EMM
creating opportunities

Ravensworth Coal Complex

Independent Environmental Audit 2024

Prepared for Ravensworth Operations

October 2024

Ravensworth Coal Complex

Independent Environmental Audit 2024

Ravensworth Operations

E240084 RP1

October 2024

Version	Date	Prepared by	Reviewed by	Comments
1	29 July 2024	Samantha Hayes	James Wearne	Draft for client review
2	5 August 2024	Samantha Hayes	James Wearne	Final for submission
3	1 October 2024	Samantha Hayes	James Wearne	Updated to address DPHI comments

Approved by

James Wearne
Associate Consultant
1 October 2024

Level 3 175 Scott Street
Newcastle NSW 2300
ABN: 28 141 736 558

This report has been prepared in accordance with the brief provided by Ravensworth Operations and, in its preparation, EMM has relied upon the information collected at the times and under the conditions specified in this report. All findings, conclusions or recommendations contained in this report are based on those aforementioned circumstances. The contents of this report are private and confidential. This report is only for Ravensworth Operations's use in accordance with its agreement with EMM and is not to be relied on by or made available to any other party without EMM's prior written consent. Except as permitted by the Copyright Act 1968 (Cth) and only to the extent incapable of exclusion, any other use (including use or reproduction of this report for resale or other commercial purposes) is prohibited without EMM's prior written consent. Except where expressly agreed to by EMM in writing, and to the extent permitted by law, EMM will have no liability (and assumes no duty of care) to any person in relation to this document, other than to Ravensworth Operations (and subject to the terms of EMM's agreement with Ravensworth Operations).

© EMM Consulting Pty Ltd, Ground Floor Suite 01, 20 Chandos Street, St Leonards NSW 2065. 2024.
ABN: 28 141 736 558

TABLE OF CONTENTS

1 Introduction 1

1.1 Background 1

1.2 Audit scope 5

1.3 Audit objectives 6

1.4 Audit period 6

1.5 Audit team 7

2 Audit methodology 8

2.1 Selection and endorsement of audit team 8

2.2 Audit scope development 8

2.3 Compliance evaluation 8

2.4 Site interviews 9

2.5 Site inspection 9

2.6 Consultation 10

2.7 Compliance status descriptors 10

3 Audit findings 11

3.1 Approval and document list 11

3.2 Compliance performance 12

3.3 Summary of agency notices, orders, penalty notices or prosecutions 14

3.4 Non-compliances 14

3.5 Previous audit recommendations 24

3.6 Environmental management plans and strategies 27

3.7 Environmental performance 27

3.8 Consultation outcomes 31

3.9 Complaints 36

3.10 Incidents 36

3.11 Actual verses predicted environmental impacts 36

3.12 Site inspection observation 37

3.13 Improvement opportunities 39

3.14 Key strengths 41

4 Recommendations 42

5 Conclusion 43

Appendices

Appendix A	Independent audit table	A.1
Appendix B	Planning secretary audit team agreement	B.1
Appendix C	Consultation	C.1
Appendix D	Independent audit declaration form	D.1
Appendix E	Opening and closing meeting attendees	E.1
Appendix F	Site inspection photographs	F.1

Tables

Table 1.1	Modifications to PA 09_0176	1
Table 1.2	Modifications to DA 104/96	1
Table 1.3	Audit conditions	5
Table 1.4	IEA team	7
Table 2.1	Site interviews summary	9
Table 2.2	Compliance status descriptors	10
Table 3.1	Audited documents	11
Table 3.2	Compliance performance overview	12
Table 3.3	Compliance with audited documents	13
Table 3.4	Non-compliance summary	15
Table 3.5	Previous audit recommendations	25
Table 3.6	Comparison of GHG baseline emissions and actual emissions	28
Table 3.7	Water usage	30
Table 3.8	Consultation summary	33
Table 3.9	Summary of complaints	36
Table 3.10	Incidents	36
Table 4.1	Summary of recommendations	42
Table D.1	Independent Audit Report Declaration Form – James Wearne (lead auditor)	D.1
Table D.2	Independent Audit Report Declaration Form – Paul Freeman (assistant auditor)	D.2
Table D.3	Independent Audit Report Declaration Form – Samantha Hayes (assistant auditor)	D.3
Table D.4	Independent Audit Report Declaration Form – Jesse Tribby (noise, blast and vibration technical expert)	D.4
Table D.5	Independent Audit Report Declaration Form – Francine Manansala (air quality and greenhouse gas emissions technical expert)	D.5
Table D.6	Independent Audit Report Declaration Form – Clayton Richards (rehabilitation specialist)	D.6
Table E.1	Opening and closing meeting attendees	E.1

Figures

Figure 1.1	Regional context	3
Figure 1.2	Site layout	4
Figure 3.1	Overall compliance performance	13

Photographs

Photograph F.1	Active mining area	F.1
Photograph F.2	Active mining area	F.1
Photograph F.3	Active mining area	F.1
Photograph F.4	Active mining area	F.1
Photograph F.5	Active mining area	F.2
Photograph F.6	Active mining area	F.2
Photograph F.7	Active mining area	F.2
Photograph F.8	Frog wash area	F.3
Photograph F.9	Frog wash area	F.3
Photograph F.10	Ravensworth North Offset Area	F.3
Photograph F.11	Ravensworth North Offset Area	F.4
Photograph F.12	Aboriginal heritage site	F.4
Photograph F.13	Aboriginal heritage site	F.4
Photograph F.14	Surveylance camera	F.5
Photograph F.15	Weeds	F.5
Photograph F.16	Rehabilitation	F.5
Photograph F.17	Air quality monitoring station	F.5
Photograph F.18	Air quality monitoring station	F.6
Photograph F.19	Green and Golden Bellfrog pond	F.6
Photograph F.20	Green and Golden Bellfrog pond	F.6
Photograph F.21	Feral animal trap	F.6
Photograph F.22	Rehabilitation	F.7
Photograph F.23	Nest box	F.7
Photograph F.24	Nest box	F.7
Photograph F.25	Demolition area at RUM	F.8
Photograph F.26	Replacing transfer shute cladding	F.8
Photograph F.27	Replacing transfer chute cladding	F.8
Photograph F.28	CHPP dam	F.9
Photograph F.29	Hydrocarbon storage	F.9
Photograph F.30	CHPP	F.10
Photograph F.31	Spill kit	F.10
Photograph F.32	Cardboard recycling	F.10

Photograph F.33	Hydrocarbon storage	F.11
Photograph F.34	Hydrocarbon storage	F.11
Photograph F.35	Waste bins	F.11
Photograph F.36	Storage container	F.12
Photograph F.37	Hydrocarbon storage	F.12
Photograph F.38	Hydrocarbon storage	F.12
Photograph F.39	Hydrocarbon storage	F.12
Photograph F.40	Storage shed	F.13
Photograph F.41	Storage shed	F.13
Photograph F.42	Hydrocarbon storage	F.13
Photograph F.43	Coal storage bins	F.13
Photograph F.44	CHPP water runoff	F.14
Photograph F.45	CHPP water runoff	F.14
Photograph F.46	CHPP water runoff	F.14
Photograph F.47	Emergency shower and eye wash	F.14
Photograph F.48	Enclosed conveyor	F.15
Photograph F.49	Metal storage	F.15
Photograph F.50	Diesel storage	F.16
Photograph F.51	Diesel storage and pump	F.16
Photograph F.52	Emergency shower and eye wash	F.17
Photograph F.53	RUM shaft closure and rehabilitation	F.17
Photograph F.54	Highway Dam	F.17
Photograph F.55	Meteorological station	F.18
Photograph F.56	CHPP and conveyors	F.18
Photograph F.57	Sewage treatment system	F.18
Photograph F.58	Mine infrastruacture area (MIA)	F.19
Photograph F.59	Emergency shower and eye wash in MIA	F.19
Photograph F.60	Fire extinguisher	F.19
Photograph F.61	MIA	F.19
Photograph F.62	MIA	F.20
Photograph F.63	MIA	F.20
Photograph F.64	MIA	F.20
Photograph F.65	MIA	F.20
Photograph F.66	MIA	F.21
Photograph F.67	MIA	F.21
Photograph F.68	MIA	F.21
Photograph F.69	MIA	F.21

Photograph F.70 Segregated waste storage F.22
Photograph F.71 Segregated waste storage F.22
Photograph F.72 Segregated waste storage F.22
Photograph F.73 Hydrocarbon storage F.23
Photograph F.74 Diesel storage F.23
Photograph F.75 Oil storage F.23
Photograph F.76 Tyre storage F.24
Photograph F.77 Oil storage F.24
Photograph F.78 Recycling F.25
Photograph F.79 Diesel storage F.25
Photograph F.80 Gas storage F.26
Photograph F.81 MIA F.26
Photograph F.82 Hydrocarbon storage F.27
Photograph F.83 Diesel storage F.27
Photograph F.84 Surface water management F.27
Photograph F.85 Fire hose F.27
Photograph F.86 Public notification via newspaper F.28
Photograph F.87 Groundwater monitoring location F.28
Photograph F.88 Western Emplacement Area (WEA) 40ha re-work area of rehabilitation F.28
Photograph F.89 WEA rehabilitation progress F.29
Photograph F.90 WEA rehabilitation progress F.29
Photograph F.91 WEA rehabilitation progress F.30
Photograph F.92 Well maintained tracks throughout rehabilitation areas F.30
Photograph F.93 WEA rehabilitation (foreground) and Cumnock Rehabilitation (background) F.31
Photograph F.94 Newly seeded area on the WEA (note mulch and deep ripping) F.31
Photograph F.95 Active mining areas and different stages of rehabilitation on the Eastern Emplacement Area (EEA) (note rock lined geomorphic drainage lines) F.32
Photograph F.96 Active mining areas plus grassland/woodland on the EEA (background) F.32
Photograph F.97 Active topsoil stockpile on the EEA being used to spread over prepped landform F.33
Photograph F.98 Rock RipRap being saved for use in geomorphic drainage lines F.33
Photograph F.99 Newly prepared rehabilitation area with mulch and gypsum applied F.34
Photograph F.100 Area of *Acacia Saligna* targeted for control and management F.34
Photograph F.101 Recent re-worked area of rehabilitation on the EEA F.35
Photograph F.102 Established rehabilitation on the EEA F.35
Photograph F.103 Herbicide treatment underway on the rehabilitated pasture area F.36
Photograph F.104 Topsoil stockpile sown with final rehab species to create seedbank in topsoil over long term F.36

Photograph F.105 Recent rehabilitation with geomorphic landform and drainage, note some rill erosion to be addressed in maintenance program F.37

Photograph F.106 Temporary ESC measures adjacent access road to minimise sediment laden water flowing to sedimentation pond F.37

Photograph F.107 Topsoil being placed on final shaped landform with varying stages of rehabilitation adjacent F.38

1 Introduction

1.1 Background

The Ravensworth Operations is located in the Upper Hunter Valley of New South Wales (NSW), approximately 15 kilometres (km) north-west of Singleton and approximately 17 km south-east of Muswellbrook (Figure 1.1).

Ravensworth Operations is comprised of the Ravensworth Open Cut (ROC), the Ravensworth Underground Mine (RUM) and the Ravensworth Coal Handling Preparation Plant (RCHPP) (Figure 1.2). Production began at Ravensworth Operations in the 1970s. Ravensworth Operations supplies coal to domestic and export markets.

1.1.1 Ravensworth Open Cut

ROC is owned and operated by Ravensworth Operations Pty Limited, which is managed by Glencore. An Environmental Assessment (EA) was originally submitted for the Ravensworth Operations Project in February 2010. The ROC project was approved by the then Minister for Planning and Infrastructure (now Department of Planning, Housing and Infrastructure (DPHI)) on 11 February 2011 as Project Approval (PA) 09_0176.

The project approval has been modified on four occasions as summarised in Table 1.1.

Table 1.1 Modifications to PA 09_0176

Modification number	Date approved	Aspect
Modification 1	16 August 2013	Developing the Narama West mining area
Modification 2	19 December 2014	Increase in the maximum height of the eastern and western emplacement areas by 30 metres (m)
Modification 3	16 February 2016	Construction and operation of a tailings pipeline
Modification 4	15 May 2023	Greater Ravensworth Area Water and Tailings Sharing System (GRAWTS) - Stage 2

1.1.2 Ravensworth Underground Mine

RUM is owned by Resource Pacific Pty Limited and Glencore Coal Assets Australia (GCAA) oversees the management of the mine. The area of land within the approved RUM development consent boundaries is owned by RUM, AGL Macquarie, Daracon, Ravensworth Operations Pty Limited, Glendell, and Bowman Pty Ltd.

RUM operates under Development Consent DA 104/96 granted on 20 November 1996 by then then Minister for Urban Affairs and Planning. The Development Consent has since been modified ten times as summarised in Table 1.2. RUM was placed in care and maintenance in October 2014 with the RUM Closure Project commencing in 2022.

Table 1.2 Modifications to DA 104/96

Modification number	Date approved	Aspect
Modification 1	6 January 1998	Modification to road haulage conditions.
Modification 2	5 March 2001	Reject emplacement and water management system changes.
Modification 3	11 February 2007	Installation of substation.
Modification 4	11 February 2007	Solcenic borehole and storage tanks.
Modification 5	4 July 2007	Ventilation Shaft, electricity supply and underground workings.

Modification number	Date approved	Aspect
Modification 6	21 May 2008	Tailings water recovery dam.
Modification 7	3 July 2009	Mining method, water and waste management.
Modification 8	5 January 2011	Extension to LWs 6 to 10 and additional gas management infrastructure.
Modification 9	20 June 2013	Liddell Seam Project.
Modification 10	6 July 2022	Integration of RUM with Ashton Coal Project.

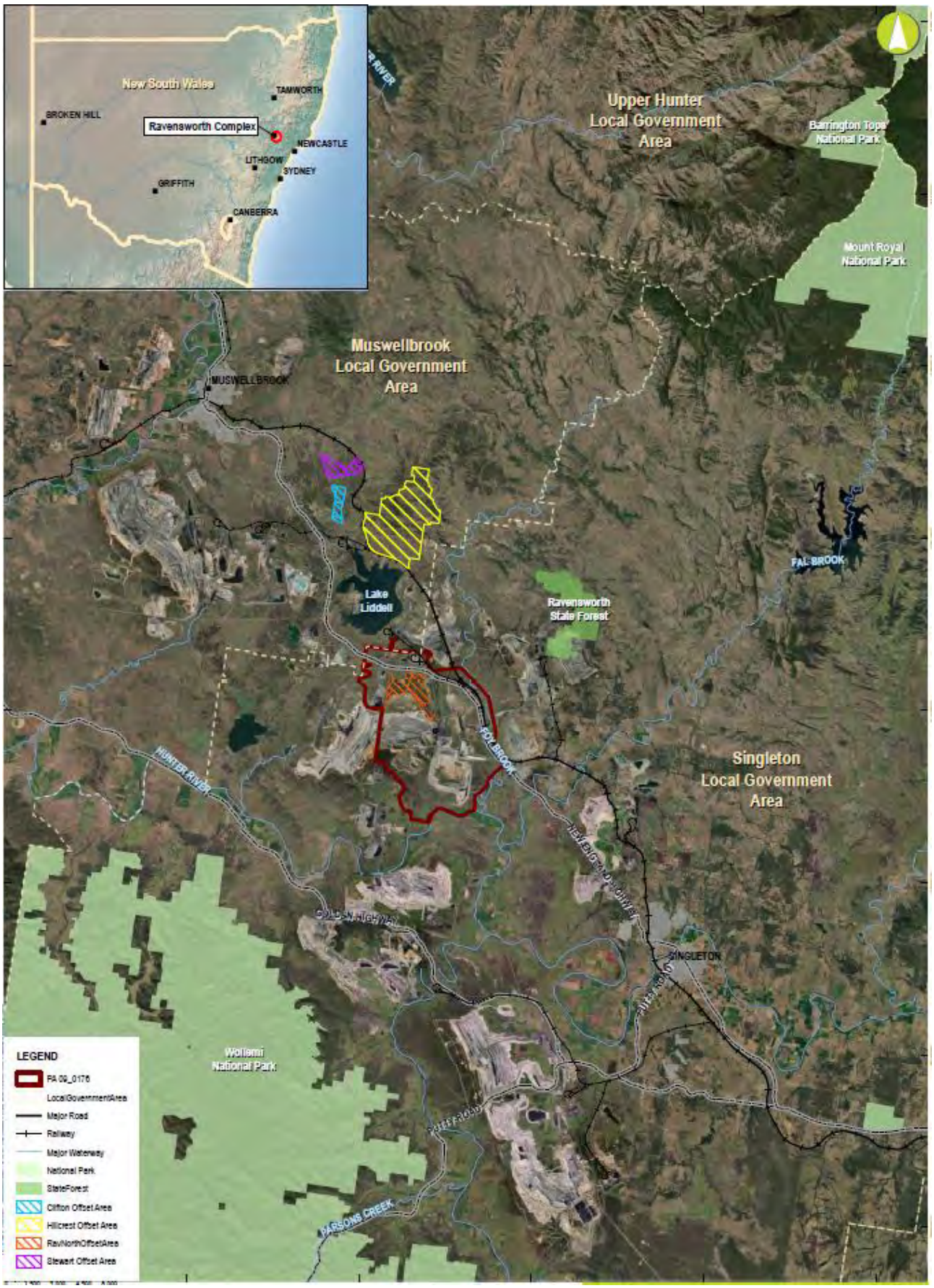


Figure 1.1 Regional context

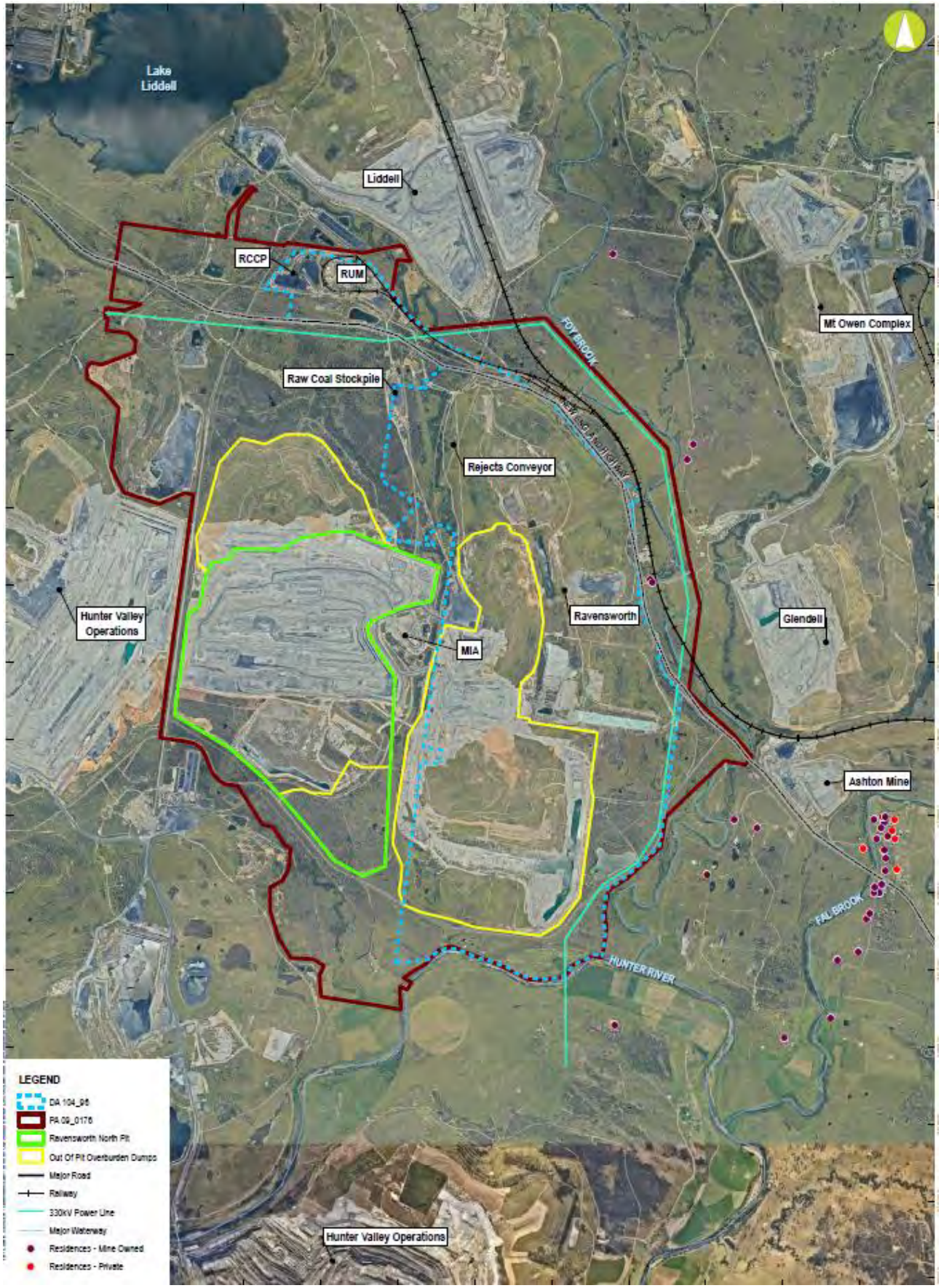


Figure 1.2 Site layout

1.2 Audit scope

This Independent Environmental Audit (IEA) report has been prepared by EMM Consulting Pty Ltd (EMM) in accordance with the requirements of:

- Schedule 5, Condition 8 of PA 09_0176
- Schedule 4, Condition 7 of DA 104/96.

The relevant Development Consent and Project Approval conditions relating to the IEA are reproduced in Table 1.3.

The IEA has also been undertaken in accordance with Section 3.3. of *Independent Audit – Post Approval Requirements* (DPE 2020).

Table 1.3 Audit conditions

Approval	Conditions
PA 09_0176 Schedule 5, Condition 8	By the end of June 2012, and every 3 years thereafter, unless the Planning Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must: a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Planning Secretary b) include consultation with the relevant agencies c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals) d) review the adequacy of any approved strategies, plans or programs required under these approvals; and, if appropriate e) recommend measures or actions to improve the environmental performance of the project, and/or any strategy, plan or program required under these approvals. *Notes:* • *This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Planning Secretary.* • *The audits should be coordinated with similar auditing requirements for the RUM.*
PA 09_0176 Schedule 5, Condition 9	Within 6 weeks of the completion of this audit, or as otherwise agreed by the Planning Secretary, the Applicant must submit a copy of the audit report to the Planning Secretary, together with its response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The Applicant must implement these recommendations.

Approval	Conditions
DA 104/96 Schedule 4, Condition 7	By the end of June 2015, and every 3 years thereafter, unless the Planning Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must: a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Planning Secretary b) include consultation with the relevant agencies c) assess the environmental performance of the development and assess whether it is complying with the requirements in this consent and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals) d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and, if appropriate e) recommend measures or actions to improve the environmental performance of the development, and/or any strategy, plan or program required under these approvals. *Notes:* • *This audit team must be led by a suitably qualified auditor and include experts in subsidence and any other field specified by the Planning Secretary.* • *The audits should be coordinated with similar auditing requirements for the Ravensworth Operations Project.*
DA 104/96 Schedule 4, Condition 8	Within 6 weeks of the completion of this audit, or as otherwise agreed by the Planning Secretary, the Applicant must submit a copy of the audit report to the Planning Secretary, together with its response to any recommendations contained in the audit report.

1.3 Audit objectives

The objective of the IEA is to determine the operational compliance of Ravensworth Operations against the applicable regulatory approvals (refer to Section 3.1). The IEA findings are detailed in Chapter 3.

1.4 Audit period

The audit period for this IEA covers the period between 18 June 2021 – 26 June 2024. This represents the day after the 2021 IEA site inspection was completed, through to the final day of the 2024 IEA site inspection.

1.5 Audit team

The IEA team is detailed in Table 1.4.

Table 1.4 IEA team

Name	Role	Company	Qualifications	Experience
James Wearne	Lead auditor	EMM	BEnvSc, DipBus (Quality Auditing), DipLedMgnt, DipMgnt, DipBus	Associate Consultant 18 years' experience
Samantha Hayes	Assistant auditor	EMM	BDevStu (Environmental Sustainability), MEnvMgnt	Senior Consultant 9 years' experience
Paul Freeman	Assistant auditor	EMM	MUrbRegPlan, Registered Planner, REAP	Associate Director 23 years' experience
Jesse Tribby	Noise, blast and vibration technical expert	EMM	BSc (Cum Laude, Interdisciplinary Studies, Music and Acoustical Engineering)	Associate Consultant 13 years' experience
Francine Manansala	Air quality and greenhouse gas emissions technical expert	EMM	BArts (Resource and Environmental Management), CASANZ Certified Air Quality Professional	Associate Consultant 15 years' experience
Clayton Richards	Rehabilitation specialist	Minesoils Pty Ltd	BNatRes (Hons), Certified Professional Soil Scientist (CPSS)	Principal consultant 25 years' experience

2 Audit methodology

2.1 Selection and endorsement of audit team

Correspondence dated 12 January 2024 was submitted to DPHI seeking advice on any technical experts required to be involved in the IEA in accordance with the requirements of the Development Consent and Project Approval conditions.

On 17 January 2024, DPHI responded (see Appendix C.1) stating that the Planning Secretary requires the audit team include experts in the following fields:

- air quality
- noise
- rehabilitation – including subsidence management, landform establishment and revegetation.

On 11 March 2024, endorsement of the proposed IEA team was sought from DPHI. Correspondence from DPHI dated 15 March 2024 provided endorsement of the IEA team.

A revised audit team was subsequently sought for endorsement on 20 June 2024. Endorsement of the changes to the IEA team was received from DPHI on 20 June 2024. The endorsed audit team members are summarised in Table 1.4.

A copy of the Planning Secretary's audit team endorsement is attached as Appendix B.

2.2 Audit scope development

The IEA scope was developed in accordance with the DPE's (May 2020) *Independent Audit – Post Approval Requirements*.

