Approval Condition 13	monitoring that populat	ion and response measures to be implemented if a decline is dete	Mountains Water Skink at Carne West Swamp, including specific measures for cted. management and research program has been approved in writing by the Minister.
		Requirement (DEE)	Springvale Comment	Provided Documents
13.1	The approval holder must prepare a management and research program for the Blue Mountains Water Skink at Carne West Swamp.	The approval developed a management and research program for the Blue Mountains Water Skink at Carne West Swamp.	The Blue Mountains Water Skink Research and Management Program was submitted on the 30 th October 2015 and was approved on the 27 th of November 2015. A status report detailing the results of two separate surveys and analysis was prepared by RPS and supplied in January 2017. Recommendations for ongoing research and monitoring were made and have been acted on with further sampling completed in February 2017 and planned for November 2017.	Folder titled Condition 13 contains: Blue Mountains Water Skink Research and Management Program and Departmental Approval 2017 Blue Mountains Water Skink Report

The approval holder must The approval holder provide the Department with notifies the Department

details of each offset area secured within twenty (20) days days of securing each

offset property.

secured within twenty (20) days of securing each offset.

13.1.1	The management and research program must include: - Specific measures for monitoring that population;	The management and research program must include these attributes.	Monitoring methods are discussed in Section 1.5 – 1.7 of the 2015 Research and Management Program, and Sections 1.3.2 and 10 of the 2017 report. Consideration for the enhancement of these methods are currently being evaluated as part of the monitoring program.			
13.1.2	The management and research program must include: - Response measures to be implemented if a decline is detected.		Trigger levels are discussed in Section 2.5 of the 2015 Research and Management Program, and Section 4.6 of the 2017 report. Research and monitoring is currently focused on the development of a baseline dataset suitable for determining the incidence of a trigger event. Triggers are being revised with the receipt of additional monitoring data.			
13.2	The approval holder did not commence undermining of Carne West Swamp prior to the management and research program being approved in writing by the Minister.	not commence undermining of the Carne	The Blue Mountains Water Skink Research and Management Program was submitted on the 30 th October 2015 and was approved on the 27 th of November 2015. This was prior to the commencement of undermining Carne West Swamp under EPBC 2013/6881.			
13.3	implemented all aspects of the approved management and research program.	the management and research program to all areas of the Springvale Coal Mine Extension Project	Research conducted in the first sampling period (i.e. 2015-2016) focused on the evaluation of the following: • Efficacy of different trapping methods; and • Population size estimates. Baseline data suitable for the performing of a multi year monitoring program was initiated in 2016 and is being implemented at Carne West, other swmaps identified within the area of investigation and reference swamps where no mining imapets are expected. Research efforts are now focused on improving the accuracy of population size estimates for the purpsoes of population viability modelling; as initial estimates generated from the 2015-2016 dataset were unrefined. These estimates are continegent on performing adequate capture/mark/ recapture programs with sufficent spatial scale to accurately estimate swamp scale population sizes. In this respect, there has been an increased focus on evaluating within swamp habitat values (i.e. identification of high value or refugia habitat) and this information will greatly enhance the accuracy of swamp scale population estimates.			
STAND	ARD ADMINISTRATIVE CONDITIO	NS				
EPBC Approval Condition 14		The approval holder must provide the Department with details of each offset area secured in accordance with the conditions 3 to 5 (Schedule 3) or Conditions 15 and 16 (Schedule 4), on the New South wales development consent, within twenty (20) business days of securing each offset. Details to be provided must include but are not necessarily limited to:				
		- textual descriptions and	maps to clearly define the location and boundaries of the offset areas;			
		- Written evidence of lega	I protection;			
		- management plans;				
		- offset attributes and sha	pefiles.			
		Requirement (DEE)	Springvale Comment	Provided Documents		

Offset areas have not been secured and therefore the requirement has not

Arrangements proposed for the long term security of offsets is detailed

been triggered.

Folder titled 'Condition 14' contains:

LW419 Swamp Offset Bond.pdf

LW420 Springvale Swamp Offset Bond.pdf

14.2	Details to be provided to the Department must include, but are not necessarily limited to: Textual descriptions and maps to clearly define the location and boundaries of the offset areas Written evidence of legal protection; Management Plans; Offset attributes and shapefiles.	provided to the Department include these attributes:	within the Western Region Biodiversity Offset Package (submitted to DPE on the 23rd of December 2016). Due to additional information requested by the NSW Office of Environment and Heritage, the NSW Department of Planning have not approved the Western Region Biodiversity Offset Package to-date. As such, the proposed arrangements to provide long term security have not been implemented to date. Centennial Coal has entered into a Voluntary Undertaking with the NSW Department of Planning and Environment to submit the registration applications to on title by 31 January 2018 and commence implementation of the land management actions by 1 April 2018. In accordance with SSD_5594 a \$2,000,000 Swamp Offset bond was lodged with the Department of Planning and Environment during 2016 and 2017 for LW419 and LW420 respectively. r the commencement of the action, the approval holder must advis	so the Department in writing of the actual date of commencement
		Requirement (DEE)	Springvale Comment	Provided Documents
15.1	The approval holder advised the Department within ten (10) days of the commencement of the action	The Department was advised within 10 days of the commencement of the action.	The Department was notified on the 16th of October 2015 that the action had commenced. This was within 10 days of commencing the action (10th of October 2015).	Folder titled 'Condition 15' contains:
EPBC Approval Condition 16		implement any manager Department or an indep	ment documents required by this approval, and make them avails	ated with or relevant to the conditions of approval, including measures taken to able on request to the Department. Such records may be subject to audit by the or used to verify compliance with the conditions of approval. Summaries of audits brough the general media. Provided Documents
16.1	taken to implement management	maintained accurate records substantiating all activities associated with or relevant to the	Springvale has continued to maintain accurate records substantiating compliance with Condition 16. In addition to internal data records maintained by Springvale, compliance with this condition is demonstrated through routine compliance reporting published to the Springvale website, including Subsidence Management Status Reports (reporting required of the LW411-418 SMP), Annual Reviews (requirement of SSD_5594) and trigger notifications submitted.	 Folder labelled 'Condition 16'. Contains example water quality/flow, flora, fauna and subsidence records from September 2015 onwards. Contains report completed during audit period (including Annual Reviews, Subsidence Management Status Reports, End of Panel Reports).
16.2	Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website.	subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance		
EPBC A	Approval Condition 17	The approval holder mu the non-compliance.	st report potential non-compliance with any of the conditions of the	nis approval to the Department within two (2) business days of becoming aware of
		Requirement (DEE)	Springvale Comment	Provided Documents
17.1	The approval holder notified the Department of any non-compliance with the conditions of approval.	notified the Department of	Following from the 2016 Compliance Report, the following trigger notifications were submitted to DoE under this condition. These provided notification of potential non-compliances (through triggers identified through the LW419 Swamp Monitoring Program and LW418 THPSSMMP TARPs). These notifications were submitted within two business days as	Folder titled 'Condition 17' contains all Site Notifications (consultant to Springvale) and Department Notification (Springvale to Department of Environment).

17.2	The approval holder notified the Department within two (2) business days of becoming aware of the non-compliance.	notified with two (2)	 GW1 (groundwater trigger) – Springvale notified on 02/11/2016, notification provided to DoE on 03/11/2016. SSE1, WC01, WC03, WC04 (flora triggers) – Springvale notified on 08/11/2016, notification provided to DoE on 10/11/2016. SPR1104 & SPR 1107 (groundwater trigger) - Springvale notified on 22/12/2016, notification provided to DoE on 22/12/2016. WC02 and CW04 (flora triggers) – Springvale notified on 08/03/2017, notification provided to DoE on 09/03/2016. GW2 (groundwater trigger) – Springvale notified on 19/05/2017, notification provided to DoE on 22/05/2017. SPR1111 and GG2 (groundwater triggers) – Springvale notified on 16/06/2017, notification provided to DoE on 16/06/2017. WC01, WC02 and LGG01 (flora triggers) – Springvale notified on 03/06/2017, notification provided to DoE on 05/06/2017. GG2 (groundwater triggers) – Springvale notified on 11/09/2017, notification provided to DoE on 13/09/2017. GG1 (groundwater triggers) – Springvale notified on 11/09/2017, notification provided to DoE on 13/09/2017. GG1 (groundwater triggers) – Springvale notified on 13/10/2017, notification provided to DoE on 16/10/2017. All trigger investigative reports were also submitted within the relevant TARP timeframes (8 weeks). 	
EPBC	Approval Condition 18	implementation of any	management documents as specified in the conditions during the	addressing compliance with each of the conditions of this approval, including previous calendar year. Documentary evidence of the date of publication of the ovided to the Department at the same time as the compliance report is published.
		Requirement (DEE)	Springvale Comment	Provided Documents
18.1	Before 31 March each year, the approval holder must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management documents specified in the conditions during the previous calendar year.	published a report addressing their compliance with the conditions of approval by 31 March each year.	The 2015 Annual Compliance Report was submitted to the Department and published on the Centennial Springvale website (uploaded 23 rd of March 2016). The 2016 Annual Compliance Report was submitted to the Department and uploaded on the Centennial Website on the 30 th of March 2017. Following correspondence received from the Department on the 5 th of July 2017 requesting further information be included in the Compliance Report, a second, updated report was submitted was published on the 19 th of July	 Folder titled 'Condition 18' contains: 2015 and 2016 Annual Compliance Reports (including amended 2016 Report following a request for further information from DoE). PNG capture of Reports on the Centennial Springvale website – with associated published dates.
18.2	The approval holder provided documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is	provided to the Department documentary evidence of the date of publication of the annual report. The report also	2017.	