On 22 May 2024, EMM sought confirmation from DPHI on any specific parties or agencies to be consulted as part of the IEA, or if there were any areas of compliance or environmental management that the DPHI require specific focus on within the scope of the IEA.

DPHI responded on 27 May 2024, with the list of agencies to consult with and aspects to focus on. These are discussed further in Section 2.6.

2.3 Compliance evaluation

Compliance of the operations of Ravensworth Operations were assessed against the approvals and documents listed in Section 3.1.

The process of compliance evaluation involved the following steps:

- review of all approvals applicable to Ravensworth Operations
- development of spreadsheet of all relevant conditions
- site visit including:
  - opening meeting with applicable site personnel and EMM lead and assistant auditors (Appendix E)
  - site inspection (Section 2.5)
  - interviews of relevant site personnel (Section 2.4)

- closing meeting with applicable site personnel and EMM lead and assistant auditors (Appendix E)

- requesting additional information from site, where required
- review of all information provided by site, site photos taken during the site inspection (Appendix F) and any notes taken during the site inspection
- further discussions with site personnel, as required.

2.4 Site interviews

Site interviews were completed by the EMM IEA team on 26 June 2024 to verify compliance with relevant conditions and assess environmental performance. Ravensworth Operations site personnel interviewed as part of the IEA, and key matters discussed, are summarised in Table 2.1.

Additional interviews were conducted by the appointed rehabilitation technical specialist on 3 July 2024.

Table 2.1 Site interviews summary

Name	Position	Interview matters
Klay Marchant	Environment and Community Manager	• General site operations • Dust mitigation measures • Information management and storage
Brittany Morrison	Environment and Community Officer	• Heritage item management • Water management • Real time monitoring
Dylan Evans	Environment and Community Officer	• Biodiversity offset areas • Feral animal management

2.5 Site inspection

A site inspection of Ravensworth Operations was completed on 26 June 2024 by the IEA team members James Wearne, Samantha Hayes and Paul Freeman of EMM (the air quality and noise technical specialist did not undertake a site inspection). The following locations were visited during the site inspection:

- active mining area
- mine infrastructure area (MIA)
- coal handling and preparation plant (CHPP) and associated infrastructure
- biodiversity offset areas
- Aboriginal cultural heritage site
- rehabilitation areas
- emplacement areas
- RUM demolition and closure areas
- water storages – Highway dam and CHPP dam

- meteorological station
- air quality monitors
- sewage treatment system.

A subsequent site visit was undertaken by Clayton Richards (Minesoils) on 3 July 2024 to inspect areas of rehabilitation and undertake a review of rehabilitation success.

2.6 Consultation

DPHI requested consultation be undertaken as part of the IEA with:

- Biodiversity Conservation Division
- Heritage NSW
- Department of Climate Change, Energy, the Environment and Water – Water
- Department of Regional NSW – Mining, Exploration and Geoscience (MEG)
- Department of Regional NSW – Resources Regulator
- Environment Protection Authority (EPA)
- Natural Resources Access Regulator (NRAR)
- Singleton Council (SC)
- Chair of the CCC.

A summary of the consultation undertaken, and outcomes of consultation, is provided in Section 3.8, with evidence of consultation provided as Appendix C.

2.7 Compliance status descriptors

The compliance status of each compliance requirement in the audit table (Appendix A) has been determined using the relevant descriptors in Table 2.2.

Table 2.2 Compliance status descriptors

Status	Description
Compliant	The auditor has collected sufficient verifiable evidence to demonstrate that all elements of the requirement have been complied with within the scope of the audit.
Non-compliant	The auditor has determined that one or more specific elements of the conditions or requirements have not been complied with within the scope of the audit.
Not triggered	A requirement has an activation or timing trigger that has not been met during the temporal scope of the audit being undertaken (may be a retrospective or future requirement), therefore an assessment of compliance is not relevant.

3 Audit findings

3.1 Approval and document list

The approvals and documents audited as part of this IEA are summarised in Table 3.1.

Table 3.1 Audited documents

Document	
Project approvals and development consents	
• PA 09_0167 (including statement of commitments)	• DA 104/96 (including statement of commitments)
Environment Protection Licences (EPLs)	
• EPL 2652	
Mining Leases (MLs), Coal Leases (CLs) and Consolidated Coal Leases (CCLs)	
• ML 1325	• ML 1348
• ML 1349	• ML 1357
• ML 1393	• ML 1398
• ML 1416	• ML 1477
• ML 1484	• ML 1485
• ML 1495	• ML 1502
• ML 1506	• ML 1564
• ML 1576	• ML 1580
• ML 1581	• ML 1591
• ML 1595	• ML 1625
• ML 1667	• ML 1668
• ML 1669	• ML 1683
• ML 1686	• CL 378
• CL 380	• CL 580
• CCL 723	• CCL 739
Water Access Licences (WALs)	
• WAL 9049	• WAL 9050
• WAL 41496	• WAL 41505
• WAL 41554	• WAL 1046
• WAL 1325	• WAL 8964
• WAL 13102	• WAL 41529
• WAL 10771	• WAL 816
• WAL 41507	• WAL 41530

Document	
• WAL 41531	
Annual Reviews	
2021	2022
2023	
Environmental Management Plans and Strategies	
• Environmental Management Strategy	• Aboriginal Cultural Heritage Management Plan
• Air Quality and Greenhouse Gas Management Plan	• Biodiversity Offset Management Plan
• Blast Management Plan	• Heritage Management Plan
• Noise Management Plan	• Rehabilitation Management Plan
• Post Blast Fume Management Plan	• Visual Management Plan
• Waste Management Plan	• Water Management Plan
Other documents	
• Non-compliances of the 2021 IEA	• Agency notices, orders, directions, penalty notices or prosecutions

3.2 Compliance performance

The total number of compliance requirements assessed as part of this IEA, including the total number of compliant, non-compliant and not triggered conditions are summarised in Table 3.2 and illustrated in Figure 3.1. Compliance against specific audited documents is summarised in Table 3.3.

Table 3.2 Compliance performance overview

Aspect	Total
Compliance requirements	1,049
Compliant	536
Non-compliant	12
Not triggered	501

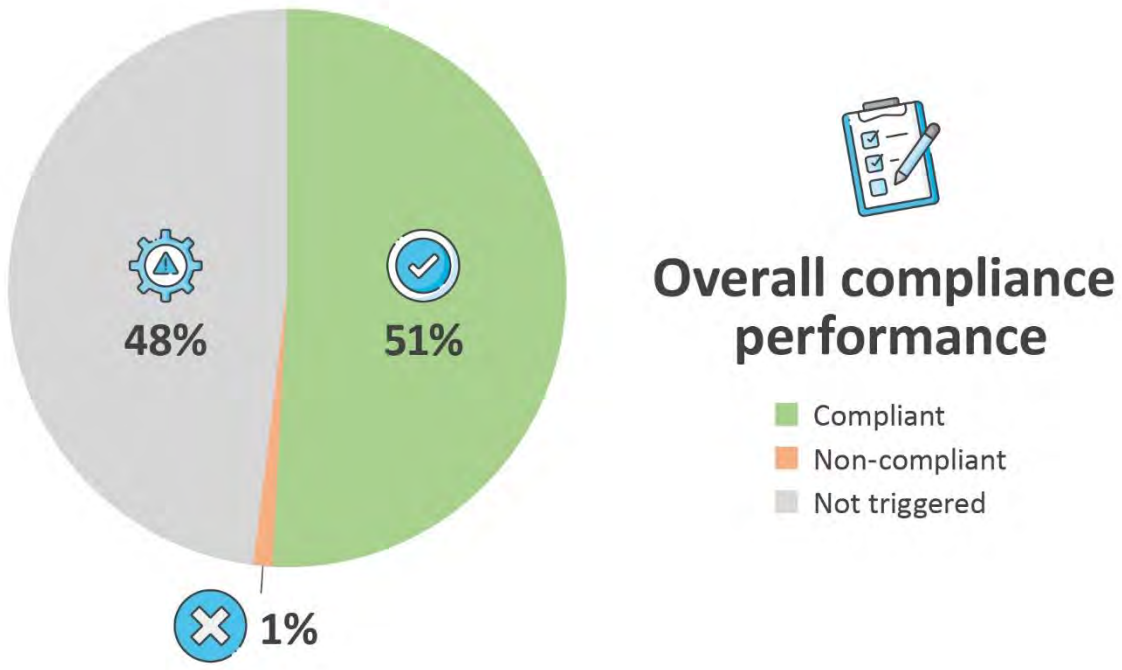


Figure 3.1 Overall compliance performance

Table 3.3 Compliance with audited documents

Document	Number of compliance requirements	Compliant	Non-compliant	Not triggered
PA 09_0167 conditions	87	51	4	32
PA 09_0167 statement of commitments	55	44	0	11
DA 104/96 conditions	51	33	0	18
DA 104/96 statement of commitments	66	36	0	30
EPL 3652	113	86	7	20
ML 1325	11	5	0	6
ML 1348	75	19	0	56
ML 1349	24	13	0	11
ML 1357	11	5	0	6
ML 1393	23	11	0	12
ML 1398	23	12	0	11
ML 1416	36	14	0	22
ML 1477	20	5	0	15
ML 1484	35	13	0	22
ML 1485	34	12	0	22

Document	Number of compliance requirements	Compliant	Non-compliant	Not triggered
ML 1495	19	6	0	13
ML 1502	19	7	0	12
ML 1506	30	11	0	19
ML 1564	17	8	0	9
ML 1576	30	11	0	19
ML 1580	22	11	0	11
ML 1581	17	8	0	9
ML 1591	15	8	0	7
ML 1595	16	8	0	8
ML 1625	19	10	0	9
ML 1667	18	10	0	8
ML 1668	19	11	0	8
ML 1669	22	12	0	10
ML 1683	22	10	0	12
ML 1686	4	2	0	2
CL 378	33	11	0	22
CL 380	11	5	0	6
CL 580	6	2	0	4
CCL 723	6	2	0	4
CCL 739	23	10	0	13
ML standard conditions	17	14	1	2

3.3 Summary of agency notices, orders, penalty notices or prosecutions

There were no agency notices, orders, penalty notices or prosecutions received during the audit period.

3.4 Non-compliances

A summary of the non-compliances determined as part of the 2024 IEA are provided in Table 3.4.

Table 3.4 Non-compliance summary

Section	Requirement	Evidence	Findings/recommendations	Unique identification number
PA 09_0176				
Schedule 2, Condition 2	**Terms Of Approval** The Applicant must: a) carry out the development generally in accordance with the EA, MOD 1 EA, MOD 2 EA, MOD 3 EA, Modification Report (MOD 4); and b) comply with the conditions of this consent, the statement of commitments and the Development Layout Plans. *Notes:* • *The Development Layout Plans are shown in Appendix 2.* • *The statement of commitments is reproduced in Appendix 3 (excluding the commitments which are inconsistent with the conditions of this consent).*	Annual Reviews for 2021, 2022, 2023. EIS, EA (MOD 1), EA (MOD 2), EA (MOD 3), EA (MOD 4). Project layout plans. Statement of Commitments in EIS and EA (MOD 2)	The development was carried out generally in accordance with the approvals and Statement of Commitments. However, due to non-compliances being identified as part of this audit, not all conditions of consent have been complied with.	NC1

Section	Requirement	Evidence	Findings/recommendations	Unique identification number
Schedule 3, Condition 17	**Blast Management Plan** The Applicant must prepare a Blast Management Plan for the development to the satisfaction of the Planning Secretary. This plan must: a) be prepared in consultation with EPA, and be submitted to the Planning Secretary for approval by the end of June 2011; and b) describe the blast mitigation measures that would be implemented to ensure compliance with the relevant conditions of this consent; c) describe the measures that would be implemented to ensure that the public can get up-to-date information on the blasting schedule; d) include a road closure management plan, prepared in consultation with Council; e) include a blast monitoring program for evaluating blast-related impacts (including blast-induced seismic activity) on, and demonstrating compliance with the blasting criteria in this consent for: • privately-owned residences and structures; • items of Aboriginal (including the REA86 axe grinding grooves) and non-indigenous cultural heritage significance; • private and publicly-owned infrastructure; and • the RUM and the Ashton underground mine; and f) include a protocol that has been prepared in consultation with the owners of nearby mines for minimising and managing cumulative blasting impacts of the mines. The Applicant must implement the approved management plan as approved from time to time by the Planning Secretary. *Note: The Blast Management Plan should be prepared and implemented in accordance with the agreement between the Applicant and Coal & Allied as detailed in the MOD 1 EA.*	Blast Management Plan (RAVCX-307024981-4092) Blast Management Plan approval letter EPL Blast Monitoring Reports Quarterly Environmental Monitoring Reports	The Blast Management Plan (2022) was approved by DPHI on 20 December 2022. a) Evidence of consultation outlined in Appendix A.2 b) Blast mitigation measures - Section 5 c) Public blast notification - Section 7.2. d) Road Closure Management Plan - Appendix A.4 e) Blast monitoring program - Section 6 f) Cumulative impacts protocol - Section 5.1. As identified in the 2022 Annual Review, a fault with the REA86 blast monitor caused a missed blast recording on 17/03/22 at 13:13:46, event code RTH615.It is noted that blast limits were NOT exceeded (for over 600 blast events) during the audit period, but rather that a single blast event was not monitored. This was reported as a non-compliance with Condition 10 and 10a in the 2022 Annual Review. It is our opinion that this would be a non-compliance with Condition 17(e), rather than Condition 10 and 10A, as the requirement to monitor all blasts explicitly comes from the BMP (and EPL) rather than this condition.	NC2

Section	Requirement	Evidence	Findings/recommendations	Unique identification number
Schedule 3, Condition 20	**Air Quality Criteria** Except for the air quality-affected land referred to in Table 1, the Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the Ravensworth mine complex do not exceed the criteria listed in Tables 9, 10 or 11 at any residence on privately-owned land or on more than 25 percent of any privately-owned land. *Table 9: Long term criteria for particulate matter* **Pollutant** / **Averaging period** / **[d] Criterion** Total suspended particulate (TSP) matter / Annual / [a] 90 µg/m³ Particulate matter < 10 µm (PM_{10}) / Annual / [a] 30 µg/m³ *Table 10: Short term criterion for particulate matter* **Pollutant** / **Averaging period** / **[d] Criterion** Particulate matter < 10 µm (PM_{10}) / 24 hour / [a] 50 µg/m³ *Table 11: Long term criteria for deposited dust* **Pollutant** / **Averaging period** / **Maximum increase in deposited dust level** / **Maximum total deposited dust level** [c] Deposited dust / Annual / [b] 2 g/m²/month / [a] 4 g/m²/month *Notes to Tables 9-11:* *a. Total impact (i.e. incremental increase in concentrations due to the Ravensworth mine complex plus background concentrations due to all other sources);* *b. Incremental impact (i.e. incremental increase in concentrations due to the Ravensworth mine complex on its own);* *c. Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method;* d. *Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agreed by the Planning Secretary in consultation with EPA.*	Annual reviews for 2021, 2022 & 2023. Monthly Environmental Monitoring Reports (Jan-May 2024).	**2021** Five exceedances of the PM_{10} short term criteria occurred in 2021. **2022** PM_{10} 24 hour criterion of 50 µg/m³ was exceeded once at TEOM D1 on 19/2/2022. The exceedance was notified to the relevant authority on 21/2/2022 and 25/2/2022. **2023** PM_{10} 24 hour criterion of 50 µg/m³ was exceeded once at TEOM G1 on 20/09/2023. PM_{10} 24 hour criterion of 50 µg/m³ was exceeded twice at TEOM G2 on 12/10/2023, and 19/12/2023. See air quality monitoring reports in Monthly Environmental Monitoring Report (Jan - May 2024). **2024** PM_{10} 24 hour criterion of 50 µg/m³ was exceeded twice at TEOM G1 on 26/01/2024 and 05/02/2024. There were no exceedances of annual average PM_{10} or TSP in the auditing period. **Recommendation 3:** Review measures in the AQGHGMP for effectiveness and ensure these are being implemented on site.	NC3

Section	Requirement	Evidence	Findings/recommendations	Unique identification number
Schedule 3, Condition 29	**Surface Water Discharges** The Applicant must ensure that all surface water discharges from the site comply with the: a) discharge limits (both volume and quality) set for the development in any EPL; or b) relevant provisions of the POEO Act or Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002.	Annual reviews for 2021, 2022, 2023. EPL 2652 Annual Returns	Surplus surface water at Ravensworth Complex is transferred to RCHPP or discharged from the Narama Dam to the Hunter River via Bowmans Creek under the conditions of Ravensworth Operations EPL 2652 and the Hunter River Salinity Trading Scheme (HRSTS) or transferred to other Glencore mine sites under the GRAWTS. EPL 2652 permits a maximum discharge of 400 ML/day from the Narama In-pit Storage Dam under the HRSTS Regulations. In 2021, ROC discharged 1,511 ML from the Narama In-pit Storage Dam under the conditions of the HRSTS and EPL 2652, with a total of 2.4 ML of unregulated discharges from ROC occurred during 2021 during rainfall event. In 2022, the hourly discharge rate was exceeded on 40 x one hour occasions spread across 22 days where HRSTS discharge block had been published. The total volume of discharge did not exceed the allowable maximum limit. The exceedances were reported in the Annual Reviews and Annual Returns. **Recommendation 4:** Maintain approved hourly discharge rates in accordance with Condition E1.3 of EPL 2652.	NC4
EPL 2652				
L5.5	For the purposes of condition L5.4: a) Data recorded by the meteorological station on the premises at EPA Point 13 must be used to determine meteorological conditions; and b) Stability category temperature inversion conditions are to be determined by the sigma-theta method referred to in Part E4 of Appendix E of the NSW Industrial Noise Policy.	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports Monthly EPL reports	Monthly noise report for September 2021 contains references to "Z" stability category when wind speed are calm. This is not in accordance with Appendix E of the INP.	NC5

Section	Requirement	Evidence	Findings/recommendations	Unique identification number
M2.3	**Water and/ or Land Monitoring Requirements** POINT 2 Pollutant: Conductivity; Units of measure: microsiemens per centimetre; Frequency: Continuous during discharge; Sampling Method: A probe designed to measure the range 0 to 10,000 uS/cm Pollutant: pH; Units of measure: pH; Frequency: Daily during any discharge; Sampling Method: Grab sample Pollutant: Total suspended solids; Units of measure: milligrams per litre; Frequency: Daily during any discharge; Sampling Method: Grab sample Pollutant: Turbidity; Units of measure: nephelometric turbidity units; Frequency: Continuous during discharge; Sampling Method: In line instrumentation POINT 3 Pollutant: Conductivity; Units of measure: microsiemens per centimetre; Frequency: Daily during any discharge; Sampling Method: Grab sample POINT 4 Pollutant: Conductivity; Units of measure: microsiemens per centimetre; Frequency: Daily during any discharge; Sampling Method: Grab sample	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	Monitoring was completed generally in accordance with this condition. However, the following non-compliances occurred during the IEA period. **2021** On three (3) occasions access to EPL 3 to collect water samples was impeded due to flooding from Bowmans Creek. Due to safety concerns, samples were not collected on 27/11/21 and 28/11/21 following the completion of discharge on 26/11/21. It is noted that grab samples were collected during times of discharge. **2022** Due to localised and regional flooding events, there was no safe access to sample EPL 3 and EPL 4 following discharge. As a result, 9 grab samples from EPL 3 and 4 grab samples from EPL 4 were missed. Samples were collected from EPL 2 on all occasions ensuring discharge water remained compliant with EPL 2652 water quality requirements. The HRSTS discharge monitoring system has been reviewed externally by Ampcontrol and tested. Fault alarms are in place to notify relevant site personnel immediately should communication or power failure issues occur.	NC6

Section	Requirement	Evidence	Findings/recommendations	Unique identification number
M9.1	**Hunter River Salinity Trading Scheme (HRSTS) Monitoring** The licensee must continuously operate and maintain communication equipment which makes the conductivity and flow measurements, taken at Point 2 available to the "Service Coordinator" within one hour of those measurements being taken and makes them available in the format specified in the "Hunter River Salinity Trading Scheme Discharge Point Telemetry Specification - Rev V1.0 released 4 October 2018" as published by WaterNSW.	Annual reviews for 2021, 2022, 2023. EPL 2652 Annual Returns.	EPL 2652 permits a maximum discharge of 400 ML/day from the Narama In-pit Storage Dam under the HRSTS Regulations. In 2021, ROC discharged 1,511 ML from the Narama In-pit Storage Dam under the conditions of the HRSTS and EPL 2652, with a total of 2.4 ML of unregulated discharges from ROC occurred during 2021. In 2022, the hourly discharge rate was exceeded on 40 x one hour occasions spread across 22 days where HRSTS discharge block had been published. The exceedances were reported in the Annual Reviews and Annual Returns. **2021** On three (3) occasions access to EPL 3 to collect water samples was impeded due to flooding from Bowmans Creek. Due to safety concerns, samples were not collected on 27/11/21 and 28/11/21 following the completion of discharge on 26/11/21. It is noted that grab samples were collected during times of discharge. **2022** Due to localised and regional flooding events, there was no safe access to sample EPL 3 and EPL 4 following discharge. As a result, 9 grab samples from EPL 3 and 4 grab samples from EPL 4 were missed. Samples were collected from EPL 2 on all occasions ensuring discharge water remained compliant with EPL 2652 water quality requirements. The HRSTS discharge monitoring system has been reviewed externally by Ampcontrol and tested. Fault alarms are in place to notify relevant site personnel immediately should communication or power failure issues occur.	NC7
M9.2	The licensee must ensure that the results of the measurements it takes at the tributary monitoring points are available to the regional water quality monitoring network operated by the NSW Office of Water (or other service provider as advised by the EPA) within 1 hour of its recording.	Annual reviews for 2021, 2022, 2023. EPL 2652 Annual Returns.	As stated above, there were occasions during the IEA period where sampling did not occur. Therefore, the required results were not submitted to the regional water quality monitoring network.	NC8

Section	Requirement	Evidence	Findings/recommendations	Unique identification number
M10.1	To assess compliance with the noise limits specified within this licence, the licensee must undertake operator attended noise monitoring at each specified noise monitoring point in accordance with the table below. POINT 14,15,16 Assessment period: Night Minimum frequency in a reporting period: Monthly Minimum duration within assessment period: 15 minutes Minimum number of assessment period: 1 operation day	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports EPL Noise Assessment Reports	Monitoring occurred at EPA Point 16 before 10:00pm from June 2021 to October 2021. The NMP alters the standard night period to start from 9:00pm, but this alteration is not applicable to the EPL. Refer to Condition L5.3. From November 2021, monitoring at EPA points occurred after 10:00pm. **Recommendation 9:** Update the NMP to be in line with the period definitions outlined in Condition 5.3 of EPL 2652.	NC9
M10.2	To assess compliance with condition L5.1, attended noise monitoring must be undertaken in accordance with Conditions L5.2 to L5.6: a) at the EPA points 14, 15 and 16 identified in P1.4; and b) occur every calendar month in a reporting period; and d) d) occur during one night time period as defined in the Noise Policy for Industry 2017 for a minimum of 15 minutes at each location from a), and when relevant b) during the night.	Monthly noise reports Annual reviews EPL 2652	Monitoring occurred at EPA Point 16 before 10:00pm from June 2021 to October 2021. The NMP alters the standard night period to start from 9:00pm, but this alteration is not applicable to the EPL. Refer to Condition L5.3. From November 2021, monitoring at EPA points occurred after 10:00pm. **Recommendation 9:** Update the NMP to be in line with the criteria set out in Condition 5.3 of EPL 2652.	NC10

Section	Requirement	Evidence	Findings/recommendations	Unique identification number
E1.3	**Special Conditions - Hunter River Salinity Trading Scheme** The licensee must not exceed the hourly volume discharge limit calculated using the following formula, at Point 2 of this licence. **H = V / RRT** Where: H is the hourly volume discharge limit (in megalitres per hour); V is the licence holder's volume discharge limit for the block (in megalitres) calculated in accordance with clause 23 of the Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation (2002); and RRT is the difference between the discharge stop and start times shown on the river register for that block (in hours). *Note 1: The intent of this condition is to prevent spikes of saline water in the Hunter River as a result of discharges of less than the duration permitted by the river register.* *Note 2: A river register is issued by the Service Co-ordinator and allows participants of the Hunter River Salinity Trading Scheme (HRSTS) to discharge saline to the Hunter River during a discharge period.*	Annual Review and Annual Return for 2022.	Hourly discharge rate was exceeded on 40 x one-hour occasions spread across 22 days where HRSTS discharge block had been published. Actual flow rate from the discharge point fluctuated above the calculated hourly rate. Flow rate is dependent primarily on the percentage that the discharge valve is open combined with head pressure (dam level) and thus fluctuations can occur. Site personnel monitored flow rate until it returned to an acceptable level. During pre-discharge calculations to determine flow rate (and thus ensure compliance with condition E1.3) the Electrical Conductivity (EC) value used is higher (conservative) than the actual EC of the discharge water to account for these fluctuations. Ravensworth have reviewed internal procedures relating to pre discharge calculations and valve operation to ensure conservative approach to this calculation is undertaken to reduce the likelihood of discharge flow rate fluctuations resulting in exceedances of hourly flow rates. **Recommendation 4:** Maintain approved hourly discharge rates in accordance with Condition E1.3 of EPL 2652.	NC11

Section	Requirement	Evidence	Findings/recommendations	Unique identification number
Mining Leases				
ML 1868 Standard Condition 19	**Nominated contact person** 1. The holder of a mining lease must nominate a natural person to be the contact person with whom the Secretary can communicate in relation to the mining lease for the purposes of the Act. *Note—* *The Act, section 383 sets out the ways in which notices or other documents may be issued or given to, or served on, a person for the purposes of the Act.* 2. The holder of the mining lease must give written notice to the Secretary of— a) the full name and contact details of the nominated person—within 28 days after the date on which the standard conditions apply to the mining lease under clause 31A of this Regulation, and b) any change in nomination or in the nominated person's contact details—within 28 days after the change occurs. 3. The holder of the mining lease must ensure that the contact details for the nominated person include the person's phone number and postal and email addresses.	ML 1868 Letter to the Resources Regulator on 30 May 2024. All other mining leases and coal leases.	ML 1868 was granted to Resource Pacific Pty Ltd (RUM) on 23 Nov 2023, with the nomination due to the Resource Regulator by 21 Dec 2023. The Resource Regulator was notified in writing on the 30 May 2024 and a contact person was nominated for ML 1868.	NC12

3.5 Previous audit recommendations

Table 3.5 outlines the audit recommendations that were made by RPS (2021) as part of the 2021 IEA. All recommendations were in relation to PA 09_0176.

Table 3.5 Previous audit recommendations

Condition	Aspect	Recommendation	Due date	Response	Completed?
Schedule 3, Condition 20	Air quality criteria	Undertake the required triennial review and update of the Air Quality and Greenhouse Gas Management Plan. Consideration for review may include the dumping and pushing of overburden in high dumps during adverse weather events and effectiveness of the dust suppression system for the dump hopper.	30 November 2021	The AQGHGMP was reviewed and updated in 2022.	Yes
		Where changes are made this should be incorporated into training for dispatch, operators and other relevant personnel to ensure awareness.	31 December 2021	Face to face quarterly training was postponed due to COVID-19 until 2022.	Yes
Schedule 3, Condition 25	Figure update	The Air Quality and Greenhouse Gas Management Plan should be revised to include the correct location of the meteorological station.	30 November 2021	The AQGHGMP was updated and submitted to DPHI on 30 November 2021 for approval.	Yes
Schedule 3, Condition 31	Document control	It is recommended that the Water Management Plan cover page be updated with the status of the plan as “Approved” with the document effective date and review date also included.	30 August 2021	Completed.	Yes
Schedule 3, Condition 32	Biodiversity offsets	It is recommended a review of crown roads status in Offset Areas be undertaken and either close roads or seek modification to Project Approval 09_0176.	30 November 2021 (undertake review)	As part of PA 09_0176 Modification 4 which occurred in May 2023, the minimum size (ha) offsets were modified to reflect the offset areas on the ground at Ravensworth Operations.	Yes
Schedule 3, Condition 41	Document control	It is recommended that the Mining Operation Plan (MOP) cover page be updated with the status of the plan as “Approved” and the latest Resource Regulator approval letter included as an Appendix. In addition, consultation as undertaken with relevant departments to be included in an appendix.	30 August 2021	The MOP was updated to reflect that the MOP was approved on 8 October 2021.	Yes
Schedule 3, Condition 42	Document formatting	The Aboriginal and Cultural Management Plan has cross reference errors throughout the document that should be amended.	30 August 2021	This was amended.	Yes
Schedule 3, Condition 51	Waste	Reinforce correct waste segregation methodology for workshop staff through scheduled training and pre-start meetings.	31 October 2021	Waste management is discussed at pre-start meetings.	Yes
		Reduce load on systems by ensuring appropriate additional sewage facilities are available during periods where increased contractors are on site, e.g. during maintenance shutdowns.	Ongoing	This non-compliance was reported in the 2020 Annual Review and is not within this previous IEA period.	N/A

Condition	Aspect	Recommendation	Due date	Response	Completed?
	Sediment	It was noted that drains and sumps in external apron areas around the workshop, and in the vicinity of the wash down bays were full of accumulated sediment. It is recommended that these areas are regularly inspected and maintained to ensure that the capacity of these systems to capture and manage sediment is maintained.	Ongoing	This continues to be inspected and maintained to prevent sediment accumulation.	Ongoing
		Further to this, the potential for diversion of “clean” water from these areas (such as stormwater from the workshop roof) should be considered to reduce the volume of water that requires management from these systems.	31 December 2021	This was completed.	Yes

3.6 Environmental management plans and strategies

The implementation and adequacy of the various environmental management plans and strategies (as outlined in Table 3.1) were assessed as part of the IEA. EMM determined these plans to be adequate for operation and implemented appropriately.

Opportunities for improvement to environmental management plans and strategies are discussed in Section 4.

3.7 Environmental performance

A summary of findings in relation to the environmental performance of Ravensworth Operations, with a specific focus on those aspects identified by DPHI as key focus areas (refer Section 3.8) is summarised in the sections below.

3.7.1 Noise, blast and vibration

The acoustic audit included a comparison between measured noise levels in the consultant's monthly noise reports, noise and blast levels reported in monthly and quarterly environmental reports prepared by Ravensworth Operations, and Annual Returns and Reports also prepared by Ravensworth Operations.

During the audit period, there were no non-compliances where measured mining noise levels, airblast overpressure, or blasting vibration exceeded relevant criteria or limits.

Some differences between the consultant's noise reports and the reported noise data in the annual reports prepared by Ravensworth Operations were noted, generally due to transcription and/or copy/pasting errors.

Several inconsequential non-compliances with consent and EPL conditions were identified during the reporting period. These resulted in no impact to any residence or other sensitive location and are summarised as follows:

- A single blast event during the audit period was not measured due to a malfunction of the blast monitor. For context, there were approximately 600 blasts during the three-year audit period, none of which exceeded the relevant criteria/limits.
- Night period monitoring occurred at EPA Point 16 before 10:00pm on five occasions from June to October 2021. While this practice was approved under the Noise Management Plan and therefore in accordance with relevant consents, the EPL specifically stipulates that monitoring shall occur from 10:00pm for the night period for EPA noise monitoring points.
- On one occasion, stability category was not calculated in accordance with the NSW Industrial Noise Policy (INP, 2000) when wind speeds were calm (0 metres/second) at the relevant weather station.

Noise and blast management plans, including monitoring locations, are appropriate and consistent with current best practise. Commitments made in the statement of commitments in PA 09_0176 and DA 104/96 have been met.

Overall, Ravensworth Operations has been operated and managed in a competent manner from an acoustic perspective. Recommendations for improvement of noise management practices and analysis of real-time data are provided in Section 3.13.1.

3.7.2 Air quality and greenhouse gas emissions

Air quality and greenhouse gas (GHG) emissions data were generally presented in a consistent and logical manner. Multi-year summaries were provided where data were available, allowing for analyses of patterns in the data, anomalies, and comparison to criteria.

There were three dust complaints related to blasting events received during the audit period. Two separate complaints were received relating to a singular blast in 2022 and one complaint received relating to a blast event in 2023. There were no dust complaints made in 2023 up to the end of the audit period. All complaints were investigated and documented; these were noted to be within acceptable criteria described in PA 09_0176.

There were 11 exceedances of the PM_{10} 24-hour criterion of 50 µg/m^3 recorded during the audit period. Five occurred in 2021, one time in 2022, three times in 2023 and twice between January and May of 2024.

There were no exceedances of the applicable TSP and PM_{10} annual criteria during the audit period. There was one exceedance of the annual average dust deposition criterion at site D27 in 2022.

Table 3.6 provides a comparison of the estimated GHG Safeguard baseline emissions versus the actual emissions as presented in each Annual Review report for the audit period. Actual emissions were below the baseline emissions for each year. Actual emissions decreased in 2022 from 2021 but then increased in 2023.

Table 3.6 Comparison of GHG baseline emissions and actual emissions

Year (Annual Review)	Safeguard baseline (t CO_2-e)	Actual (t CO_2-e)	Baseline minus actual (t CO_2-e)	Actual comparison to previous year (t CO_2-e)
2021	519,058	495,798	23,260	-
2022	519,058	409,321	109,737	-86,477
2023	519,060	509,509	9,551	100,188

The mitigation measures within the Air Quality and Greenhouse Gas Management Plan (AQGHGMP) were reviewed for effectiveness and implementation on site during the site inspection. Mitigation measures sighted include enclosed conveyors, water carts and active management of dust, 'real-time alarm response' program allowing real-time response to air quality alarms, and Ravensworth Complex meteorological forecasting.

3.7.3 Biodiversity management and offsetting

Biodiversity and offsetting are managed in accordance with the Biodiversity Offset Management Plan (2023) in accordance with PA 09_0176. The Biodiversity Offset Management Plan details the management, monitoring and rehabilitation requirements for the Ravensworth North, Hillcrest, Clifton and Stewart biodiversity offset areas (BOAs). Ravensworth Operations also holds Commonwealth *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC Act) approval No. 2010/5389; however, this has been excluded from the scope of this audit.

The 2021 IEA (RPS) identified a non-compliance with this condition and stated:

> annual biodiversity monitoring is completed by qualified and accredited ecologists to determine compliance with project approvals and Offset Area Management Programme. Results from the biodiversity monitoring are reported in the Annual Reviews.
>
> Discrepancies in the overall size of the Ravensworth Biodiversity Offset Areas were identified in 2020 following detailed ground surveys. The surveys identified that three (3) of the four (4) Biodiversity Offset Areas are smaller than the minimum areas required. These include Hillcrest, Clifton, and Stewart.
>
> The Department was notified on 6 January 2021 of the discrepancy. Ravensworth Complex are currently investigating options to increase their biodiversity offsets to meet the minimum sizes outlined in the condition.

As part of PA 09_0176 Modification 4 which occurred in May 2023, the minimum size (ha) offsets were modified to reflect the offset areas on the ground at Ravensworth Operations.

During the site inspection, EMM sighted effective management of the biodiversity offset areas including frog wash areas (Photograph F.8 and Photograph F.9) and the Green and Golden Bellfrog ponds (Photograph F.19 and Photograph F.20) in the Ravensworth North BOA.

No incidents or complaints were received in relation to biodiversity management and offsetting.

3.7.4 Rehabilitation

The Ravensworth mine site has a logical and comprehensive rehabilitation program in place. The site inspection confirmed the ongoing monitoring, maintenance, trouble shooting, and implementation of the Rehabilitation Program was in accordance with the RMP and tracked through the CMO management system. Overall, the quality of rehabilitation was high, with large areas of good vegetation establishment and ground cover on stable slopes and soils. The ongoing internal monitoring identifies areas where intervention and/or maintenance is required including areas of rill erosion, weed infestations and potential historical spontaneous combustion areas, all of which affect rehabilitation success. The site showed evidence of a thorough understanding and tracking of maintenance requirements and adequate resources to continually address areas requiring maintenance.

The approved landform design was being implemented on site and was observed during the audit. The geomorphic landform has been blended in with the conventional design to manage surface water using rock lined drains. Some evidence of rill erosion was noted on the steeper and longer slopes of the geomorphic design. The management of soil resources included maximising stripping depths, temporarily rehabilitating soil stockpiles with final species mix, respreading and ameliorating soils with gypsum and mulch. Surface preparation including final geomorphic shaping, and deep ripping were observed on site during the audit.

There has been no evidence of subsidence impacts since closure of RUM in 2014. It was noted during the audit that a final survey and inspection is proposed to confirm the landform stability.

3.7.5 Visual

Ravensworth Operations is managed in accordance with the Lighting Management Plan and Lighting Tower Relocation, Setup and Operation Procedure.

The site is bordered by vegetation screening and bunded areas which keeps visibility of the mine to a minimum. Offsite lighting and mine infrastructure were not visible from Lemington Road and the New England Highway during the site inspection.

There were no complaints during the IEA period relating to visual amenity and/or lighting.

3.7.6 Water

i Water usage

Ravensworth Operations hold a series of water access licences (WAL) which allow for extraction of water from the Hunter River and Glennies Creek, and the extraction of groundwater.

The water reporting period is between 1 July – 30 June and has been extracted from the Annual Reviews. Table 3.7 shows the water usage at Ravensworth Operations during the 1 July 2021 – 30 June 2023. There were no exceedances of the water entitlements.

Table 3.7 Water usage

WAL number	Water source	Entitlement	Extraction	
			2021–2022	2022–2023
Surface water				
13102	Hunter River Regulated/Zone 1a (Hunter River from Glenbawn Dam to Goulburn River Junction)	15	0	0
9049		0	0	0
10771		25	0	11.9
1046		3	0	0
9050		500	104.4	95.4
8964		1,590	1,200	0
1325		13	13	0
816	Hunter River Regulated/ Management Zone 3a (Glennies Creek)	20	0	0
Groundwater				
41496	Sydney Basin-North Coast Groundwater Source	2,520	1,118.5	2,020.3
41505		300	0	0
41554		50	0	0
41507		576	7.2	624.6
41530		100	0	0
41531		150	146	146

ii Water management

Water management is undertaken in accordance with the Ravensworth Water Management Plan (2024). During the site inspection, EMM observed a number of water storages, pipelines, pumps and sediment control structures consistent with the Water Management Plan, PA 09_0176 and DA 104_96 (refer to Photograph F.28 and Photograph F.54).

EMM did not sight any issues with regards to water management during the IEA site inspection.

iii Water discharge

In 2021, after significant rainfall (above design capacity), water discharged from the MIA Facilities Dam into an ephemeral creek, known as Bayswater Creek. The MIA Facilities Dam is a surface water catchment dam for water runoff from the Ravensworth mining infrastructure area.

In 2022, high levels of rainfall resulted in the unregulated discharge of water from Narama In-pit Storage to the Hunter River via Bowmans Creek. This was non-compliant with EPL 2652 and the Hunter River Salinity Trading Scheme (HRSTS).

All events were reportable incidents and were reported to DPHI and the EPA following the event. As required by the Water Management Plan, water quality sampling was undertaken during the events, with water quality showing negligible changes in the release water in pH, EC, TDS and TSS.

3.7.7 Waste

Waste is managed in accordance with the Waste Management Plan (2023). Waste management was sighted during the site inspection, with non-compliances identified.

EMM sighted numerous waste and recycling bins around the site which were observed to be in order. There was no evidence of cross contamination of recyclable materials (refer to Photograph F.32 and Photograph F.72).

Hydrocarbons/chemicals were generally stored in bunded areas. EMM observed one instance where hydrocarbons were not bunded (Photograph F.73), however, this area did report to catch drains to manage spills if they were to occur.

Tyre disposal is generally in accordance with EPL 2652. Tyre disposal is reported in the Heavy Plant-Tyre Disposal Reports which form part of the EPL Annual Returns.

There were no incidents or complaints relating to waste management during the IEA period.

3.7.8 Aboriginal cultural heritage

Aboriginal cultural heritage is managed in accordance with the Aboriginal and Cultural Heritage Management Plan (ACHMP) (2022).

EMM observed Aboriginal heritage sites located at Ravensworth Operations to be fenced off, signposted and protected (refer to Photograph F.12 and Photograph F.13) during the site inspection.

Annual site monitoring is completed and is attended by Registered Aboriginal Parties (RAPs) and facilitated by specialist Aboriginal heritage consultants and site. No impacts other than natural deterioration were noted at any of the monitored sites.

In 2023, a salvage of Aboriginal heritage items was undertaken at three sites.

3.7.9 European heritage

Ravensworth Operations manage European heritage in accordance with the Heritage Management Plan (2018). The closest European heritage site is the Oaklands homestead which is located adjacent to the Ravensworth Operations. Management of blasting practices and annual pest inspections are implemented to manage potential impacts to Oaklands homestead.

There were no impacts to Oakland homestead during the IEA period.

3.8 Consultation outcomes

A summary of the consultation undertaken, and outcomes of consultation, is provided in Table 3.8, with evidence of consultation provided as Appendix C.

Key focus areas for the IEA, requested by DPHI in correspondence dated 27 May 2024 included:

- adequacy of environmental management plans and programs, including location of monitoring sites
- implementation of environmental management plans and programs
- status of long-term security for biodiversity offsets
- greenhouse gas emissions – calculated emissions versus predicted emissions
- measures undertaken to minimise greenhouse gas emissions

- management of Aboriginal heritage and other historic heritage.

These aspects were assessed as part of the IEA with outcomes presented in Section 3.7.

Table 3.8 Consultation summary

Agency/ CCC member	Date	Method	Aspects/issues raised	Where addressed
DPHI	12 January 2024	Email	Request for input from DPHI into IEA experts to be included as part of the IEA team.	
	17 January 2024	Email	DPHI response providing key expert areas to form part of the IEA team.	Section 1.5 Chapter 3
	11 March 2024	Email	Request for endorsement of IEA team.	
	15 March 2024	Email	DPHI endorsement of IEA team.	Appendix C
	22 May 2024	Email	Email from IEA team requesting advice of other parties or agencies who should be consulted to assist in informing the scope of the IEA and key focus areas for the IEA.	Appendix C
	27 May 2024	Email	DPHI response outlining stakeholders to be consulted and key focus areas for the IEA (see Section 2.6). Key focus areas to form a component of the IEA to include: • adequacy of environmental management plans and programs, including location of monitoring sites	Section 3.6, 3.7, 3.12, Appendix A, Appendix F
			• implementation of environmental management plans and programs	Section 3.6, Appendix A
			• status of long-term security for biodiversity offsets	Appendix A (PA 09_0176 Condition 32, 33)
			• greenhouse gas emissions - calculated emissions versus predicted emissions	Section 3.7.2, 3.11
			• measures undertaken to minimise greenhouse gas emissions	Section 3.7.2, 3.13.2, Appendix A (PA 09_0176 Condition 19)
			• management of Aboriginal heritage and other historic heritage.	Section 3.7.8, 3.7.9, 3.12v, Appendix A (PA 09_0176 Condition 42)
	20 June 2024	Email	Glencore request endorsement of revised audit team	Appendix C
	20 June 2024	Email	DPHI endorsement of revised audit team received	Section 1.5, 2.1, Appendix C

Agency/ CCC member	Date	Method	Aspects/issues raised	Where addressed
BCD	31/5/2024	Email	Letter from IEA team requesting any advice regarding any areas of compliance or environmental management at Ravensworth Operations that should be of particular focus and included within the IEA scope. No response was received from BCD.	Appendix C
Heritage NSW	31 May 2024	Email	Letter from audit team requesting any advice regarding any areas of compliance or environmental management at Ravensworth Operations that should be of particular focus and included within the IEA scope.	Appendix C
	6 June 2024	Email	Heritage NSW noted the requirement for ongoing management as per the ACHMP.	Section 3.7.8, Appendix C
DCCEEW – Water	31/5/2024	Email	Letter from audit team requesting any advice regarding any areas of compliance or environmental management at Ravensworth Operations that should be of particular focus and included within the IEA scope.	Appendix C
	3/6/2024	Email	Feedback from DCCEEW-Water received. Key focus areas to include: • The requirement to prepare and implement management plans that relate to water sources and their dependent ecosystems and users, and associated impact management and mitigation. These plans may include: – Water Management Plans and related sub-plans e.g. Site Water Balance, Erosion and Sediment Control Plan, Stormwater Management Plan, Surface and Groundwater Management Plan. – Extraction Plans and related sub-plans e.g. Water Management Plan, Subsidence Management Plan.	Section 3.6, 3.7.6, 3.12, Appendix A Extractions Plans – N/A
			• The requirement to prepare and implement trigger action response plans for water source impacts which set clearly defined limits and actions. This is to be reported on within annual and exceedance-based reporting.	Noted in Annual Reviews
			• Water supply availability is clearly defined for the project.	Section 3.7.6
			• Water take at the site via storage, diversion, interception or extraction is clearly documented and is authorised by a relevant Water Access Licence or exemption under the Water Management (General) Regulation 2018.	Section 3.7.6
			• Water metering at the site is in accordance with the NSW Non-Urban Metering Framework where relevant.	N/A
			• Water Access Licence/s used to account for water take by the project nominates the work where the water is being taken from.	Section 3.7.6

Agency/ CCC member	Date	Method	Aspects/issues raised	Where addressed
			• Annual reporting clearly documents; 1) water take, use and water source impacts, 2) compares results with previous years, and 3) identifies exceedances and how these are managed/mitigated.	Noted in Annual Reviews
MEG	31 May 2024	Email	Letter from IEA team requesting any advice regarding any areas of compliance or environmental management at Ravensworth Operations that should be of particular focus and included within the IEA scope. No response received from MEG.	Appendix C
Resources Regulator	31 May 2024	Email	Letter from IEA team requesting any advice regarding any areas of compliance or environmental management at Ravensworth Operations that should be of particular focus and included within the IEA scope.	Appendix C
	7 June 2024	Email	Response from Resources Regulator received providing a list of relevant mining leases to be included in the scope of the IEA.	Section 3.1, 3.2, Appendix A, Appendix C
EPA	31 May 2024	Email	Letter from IEA team requesting any advice regarding any areas of compliance or environmental management at Ravensworth Operations that should be of particular focus and included within the IEA scope. No response received from EPA.	Appendix C
NRAR	31 May 2024	Email	Letter from IEA team requesting any advice regarding any areas of compliance or environmental management at Ravensworth Operations that should be of particular focus and included within the IEA scope.	Appendix C
	3 June 2024	Email	Response from NRAR received advising DCEEW- Water is now responsible for controlled activity approvals, works on waterfront land and licences and approvals for large water users.	Appendix C
Singleton Council	31 May 2024	Email	Letter from IEA team requesting any advice regarding any areas of compliance or environmental management at Ravensworth Operations that should be of particular focus and included within the IEA scope. No response received from Singleton Council.	Appendix C
CCC	31 May 2024	Email	Letter from IEA team requesting if the CCC would like to see any particular environmental aspects addressed in the audit. No Response from CCC received.	Appendix C

3.9 Complaints

A total of four complaints were received during the IEA period, all related to blasting. All complaints were satisfactorily followed up in accordance with the complaints management strategy outlined in Section 5.5 of the Environmental Management Strategy (EMS).

A summary of the complaints received over the IEA period are outlined in Table 3.9.

Table 3.9 Summary of complaints

Aspect	2021 (from 18/6/2021)	2022	2023	2024 (up to 26/6/2024)
Noise	-	-	-	-
Air quality	-	-	-	-
Blasting	1	2	1	-
Lighting	-	-	-	-
Other	-	-	-	-

In accordance with Schedule 5, Condition 10 of PA 09_0176 and Schedule 4, Condition 9 of DA 104_96, a summary of all complaints are uploaded to the Ravensworth Operation website.

3.10 Incidents

Table 3.10 provides a summary of the environmental incident which occurred during the IEA period.

One environmental incident was recorded on 12 November 2021 during the audit period. The incident was reported in accordance with Schedule 5, Condition 6 of PA 09_0176, Schedule 4, Condition 5 of DA 104_96, and Condition R2, R3 and R4 of EPL 2652.

Table 3.10 Incidents

Date	Incident	Action
12/11/21	Discharge of sediment laden water from the MIA Facilities Dam into Bayswater Creek between 3.30 am and 5.30 am after significant rainfall. Water sampling was undertaken and the DPIE informed.	Ravensworth has committed to implementing remedial actions including: • review of the Water Management Plan • review of the catchment areas and sediment dam storage capacity at the site • desilting the sediment dam up catchment of the MIA Facilities Dam.

3.11 Actual verses predicted environmental impacts

The Annual Reviews for 2021, 2022 and 2023 were reviewed in order to undertake an assessment of the compliance between actual and predicted impacts documented in relevant environmental assessments.

For noise and blasting, the Annual Reviews reported that the results were generally consistent with the predictions made in the environmental assessments.

The Rehabilitation undertaken on site during the audit period was in line with the RMP and forward plan. Furthermore, additional areas of re-work have been undertaken to improve the rehabilitation success of the site.

It is noted that DPHI requested a comparison of the actual annual greenhouse gas emissions generated during the audit period against the predictions in the environmental assessment be undertaken. The outcomes of this assessment are outlined in Section 3.7.2.

3.12 Site inspection observation

Areas inspected during the site inspection are identified within Section 2.5, with evidence collected through the site inspection summarised below.

i Active mining areas

Inspection of the Ravensworth North Pit was undertaken by the lead auditor and assistant auditors under escort by Ravensworth Operations representatives.

The inspection demonstrated that mining activities within the Ravensworth North Pit was undertaken generally in accordance with approved management plans.

At the time of inspection, active mining activities were located within the Ravensworth North Pit, with overburden being extracted and dumped overburden emplacement areas.

At the time of inspection visible dust was evident within the active mining area however active dust controls were seen to being implemented.

Photographs taken during the inspection of the Ravensworth North Pit are available within Appendix F, specifically Photograph F.1 to Photograph F.7.

ii MIA

Inspection of the MIA was undertaken by the lead auditor and assistant auditors under escort by Ravensworth Operations representatives. The inspection included the site offices, carpark, workshop areas, wash down bays, store rooms and fuel bays. The inspection demonstrated that the MIA was maintained generally in accordance with approved management plans.

Waste storage, handling and disposal was inspected and observed within the MIA. Segregated waste bins were sighted with no evidence of cross contamination. Waste is stored, handled and disposed of in an appropriate manner as per Photograph F.72.

A hydrocarbon/chemical storage vessels was identified outside an appropriately bunded areas (Photograph F.73), however, this area did report to catch drains to manage spills if they were to occur.

Photographs taken during the inspection of the MIA area available within Appendix F, specifically Photograph F.58 to Photograph F.85.

iii CHPP and associated infrastructure

Inspection of the CHPP was undertaken by the lead auditor and assistant auditors under escort by Ravensworth Operations representatives. The inspection included the Run of Mine (ROM) pad, ROM hopper, CHPP and associated laydown areas.

The inspection demonstrated that the CHPP and associated infrastructure was maintained generally in accordance with approved management plans, being well organised and maintained. Dust controls were in place including water cart and sprays at the ROM pad and ROM hopper.

Photographs taken during the inspection of the CHPP and associated infrastructure are available within Appendix F, specifically Photograph F.26 and Photograph F.30.

iv Biodiversity offset areas

Inspection of the BOA were undertaken by the lead auditor and assistant auditors under escort by Ravensworth Operations representatives. The inspection covered the Ravensworth North BOA and included the frog wash bay, Green and Golden Bell Frog ponds, feral animal traps, nest boxes and surveillance cameras.

Photographs taken during the inspection of the BOA are available within Appendix F, specially Photograph F.26 and Photograph F.8 to Photograph F.11, Photograph F.19 to Photograph F.21, and Photograph F.23 to Photograph F.24.

v Aboriginal cultural heritage site

Inspection of the Aboriginal cultural heritage site was undertaken by the lead auditor and assistant auditors under escort by Ravensworth Operations representatives. In particular, the EMM inspected Site 37-3-0938 located in the Ravensworth North BOA. The site was appropriately signposted and fenced.

Photographs taken during the inspection of the BOA are available within Appendix F, specifically Photograph F.12 and Photograph F.13.

vi Rehabilitation areas

The site inspection was undertaken by Clayton Richards (Minesoils) as Rehabilitation Specialist and included the WEA and Eastern Out of pit Emplacement. Areas of active stripping were observed from the site lookout and access road. A presentation including flyovers were observed of rehabilitation and the RUM project during the audit. Document evidence was sighted of inspections, monitoring reports, maintenance schedules, contractor timesheets and work reports, GDPs, and mine plans.

During the site inspection component of the Audit, several rehabilitation activities were observed including bulk pushing for reshaping of the Eastern Out of Pit Emplacement, weed spraying contractors operating on pasture areas and topsoil respreading from active stockpile.

Photographs taken of rehabilitation can be found in Appendix F, specifically Photograph F.88 to Photograph F.107.

vii RUM demolition and closure areas

Inspection of the RUM demolition and closure areas were undertaken by the lead auditor and assistant auditors under escort by Ravensworth Operations representatives. The inspection looked areas where conveyors, buildings, and workshops have been demolished and removed from site. EMM also inspected the closed and rehabilitated ventilation shaft which has been capped with concrete.

Photographs taken during the inspection of the RUM demolition and closure areas are available within Appendix F, specifically Photograph F.25 and Photograph F.53.

viii Water storages – Highway dam and CHPP dam

Inspection of the water storages (Highway dam and CHPP dam) were undertaken by the lead auditor and assistant auditors under escort by Ravensworth Operations representatives. The inspection demonstrated that the water storages were being operated in accordance with approved management plans.

Photographs taken during the inspection are available within Appendix F, specifically Photograph F.28 and Photograph F.54.

ix Meteorological station

An inspection of the meteorological station was undertaken by the lead auditor and assistant auditors under escort by Ravensworth Operations representatives. The meteorological station which was appropriately contained and fenced off.

Photographs taken during the inspection are available within Appendix F, specifically Photograph F.55.

x Air quality monitoring station

An inspection of the air quality monitoring station was undertaken by the lead auditor and assistant auditors under escort by Ravensworth Operations representatives. EMM inspected the air quality monitoring station located in the Ravensworth North BOA which was appropriately contained and fenced off.

Photographs taken during the inspection are available within Appendix F, specifically Photograph F.17 and Photograph F.18.

xi Sewage treatment system

The sewage treatment system was observed during the site inspection. There was no evidence of waste outside of the system or any other issues of concern.

The sewage treatment system can be seen in Photograph F.57.

3.13 Improvement opportunities

3.13.1 Noise, blast and vibration

Several improvement opportunities were identified in relation to the Ravensworth Operations noise monitoring procedures and management and reporting practices:

- When assessing cumulative noise levels from mining operations, contributions from Ashton extraction fans should be included in the cumulative mining noise totals or justification should be provided as to why noise from these fans has not been included.
- While real-time noise monitoring total L_{Aeq} data has been assessed in accordance with Schedule 3, Condition 8(b) of PA_0176, the real-time monitoring data for cumulative mining noise and Ravensworth contributions has not been assessed. We recommend:
  - the cumulative mining noise (referred to as “All Mines L_{Aeq}”) from attended noise monitoring be compared to the real-time low-frequency L_{Aeq} (either less than 1 kHz or 630 Hz)
  - the Ravensworth only contribution (referred to as “RMC L_{Aeq}”) from attended noise monitoring be compared to the directional POI L_{Aeq} corresponding with Ravensworth Operations.
- The noise management plan should be updated to reflect the EPL requirement to monitor from 10:00 pm during the night period rather than the practice of monitoring from 9:00 pm, as currently approved in the NMP. It is understood that Ravensworth Operations have submitted an updated NMP to DPHI and is awaiting response.

- It is our opinion that the non-compliance reported in the 2022 Annual Return relating to missed measurement of a blast event should have been reported as a non-compliance against EPL condition M8.1 and Schedule 3, Condition 17(e) of PA 09_0176 rather than being reported against Schedule 3, Conditions 10 and 10A of PA 09_0176, which relate specifically to blasting limits. The requirement to monitor all blasts comes from the BMP and the requirement to demonstrate compliance at REA86 comes from Condition 17(e).

Overall, noise and blast management plans, including monitoring locations, are appropriate and consistent with current best practise.

3.13.2 Air quality and greenhouse gas emissions

Air quality and greenhouse gas emissions data appears to be generally collected and presented in a logical manner.

The main point of improvement is related to collection of data from TEOM G1 and G2, as multiple 24-hour averaging periods were determined to be 'not valid' due to missing data. This is noted in the 2022 and 2023 Annual Review reports as being an 'administrative' non-compliance. Continued effort should be made to ensure both meteorological and air quality monitoring resources are maintained to ensure continuous measurements are being recorded.

As previously noted, GHG emissions increased in 2023 compared to 2022. Whilst the main reason is likely to be the increase in ROM coal extraction in 2023, reasoning or analysis of this increase has not been provided.

3.13.3 Rehabilitation

The implementation of the rehabilitation program was observed to be of high quality across the board including landform design, surface preparation, vegetation establishment, monitoring and maintenance. It is recommended that a contingency plan for a topsoil deficit is investigated and finalised over the next three years. This may include trial areas with minimal or no topsoil, overburden and mulch/compost only or other organic products. It is understood, soils are being stripped as deep as practical and ameliorated to be used as topdressing growth media. This practice should be continued with potential to mix with genuine topsoils to bulk the remaining resource.

Grazing trials should be planned for areas targeted for agricultural use post mining. It is important to ensure these areas are resilient to grazing in all climatic conditions as soon as practical. It is understood large areas of pasture are adjacent active mining areas, so trials may be impractical during mining within the vicinity, however where possible these trials should be planned for to demonstrate rehabilitation is progressing to target land use.

3.13.4 Waste

A hydrocarbon/chemical storage vessels was identified outside an appropriately bunded area (Photograph F.73). However, this area did report to catch drains to manage spills if they were to occur.

It is recommended that all chemicals/hydrocarbons are appropriately stored in bunded areas.

3.14 Key strengths

Key strengths of Ravensworth Operations environmental management and performance identified during the audit are identified in the following sections.

3.14.1 Noise, blast and vibration

The noise and blast management plans are consistent with current best practice and Ravensworth Operations has demonstrated a strong history of compliance with relevant limits and criteria.

3.14.2 Air quality and greenhouse gas emissions

Ravensworth Operations appear to be implementing its dust mitigation measures on-site as stated in their AQGHGMP. Despite evidence of one visual dust event at the audits site inspection, dust management strategies (i.e. water sprays) were seen actively implemented on-site. The meteorological forecasting system also appears to be working as intended.

While some issues with continuous data collection are noted, air quality monitoring data is generally presented in a logical and clear manner (as presented in the Annual Reviews) and is generally labelled in accordance with requirements.

3.14.3 Rehabilitation

The rehabilitation team including site personnel, consultants and contractors set up at Ravensworth Operations are experienced, methodical and practical, which is a key strength for the site. The resources and systems associated with rehabilitation management at the site also form a part of this strength. The CMO management tool allows for detailed management with accountability and progress monitoring.

3.14.4 Waste

Waste was managed to a high standard with no evidence of cross-contamination within segregated waste bins.

All tyre disposal was in accordance with EPL 2652 and reported in the Heavy Plant-Tyre Disposal Reports which form part of the EPL Annual Returns.

4 Recommendations

A summary of recommendations and opportunities for improvement made as part of the 2024 IEA can be found in Table 4.1.

Table 4.1 Summary of recommendations

Recommendation number	Recommendations
Recommendation 1	Ashton extraction fans should be included in cumulative mining noise totals or justification should be provided as to why they have not been included.
Recommendation 2	With regard to condition (b) regarding assessment of real-time noise monitoring data, only the total LAeq real-time noise descriptor has been assessed and compared to attended monitoring results. To be in line with best practice, we recommend: 1. the real-time total LAeq <1 kHz be compared to the attended cumulative/all mines LAeq 2. the real-time directional ("POI") contribution for Ravensworth as required by SOC 6.6.4 be compared to the attended site-only LAeq contribution for Ravensworth.
Recommendation 3	Review measures in the AQGHGMP for effectiveness and ensure these are being implemented on site.
Recommendation 4	Maintain approved hourly discharge rates in accordance with Condition E1.3 of EPL 2652.
Recommendation 5	During next WMP review, monitoring obligations regarding Emu Creek to be removed as creek has been removed by mining activities and will not be re-instated until final landform established in accordance with Rehabilitation Management Plan.
Recommendation 6	The documented version history within the HMP on the website indicates it is version 1.0 dated 2022. However, approval for the HMP occurred in September 2018. It is noted that in 2022 the approved 2018 version was transitioned to a new template with no material changes to the 2018 approved version. It is however recommended that the revised 2022 version of the HMP be submitted to DPHI for approval to ensure the approval of the HMP aligns with the current version and version on the website.
Recommendation 7	Ensure all hydrocarbons/chemicals are appropriately bunded at all times.
Recommendation 8	Watering, where practicable, of exposed areas in the event of excessive dust generation.
Recommendation 9	Update the NMP to be in line with the criteria set out in Condition 5.3 of EPL 2652.

5 Conclusion

The audit team was endorsed as a suitably qualified, experienced and independent team of experts by the DPHI to conduct an Independent Environmental Audit of Ravensworth Operations under PA 09_0176 and DA 104_96.

The audit was conducted by James Wearne and assisted by Samantha Hayes and Paul Freeman of EMM. The audit was informed by technical experts Jesse Tribby in regard to noise, blasting and vibration; Francine Manansala in regard to air quality and greenhouse gas emissions; and Clayton Richards of Minesoils in regard to rehabilitation.

A site inspection of MPO was completed on 26 June 2024, attended by James Wearne, Samantha Hayes and Paul Freeman, with Clayton Richards inspecting the site on 3 July 2024.

The Audit assessed compliance against the following:

- Project approval 09_0167, development consent DA 104/96, and their statement of commitments.
- Environment Protection Licence (EPL) 2652.
- Mining leases (ML) ML 1325, ML 1348, ML 1349, ML 1357, ML 1393, ML 1398, ML 1416, ML 1477, ML 1484, ML 1485, ML 1495, ML 1502, ML 1506, ML 1564, ML 1576, ML 1580, ML 1581, ML 1591, ML 1595, ML 1625, ML 1667, ML 1668, ML 1669, ML 1683, ML 1686, CL 378, CL 380, CL 580, CCL 723, CCL 739.
- Water access licences (WAL) 9049, 9050, 41496, 41505, 41554, 1046, 1325, 8964, 13102, 41529, 10771, 816, 41507, 41530, 41531.
- Annual Reviews for 2021, 2022 and 2023.
- Environmental management plans (required under PA 09_0167 and DA 104/96).
- Non-compliances of the 2021 IEA.

The IEA consisted of a detailed desktop review, consultation with relevant agencies and the CCC, interviews with Ravensworth Operations staff, and a site inspection. The audit was conducted in accordance with Schedule 5, Condition 8 of PA 09_0176 and Schedule 4, Condition 7 of DA 104/96.

The audit identified 1,049 compliance conditions, of which the majority (51%) were found to be in compliance, 48% were found to have not been triggered and 1% were identified as non-complaint. EMM has identified corrective actions to address non-compliances, as well as opportunities for improvement of the environmental performance of Ravensworth Operations. In addition, key strengths have been identified for consideration in regard to environmental performance.

Appendix A

Independent audit table

EMM
creating opportunities

A.1 Project Approval 09_0176

Table A.1 - Project Approval 09_0176

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
SCHEDULE 2 - ADMINISTRATIVE CONDITIONS						
OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT						
1	The Applicant must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the development.	EMM general audit team	Site inspection and interview. Annual reviews for 2021, 2022, 2023	The Ravensworth Complex is implementing all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation or rehabilitation of the development. EMM did not note any permanent or material environmental harm during the site inspection.	Compliant	
TERMS OF APPROVAL						
2	The Applicant must: (a) carry out the development generally in accordance with the EA, MOD 1 EA, MOD 2 EA, MOD 3 EA, Modification Report (MOD 4); and (b) comply with the conditions of this consent, the statement of commitments and the Development Layout Plans;. *Notes:* *• The Development Layout Plans are shown in Appendix 2.* *• The statement of commitments is reproduced in Appendix 3 (excluding the commitments which are inconsistent with the conditions of this consent).*	EMM general audit team	Annual reviews for 2021, 2022, 2023. EIS, EA (MOD 1), EA (MOD 2), EA (MOD 3), EA (MOD 4). Project layout plans. Statement of Commitments in EIS and EA (MOD 2)	The development was carried out generally in accordance with the approvals and Statement of Commitments. However, due to non-compliances being identified as part of this audit, not all conditions of consent have been complied with.	Non-compliant	NC1
3	If there is any inconsistency between the documents in condition 2, the most recent documents shall prevail to the extent of the inconsistency. The conditions of this consent shall prevail over documents in condition 2 to the extent of any inconsistency.	EMM general audit team	Current approved management plans. Secretary's approval of the management plans.	This is a general condition. Ravensworth Operations is aware that the most recent documents prevail and that the conditions of the consent prevail to the extent of any inconsistency.	Compliant	
4	The Applicant must comply with any reasonable requirement/s of the Planning Secretary arising from the Department's assessment of: (a) any reports, strategies, plans, programs, reviews, audits or correspondence that are submitted by the Applicant in accordance with this consent; and (b) the implementation of any actions or measures contained in these documents.	EMM general audit team	Site inspection and interview	No requests were received from the Secretary during the audit period.	Not triggered	
LIMITS ON APPROVAL						
5	Mining operations for the development may take place until 31 December 2039. *Note: Under this consent, the Applicant is required to rehabilitate the site and perform additional undertakings to the satisfaction of the Planning Secretary and Resources Regulator. Consequently this consent will continue to apply in all other respects other than the right to conduct mining operations until the site has been properly rehabilitated.*	EMM general audit team	Annual Reviews for 2021, 2022, 2023.	Mining operations were undertaken in accordance with 09_0176. Progressive rehabilitation activities were undertaken in the audit period.	Compliant	
6	The Applicant must not extract more than: (a) 16 million tonnes of ROM coal from the open cut mining operations in a calendar year; and (b) 21 million tonnes of ROM coal from the combined Ravensworth mine complex in a calendar year.	EMM general audit team	Annual Reviews for 2021, 2022, 2023.	The annual extraction limits were not exceeded during the audit period	Compliant	
7	The Applicant must: (a) not transport coal from the site by road (except in an emergency situation and with the prior approval of the Planning Secretary in consultation with Council); and (b) restrict product coal transport to/from the RCHPP/RCT to a maximum of: • 20 million tonnes of product coal in a calendar year; and • 18 train movements (average) a day, for the combined Ravensworth mine complex, including any product coal transported for third parties. *Note: For the purposes of this condition, each train entering and exiting the site is classified as 2 train movements;* *a day refers to the 24 hours from midnight to midnight the next day; and train movements do not include transfer of coal reject between parts of the Ravensworth mine complex.*	EMM general audit team	Annual Reviews for 2021, 2022, 2023.	No coal was transported by road during the audit period, the coal transportation limits were not exceeded during the audit period and the limit of the number of train movements was not exceeded during the audit period.	Compliant	
SURRENDER OF CONSENTS						
8	By the end of December 2011, or as otherwise agreed by the Planning Secretary, the Applicant must surrender all existing development consents/approvals for the development in accordance with sections 75YA and 104A of the EP&A Act, and to the satisfaction of the Planning Secretary. Prior to surrendering any development consents for the RCHPP/RCT, the Applicant must demonstrate that it has: (a) the legal ability to surrender such consents; and (b) used its best endeavours to reach agreements with the joint venture partners of the RCHPP/RCT in relation to the joint venture partners' rights over the RCHPP/RCT. *Notes:* *• This consent will apply to all components of the Ravensworth mine complex's open cut operations, as well as the surface components of the RUM, from the date of approval. The existing management and monitoring plans/strategies/programs/protocols/committees for the development will continue to apply until the approval of the comparable plan/strategy/program/ protocol/committee under this consent;* *• The existing approvals are identified in Appendix 4.*	EMM general audit team	N/A	This condition has an activation or timing trigger that has not been met during the temporal scope of this audit, therefore an assessment of compliance is not relevant.	Not triggered	
STRUCTURAL ADEQUACY						
9	The Applicant must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA and MSB. *Notes:* *• Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works;* *• Part 8 of the EP&A Regulation sets out the requirements for the certification of the development;* *• The development is located in the Patrick Plains Mine Subsidence District. Under Section 15 of the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the MSB's approval before constructing any improvements on the site.*	EMM general audit team	Annual reviews for 2021, 2022, 2023 Site inspection and interviews.	The following construction was completed during the audit period: - 2021: the Orica explosives compound was relocated due to progression of mining. - 2022: new magazine yard ahead of progression of mining and commenced the new mine access road. - 2023: new mine access road. All construction was conducted in accordance with the consent condition.	Compliant	
DEMOLITION						
10	The Applicant must ensure that all demolition work is carried out in accordance with AS 2601-2001: The Demolition of Structures, or its latest version.	EMM general audit team	Site inspection and interviews. Annual reviews for 2021, 2022, 2023 Executed Contract RUM-002 CV203 Demolition Risk Assessment Demolition Package RA Presentation Notice of de-energisation clearance for demolition - CV-0203 signed	The mine closure project for RUM commenced in 2022. As a result, there were numerous structures demolished during the audit period including redundant structures at RUM and the CHPP.	Compliant	
PROTECTION OF PUBLIC INFRASTRUCTURE						
11	Unless the Applicant and the applicable authority agree otherwise, the Applicant must: (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development, except where such works have been compensated through the Mining Act 1992 or the planning agreement referred to in condition 14 below.	EMM general audit team	N/A	No public infrastructure was damaged or relocated during the audit period.	Not triggered	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
OPERATION OF PLANT AND EQUIPMENT						
12	The Applicant must ensure that all plant and equipment used at the site is: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	EMM general audit team	Weekly and annual maintenance plans Service records: TR564 Service WO, GR1107 Service WO, DZ827 Service WO Calibration certificates: 45 D1 20230405 10M, 45 D2 20230303 10M, 46 Noise Maint 20230817, SW 20240214, GW 20240215	EMM sighted examples of regular maintenance reports for plant and equipment. And examples of calibration certificates. Ravensworth Operation implement weekly and annual maintenance plans for all equipment and machinery. Equipment and machinery is typically maintained based on hours operated.	Compliant	
STAGED SUBMISSION OF STRATEGIES, PLANS AND PROGRAMS						
13	With the approval of the Planning Secretary, the Applicant may: (a) submit any strategy, plan or program required by this consent on a progressive basis; and (b) combine any strategy, plan or program required by this consent (including the CCC) with any similar strategy, plan or program for the RUM. *Note: For the avoidance of doubt, existing approved management plans, strategies or monitoring programs for the open cut operations of the Ravensworth mine complex will continue to apply until the approval of a similar plan, strategy or program under this consent, or until the surrender of existing approvals (see condition 8 above).*	EMM general audit team	Management plans and associated Secretary approvals of management plans	There were no requests during the audit period to submit management plans on a progressive basis or combine any strategy, plan or program required by this consent (including the CCC) with any similar strategy, plan or program for the RUM.	Not triggered	
PLANNING AGREEMENT						
14	By the end of June 2011, unless otherwise agreed by the Planning Secretary, the Applicant must use its best endeavours to enter into a planning agreement with Council to provide development contributions to Council for the development, in accordance with Division 6 of Part 4 of the EP&A Act. If the Applicant and Council cannot agree on the level or composition of the development contributions, then either party may refer the matter to the Planning Secretary for resolution.	EMM general audit team	Site interview VPA payments: Paymentadvices_20240514024558.889_X Paymentadvices_20240514024629.923_X	EMM sighted 2 VPA payments to Singleton Council on 12/1/23 and 25/1/23. The VPAs are annual road contributions to Council.	Compliant	
GREATER RAVENSWORTH AREA WATER AND TAILINGS SCHEME						
15	The Applicant must ensure that transfer of water and tailings to and from surrounding mines via the GRAWTS occurs generally in accordance with the documents referenced in Condition 2(a) of Schedule 2, in particular, MOD 3 EA and Modification Report (MOD 4).	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
SCHEDULE 3 - ENVIRONMENTAL PERFORMANCE CONDITIONS						
ACQUISITION UPON REQUEST						
Acquisition Upon Request						
1	If the Applicant receives a written request for acquisition from the owner of any land listed in Table 1, then the Applicant must acquire the land in accordance with the procedures in conditions 6-7 of Schedule 4. *Table 1: Land subject to acquisition upon request* Receiver No. / Receiver / Acquisition Basis 3 / A Bowman / Air quality 6A, 6B / Moxey / Air quality 34 / Stapleton / Air quality and Noise *Note: To interpret the locations referred to in Table 1, see the applicable figure in Appendix 5* *Note: To interpret the locations referred to in Table 1, see the applicable figure in Appendix 5*	EMM Noise audit team	Pers. communication with Klay Marchant	There have been no written requests for acquisition during the audit period.	Not triggered	
NOISE						
Noise Criteria						
2	The Applicant must ensure that the noise generated by mining operations at the Ravensworth mine complex does not exceed the criteria in Table 2 at any residence on privately-owned land or on more than 25 per cent of any privately-owned land *Table 2: Noise Criteria dB(A)* Receiver Location / Receiver / Day ($L_{Aeq\ (15min)}$) / Evening ($L_{Aeq\ (15min)}$) / Night ($L_{Aeq\ (15min)}$) / Night ($L_{AF\ (1\ min)}$) R1 / 34 – Stapleton / 48 / 48 / 48 / 49 R2 / 3 – A Bowman / 35 / 35 / 35 / 45 R2 / 13 – A Bowman / 38 / 38 / 38 / 45 R3 / *Camberwell Village Central:* 12 – Yates, 21 – Miller, 27 – Chisholm / 37 / 37 / 37 / 45 R3 / 38 – Ninness / 36 / 36 / 36 / 45 R3 / All other privately-owned land / 35 / 35 / 35 / 45 R4 / *Camberwell Village North:* All privately-owned land / 35 / 35 / 35 / 45 - / All other privately-owned land / 35 / 35 / 35 / 45 *Notes:* *• To interpret the locations referred to Table 2, see the applicable figure in Appendix 5.* *• Noise generated by the development is to be measured in accordance with the relevant requirements, and exemptions (including certain meteorological conditions), of the NSW Industrial Noise Policy. However, these noise criteria do not apply if the Applicant has an agreement with the relevant owner/s of these residences/land to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.*	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports Annual reviews	Site complied with noise criteria during all attended noise monitoring.	Compliant	
Noise Acquisition Criteria						
3	If the noise generated by the Ravensworth mine complex exceeds the criteria in Table 3 at any residence on privately-owned land or on more than 25 per cent of any privately-owned land, then upon receiving a written request for acquisition from the landowner, the Applicant must acquire the land in accordance with the procedures in conditions 6-7 of schedule 4. *Table 3: Noise acquisition criteria dB(A) $L_{Aeq\ (15min)}$* Receiver Location / Receiver / Day ($L_{Aeq\ (15min)}$) / Evening ($L_{Aeq\ (15min)}$) / Night ($L_{Aeq\ (15min)}$) R2 / All privately-owned land / 40 / 40 / 40 R3 / All privately-owned land / 54 / 54 / 49 R4 / All privately-owned land / 47 / 47 / 47 - / All other privately-owned land / 40 / 40 / 40 *Notes:* *• To interpret the loc* *• Noise generated by the development is to be measured in accordance with the relevant requirements, and exemptions (including certain meteorological conditions), of the NSW Industrial Noise Policy.* *• For this condition to apply, the exceedance of the criteria must be systemic.*	EMM Noise audit team	Pers. communication with Klay Marchant	There have been no written requests for acquisition during the audit period.	Not triggered	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Cumulative Noise Criteria						
4	Except for the noise-affected land in Table 1, the Applicant must implement all reasonable and feasible measures to ensure that the noise generated by the Ravensworth mine complex combined with the noise generated by other mines does not exceed the criteria in Table 4 at any residence on privately-owned land or on more than 25 per cent of any privately-owned land. *Table 4: Cumulative noise criteria dB(A) $L_{Aeq\ (period)}$* **Location** / **Day** / **Evening** / **Night** R3 and R4 – Camberwell Village: 55 / 45 / 40 All other privately-owned land: 50 / 45 / 40 *Notes:* *• To interpret* *• Cumulative noise is to be measured in accordance with the relevant requirements, and exemptions (including certain meteorological conditions), of the NSW Industrial Noise Policy.*	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports Annual reviews	Site complied with all noise criteria during attended noise monitoring. Cumulative noise impact has been assessed inconsistently. - Ashton extraction fans have been included in the cumulative mining noise total in December 2022, March 2023, May 2023, and June 2023. - Ashton extraction fans have NOT been included in the cumulative mining noise total in July 2021, August 2021, April to August 2022, and January 2024 Minor errors exist in cumulative noise reporting for September 2023. None of the issues above could have generated exceedances of noise criteria, even if corrected. **Recommendation 1:** Ashton extraction fans should be included in cumulative mining noise totals or justification should be provided as to why they have not been included.	Compliant	
Cumulative Noise Acquisition Criteria						
5	If the cumulative noise generated by the Ravensworth mine complex combined with the noise generated by other mines exceeds the criteria in Table 5 at any residence on privately-owned land or on more than 25 per cent of any privately-owned land, then upon receiving a written request from the landowner, the Applicant must acquire the land on as equitable basis as possible with the relevant mines, in accordance with the procedures in conditions 6-7 of schedule 4. *Table 5: Cumulative noise acquisition criteria dB(A) $L_{Aeq\ (period)}$* **Location** / **Day** / **Evening** / **Night** R3 and R4 – Camberwell Village: 60 / 50 / 45 All other privately-owned land: 55 / 50 / 45 *Notes:* *• To interpret the locations referred to Table 5, see the applicable figure in Appendix 5.* *• Cumulative noise is to be measured in accordance with the relevant requirements, and exemptions (including certain meteorological conditions), of the NSW Industrial Noise Policy.* *• For this condition to apply, the exceedance of the criteria must be systemic.*	EMM Noise audit team	Pers. communication with Klay Marchant	There have been no written requests for acquisition during the audit period.	Not triggered	
Additional Noise Mitigation Measures						
6	Upon receiving a written request from the owner of: (a) Residence 34 – Stapleton; (b) Residence 13 – A Bowman; or (c) any other residence on privately-owned land where subsequent operational noise monitoring shows the noise generated by the Ravensworth mine complex exceeds the noise limits in Table 6, the Applicant must implement additional reasonable and feasible noise mitigation measures (such as double glazing, insulation, and/or air conditioning) at the residence in consultation with the owner. If within 3 months of receiving this request from the landowner, the Applicant and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Planning Secretary for resolution. *Table 6: Additional noise mitigation criteria dB(A) $L_{Aeq\ (15min)}$* **Receiver Location** / **Receiver** / **Day** ($L_{Aeq\ (15min)}$) / **Evening** ($L_{Aeq\ (15min)}$) / **Night** ($L_{Aeq\ (15min)}$) R2 / All privately-owned land / 37 / 37 / 37 R3 / All privately-owned land / 51 / 51 / 46 R4 / All privately-owned land / 44 / 44 / 44 - / All other privately-owned land / 37 / 37 / 37 *Notes:* *• To inte* *• Noise generated by the development is to be measured in accordance with the relevant requirements, and exemptions (including certain meteorological conditions), of the NSW Industrial Noise Policy.* *• For this condition to apply, the exceedance of the criteria must be systemic.*	EMM Noise audit team	Pers. communication with Klay Marchant	There have been no written requests for mitigation during the audit period.	Not triggered	
7	If the cumulative noise generated by the Ravensworth mine complex combined with the noise generated by other mines exceeds the criteria at any residence on the land referred to in Table 7, then upon receiving a written request from the owner, the Applicant must implement additional reasonable and feasible noise mitigation measures (such as double glazing, insulation, and/or air conditioning) at the residence in consultation with the owner. The Applicant must share the costs associated with implementing these measures on an equitable basis as possible with the relevant mines. If within 3 months of receiving this request from the owner, the Applicant and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Planning Secretary for resolution. *Table 7: Cumulative noise mitigation criteria dB(A) $L_{Aeq\ (period)}$* **Location** / **Day** / **Evening** / **Night** R3 and R4 – Camberwell Village: 57 / 47 / 42 All other privately-owned land: 52 / 47 / 42 *Notes:* *• To inte* *• Cumulative noise is to be measured in accordance with the relevant requirements, and exemptions (including certain meteorological conditions), of the NSW Industrial Noise Policy.* *• For this condition to apply, the exceedance of the criteria must be systemic.*	EMM Noise audit team	Pers. communication with Klay Marchant	There have been no written requests for acquisition during the audit period.	Not triggered	

<table>
<tr><th>Section</th><th>Requirement</th><th>Audit team responsible for condition</th><th>Evidence collected</th><th>Independent Audit Findings and Recommendations</th><th>Compliance status</th><th>Unique Identification Non-compliance</th></tr>
<tr><td colspan="7">Operating Conditions</td></tr>
<tr><td>8</td><td>8. The Applicant must:
(a) implement best practice noise management, including all reasonable and feasible noise mitigation measures to minimise the operational, low frequency and rail noise generated by the Ravensworth mine complex;
(b) regularly assess the real-time noise monitoring and meteorological forecasting data and relocate, modify and/or suspend operations to ensure compliance with the relevant conditions of this consent; and
(c) co-ordinate the noise management on site with the noise management at nearby mines to minimise the cumulative noise impacts of the mines, to the satisfaction of the Planning Secretary.
However, these criteria do not apply if the Applicant has a written agreement with the relevant owner or infrastructure provider/owner, and the Applicant has advised the Department in writing of the terms of this agreement.</td><td>EMM Noise audit team</td><td>Noise Management Plan (NMP) (RAV SD PLN 0062)
Monthly noise reports
EPL Noise Assessment Reports</td><td>Noise management has been effective, as demonstrated through an absence of noise complaints or potential exceedances of noise limits.
<u>Recommendation 2:</u>
With regard to condition (b) regarding assessment of real-time noise monitoring data, only the total LAeq real-time noise descriptor has been assessed and compared to attended monitoring results. To be in line with best practice, we recommend
1. The real-time total LAeq < 1 kHz be compared to the attended cumulative/all mines LAeq
2. The real-time directional ("POI") contribution for Ravensworth as required by SOC 6.6.4 be compared to the attended site-only LAeq contribution for Ravensworth</td><td>Compliant</td><td></td></tr>
<tr><td colspan="7">Noise Management Plan</td></tr>
<tr><td>9</td><td>The Applicant must prepare a Noise Management Plan for the Ravensworth mine complex to the satisfaction of the Planning Secretary. This plan must:
(a) be prepared in consultation with EPA, and be submitted to the Planning Secretary for approval by the end of June 2011;
(b) describe the noise mitigation measures that would be implemented to ensure compliance with the relevant conditions of this consent, including a real-time noise management system that employs both reactive and proactive mitigation measures; and
(c) include a noise monitoring program that:
• uses a combination of real-time and supplementary attended monitoring measures to evaluate the performance of the Ravensworth mine complex; and
• includes a protocol for determining exceedances of the relevant conditions of this consent; and
(d) include a protocol that has been prepared in consultation with the owners of nearby mines to minimise the cumulative noise impacts of the mines.
The Applicant must implement the approved management plan as approved from time to time by the Planning Secretary.</td><td>EMM Noise audit team</td><td>Noise Management Plan (NMP) (RAV SD PLN 0062)
NMP DPHI approval letter
Monthly noise reports
PA 09_0176 SOC</td><td>The NMP currently in place at Ravensworth Operations is dated 2018. A revised NMP has been submitted to DPHI and is awaiting approval. The 2018 NMP was approved by DPHI on 10 September 2018.
a) evidence of EPA consultation in NMP (Appendix B)
b) Noise management controls are discussed in Section 5
c) Noise monitoring is outlined in Section 6
d) Cumulative noise impacts are discussed in Section 5.2.1. Cumulative criteria is set out in Section 4.3.</td><td>Compliant</td><td></td></tr>
<tr><td colspan="7">BLASTING</td></tr>
<tr><td colspan="7">Blasting Criteria</td></tr>
<tr><td>10</td><td>The Applicant must ensure that blasts on site do not cause exceedances of the criteria in Table 8.
Table 8: Blasting criteria
<table>
<tr><th>Location</th><th>Airblast overpressure (dB(Lin Peak))</th><th>Ground vibration (mm/s)</th><th>Allowable exceedance</th></tr>
<tr><td rowspan="2">Residence [a] on privately owned land and Camberwell church</td><td>120</td><td>10</td><td>0%</td></tr>
<tr><td>115</td><td>5</td><td>5% of the total number of blasts over a period of 12 months</td></tr>
<tr><td>Ravensworth Public School and Chain of Ponds Hotel</td><td>133</td><td>10</td><td>0%</td></tr>
<tr><td>Ravensworth Homestead</td><td>126</td><td>10</td><td>0%</td></tr>
<tr><td>Aboriginal axe grinding groove site (REA86)</td><td>-</td><td>[c] 175</td><td>0%</td></tr>
<tr><td>1,000ML dam wall and proposed dam wall</td><td>-</td><td>[b] 25</td><td>0%</td></tr>
<tr><td>Conveyors, including the Hunter Valley Operations conveyor</td><td>-</td><td>[b] 100</td><td>0%</td></tr>
<tr><td>Main Northern Railway culverts and bridges</td><td>-</td><td>[b] 25</td><td>0%</td></tr>
<tr><td>Transmission lines</td><td>-</td><td>[b] 50</td><td>0%</td></tr>
<tr><td>Ashton underground mine</td><td>-</td><td>[b] 6</td><td>0%</td></tr>
</table>
a Unless otherwise agreed with the relevant owner/s of the residence, and the Applicant has advised the Department in writing of the terms of this agreement.
b Unless otherwise agreed with the relevant infrastructure provider, owner or the regulator (in relation to the dams), and the Applicant has advised the Department in writing of the terms of this agreement.
c Subject to meeting incremental limits under condition 10A.</td><td>EMM Noise audit team</td><td>Blast Management Plan (RAVCX-307024981-4092)
Annual reviews
Monthly EPL reports</td><td>As identified in the 2022 Annual Review, a fault with the REA86 blast monitor caused a missed blast recording on 17/03/22 at 13:13:46, event code RTH615. It is noted that blast limits were NOT exceeded (for over 600 blast events) during the audit period, but rather that a single blast event was not monitored.

This was reported as a non-compliance with Condition 10 and 10a in the 2022 Annual Review. It is our opinion that this would be a non-compliance with Condition 17(e), rather than Condition 10 and 10A, as the requirement to monitor all blasts explicitly comes from the BMP (and EPL) rather than this condition.</td><td>Compliant</td><td></td></tr>
<tr><td>10A</td><td>The Applicant must ensure that blasts on site do not cause any exceedance of the following incremental ground vibration limits at the Aboriginal axe grinding groove site (REA86):
(a) 60 mm/s;
(b) 120 mm/s; and
(c) 175 mm/s;
without the prior approval of the Planning Secretary.
In seeking the Planning Secretary's approval for an incremental increase in the ground vibration limit from (a) to (b) to (c) above, the Applicant must provide a report prepared by a suitably qualified expert, in consultation with Heritage NSW and relevant Aboriginal groups, demonstrating that blasting at these limits is not having any discernible impact on the Aboriginal axe grinding groove site (REA86).</td><td>EMM Noise audit team</td><td>Blast Management Plan (RAVCX-307024981-4092)
Annual reviews
Monthly EPL reports</td><td>As identified in the 2022 Annual Review, a fault with the REA86 blast monitor caused a missed blast recording on 17/03/22 at 13:13:46, event code RTH615. It is noted that blast limits were NOT exceeded (for over 600 blast events) during the audit period, but rather that a single blast event was not monitored.

This was reported as a non-compliance with Condition 10 and 10a in the 2022 Annual Review. It is our opinion that this would be a non-compliance with Condition 17(e), rather than Condition 10 and 10A, as the requirement to monitor all blasts explicitly comes from the BMP (and EPL) rather than this condition.</td><td>Compliant</td><td></td></tr>
<tr><td colspan="7">Blasting hours</td></tr>
<tr><td>11</td><td>The Applicant must only carry out blasting on site between 9am and 5pm Monday to Saturday inclusive. No blasting is allowed on Sundays, public holidays, or at any other time without the written approval of the Planning Secretary.</td><td>EMM Noise audit team</td><td>Blast Management Plan (RAVCX-307024981-4092)
Annual reviews
Monthly EPL reports</td><td>Blasting typically occurs at 1:00pm. Coordinated with Superintendents from neighbouring mines.</td><td>Compliant</td><td></td></tr>
<tr><td colspan="7">Blasting frequency</td></tr>
<tr><td>12</td><td>The Applicant may carry out a maximum of:
(d) 2 blasts a day; and
(e) 10 blasts a week,
averaged over a 12 month period, for all open cut operations at the Ravensworth mine complex.
This condition does not apply to blasts that generate ground vibration of 0.5 mm/s or less at any residence on privately-owned land, or to blasts required to ensure the safety of the mine or its workers.
Note: For the purposes of this condition, a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the mine.</td><td>EMM Noise audit team</td><td>Blast Management Plan (RAVCX-307024981-4092)
Annual reviews
Monthly EPL reports</td><td>Ravensworth averaged just over 200 blasts per year during the audit period, not excluding blasts under 0.5 mm/s. So well within limits of this condition.</td><td>Compliant</td><td></td></tr>
</table>

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Property Inspections						
13	If the Applicant receives a written request for a property inspection from the owner of any privately-owned land within 3 kilometres of any approved blasting operations, the Applicant must: (a) within 2 months of receiving this request commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Planning Secretary, to: • establish the baseline condition of any buildings and other structures on the land; and • identify measures that should be implemented to minimise the potential blasting impacts of the development on these buildings or structures; and (b) give the landowner a copy of the property inspection report.	EMM Noise audit team	Pers. communication with Klay Marchant	Not triggered during the IEA period.	Not triggered	
Property Investigations						
14	If any landowner of privately-owned land within 3 kilometres of blasting operations, or any other landowner nominated by the Planning Secretary, claims that buildings and/or structures on his/her land have been damaged as a result of blasting at the development, then within 2 months of receiving this request the Applicant must: (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Planning Secretary, to investigate the claim; and (b) give the landowner a copy of the property investigation report. If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Applicant must repair the damage to the satisfaction of the Planning Secretary. If the Applicant or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Planning Secretary for resolution.	EMM Noise audit team	Pers. communication with Klay Marchant	Not triggered during the IEA period.	Not triggered	
Operating Conditions						
15	The Applicant must: (a) implement best blasting management practice to: • protect the safety of people and livestock in the surrounding area; • protect public or private infrastructure/property in the surrounding area; and • minimise the dust and fume emissions from blasting; (b) co-ordinate the blasting on site with the blasting at nearby mines to minimise the cumulative blasting impacts of the mines; and (c) operate a system to enable the public to get up-to-date information on the proposed blasting schedule on site, to the satisfaction of the Planning Secretary.	EMM Noise audit team	Blast Management Plan (RAVCX-307024981-4092) Annual reviews Monthly EPL reports	Blast results were usually well below 95% limits, with only 2-3 (out of 600+) approaching the airblast overpressure limit and none approaching the vibration limits.	Compliant	
16	The Applicant must not undertake blasting within 500 metres of: (a) the realigned Lemington Road without the approval of Council; or (b) any land outside the site not owned by the Applicant, unless the Applicant has a written F57agreement with the relevant landowner to allow blasting to be carried out closer to the land, and the Applicant has advised the Department in writing of the terms of this agreement.	EMM Noise audit team	Pers. communication with Klay Marchant	a) Blasting occurred within 500 m of the realigned Lemington Road with s138 approval b) Blasting did not occur within 500 m of land not owned by the Applicant	Compliant	
Blast Management Plan						
17	The Applicant must prepare a Blast Management Plan for the development to the satisfaction of the Planning Secretary. This plan must: (a) be prepared in consultation with EPA, and be submitted to the Planning Secretary for approval by the end of June 2011; and (b) describe the blast mitigation measures that would be implemented to ensure compliance with the relevant conditions of this consent; (c) describe the measures that would be implemented to ensure that the public can get up-to-date information on the blasting schedule; (d) include a road closure management plan, prepared in consultation with Council; (e) include a blast monitoring program for evaluating blast-related impacts (including blast-induced seismic activity) on, and demonstrating compliance with the blasting criteria in this consent for: • privately-owned residences and structures; • items of Aboriginal (including the REA86 axe grinding grooves) and non-indigenous cultural heritage significance; • private and publicly-owned infrastructure; and • the RUM and the Ashton underground mine; and (f) include a protocol that has been prepared in consultation with the owners of nearby mines for minimising and managing cumulative blasting impacts of the mines. The Applicant must implement the approved management plan as approved from time to time by the Planning Secretary. N*ote: The Blast Management Plan should be prepared and implemented in accordance with the agreement between the Applicant and Coal & Allied as detailed in the MOD 1 EA.*	EMM Noise audit team	Blast Management Plan (RAVCX-307024981-4092) Blast Management Plan approval letter EPL Blast Monitoring Reports Quarterly Environmental Monitoring Reports	The Blast Management Plan (2022) was approved by DPHI on 20 December 2022. a) Evidence of consultation outlined in Appendix A.2 b) Blast mitigation measures - Section 5 c) Public blast notification - Section 7.2. d) Road Closure Management Plan - Appendix A.4 e) Blast monitoring program - Section 6 f) Cumulative impacts protocol - Section 5.1 As identified in the 2022 Annual Review, a fault with the REA86 blast monitor caused a missed blast recording on 17/03/22 at 13:13:46, event code RTH615.It is noted that blast limits were NOT exceeded (for over 600 blast events) during the audit period, but rather that a single blast event was not monitored. This was reported as a non-compliance with Condition 10 and 10a in the 2022 Annual Review. It is our opinion that this would be a non-compliance with Condition 17(e), rather than Condition 10 and 10A, as the requirement to monitor all blasts comes from the BMP and the requirement to demonstrate compliance at REA86 comes from this condition.	Non-compliant	NC2
AIR QUALITY & GREENHOUSE GAS						
Odour						
18	The Applicant must ensure that no offensive odours are emitted from the site, as defined under the POEO Act, unless otherwise authorised by an EPL.	EMM Air quality audit team	Annual reviews for 2021, 2022 & 2023. Complaints register for 2021, 2022, 2023 & 2024 (until June).	No complaints regarding odour were received during the audit period.	Compliant	
Greenhouse Gas Emissions						
19	The Applicant must implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site to the satisfaction of the Planning Secretary. *Note: This condition does not extend to Scope 3 emissions, as defined in the National Greenhouse Energy Reporting Guideline .*	EMM Air quality audit team	AQGHGMP. The 2021, 2022 and 2023 Annual Reviews provide a summary of GHG emissions in Table 6-12.	The AQGHGMP lists the following measures (Section 4.4): - Optimising haulage routes to minimise distances travelled between pit and out of pit dumps. - Minimise the re-handling of material (i.e. waste and coal). - Maintain the fleet in good operating order. - Reviewing energy efficiency of site wide amenities and equipment. - Monitoring and measuring activities and emissions sources. 2021, 2022 and 2023 Annual Reviews provide a summary of GHG emissions. EMM sighted evidence during the site inspection (i.e. maintenance registers) and conducted interviews, and is satisfied that Ravensworth Operations is implementing all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.	Compliant	

<table>
<tr><th>Section</th><th>Requirement</th><th>Audit team responsible for condition</th><th>Evidence collected</th><th>Independent Audit Findings and Recommendations</th><th>Compliance status</th><th>Unique Identification Non-compliance</th></tr>
<tr><td colspan="7">Air Quality Criteria</td></tr>
<tr><td>20</td><td>Except for the air quality-affected land referred to in Table 1, the Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the Ravensworth mine complex do not exceed the criteria listed in Tables 9, 10 or 11 at any residence on privately-owned land or on more than 25 percent of any privately-owned land.

Table 9: Long term criteria for particulate matter
<table>
<tr><th>Pollutant</th><th>Averaging period</th><th>[d] Criterion</th></tr>
<tr><td>Total suspended particulate (TSP) matter</td><td>Annual</td><td>[a] 90 µg/m³</td></tr>
<tr><td>Particulate matter < 10 µm (PM_{10})</td><td>Annual</td><td>[a] 30 µg/m³</td></tr>
</table>
Table 10: Short term criterion for particulate matter
<table>
<tr><th>Pollutant</th><th>Averaging period</th><th>[d] Criterion</th></tr>
<tr><td>Particulate matter < 10 µm (PM_{10})</td><td>24 hour</td><td>[a] 50 µg/m³</td></tr>
</table>
Table 11: Long term criteria for deposited dust
<table>
<tr><th>Pollutant</th><th>Averaging period</th><th>Maximum increase in deposited dust level</th><th>Maximum total deposited dust level</th></tr>
<tr><td>[c] Deposited dust</td><td>Annual</td><td>[b] 2 g/m²/month</td><td>[a] 4 g/m²/month</td></tr>
</table>
Notes to Tables 9-11:
a Total impact (i.e.. incremental increase in concentrations due to the Ravensworth mine complex plus background concentrations due to all other sources);
b Incremental impact (i.e.. incremental increase in concentrations due to the Ravensworth mine complex on its own);
c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method;
d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agreed by the Planning Secretary in consultation with EPA.</td><td>EMM Air quality audit team</td><td>Annual reviews for 2021, 2022 & 2023.
Monthly Environmental Monitoring Reports (Jan-May 2024).</td><td>2021
Five exceedances of the PM_{10} short term criteria occurred in 2021.

2022
PM_{10} 24 hour criterion of 50 µg/m³ was exceeded once at TEOM D1 on 19/2/2022. The exceedance was notified to the relevant authority on 21/2/2022 and 25/2/2022.

2023
PM_{10} 24 hour criterion of 50 µg/m³ was exceeded once at TEOM G1 on 20/09/2023.
PM_{10} 24 hour criterion of 50 µg/m³ was exceeded twice at TEOM G2 on 12/10/2023, and 19/12/2023.

See air quality monitoring reports in Monthly Environmental Monitoring Report (Jan - May 2024).

2024
PM_{10} 24 hour criterion of 50 µg/m³ was exceeded twice at TEOM G1 on 26/01/2024 and 05/02/2024.

There were no exceedances of annual average PM_{10} or TSP in the auditing period.

<u>Recommendation 3:</u>
Review measures in the AQGHGMP for effectiveness and ensure these are being implemented on site.</td><td>Non-compliant</td><td>NC3</td></tr>
<tr><td colspan="7">Air Quality Acquisition Criteria</td></tr>
<tr><td>21</td><td>Except for the air quality-affected land referred to in Table 1, the Applicant must ensure that all If particulate matter emissions generated by the Ravensworth mine complex exceed the criteria in Tables 12, 13, and 14 at any residence on privately owned land, or on more than 25 percent of any privately owned land, then upon receiving a written request for acquisition from the landowner, the Applicant must acquire the land in accordance with the procedures in conditions 6-7 of schedule 4.

Table 12: Long term acquisition criteria for particulate matter
<table>
<tr><th>Pollutant</th><th>Averaging period</th><th>[d] Criterion</th></tr>
<tr><td>Total suspended particulate (TSP) matter</td><td>Annual</td><td>[a] 90 µg/m³</td></tr>
<tr><td>Particulate matter < 10 µm (PM_{10})</td><td>Annual</td><td>[a] 30 µg/m³</td></tr>
</table>
Table 13: Short term acquisition criteria for particulate matter
<table>
<tr><th>Pollutant</th><th>Averaging period</th><th>[d] Criterion</th></tr>
<tr><td>Particulate matter < 10 µm (PM_{10})</td><td>24 hour</td><td>[a] 150 µg/m³</td></tr>
<tr><td>Particulate matter < 10 µm (PM_{10})</td><td>24 hour</td><td>[b] 50 µg/m³</td></tr>
</table>
Table 14: Long term acquisition criteria for deposited dust
<table>
<tr><th>Pollutant</th><th>Averaging period</th><th>Maximum increase in deposited dust level</th><th>Maximum total deposited dust level</th></tr>
<tr><td>[c] Deposited dust</td><td>Annual</td><td>[b] 2 g/m²/month</td><td>[a] 4 g/m²/month</td></tr>
</table>
Notes to Tables 12-14:
a Total impact (i.e.. incremental increase in concentrations due to the Ravensworth mine complex plus background concentrations due to all other sources);
b Incremental impact (i.e.. incremental increase in concentrations due to the Ravensworth mine complex on its own);
c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter -Deposited Matter - Gravimetric Method;
d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agreed by the Planning Secretary in consultation with EPA.</td><td>EMM Air quality audit team</td><td>N/A</td><td>There have been no written requests for acquisition during the audit period.</td><td>Not triggered</td><td></td></tr>
</table>

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Additional Air Quality Mitigation Measures						
22	Upon receiving a written request from the owner of any residences: (a) on the air quality-affected land listed in Table 1; (b) on the land listed in Table 15; or (c) on any other privately-owned land where subsequent air quality monitoring shows the dust generated by the Ravensworth mine complex exceeds the air quality limits in Tables 9, 10 or 11on a systemic basis, the Applicant must implement additional reasonable and feasible dust mitigation measures (such as a first-flush roof system, internal or external air filters and/or air conditioning) at the residence in consultation with the owner. If within 3 months of receiving this request from the owner, the Applicant and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Planning Secretary for resolution. *Table 15: Land subject to additional air quality mitigation upon request* **Receiver No.** / **Receiver** 6C / Moxey 13 / A Bowman *Notes:* *• To interpret the locations referred to in Table 15, see the applicable figure in Appendix 5.* *• For this condition to apply, the exceedance of the criteria must be systemic.*	EMM Air quality audit team	N/A	There have been no written requests for acquisition mitigation during the audit period.	Not triggered	
Operating Conditions						
23	The Applicant must: (a) implement best practice air quality management, including all reasonable and feasible measures to minimise off-site odour, fume and dust emissions generated by the Ravensworth mine complex, including those generated by any spontaneous combustion; (b) minimise any visible off-site air pollution generated by the Ravensworth mine complex; (c) regularly assess the real-time air quality monitoring and meteorological forecasting data and relocate, modify and/or suspend operations to ensure compliance with the relevant conditions of this consent; and (d) co-ordinate air quality management on site with the air quality management at nearby mines to minimise the cumulative air quality impacts of the mines, to the satisfaction of the Planning Secretary.	EMM Air quality audit team	AQGHGMP. Annual Reviews for 2021, 2022 & 2023. Complaints register for 2021, 2022, 2023 & 2024 (until June). Site inspection.	a & b) Mitigation measures are detailed in the AQGHGMP and Annual Review reports. The following was noted from the site visit: - enclosed conveyors (Photograph F.48) - water carts and active management of dust - 'real-time alarm response' program allowing real-time response to air quality alarms - Ravensworth Complex meteorological forecasting. c) Real time monitors are placed up wind and down wind from Ravensworth Operations. There are also dust management cameras around the site. A daily forecast is received each morning by key operational and site personnel, which forecasts wind speed and direction throughout the day, and determines potential dust impacts at sensitive receivers. This information can be used to modify operations to limit reduce dust emissions (i.e. changing blasting times to avoid adverse wind conditions and inversions). d) The Superintendents from neighbouring meet on a monthly basis to discuss key environmental issues such as cumulative impacts. Air quality data is shared with nearby mines and blasting is coordinated so that only one mine will blast at any one time.	Compliant	
Air Quality and Greenhouse Gas Management Plan						
24	The Applicant must prepare an Air Quality and Greenhouse Gas Management Plan for the Ravensworth mine complex to the satisfaction of the Planning Secretary. This plan must: (a) be prepared in consultation with EPA, and be submitted to the Planning Secretary for approval by the end of June 2011; (b) describe the measures that would be implemented to ensure compliance with the relevant conditions of this consent, including a real-time air quality management system that employs both reactive and proactive mitigation measures; (c) include an air quality monitoring program that: • uses a combination of real-time monitors, high volume samplers and dust deposition gauges to evaluate the performance of the Ravensworth mine complex; and • includes a protocol for determining exceedances of the relevant conditions of this consent; and (d) include a protocol that has been prepared in consultation with the owners of nearby mines to minimise the cumulative air quality impacts of the mines. The Applicant must implement the approved management plan as approved from time to time by the Planning Secretary.	EMM Air quality audit team	AQGHGMP.	AQGHGMP prepared with relevant sections including AQ monitoring program and equipment, protocol for determining exceedances, and cumulative air quality management protocol. EMM sighted evidence during the site inspection (i.e. enclosed conveyors, water carts, real time monitors - Photograph F.17, F.18, F.48) and is satisfied that Ravensworth Operations is implementing the AQGHGMP site.	Compliant	
METEOROLOGICAL MONITORING						
25	During the life of the development, the Applicant must ensure that there is a suitable meteorological station in the vicinity of the site that: (a) complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline; and (b) is capable of continuous real-time measurement of temperature lapse rate in accordance with the NSW Industrial Noise Policy, or as otherwise approved by EPA.	EMM Air quality audit team	AQGHGMP. Met data provided for audit period. Site inspection.	Site inspection confirmed meteorological station working. Measured sigma-theta data from the meteorological data is used to determine stability in regard to temperature inversions. Temperature is also measured at 10m and 60m and can be used to calculate temperature lapse rate.	Compliant	
SOIL & WATER						
Water Supply						
26	The Applicant must ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of mining operations to match its available water supply, to the satisfaction of the Planning Secretary. *Note: The Applicant is required to obtain all necessary water licences and approvals for the development under the Water Act 1912 and/or Water Management Act 2000.*	EMM general audit team	Annual reviews for 2021, 2022, 2023. Site inspection and interviews.	A water balance was reported as part of the Annual Reviews. In 2021 and 2022, a surplus of water was reported due to 90th percentile rainfall year. In 2023, there was a water balance error of approximately 2% deficit, which is well within the acceptable limit. The minor balance error is likely attributed to estimated or calculated water streams where exact monitoring is impracticable (e.g. groundwater inflow calculations, runoff estimates, etc.). A number of flow meters are installed across Ravensworth Operation (both permanent and temporary). The data from the flow meters is used to report on water sourced and used onsite using the Water Accounting Framework (WAF) and is reported to GCAA on a monthly basis.	Compliant	
Baseflow Offsets						
27	The Applicant must offset the loss of any baseflow to the surrounding watercourses and/or associated creeks caused by the development to the satisfaction of the Planning Secretary. *Notes:* *• This condition does not apply in the case of losses of baseflow which are negligible.* *• Offsets should be provided via the retirement of adequate water entitlements to account for the loss attributable to the development.* *• The Applicant is not required to provide additional baseflow offsets where such offsets have already been provided under previous consents or approvals for the mine complex. These existing offsets are to be described and evaluated in the Surface and Ground Water Response Plan (see below).*	EMM general audit team	2021 IEA	As reported in the 2021 (RPS 2021) IEA, a baseflow assessment of Emu, Davis and Bayswater Creeks was completed by AECOM in 2012. The assessment found that Premining groundwater baseflows for Emu Creek have been assessed as being far lower (<0.01 ML/day) than those in Bayswater Creek (0.33 ML/day). Given that baseflows have previously been estimated at approximately 3% of estimated Bayswater Creek baseflow, groundwater baseflow contribution from Emu Creek to Bayswater Creek could be considered to be negligible. AECOM found through installing loggers in each stream that that offsets for the loss of baseflow in Emu Creek, Davis Creek and Bayswater Creek in the form of retirement of water entitlements should not be required based on the current proposal to allow the residual Emu Creek catchment to drain to the Ravensworth pit.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Compensatory Water Supply						
28	The Applicant must provide compensatory water supply to any landowner of privately-owned land whose water entitlements are adversely and directly impacted (other than an impact that is negligible) as a result of the development, in consultation with DPE Water, and to the satisfaction of the Planning Secretary. The compensatory water supply measures must provide an alternative long-term supply of water that is equivalent to the loss attributed to the development. Equivalent water supply should be provided (a least on an interim basis) within 24 hours of the loss being identified. If the Applicant and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Planning Secretary for resolution. If the Applicant is unable to provide an alternative long-term supply of water, then the Applicant must provide alternative compensation to the satisfaction of the Planning Secretary.	EMM general audit team	N/A	No compensatory water was supplied during the audit period.	Not triggered	
Surface Water Discharges						
29	The Applicant must ensure that all surface water discharges from the site comply with the: (a) discharge limits (both volume and quality) set for the development in any EPL; or (b) relevant provisions of the POEO Act or Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002.	EMM general audit team	Annual reviews for 2021, 2022, 2023. EPL 2652 Annual Returns	Surplus surface water at Ravensworth Complex is transferred to RCHPP or discharged from the Narama Dam to the Hunter River via Bowmans Creek under the conditions of Ravensworth Operations EPL 2652 and the HRSTS or transferred to other Glencore mine sites under the GRAWTS. EPL 2652 permits a maximum discharge of 400 ML/day from the Narama In-pit Storage Dam under the HRSTS Regulations. In 2021, ROC discharged 1,511 ML from the Narama In-pit Storage Dam under the conditions of the HRSTS and EPL 2652, with a total of 2.4 ML of unregulated discharges from ROC occurred during 2021 during rainfall event. In 2022, the hourly discharge rate was exceeded on 40 x one hour occasions spread across 22 days where HRSTS discharge block had been published. The total volume of discharge did not exceed the allowable maximum limit. The exceedances were reported in the Annual Reviews and Annual Returns. **Recommendation 4:** Maintain approved hourly discharge rates in accordance with Condition E1.3 of EPL 2652.	Non-compliant	NC4
Emu Creek and Bayswater Creek Diversions						
30	The Applicant must: (a) carry out the diversion of Emu Creek to the satisfaction of the Planning Secretary; (b) submit an as-executed report to the Planning Secretary and DPE Water, certified by a practising engineer, confirming that the Emu Creek diversion is sufficiently hydraulically and geomorphologically stable, prior to commissioning the diversion; (c) reinstate Emu Creek generally in accordance with the concept design outlined in the EA (as depicted in the figure in Appendix 7) and minimising net loss of stream length, as soon as practicable following mining and rehabilitation in the applicable area, to the satisfaction of the Planning Secretary; (d) rehabilitate and revegetate the Bayswater Creek diversion to provide a hydraulically and geomorphically stable stream as soon as practicable following mining and rehabilitation in the applicable area, to the satisfaction of the Planning Secretary; and (e) submit as-executed reports to the Planning Secretary and DPE Water, certified by a practising engineer, confirming that the reinstated/rehabilitated Emu Creek and Bayswater Creek are sufficiently hydraulically and geomorphologically stable, prior to commissioning the reinstated/rehabilitated creeks.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Water Management Plan						
31	The Applicant must prepare a Water Management Plan for the Ravensworth mine complex to the satisfaction of the Planning Secretary. This plan must be prepared in consultation with EPA, DPE Water and BCD and be submitted to the Planning Secretary for approval by the end of June 2011. The plan must include: (a) a Site Water Balance, which must: • include details of: o sources and security of water supply; o water use on site; o water management on site; o any off-site water transfers; and • investigate and implement all reasonable and feasible measures to minimise water use by the Ravensworth mine complex; (b) a Creek Diversion Management Plan, which must include: • a vision statement for the Emu Creek and Bayswater Creek diversions; • an assessment of the water quality, ecological, hydrological and geomorphic baseline conditions within each creek; • the detailed design specifications for the creek relocations/rehabilitation; • a construction program for the creek relocations/rehabilitation, describing how the work would be staged, and integrated with mining operations; • a revegetation program for the relocated/rehabilitated creeks using a range of suitable native species; • water quality, ecological, hydrological and geomorphic performance and completion criteria for the creek relocations/rehabilitation based on the assessment of baseline conditions; and • a program to monitor and maintain the water quality, ecological, hydrological and geomorphic integrity of the creek relocations/rehabilitation; (c) an Erosion and Sediment Control Plan, which must: • identify activities that could cause soil erosion, generate sediment or affect flooding; • describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters, and manage flood risk; • describe the location, function, and capacity of erosion and sediment control structures and flood management structures; and • describe what measures would be implemented to maintain the structures over time; (d) a Surface Water Management Plan, which must include: • detailed baseline data on surface water flows and quality in creeks and other waterbodies that could potentially be affected by the development; • surface water and stream health impact assessment criteria including trigger levels for investigating any potentially adverse surface water impacts; • a program to monitor and assess: o surface water flows and quality; o impacts on water users; o stream health; and o channel stability; (e) a Groundwater Management Plan, which must include: • detailed baseline data of groundwater levels, yield and quality in the region, and privately-owned groundwater bores, that could be affected by the development; • groundwater impact assessment criteria including trigger levels for investigating any potentially adverse groundwater impacts; • a program to monitor and assess: o groundwater inflows to the mining operations; o impacts on regional aquifers; o impacts on the groundwater supply of potentially affected landowners; o impacts on the Hunter River, Bayswater Creek and Bowmans Creek alluvial aquifers; and o impacts on any groundwater dependent ecosystems and riparian vegetation; (f) a Surface and Ground Water Response Plan, which must include: • a response protocol for any exceedances of the surface water and groundwater assessment criteria; • measures to offset the loss of any baseflow to watercourses caused by the development; • measures to prevent, minimise or offset groundwater leakage from alluvial aquifers caused by the development, particularly when mining within 150 metres of any such alluvials (see Appendix 6); • measures to compensate landowners of privately-owned land whose water supply is adversely affected by the development; and • measures to mitigate and/or offset any adverse impacts on groundwater dependent ecosystems or riparian vegetation. The Applicant must implement the approved management plan as approved from time to time by the Planning Secretary.	EMM general audit team	Water Management Plan (2024) (RAVOC-1007099517-67). DPHI approval of WMP on 9 February 2024. Site inspection and interviews.	The 2024 version of the Water Management Plan (WMP) (RAVOC-1007099517-67) can be found on the Ravensworth Operations website. Approval of the WMP was received from DPHI on 9 February 2024. The previous version of the WMP (RAVCX-307024981-4592) was approved by the Secretary in 2019. a) A water balance is located in Section 4 of the WMP and includes details of the sources and security of water supply, water demands and losses, water efficiency, water transfer and disposal, future water balance, and annual water balance. b) A Creek Diversion Management Plan (Bayswater Creek and Emu Creek) is outlined in Section 3.9 and attached as Appendix B in the WMP. All requirements listed in the consent are included in the Creek Diversion Management Plan. c) An Erosion and Sediment Control Design Construction Matrix and Drawings of Typical Erosion and Sediment control Structures is attached as Appendix C of the WMP. Erosion and sediment control is also discussed in Section 5 and Section 8 of the WMP. All requirements listed in the consent are included in these sections/attachments. d) a Surface Water Management Plan is attached as Appendix D and discussed in Section 6.1 of the WMP. All requirements listed in the consent are included in these sections/attachments. e) a Groundwater Management Plan is attached as Appendix E and discussed in Section 6.4 of the WMP. All requirements listed in the consent are included in these sections/attachments. f) a Surface and Ground Water Response Plan is detailed in Section 7 (TARP) of the WMP. Compensation is discussed in Section 6.4 of the WMP. EMM inspected numerous dams and water management infrastructure during the site inspection including the Highway Dam, Office Dam, groundwater monitoring sites and it was found that the WMP is being implemented appropriately (Photograph F.28, F.44, F.45, F.54, F.105, F.106). **Recommendation 5:** During next WMP review, monitoring obligations regarding Emu Creek to be removed as creek has been removed by mining activities and will not be re-instated until final landform established in accordance with Rehabilitation Management Plan.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
BIODIVERSITY						
Biodiversity Offsets						
32	The Applicant must implement the biodiversity offset strategy as outlined in Table 16 and as generally described in the EA (and shown conceptually in Appendix 7), to the satisfaction of the Planning Secretary. *Table 16: Biodiversity Offset Strategy* **Area** / **Offset Type** / **Minimum Size (hectares)** Ravensworth North Offset Area / Existing vegetation and vegetation to be established / 288 Hillcrest Offset Area / Existing vegetation and vegetation to be established / 1,376.4 Clifton Offset Area / Existing vegetation and vegetation to be established / 105.4 Stewart Offset Area / Existing vegetation and vegetation to be established / 164.6 Rehabilitation Area / Woodland vegetation to be established / 1,767 **Total** / / 3,701.4	EMM general audit team	Biodiversity Offset Management Plan (2023) (RAVOC-1007099517-20). Approval of Biodiversity Offset Management Plan by DPHI (9 October 2023). PA 09_0176 MOD 4. Site interviews.	The Biodiversity Offset Management Plan details the management, monitoring and rehabilitation requirements for the Ravensworth North, Hillcrest, Clifton and Stewart biodiversity offset areas (BOAs). The Biodiversity Offset Management Plan was approved in 2023 on 9 October 2023 to satisfy this condition and Condition 38. The 2021 IEA (RPS) identified a non-compliance with this condition and stated "*annual biodiversity monitoring is completed by qualified and accredited ecologists to determine compliance with project approvals and Offset Area Management Programme.* *Results from the biodiversity monitoring are reported in the Annual Reviews.* *Discrepancies in the overall size of the Ravensworth Biodiversity Offset Areas were identified in 2020 following detailed ground surveys. The surveys identified that three (3) of the four (4) Biodiversity Offset Areas are smaller than the minimum areas required. These include Hillcrest, Clifton, and Stewart.* *The Department was notified on 6 January 2021 of the discrepancy. Ravensworth Complex are currently investigating options to increase their biodiversity offsets to meet the minimum sizes outlined in the condition* ". As part of PA 09_0176 Modification 4 which occurred in May 2023, the minimum size (ha) offsets identified in Table 16 were modified to reflect the offset areas on the ground at Ravensworth Operations.	Compliant	
33	The Applicant must ensure that the offset strategy and/or rehabilitation strategy is focused on the reestablishment of: (a) significant and/or threatened plant communities, including: • Central Hunter Grey Box – Ironbark Woodland; • Central Hunter Ironbark – Spotted Gum – Grey Box Forest; • River-flat Eucalypt Forest; • Hunter Floodplain Red Gum Woodland Complex; (b) significant and/or threatened plant species, including: • Lobed Blue-grass (Bothriochloa biloba); • Weeping Myall (Acacia pendula); • River Red Gum (Eucalyptus camaldulensis); and (c) habitat for significant and/or threatened animal species, including: • Green and Golden Bell Frog (Litoria aurea).	EMM general audit team	Biodiversity Offset Management Plan (2023) (RAVOC-1007099517-20). Approval of Biodiversity Offset Management Plan by DPHI (9 October 2023). Site inspection and interviews.	Targeted EECs are discussed in Section 5.3.8, 5.4, 7.4 and Appendix A of the Biodiversity Offset Management Plan. a) Section 5.3.8 and Appendix A - The targeted EECs are detailed in Appendix A. The species to be utilised in revegetation will be selected from these lists based on factors including seasonal availability, suitability for direct seeding and success of past revegetation using that species. b) Section 7.4 - It is considered that the Lobed-Blue-grass is the only priority threatened flora species which is able to be translocated. Weeping Myall and River Red Gums are unlikely to survive a relocation given their overall size and complex root structures. c) Section 5.4 - Commitment to supplementary habitat for the Green and Golden Bell Frog (Litoria aurea) to be constructed to provide a habitat linkage between Davis and Bayswater Creeks, within and adjacent to Ravensworth North Offset Area (RNOA). A series of 10 ponds will be established within RNOA. A further 10 ponds will be constructed in rehabilitated vegetation to provide additional fauna microhabitats in the post mining landscape. In addition to the new ponds, existing farm dams in the RNOA and Hillcrest Offset Area (HOA) (South) will be augmented in order to provide suitable habitat for the Green and Golden Bell Frog. EMM sighted these ponds during the site inspection.	Compliant	
34	By the end of December 2025, unless otherwise agreed by the Planning Secretary, the Applicant must undertake an independent audit of the Central Hunter Grey Box – Ironbark Woodland EEC revegetation in the rehabilitation area, to the satisfaction of the Planning Secretary. The audit must: (a) be conducted by a suitably qualified, experienced and independent ecologist whose appointment has been endorsed by the Planning Secretary; (b) include consultation with BCD; (c) assess the performance of the Central Hunter Grey Box – Ironbark Woodland EEC revegetation in the rehabilitation area completed to date against the completion criteria in the Rehabilitation Management Plan; (d) identify any measures that should be implemented to improve the performance of the rehabilitation; and (e) if the completion criteria have not been met, or are not adequately trending towards being met, determine the likely ecological value of the rehabilitation once completed, and recommend additional measures to augment the offset strategy to ensure that it adequately offsets the development's impacts on the Central Hunter Grey Box – Ironbark Woodland EEC. If the audit recommends additional measures to augment the offset strategy in accordance with (e) above, then within 6 months of the completion of the audit the Applicant must revise the offset strategy, in consultation with BCD, and to the satisfaction of the Planning Secretary. *Notes:* *• The audit should be combined with the independent environmental audit (see condition 8 of schedule 5).* *• For the purposes of this condition Central Hunter Grey Box – Ironbark Woodland EEC refers to the community as defined under the Threatened Species Conservation Act 1995 as at the date of the approval.*	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
Long Term Security of Offsets						
35	The Applicant must make suitable arrangements to provide appropriate long term security for the: (a) Ravensworth North Offset Area and Hillcrest Offset Area, by the end of December 2011; (b) Clifton Offset Area and Stewart Offset Area, by the end of December 2013; and (c) woodland vegetation to be established in the Rehabilitation Area, at least 2 years prior to the completion of mining activities associated with the development, to the satisfaction of the Planning Secretary.	EMM general audit team	Biodiversity Offset Management Plan (2023) (RAVOC-1007099517-20). Approval of Biodiversity Offset Management Plan by DPHI (9 October 2023). Site inspection.	a) & b) Ravensworth Operation owns and manages all four offset areas. The offset areas were observed to be in good condition and fenced off during the site inspection (Photograph F.10, F.11). Site interviews confirmed that the offset areas are monitored in accordance with the Biodiversity Offset Management Plan and Biodiversity Offset Management Program. c) this was not triggered during the IEA period. Mining at Ravensworth Operation will continue until 31 December 2039.	Compliant	
Hunter Ironbark Research Program						
36	The Applicant must prepare and implement a Hunter Ironbark Research Program for the development to the satisfaction of the Planning Secretary. This program must: (a) be prepared in consultation with BCD, and be submitted to the Planning Secretary for approval by the end of December 2011; (b) be directed at encouraging research into the mapping and recovery of EECs affected by the development, particularly: • Central Hunter Grey Box – Ironbark Woodland EEC; and • Central Hunter Ironbark – Spotted Gum – Grey Box Forest EEC.	EMM general audit team	N/A	The Hunter Ironbark Research Program was completed in 2016 and was therefore not triggered during the IEA period.	Not triggered	
37	The Applicant must allocate at least $200,000 towards the preparation and implementation of the Hunter Ironbark Research Program identified above, and obtain the Planning Secretary's approval for allocation of funding under the program.	EMM general audit team	N/A	The Hunter Ironbark Research Program was completed in 2016 and was therefore not triggered during the IEA period.	Not triggered	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Biodiversity Management Plan						
38	The Applicant must prepare a Biodiversity Management Plan for the development to the satisfaction of the Planning Secretary. This plan must: (a) be prepared in consultation with BCD, DPE Water and Council, and be submitted to the Planning Secretary for approval by the end of December 2011; (b) describe how the implementation of the offset strategy would be integrated with the overall rehabilitation of the site (see below); (c) include: • a description of the short, medium, and long term measures that would be implemented to: o implement the offset strategy; and o manage the remnant vegetation and habitat on the site and in the offset areas; • detailed performance and completion criteria for implementation of the offset strategy; • a detailed description of the measures that would be implemented over the next 3 years, including the procedures to be implemented for: o implementing revegetation and regeneration within the disturbance areas and offset areas, including establishment of canopy, sub-canopy (if relevant), understorey and ground strata; o maximising salvage and beneficial use of resources in areas that are to be impacted, including vegetative, soil and cultural heritage resources; o protecting vegetation and soil outside the disturbance areas; o rehabilitating creeks and drainage lines on the site (both inside and outside the disturbance areas), to minimise net loss of stream length and aquatic habitat; o managing salinity; o conserving and reusing topsoil; o undertaking pre-clearance surveys; o managing impacts on fauna; o landscaping the site and along public roads to minimise visual and lighting impacts, including along the New England Highway and the realigned Lemington Road; o collecting and propagating seed; o salvaging and reusing material from the site for habitat enhancement; o salvaging, transplanting and/or propagating threatened flora and native grassland; o controlling weeds and feral pests; o managing grazing and agriculture on site and in the offset areas; o controlling access; and o bushfire management; • a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria; • a description of the potential risks to successful revegetation, and a description of the contingency measures that would be implemented to mitigate these risks; and • details of who would be responsible for monitoring, reviewing, and implementing the plan. The Applicant must implement the approved management plan as approved from time to time by the Planning Secretary.	EMM general audit team	Biodiversity Offset Management Plan (2023) (RAVOC-1007099517-20). Approval of Biodiversity Offset Management Plan by DPHI (9 October 2023). Ravensworth Complex Rehabilitation Management Plan (2022) (RAVCX-307024981-8541). Site inspection.	a) The Biodiversity Offset Management Plan (2023) (RAVOC-1007099517-20) was prepared in consultation with the appropriate government agencies and approved by DPHI on 9 October 2023. b) Section 7 of the Biodiversity Offset Management Plan details additional management and monitoring measures for disturbance and rehabilitation areas (excluding BOAs). Rehabilitation is also managed under the Ravensworth Complex Rehabilitation Management Plan (2022) (RAVCX-307024981-8541). c) - short, medium, and long term measures - Section 5, 6 and 7. - performance and completion criteria - Section 5.2, 5.3 and 7.14. - measures that would be implemented over the next 3 years - Section 5. - monitoring program - Section 6 and 7. - contingency measures - Section 9.4. - responsibilities and review of plan - Section 12. The offset areas were observed to be in good condition and fenced off during the site inspection (Photograph F.10, F.11). Site interviews confirmed that the offset areas are monitored in accordance with the Biodiversity Offset Management Plan and Biodiversity Offset Management Program.	Compliant	
Compensatory Planting						
38A	The Applicant must plant and maintain, until established, 10 River Oak trees for every established River Oak tree removed during construction of the tailings pipeline under MOD 3. *Note: An established River Oak tree is considered to be two metres or greater in height.*	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
Conservation Bond						
39	Within 6 months of the approval of the Biodiversity Management Plan (see above), the Applicant must lodge a conservation bond with the Department to ensure that the offset strategy is implemented in accordance with the performance and completion criteria of the Biodiversity Management Plan. The sum of the bond must be determined by: (a) calculating the full cost of implementing the offset strategy (other than land acquisition costs); and (b) employing a suitably qualified quantity surveyor to verify the calculated costs. If the offset strategy is completed generally in accordance with the completion criteria in the Biodiversity Management Plan (see condition 38) to the satisfaction of the Planning Secretary, the Planning Secretary will release the bond. If the offset strategy is not completed generally in accordance with the completion criteria in the Biodiversity Management Plan, the Planning Secretary will call in all or part of the conservation bond, and arrange for the satisfactory completion of the relevant works. With the agreement of the Planning Secretary, this bond may be combined with the rehabilitation securities administered by the Minister for Mineral Resources.	EMM general audit team	3 October 2013 - Letter to DPHI providing evidence of conservation bond submission 4 October 2013 - Email from DPHI confirming receipt of conservation bond.	Not triggered during the IEA period. The conservation bond was submitted in October 2013 following submission of the original Biodiversity Management Plan. The conservation bond has not been resubmitted following the approval of the 2023 Biodiversity Management Plan as there is no requirement to review/resubmit the bond as per Condition 39.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
REHABILITATION						
Rehabilitation Objectives						
40	The Applicant must: (a) carry out rehabilitation progressively, that is, as soon as reasonably practicable following disturbance; and (b) rehabilitate the site in accordance with the provisions under the Mining Act 1992 and must achieve the rehabilitation objectives described in the EA and the MOD 2 EA (depicted conceptually in the figures in Appendix 7), and comply with the objectives in Table 17. *Table 17: Rehabilitation Objectives* **Feature** / **Objective** Mine site (as a whole): • Safe, stable and non-polluting. • Final landforms to: ○ be designed to minimise the visual impacts of the development; ○ be in keeping with the natural terrain features of the area; ○ incorporate micro-relief; ○ be free draining (with the exception of the final void); and ○ avoid straight run drainage drop structures, as far as practical. Final void: • Designed as a long term groundwater sink and to maximise groundwater flows across back-filled pits to the final void. • Minimise: ○ the size and depth of final void; ○ the drainage catchment of final void; and ○ any high wall instability risk. Revegetation: • Restore self-sustaining ecosystems, including establishing at least 1,767 ha of woodland vegetation in accordance with the biodiversity offset strategy in this consent. Surface infrastructure: • To be decommissioned and removed, unless the Resources Regulator agrees otherwise. Community: • Ensure public safety • Minimise the adverse socio-economic effects associated with mine closure	Minesoils	Site inspection Ravensworth Complex Annual Rehabilitation Report 2023 Annual Review 2022, Section 8 Annual Review 2021, Section 8	a) Rehabilitation areas were inspected during the site visit (Photograph F.88 - F.107). It is noted that rehabilitation is being undertaken progressively, confirmed by rehabilitation reporting in the Annual Reviews and the Annual Rehabilitation Reports. Interviews with site personnel were also conducted during the site inspection which confirmed that that rehabilitation is being carried out as soon as reasonably practicable once it becomes inactive from mining and scheduled for rehabilitation. It was noted on site that all areas available for rehabilitation were either rehabilitation or scheduled to be rehabilitated. Rehabilitation Contractor timesheets and invoices were sighted during the site visit ensuring documented evidence of ongoing and progressive rehabilitation was being undertaken. These included TME - Ripping and seeding activities, Mayfield bulk push timesheet, ROC 2024 Rehabilitation schedule also sighted. The 2024 Rehabilitation Maintenance Records were sighted during the audit including: HCB WEA April Control of invasive grasses and areas treated; Toolijooa infill planting at Cumnock (Invoice sighted); Koru Environmental Annual monitoring report 2023; Internal inspection form and monthly schedule sighted with tasks included in the sites CMO database system; ERR Australia maintenance strategy for addressing weeds, erosion and extra planting requirements; and the internal Glencore b) Whilst the achievement of rehabilitation outcomes condition is tracking towards 'Compliant', it is noted that several of the items in Table 17 are considered 'Not Triggered' as they are not at the stage of full assessment and sign off for compliance. It was observed through visual inspection and review of rehabilitation monitoring and maintenance reports that rehabilitation is generally on a trajectory for future compliance. This included areas at all stages of rehabilitation, from newly prepped and sown areas, to 'maintenance only' areas and areas requiring intervention through investigation, planning, and implementation including weed infested areas, erosion areas, potential spon com areas, and lack of species diversity or stem density areas. Ravensworth site has a recent history of successful, investigation, planning and re-working of rehabilitation areas where one of the aspects above had caused poor rehabilitation success. Current examples sighted onsite include: - The 40ha of targeted re-work area on the WEA; - Saligna Management program on the lower part of the Eastern emplacement; - Approximately 16 ha of potential historical spon com area on the eastern emplacement that is currently under investigation/assessment through RGS technical memo on investigation options and risk assessment scheduled for August 2024; - The steep rework areas on the Eastern Emplacement which did not obtain adequate strike of vegetation. The Auditor has confidence the rehabilitation program has adequate trouble shooting systems in place to ensure all areas of rehabilitation are being closely monitored and managed to ensure the rehabilitation into the future meets requirements. Landform design has integrated geomorphic concepts into existing contoured/simple slope designs, which appear in a stable condition. Evidence of significant erosion requiring intervention was minimal on site. The sites soil balance was sighted with options to be investigated are undertaken as part of closure planning. Final slopes were confirmed to be up to 14 degrees apart from minor geomorphic designed landform sections. Ground preparation included deep ripping along contours which further assisted in stabilising the surface material. There were no straight line drop structures with existing contours wrapping around to low grade drainage lines at the toe of the dumps. Rehabilitation areas were seen to generally have some weed presence with areas of treatment (spraying) indicating active management. Vegetation establishment appeared successful in the areas inspected. Where patches of vegetation were impacted by erosion, repair of this erosion and re-planting has been undertaken. There was diversity in target tree species with understorey and lower level shrubs to be targeted as rehabilitation develops. Soil stockpiles were <3 m and signposted. Rehabilitation of stockpiles were observed to include a cover crop for short term and final rehabilitation species mix for longer term stockpiles, which is considered best practice.	Compliant	
Rehabilitation Management Plan						
41	The Applicant must prepare a Rehabilitation Management Plan for the development in accordance with the conditions imposed on the mining leases(s) associated with the development under the provisions of the Mining Act 1992. *Note: The plan should build on the concept strategy depicted in Appendix 7.*	Minesoils	Ravensworth Operations Rehabilitation Management Plan	Current RMP is available on the website, approved in August 2022 and reviewed in August 2023. RMP prepared in accordance with the Form and Way Rehabilitation Management Plan for Large Mines (Resources Regulator, 2021).	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
HERITAGE						
Heritage Management Plan						
42	The Applicant must prepare a Heritage Management Plan for the development to the satisfaction of the Planning Secretary. This plan must: (a) be prepared in consultation with the Aboriginal community, the Heritage Council, Council, local historical organisations and relevant landowners, and be submitted to the Planning Secretary for approval by the end of June 2011; (b) include the following for the management of Aboriginal heritage on site: • a plan/s of management for the Ravensworth North Offset Area, Hillcrest Offset Area, Clifton Offset Area, Stewart Offset Area, Farrells Creek 1 Aboriginal Artefact Management Area and RUM Dam Conservation Area (or agreed alternative to the RUM Dam Conservation Area); and • a program/procedures for: o salvage, excavation and/or management of Aboriginal sites and potential archaeological deposits within the development disturbance area; o protection and monitoring of Aboriginal sites outside the development disturbance area; o monitoring, notifying and managing the effects of blasting on potentially affected Aboriginal sites; o managing the incremental ground vibration limits under condition 10A above; o maintaining and managing access to Aboriginal sites by the Aboriginal community; o contributing to Aboriginal cultural heritage management (in accordance with the commitments in the EA); o managing the discovery of any new Aboriginal objects or skeletal remains during the development; and o ongoing consultation and involvement of the Aboriginal communities in the conservation and management of Aboriginal cultural heritage on the site; and (c) include the following for the management of other historic heritage on site: • measures to manage potential impacts on, and heritage values of, the Ravensworth homestead, Chain of Ponds Hotel and Ravensworth Public School; and • a program/procedures for: o photographic and archival recording of heritage items directly or indirectly affected by the development; o protection and monitoring of heritage items outside the development disturbance area; o monitoring, notifying and managing the effects of blasting on potentially affected heritage items; and o managing the discovery of any new heritage items or skeletal remains identified during the development. The Applicant must implement the approved management plan as approved from time to time by the Planning Secretary.	EMM general audit team	Aboriginal and Cultural Heritage Management Plan (2022) (RAVCX-1962359669-15). Approval of ACHMP on 28 November 2022. Heritage Management Plan (2022) (RAVCX-307024981-3052). Approval of Heritage Management Plan (2018) (RAVCX-307024981-3052) from DPHI on 10 September 2018.	a) Both the Aboriginal and Cultural Heritage Management Plan (ACHMP) (2022) (RAVCX-1962359669-15) and the Heritage Management Plan (HMP) (2022) (RAVCX-307024981-3052) were prepared in consultation with the applicable stakeholders. The ACHMP was approved by the Secretary on 28 November 2022 and the HMP was approved on 10 September 2018. b) - Management for the Ravensworth North Offset Area, Hillcrest Offset Area, Clifton Offset Area, Stewart Offset Area, Farrells Creek 1 Aboriginal Artefact Management Area and RUM Dam Conservation Area - Section 4. - Program/procedures - Section 4, 7 & 9, 4.8, 4.5, 4.5, 5.4.3, 5.4.4, 8.1 & 8.2, 5. EMM sighted the management of Aboriginal cultural heritage site 37-3-0938 during the site inspection which was appropriately fenced. The site contained signage with the site number, 'do not disturb' notification and the appropriate contact details for Ravensworth Operations. c) - Management of the Ravensworth homestead, Chain of Ponds Hotel and Ravensworth Public School - Section 5.1. - Program/procedures - Section 5.2, 5.1 & 5.3, 5.3, 5.4.5 & 5.4.6. **Recommendation 6:** The documented version history within the HMP on the website indicates it is version 1.0 s dated 2022. However, approval for the HMP occurred in September 2018. It is noted that in 2022 the approved 2018 version was transitioned to a new template with no material changes to the 2018 approved version. It is however recommended that the revised 2022 version of the HMP be submitted to DPHI for approval to ensure the approval of the HMP aligns with the current version and version on the website. to date the HMP 2018 if no additional updates and/or approval from DPHI has been received.	Compliant	
TRANSPORT						
Monitoring of Coal Transport						
43	The Applicant must: (a) keep accurate records of the: • amount of coal transported from the site (on a monthly basis); • date and time of each train movement generated by the Ravensworth mine complex; and (b) make these records available on its website at the end of each calendar year	EMM general audit team	Ravensworth Operations website. Monthly train movement data. Annual reviews for 2021, 2022, 2023.	a) Train movements are recorded per each load transported from site and includes date, time and weight. b) The Ravensworth Operation website contains annual train movement records for 2011-2023.	Compliant	
Road and Intersection Construction						
44	The Applicant must: (a) realign Lemington Road and its intersection with the mine access road to the satisfaction of Council, prior to mining within 200 metres of the existing road alignment; (b) upgrade the realigned Lemington Road / New England Highway intersection to the satisfaction of the TfNSW, prior to commissioning the realigned Lemington Road; (c) upgrade the RCT access road / Liddell Station Road intersection to the satisfaction of Council, prior to the commencement of construction associated with the RCT/RCHPP; and (d) construct the conveyor bridge over the New England Highway to the satisfaction of the TfNSW. *Note: The Lemington Road realignment works include the closure of the existing alignment to public traffic.*	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Lemington Road Realignment						
45	The Applicant must construct the Lemington Road realignment in a manner that can reasonably withstand the subsidence impacts resulting from the Ashton underground coal mine (for mining operations approved under DA309-11-2001, as modified up to and including any approval to DA309-11-2001 Mod 6), to the satisfaction of the MSB.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
46	Unless the Applicant and the owner of the Ashton underground mine agree otherwise, the Applicant must pay Ashton's reasonable costs associated with the monitoring and management of subsidence related impacts on the realigned Lemington Road resulting from the Ashton underground coal mine (for mining operations approved as above), to the satisfaction of the Planning Secretary. If there are any disputes in relation to the implementation of this condition, then any party may refer the matter to the Planning Secretary for resolution.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
Lemington Road Realignment Review						
47	The Applicant must, together with the owner of the Ashton underground coal mine, commission and implement a detailed report on a final alignment for Lemington Road, to the satisfaction of the Planning Secretary. The report must be prepared by an independent person/s whose appointment has been approved by the Planning Secretary, and must: (a) be commissioned by 30 June 2011 and be finalised by 31 March 2012; (b) be prepared in consultation with Council, the TfNSW, MSB and Macquarie Generation; (c) consider predicted subsidence impacts associated with the proposed extraction by the Ashton underground coal mine (for mining operations approved under DA309-11-2001, as modified up to and including DA309-11-2001 Mod 6) of each seam that it is permitted to extract within the underground mining area (including as to whether a stacked or offset panel alignment is employed), and proposed management of these subsidence impacts (including the safety of the public and other road users); (d) assess any need for the final realignment to vary from the interim realignment, including consideration of the most appropriate status for the final alignment (i.e.. public or private road) and most appropriate timing of construction; (e) identify a preferred option for the final alignment of Lemington Road; (f) assess the environmental, social and economic impacts associated with the realignment options, particularly the preferred option; (g) determine the most appropriate responsibility for funding ongoing maintenance of the realigned roadway, including costs associated with repair of any future subsidence-related impacts on the roadway; and (h) include an action plan for implementation of its recommendations, including any variation to the interim alignment and the funding of monitoring and management costs. If so directed by the Planning Secretary, the Applicant must, together with the owner of the Ashton underground coal mine, commission and implement additional reports following extraction of each seam that the owner of the Ashton underground coal mine is permitted to extract (for mining operations approved under DA309-11-2001, as modified up to and including DA309-11-2001 Mod 6). Each such additional report must review the impacts of previous subsidence on Lemington Road/Brunkers Lane, review existing measures to monitor and manage subsidence impacts, and recommend appropriate monitoring and management measures to address future subsidence impacts (including any continuing need to realign Lemington Road), to the satisfaction of the Planning Secretary. The Applicant must fund 50% of the costs of reports prepared under this condition and must implement the recommendations of such reports, to the satisfaction of the Planning Secretary. Any dispute over the interpretation or implementation of reports prepared under this condition must be determined by the Planning Secretary, whose decision will be final. *Notes:* *1) The owner of the Ashton underground coal mine will be expected to fund the other 50 percent of report costs and to have similar responsibilities regarding implementation.* *2) Stacked or offset panel alignments for the Upper Liddell, Upper Lower Liddell and Lower Barrett seams are shown in the plans to DA309-11-2001.*	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
Railway Upgrades						
48	The Applicant must de-link the Ravensworth Loop from the Newdell Loop, prior to transporting more than 8 million tonnes of product coal from the RCHPP/RCT in a calendar year.	EMM general audit team	N/A	Not triggered during the IEA period. The delink of the Ravensworth Loop from the Newdell Loop occurred in 2013.	Not triggered	
VISUAL						
Visual Amenity and Lighting						
49	The Applicant must: (a) implement all reasonable and feasible measures to mitigate visual and off-site lighting impacts of the development; (b) ensure no unshielded outdoor lights shine above the horizontal; and (c) ensure that all external lighting associated with the development complies with Australian Standard AS4282 (INT) 1997 – Control of Obtrusive Effects of Outdoor Lighting, to the satisfaction of the Planning Secretary.	EMM general audit team	Lighting Management Plan Lighting Tower Relocation, Setup and Operation Site inspection. Annual Reviews for 2021, 2022 and 2023.	a) Offsite lighting and mine infrastructure are not visible from Lemington Road and the New England Highway during the site inspection. The site is bordered by vegetation screening and bunded areas. b) EMM reviewed the Lighting Tower Relocation, Setup and Operation procedure which provides workers at Ravensworth Operations with guidelines to safely set-up, manoeuvre and relocate lighting towers. C) EMM reviewed the Lighting Management Plan which has been prepared in accordance with AS4282 (INT) 1997 – Control of Obtrusive Effects of Outdoor Lighting. There were no complaints related to lighting and no lighting audits during the reporting period.	Compliant	
Additional Visual Mitigation Measures						
50	Upon receiving a written request from the owner of any residence on privately-owned land which has significant direct views of the mining operations on site, the Applicant must implement additional visual mitigation measures (such as landscaping treatments or vegetation screens) on the land in consultation with the landowner. These measures must be reasonable and feasible, and directed towards minimising the visibility of the mining operations from the residence. If within 3 months of receiving this request from the owner, the Applicant and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Planning Secretary for resolution. *Note: Except in exceptional circumstances, the Planning Secretary will not require additional visual impact mitigation to be undertaken for residences that are more than 5 kilometres from the mining operations.*	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
WASTE						
51	The Applicant must: (a) minimise and monitor the waste generated by the development; (b) ensure that the waste generated by the development is appropriately stored, handled and disposed of; (c) manage on-site sewage treatment and disposal in accordance with the requirements of Council; and (d) report on waste management and minimisation in the Annual Review, to the satisfaction of the Planning Secretary.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Waste records. Site inspection and interviews. Waste inspection reports. EPL Annual Returns.	a) Waste records are reported in the Annual Reviews, with a high level of recycling noted by EMM. Waste is transported off site monthly by appropriately licenced waste removalist and disposed of/recycled at appropriate facilities. b) Waste storage, handling and disposal was inspected and observed during the site inspection. Segregated waste bins were sighted with no evidence of cross contamination. As shown in the photos in Appendix F, waste is stored, handled and disposed of in an appropriate manner. EMM sighted waste inspection records. EMM did observe a hydrocarbon container not appropriately bunded while on site. However this area did report to catch drains to manage spills if they were to occur. c) On-site sewage is treated through a system which is managed/approved by Singleton Council. Sewage results and maintenance records are reported as part of the EPL Annual Returns. d) Waste minimisation and management was reported in the 2021, 2022 and 2023 Annual Reviews, which were all approved by the Secretary. **Recommendation 7:** Ensure all hydrocarbons/chemicals are appropriately bunded at all times.	Compliant	
BUSHFIRE MANAGEMENT						
52	The Applicant must: (a) ensure that the Ravensworth mine complex is suitably equipped to respond to fires on site; and (b) assist the Rural Fire Service and emergency services as much as possible if there is a fire in the vicinity of the site.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Bushfire Compliance Reports (BEMC) Site inspection and interviews. Ravensworth Complex Bushfire Management Plan (2022) (RAVOC-258458278-16030). Ravensworth Complex Bushfire Management Plan Poster	Slashing of grasses is conducted on a regular basis within road verges, infrastructure areas, and sensitive and high-risk growth areas to mitigate bushfire fuels. Annual inspections and compliance reports are completed for the biodiversity offset areas to ensure fuel levels are at or below the recommended level, roads/tracks can be accessed by fire fighters, if required, and identify any other issues that may need to be addressed to prevent impacts from bushfires. In 2023, there were two bushfire events onsite, however, these fires did not progress to the offset areas. The Ravensworth Complex Bushfire Management Plan was reviewed/revised following these fires, and is also reviewed on an annual basis. EMM sighted fire hoses and fire extinguishers during the site inspection.	Compliant	
SCHEDULE 4 - ADDITIONAL PROCEDURES						
NOTIFICATION OF LANDOWNERS						
1	By the end of March 2011, the Applicant must: (a) notify in writing the owners of: • the land listed in Table 1 of schedule 3 that they have the right to require the Applicant to acquire their land at any stage during the development; • any residence on the land listed in Table 1 (noise-affected) or condition 6 of schedule 3 that they are entitled to ask for additional noise mitigation to be installed at their residence at any stage during the development; • any residence on the land listed in Table 1 (air quality-affected) or Table 15 of schedule 3 that they are entitled to ask for additional air quality mitigation measures to be installed at their residence at any stage during the development; and • any privately-owned land within 3 kilometres of any approved open cut mining pit on site that they are entitled to ask for an inspection to establish the baseline condition of any buildings or structures on their land, or to have a previous property inspection report updated; and (b) send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the owners and/or existing tenants of any land (including mine-owned land) where the predictions in the EA identify that the dust emissions generated by the development are likely to be greater than the relevant air quality criteria in schedule 3 at some stage during the development.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
2	Within 2 weeks of obtaining monitoring results showing: (a) an exceedance of the relevant criteria in schedule 3, the Applicant must notify the affected landowner and/or tenants in writing of the exceedance, and provide regular monitoring results to each of these parties until the development is complying with the relevant criteria again; (b) an exceedance of the relevant criteria in conditions 6(c) or 7 of schedule 3, the Applicant must notify the applicable owner in writing that they are entitled to ask for additional noise mitigation to be installed at their residence; (c) an exceedance of the relevant criteria in conditions 20 or 21 of schedule 3, the Applicant must 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); and (d) an exceedance of the relevant criteria in condition 22(c) of schedule 3, the Applicant must notify the applicable owner of any residences on the land that they are entitled to ask for additional air quality mitigation measures to be installed at their residence.	EMM general audit team	Notification letters to landholders following air quality exceedances. Site interviews.	a) Affected landowners and/or tenants were notified on four occasions during the IEA period following exceedances of the short term criterion for particulate matter. b) There were no exceedances of the relevant noise criteria during the IEA period. c) A copy of 'Mine dust and you' was attached to the email/letter. Or a link to the factsheet was provided with the letter. d) Not triggered. There were no requests for additional air quality mitigation measures to be installed at any residence during the IEA period.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
INDEPENDENT REVIEW						
3	If an owner of privately-owned land considers the development to be exceeding the relevant criteria in schedule 3, then he/she may ask the Planning Secretary in writing for an independent review of the impacts of the development on his/her land. If the Planning Secretary is satisfied that an independent review is warranted, then within 2 months of the Planning Secretary's decision the Applicant must: (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Planning 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 3; and • if the development is not complying with these criteria then: o determine if more than one mine is responsible for the exceedance, and if so the relative share of each mine regarding the impact on the land; o identify the measures that could be implemented to ensure compliance with the relevant criteria; and (b) give the Planning Secretary and landowner a copy of the independent review.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
4	If the independent review determines that the development is complying with the relevant criteria in schedule 3, then the Applicant may discontinue the independent review with the approval of the Planning Secretary. If the independent review determines that the development is not complying with the relevant criteria in schedule 3, and that the development is primarily responsible for this non-compliance, then the Applicant must: (a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent person, and conduct further monitoring until the development complies with the relevant criteria; or (b) secure a written agreement with the landowner to allow exceedances of the relevant criteria, to the satisfaction of the Planning Secretary. If the independent review and further monitoring determines that the development is not complying with the relevant acquisition criteria in schedule 3, and that the development is primarily responsible for this non-compliance, then upon receiving a written request from the landowner, the Applicant must acquire all or part of the landowner's land in accordance with the procedures in conditions 6-7 below.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
5	If the independent review determines that the relevant criteria in schedule 3 are being exceeded, but that more than one mine is responsible for this non-compliance, then together with the relevant mine/site Applicant must: (a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent person, and conduct further monitoring until there is compliance with the relevant criteria; or (b) secure a written agreement with the landowner and other relevant mines to allow exceedances of the relevant criteria, to the satisfaction of the Planning Secretary. If the independent review determines that the development is not complying with the relevant acquisition criteria in schedule 3, but that more than one mine is responsible for this non-compliance, then upon receiving a written request from the landowner, the Applicant must acquire all or part of the landowner's land on as equitable a basis as possible with the relevant mine/s, in accordance with the procedures in conditions 6-7 below.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
LAND ACQUISITION						
6	Within 3 months of receiving a written request from a landowner with acquisition rights, the Applicant must make a binding written offer to the landowner based on: (a) the current market value of the landowner's interest in the property at the date of this written request, as if the property was unaffected by the development, having regard to the: • existing and permissible use of the land, in accordance with the applicable planning instruments at the date of the written request; and • presence of improvements on the property and/or any approved building or structure which has been physically commenced at the date of the landowner's written request, and is due to be completed subsequent to that date, but excluding any improvements that have resulted from the implementation of any additional mitigation measures required under condition 6, 7 or 22 of schedule 3; (b) the reasonable costs associated with: • relocating within the Singleton or Muswellbrook local government areas, or to any other local government area determined by the Planning Secretary; and • obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is to be acquired; and (c) reasonable compensation for any disturbance caused by the land acquisition process. However, if at the end of this period, the Applicant and landowner cannot agree on the acquisition price of the land and/or the terms upon which the land is to be acquired, then either party may refer the matter to the Planning Secretary for resolution. Upon receiving such a request, the Planning Secretary will request the President of the NSW Division of the Australian Property Institute to appoint a qualified independent valuer to: • consider submissions from both parties; • determine a fair and reasonable acquisition price for the land and/or the terms upon which the land is to be acquired, having regard to the matters referred to in paragraphs (a)-(c) above; • prepare a detailed report setting out the reasons for any determination; and • provide a copy of the report to both parties. Within 14 days of receiving the independent valuer's report, the Applicant must make a binding written offer to the landowner to purchase the land at a price not less than the independent valuer's determination. However, if either party disputes the independent valuer's determination, then within 14 days of receiving the independent valuer's report, they may refer the matter to the Planning Secretary for review. Any request for a review must be accompanied by a detailed report setting out the reasons why the party disputes the independent valuer's determination. Following consultation with the independent valuer and both parties, the Planning Secretary will determine a fair and reasonable acquisition price for the land, having regard to the matters referred to in paragraphs (a)-(c) above, the independent valuer's report, the detailed report disputing the independent valuer's determination, and any other relevant submissions. Within 14 days of this determination, the Applicant must make a binding written offer to the	EMM general audit team	N/A	There have been no written requests for acquisition during the audit period.	Not triggered	
7	The Applicant must pay all reasonable costs associated with the land acquisition process described in condition 6 above, including the costs associated with obtaining Council approval for any plan of subdivision (where permissible), and registration of this plan at the Office of the Registrar-General.	EMM general audit team	N/A	There have been no written requests for acquisition during the audit period.	Not triggered	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
SCHEDULE 5 - ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING						
ENVIRONMENTAL MANAGEMENT						
Environmental Management Strategy						
1	The Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Planning Secretary. The strategy must: (a) be submitted to the Planning Secretary for approval by the end of June 2011; (b) provide the strategic framework for environmental management of the development; (c) identify the statutory approvals that apply to the development; (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development; (e) describe the procedures that would be implemented to: • keep the local community and relevant agencies informed about the operation and environmental performance of the development; • receive, handle, respond to, and record complaints; • resolve any disputes that may arise during the course of the development; • respond to any non-compliance; • respond to emergencies; and (f) include: • copies of any strategies, plans and programs approved under the conditions of this consent; and • a clear plan depicting all the monitoring to be carried out in relation to the development. The Applicant must implement the approved strategy as approved from time to time by the Planning Secretary.	EMM general audit team	Environmental Management Strategy (2024) (RAVCX-1962359669-15z). Approval of EMS by DPHI on 15 June 2022 and 13 February 2024.	a) The EMS was approved by the Secretary on two occasions during the IEA period - 15 June 2022 and 13 February 2024. b) The strategic framework can be found in Section 1.6 of the EMS. c) The statutory approvals that apply to the development is found in Section 3.5 of the EMS. d) Roles and responsibilities are discussed in Section 1.7 of the EMS. e) Informing the community/agencies - Section 4.2 & 5.7.2. Complaints - Section 5.5.1. Disputes - Section 5.5.2. Non-compliances - Section 5.6. Emergencies - Section 4.5. f) Strategies, plans and programs approved under the consent are detailed in Section 4.4. Plans depicting monitoring locations can be found in Appendix A - E of the EMS.	Compliant	
Management Plan Requirements						
2	The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include: (a) detailed baseline data; (b) a description of: • the relevant statutory requirements (including any relevant approval, licence or lease conditions); • any relevant limits or performance measures/criteria; • the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures; (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria; (d) a program to monitor and report on the: • impacts and environmental performance of the development; • effectiveness of any management measures (see (c) above); (e) a contingency plan to manage any unpredicted impacts and their consequences; (f) a program to investigate and implement ways to improve the environmental performance of the development over time; (g) a protocol for managing and reporting any: • incidents; • complaints; • non-compliances with the conditions of this consent and statutory requirements; and • exceedances of the impact assessment criteria and/or performance criteria; and (h) a protocol for periodic review of the plan. *Note: The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.*	EMM general audit team	Ravensworth Operations website. Management Plans.	All Ravensworth Operation management plans have been prepared in accordance with their relevant conditions and Schedule 5, Condition 2. All management plans have been submitted and approved by the applicable government agencies, with the approvals attached to the back of the management plan. Management plans are typically reviewed annually and revised every 3 years. A copy of the management plans can be found on the Ravensworth Operations website.	Compliant	
Annual Review						
3	By the end of March 2012, and annually thereafter, the Applicant must review the environmental performance of the development to the satisfaction of the Planning Secretary. This review must: (a) describe the works (including any rehabilitation) that were carried out in the past year, and the works that are proposed to be carried out over the next year; (b) include a comprehensive review of the monitoring results and complaints records of the development over the past year, which includes a comparison of these results against the: • relevant statutory requirements, limits or performance measures/criteria; • monitoring results of previous years; and • relevant predictions in the EA; (c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance; (d) identify any trends in the monitoring data over the life of the development; (e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and (f) describe what measures will be implemented over the next year to improve the environmental performance of the development.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Ravensworth Operations website. Internal notes: Various inconsequential typo mistakes in Appendix B of each Annual Review (Noise Monitoring)	Annual Reviews for Ravensworth Operation were prepared for 2021, 2022 and 2023 and submitted to the Secretary for approval. a) Each Annual Review discusses operation and rehabilitation works completed and proposed in Section 4 and 8. b) Monitoring results, criteria and statutory requirements can be found in Section 6, 7, 8 and Appendices B - F. c) Non-compliances are discussed in Section 11. The 2021 IEA details the non-compliances identified in the previous IEA (RPS 2021). d) Monitoring data trends are found in Section 6, 7, 8 and Appendices B - F. e) A comparison against predictions are discussed for each environmental aspect in Section 6, 7 and 8 f) Measures to be implemented over the next year to improve environmental performance are discussed at the end of each section in Section 6, 7 and 8.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Revision of Strategies, Plans and Programs						
4	Within 3 months of: (a) the submission of an annual review under condition 3 above; (b) the submission of an incident report under condition 6 below; (c) the submission of an audit under condition 8 below; and (d) any modification to the conditions of this consent, the Applicant must review, and if necessary revise, the strategies, plans, and programs required under this consent to the satisfaction of the Planning Secretary. *Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the development.*	EMM general audit team	Letters to DPHI following submission of Annual Reviews. Letters to DPHI following environmental incidents. Letter to DPHI following submission of 2021 IEA. Letters to DPHI following MOD 4 to PA 09_0176 and MOD 10 to DA 104_96.	a) Ravensworth Operation notified DPHI on 30 May 2023 and 13 May 2024 following submission of the Annual Reviews. b) EMM sighted letters to DPHI following reportable incidents during the IEA period including air quality exceedances and water discharge events. c) Letter dated 21 July 2021 outlines the actions from the 2021 IEA including which management plans would be reviewed/revised. d) PA 09_0176 was modified for the 4th time on 15 May 2023. A letter was provided to DPHI on 15 August 2023 confirming the management plans had been reviewed/revised accordingly. DA 104_96 was modified for the 10th time on 6 July 2022. A letter was provided to DPHI on 21 September 2023 confirming the management plans had been reviewed/revised accordingly.	Compliant	
Community Consultative Committee						
5	The Applicant must establish and operate a Community Consultative Committee (CCC) for the development to the satisfaction of the Planning Secretary. This CCC must be established by the end of June 2011 and be operated in general accordance with the Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects (Department of Planning, 2007, or its latest version). *Notes:* *• The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent.* *• In accordance with the guideline, the Committee should comprise an independent chair and appropriate representation from the Applicant, Council, recognised environmental groups and the local community.* *• In establishing the CCC, the Department will accept the continued representation from existing CCC members.* *• The CCC may be combined with any similar CCC for the RUM.*	EMM general audit team	Community Consultative Committee (CCC) meeting minutes. Ravensworth Operations website. *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (DPE 2023)	The Community Consultative Committee (CCC) meet on a quarterly basis with the meeting minutes published on the Ravensworth Operation website. The CCC operates generally in accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (DPE 2023). The CCC is independently chaired by Dr Wej Paradice. Additional CCC members include Cr Godfrey Adamthwaite (Singleton Council) and Patricia Bestic (community member). The CCC covers activities across the open cut, RUM and the CHPP.	Compliant	
REPORTING						
Incident Notification						
6	The Applicant must immediately notify the Department and any other relevant agencies after it becomes aware of an incident. The notification must be in writing via the Department's Major Projects Website and identify the development (including the development application number and name) and set out the location and nature of the incident.	EMM general audit team	Site interviews.	During the site interviews, Ravensworth Operations confirmed that they had immediately notified DPHI (and any other relevant agencies) after becoming aware of an incident via the Major Projects Website.	Compliant	
Non-Compliance Notification						
6A	Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing via the Department's Major Projects Website and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, why it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance. *Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.*	EMM general audit team	Letter to DPHI following incidents.	EMM sighted letter to DPHI that were prepared within 7 days following reportable incidents including air quality exceedances and water discharge events.	Compliant	
Regular Reporting						
7	The Applicant must provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any approved plans of the conditions of this consent.	EMM general audit team	Ravensworth Operations website.	EMM reviewed the website and can confirm that the information on the Ravensworth Operations website is up to date. The website includes quarterly environmental monitoring reports and the Annual reviews for the IEA period.	Compliant	
INDEPENDENT ENVIRONMENTAL AUDIT						
8	By the end of June 2012, and every 3 years thereafter, unless the Planning Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must: (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Planning Secretary; (b) include consultation with the relevant agencies; (c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals); (d) review the adequacy of any approved strategies, plans or programs required under these approvals; and, if appropriate (e) recommend measures or actions to improve the environmental performance of the project, and/or any strategy, plan or program required under these approvals. *Notes:* *• This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Planning Secretary.* *• The audits should be coordinated with similar auditing requirements for the RUM.*	EMM general audit team	2021 Independent Environmental Audit (RPS)	The 2021 IEA was completed by RPS. a) The RPS audit team were suitably qualified, experienced and independent and were endorsed by the Secretary on 30 March 2021. This endorsement is attached as Appendix A to the 2021 IEA. b) Consultation is attached to the 2021 IEA as Appendix C. c) Appendix B of the 2021 IEA completes and audit of the conditions of consent, EPL and mining leases. d) Section 3 (Table 8) discusses the adequacy of approved strategies, plans or programs. e) A summary of non-compliance with recommendations are found in Section 6.1 (Table 11). Opportunities for improvement are found in Section 6.2 (Table 12).	Compliant	
9	Within 6 weeks of the completion of this audit, or as otherwise agreed by the Planning Secretary, the Applicant must submit a copy of the audit report to the Planning Secretary, together with its response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The Applicant must implement these recommendations.	EMM general audit team	Letters submitting the 2021 IEA. Approval of the 2021 IEA from DPHI.	The 2021 IEA was submitted to DPHI on 27 July 2021. Additional information was requested from DPHI on 8 December 2021. The updated report was resubmitted to DPHI on 25 January 2022 and formally approved by DPHI on 2 February 2022. Following the 2021 IEA, Ravensworth prepared and submitted an action plan to DPHI detailing how they will address the non-compliances identified as part of the IEA. This has been uploaded to the Ravensworth Operations website.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ACCESS TO INFORMATION						
10	From the end of June 2011, the Applicant must: (a) make copies of the following publicly available on its website: • the EA; • all current statutory approvals for the development; • approved strategies, plans and programs required under the conditions of this consent; • a summary of the monitoring results of the development, which have been reported in accordance with the various plans and programs approved under the conditions of this consent; • a complaints register, which is to be updated on a monthly basis; • minutes of CCC meetings; • the annual reviews (over the last 5 years); • any independent environmental audit, and the Applicant's response to the recommendations in any audit; • any other matter required by the Planning Secretary; and (b) keep this information up to date, to the satisfaction of the Planning Secretary	EMM general audit team	Ravensworth Operations website.	The information outlined in this condition is available on the Ravensworth Operations website.	Compliant	

A.2 Development Consent DA 104/96

Table A.2 - Development Consent DA 104/96

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
SCHEDULE 2 - ADMINISTRATIVE CONDITIONS						
OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT						
1	The Applicant must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the development.	EMM general audit team	Site inspection and interview. Annual reviews for 2021, 2022, 2023	The Ravensworth Complex is implementing all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation or rehabilitation of the development. EMM did not note any permanent or material environmental harm during the site inspection.	Compliant	
TERMS OF APPROVAL						
2	The Applicant must carry out the development generally in accordance with the: (a) EAs; (b) EA (Mod 9), Modification Report (MOD 10) and the Development Layout Plans in Appendix 2; (c) statement of commitments; and (d) conditions of this consent. *Notes:* *• The general layout of the development is shown in Appendix 2.* *• The statement of commitments is reproduced in Appendix 3.* *• The EAs are listed in Appendix 4.*	EMM general audit team	Annual reviews for 2021, 2022, 2023. EA, EA (Mod 9), Modification Report (MOD 10) Development Layout Plans in Appendix 2; Statement of commitments	The development was carried out in accordance with the approvals and Statement of Commitments. The underground mine is currently in care and maintenance and there were no mining operations undertaken during the audit period.	Compliant	
3	If there is any inconsistency between the above documents, the most recent document must prevail to the extent of the inconsistency. However, the conditions of this consent prevails to the extent of any inconsistency.	EMM general audit team	Current approved management plans. Secretary's approval of the management plans.	This is a general condition. Ravensworth Operations is aware that the most recent documents prevail and that the conditions of the consent prevail to the extent of any inconsistency.	Compliant	
4	The Applicant must comply with any reasonable requirement/s of the Planning Secretary arising from the Department's assessment of: (a) any reports, strategies, plans, programs, reviews, audits or correspondence that are submitted by the Applicant in accordance with this consent; and (b) the implementation of any actions or measures contained in these documents.	EMM general audit team	Site inspection and interview	No requests were received from the Secretary during the audit period.	Not triggered	
LIMITS ON APPROVAL						
5	Mining operations under this approval may take place on the site until 31 July 2024 except for mining operations undertaken generally in accordance with Modification Report (MOD 10) which may take place until 31 December 2032. *Note: Under this consent, the Applicant is required to rehabilitate the site and perform additional undertakings to the satisfaction of either the Planning Secretary. Consequently this consent will continue to apply in all other respects other than the right to conduct mining operations until the rehabilitation of the site and these additional undertakings have been carried out satisfactorily.*	EMM general audit team	Annual reviews for 2021, 2022 and 2023. Rehabilitation Management Plan and Forward Work Plan	The Audit period is prior to 31 December 2032. The mine is in care and maintenance and no mining has occurred during the audit period. Rehabilitation is being undertaken progressively to ensure post mining operations the site is on target to meet rehabilitation objectives.	Compliant	
6	The Applicant must not extract more than 7 million tonnes of ROM coal from the Ravensworth Underground Mine in a calendar year.	EMM general audit team	Annual reviews for 2021, 2022 and 2023	As reported in the Annual Reviews, no coal was extracted during the audit period	Compliant	
STRUCTURAL ADEQUACY						
7	The Applicant must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structure, that are part of the development are constructed in accordance with: (a) the relevant requirements of the BCA; and (b) any additional requirements of SA NSW where the building or structure is located on land within a declared Mine Subsidence District. *Notes:* *• Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works.* *• Part 8 of the EP&A Regulation sets out the requirements for the certification of the development.*	EMM general audit team	Annual reviews for 2021, 2022, 2023 Site inspection and interviews.	The following construction was completed during the audit period: - 2021: the Orica explosives compound was relocated due to progression of mining. - 2022: new magazine yard ahead of progression of mining and commenced the new mine access road. - 2023: new mine access road. All construction was conducted in accordance with the consent condition.	Compliant	
DEMOLITION						
8	The Applicant must ensure that all demolition work is carried out in accordance with AS 2601-2001: The Demolition of Structures, or its latest version.	EMM general audit team	Site inspection and interviews. Annual reviews for 2021, 2022, 2023 Executed Contract RUM-002 CV203 Demolition Risk Assessment Demolition Package RA Presentation Notice of de-energisation clearance for demolition - CV-0203 signed	The mine closure project for RUM commenced in 2022. As a result, there were numerous structures demolished during the audit period including redundant structures at RUM and the CHPP.	Compliant	
OPERATION OF PLANT AND EQUIPMENT						
9	The Applicant must ensure that all plant and equipment used at the site is: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	EMM general audit team	Weekly and annual maintenance plans Service records: TR564 Service WO, GR1107 Service WO, DZ827 Service WO Calibration certificates: 45 D1 20230405 10M, 45 D2 20230303 10M, 46 Noise Maint 20230817, SW 20240214, GW 20240215	Due to RUM being in care and maintenance since 2014, minimal plant and equipment is used on site. EMM sighted examples of regular maintenance reports for plant and equipment. And examples of calibration certificates. Ravensworth Operation implement weekly and annual maintenance plans for all equipment and machinery. Equipment and machinery is typically maintained based on hours operated.	Compliant	
MANAGEMENT STRATEGIES, PLANS, PROGRAMS, ETC						
10	With the approval of the Planning Secretary, the Applicant may integrate any strategy, plan, program, report, review or audit required by this consent with any similar strategy, plan, program, report, review or audit for other components of the Ravensworth mine complex and the Ashton Mine Complex as approved under DA 309-11-2001-i and its subsequent modifications.	EMM general audit team	Management Plans.	Ravensworth Operations operates under integrated management plans. The integration of these management plans occurred outside of the IEA period.	Not triggered	
11	With the approval of the Planning Secretary, the Applicant may submit any strategy, plan or program required by this consent on a progressive basis. *Notes:* *• While any strategy, plan or program may be submitted on a progressive basis, the Applicant will need to ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times.* *• If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.*	EMM general audit team	Management plans and DPHI approval of management plans.	There were no strategies, plans or programs submitted on a progressive basis during the audit period	Not triggered	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
COMMUNITY ENHANCEMENT						
12	By the end of December 2013, the Applicant must pay Council an additional financial contribution toward community enhancement of $152,299.40. *Note: The original consent for the development required the Applicant to contribute $900 for each of the estimated 153 employees (i.e. a total contribution of $137,700). The additional contribution reflects the additional employees at the mine over-and-above the original estimate (i.e. a total of 264 employees, or 111 more than originally estimated), with the contribution amount increased according to CPI (i.e. $1,372.07 for each additional employee)*	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
SCHEDULE 3 - ENVIRONMENTAL PERFORMANCE CONDITIONS						
SUBSIDENCE						
Performance Measures - Natural and Heritage Features						
1	The Applicant must ensure that the development does not cause any exceedances of the performance measures in Table 1, to the satisfaction of the Planning Secretary. *Table 1: Subsidence Impact Performance Measures* ***Watercourses*** Bowmans Creek and Bayswater Creek — No greater subsidence impact or environmental consequences than predicted in the EAs Bowmans Creek and Bayswater Creek alluvium — No greater subsidence impact or environmental consequences than predicted in the EAs Hunter River and its alluvium — Negligible environmental consequences ***Biodiversity*** Threatened species, threatened populations, or endangered ecological communities — Negligible environmental consequences ***Heritage*** Aboriginal heritage sites — No greater subsidence impact or environmental consequences than approved under a permit issued under section 90 of the *National Parks and Wildlife Act 1974* *Notes:* *• The Applicant will be required to define more detailed performance indicators for each of these performance measures in the various management plans that are required under this consent (see condition 6 below).* *• The requirements of this condition only apply to the impacts and consequences of mining operations undertaken following the date of approval of modification 9.* *• Any breach of this condition is taken to be breach of this consent, and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation, notwithstanding that offsets may be agreed or implemented under condition 2 below.*	EMM general audit team	Annual Reviews for 2021, 2022, 2023.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
2	If the Applicant exceeds the performance measures in Table 1 and the Planning Secretary determines that: (a) it is not reasonable or feasible to remediate the impact or environmental consequence; or (b) remediation measures implemented by the Applicant have failed to satisfactorily remediate the impact or environmental consequence; then the Applicant must provide a suitable offset to compensate for the impact or environmental consequence, to the satisfaction of the Planning Secretary. *Note: Any offset required under this condition must be proportionate with the significance of the impact or environmental consequence.*	EMM general audit team	Annual Reviews for 2021, 2022, 2023.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Performance Measures - Built Features						
3	The Applicant must ensure that the development does not cause any exceedances of the performance measures in Table 2, to the satisfaction of the Planning Secretary *Table 2: Subsidence Impact Performance Measures* ***Built features*** Key public infrastructure: • New England Highway; • Main Northern Railway — Always safe and serviceable. Any damage that does not affect safety or serviceability must be fully repairable, and must be fully repaired. Lemington Road/ Brunkers Lane — Always safe. Serviceability should be maintained wherever practicable. Loss of serviceability must be fully compensated. Damage must be fully repaired or replaced, or else fully compensated. Other public infrastructure (including dams and voids; roads and tracks; active mining areas and infrastructure; electricity transmission lines; gas pipelines; telecommunications networks and fibre optic cables; water supply pipelines, etc.) — Always safe. Serviceability should be maintained wherever practicable. Loss of serviceability must be fully compensated. Damage must be fully repaired or replaced, or else fully compensated. Houses, industrial premises, swimming pools, farm dams and other built features or improvements ***Public safety*** Public safety — Negligible additional risk *Notes:* *• The Applicant will be required to define more detailed performance indicators for each of these performance measures in the Built Features Management Plan (see condition 6 below).* *• The requirements of this condition only apply to the impacts and consequences of mining operations undertaken following the date of approval of modification 9.* *• Requirements regarding "safe" or "serviceable" do not prevent preventative or mitigatory actions being taken prior to or during mining in order to achieve or maintain these outcomes.* *• Any breach of this condition is taken to be breach of this consent, and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.* *• Compensation required under this condition includes any compensation payable under the Mine Subsidence Compensation Act 1961 and/or the Mining Act 1992.*	EMM general audit team	Annual Reviews for 2021, 2022, 2023.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
4	Any dispute between the Applicant and the owner of any built feature over the interpretation, application or implementation of the performance measures in Table 2 is to be settled by the Planning Secretary. The Planning Secretary may seek the advice of SA NSW on the matter. Any decision by the Planning Secretary must be final and not subject to further dispute resolution under this consent.	EMM general audit team	Annual Reviews for 2021, 2022, 2023.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
First Workings						
5	The Applicant may carry out first workings generally in accordance with the mine layout proposed in the EAs, EA (Mod 9) and the Modification Report MOD 10, provided that the Resources Regulator is satisfied that the first workings are designed to remain stable and non-subsiding, except insofar as they may be impacted by approved second workings. *Note: The intent of this condition is not to require an additional approval for first workings, but to ensure that first workings are built to geotechnical and engineering standards sufficient to ensure long term stability, with zero resulting subsidence impacts.*	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Extraction Plan						
6	The Applicant must prepare and implement an Extraction Plan for any second workings on site, to the satisfaction of the Planning Secretary. The plan must: (a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Planning Secretary; (b) be approved by the Planning 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 any associated surface development; (d) include detailed performance indicators for each of the performance measures in Tables 1 and 2; (e) provide revised predictions of the conventional and non-conventional subsidence effects, subsidence impacts and environmental consequences of the proposed second workings, incorporating any relevant information obtained since the approval of modification 9; (f) describe the measures that would be implemented to: • ensure compliance with the performance measures in Tables 1 and 2; and • manage or remediate subsidence impacts and/or environmental consequences; (g) include a contingency plan that expressly provides for adaptive management where monitoring indicates that there has been an exceedance of any performance measure in Tables 1 and 2, or where any such exceedance appears likely; (h) include the following in consultation with the Resources Regulator: • a Subsidence Monitoring Program to: o provide data to assist with the management of the risks associated with subsidence; o validate the subsidence predictions; o analyse the relationship between the predicted and resulting subsidence effects and predicted and resulting impacts under the plan and any ensuing environmental consequences; and o inform the contingency plan and adaptive management process; • a Coal Resource Recovery Plan that demonstrates effective recovery of the available resource; • a Built Features Management Plan, which has been prepared in consultation with Dams Safety NSW, TfNSW and the owners of potentially affected features, which: o includes measures to manage the potential impacts and consequences of subsidence on any built features; and o includes provisions for reviewing the final terminating position of longwalls close to the New England Highway in response to subsidence monitoring; • a Public Safety Management Plan to ensure public safety in the mining area; and • appropriate revisions to the Rehabilitation Management Plan required under the project approval for the Ravensworth Operations Project (MP 09_0176); (i) include a: • Water Management Plan, which has been prepared in consultation with DPE Water, which provides for the management of the potential impacts and/or environmental consequences of the proposed second workings on surface water resources, groundwater resources and flooding, and which includes:	EMM general audit team	Extraction Plan.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Payment of Reasonable Costs						
7	The Applicant must pay all reasonable costs incurred by the Department to engage suitably qualified, experienced and independent experts to review the adequacy of any aspect of an Extraction Plan submitted for approval.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
SURFACE INFRASTRUCTURE MANAGEMENT						
Gas Drainage						
8	The Applicant must ensure that all gas drainage pipelines (other than connection points, monitoring points, dewatering facilities, regulation or isolation points) between gas drainage plants are buried, unless otherwise agreed with the relevant landowner or unless burial is inappropriate for safety or other reasons, to the satisfaction of the Planning Secretary.	EMM general audit team	Site inspection and interview.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No gas drainage pipelines were installed during the IEA period.	Not triggered	
9	The Applicant must prepare and implement a Gas Drainage Management Plan in respect of construction and use of future gas drainage and ventilation infrastructure (i.e. for any gas drainage not subject to approval at the date of approval of modification 9) to the satisfaction of the Planning Secretary. This plan must be submitted to the Planning Secretary for approval prior to the construction of any future gas drainage and ventilation infrastructure and must include details of the Applicant's commitments regarding: (a) community consultation; (b) landholder agreements; (c) assessment of noise, air quality, traffic, biodiversity, heritage, public safety and other impacts in accordance with approved methods; (d) avoidance of significant impacts and minimisation of impacts generally; (e) beneficial re-use or flaring of drained hydrocarbon gases, wherever practicable; (f) achievement of applicable standards and goals; (g) mitigation and/or compensation for significant noise, air quality and visual impacts (including minimising visibility of infrastructure from the New England Highway); and (h) rehabilitation of disturbed sites.	EMM general audit team	Site inspection and interview.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. Therefore, there has been no construction and use of future gas drainage and ventilation infrastructure during the IEA period.	Not triggered	
Service Boreholes						
10	The Applicant must prepare and implement a Service Boreholes Management Plan in respect of construction and use of future service boreholes (i.e. any service boreholes not subject to approval at the date of approval of modification 9) to the satisfaction of the Planning Secretary. This plan must be submitted to the Planning Secretary for approval prior to the construction of any future service borehole and must include details of the Applicant's commitments regarding: (a) community consultation; (b) landholder agreements; (c) assessment of noise, air quality, traffic, biodiversity, heritage, public safety and other impacts in accordance with approved methods; (d) avoidance of significant impacts and minimisation of impacts generally; (e) achievement of applicable standards and goals; (f) mitigation and/or compensation for significant noise, air quality and visual impacts (including minimising visibility of infrastructure from the New England Highway); and (g) rehabilitation of disturbed sites.	EMM general audit team	Site inspection and interview.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. Therefore, there has been no construction and use of future service boreholes during the IEA period.	Not triggered	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Personal Emergency Device (PED) Communications						
11	The Applicant must prepare and implement a PED Communications Management Plan in respect of construction and use of future PED communications infrastructure (i.e. for any PED communications infrastructure not subject to approval at the date of approval of modification 9) to the satisfaction of the Planning Secretary. This plan must be submitted to the Planning Secretary for approval prior to the construction of any future PED communications infrastructure and must include details of the Applicant's commitments regarding: (a) community consultation; (b) landholder agreements; (c) assessment of noise, air quality, traffic, biodiversity, heritage, public safety and other impacts in accordance with approved methods; (d) avoidance of significant impacts and minimisation of impacts generally; (e) achievement of applicable standards and goals; (f) mitigation and/or compensation for significant noise, air quality and visual impacts (including minimising visibility of infrastructure from the New England Highway); and (g) rehabilitation of disturbed sites.	EMM general audit team	Site inspection and interview.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. Therefore, there has been no construction and use of future PED communications infrastructure during the IEA period.	Not triggered	
NOISE						
Noise Criteria						
12	The Applicant must ensure that the noise generated by the development does not exceed the criteria in Table 3 at any residence on privately-owned land or on more than 25 per cent of any privately-owned land. *Table 3: Noise Criteria dB(A)* **Receiver** — Day ($L_{Aeq\ (15min)}$): Any residence on any privately owned land: 35 Evening ($L_{Aeq\ (15min)}$): 35 Night ($L_{Aeq\ (15min)}$): 35 Night ($L_{A1\ (1\ min)}$): 45 *Note: Noise generated by the development is to be measured in accordance with the relevant requirements, and exemptions (including certain meteorological conditions), of the NSW Industrial Noise Policy.* However, these noise criteria do not apply if the Applicant has an agreement with the relevant owner/s of these residences/land to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.	EMM Noise auditing team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports Annual reviews	Site complied with noise criteria during all attended noise monitoring.	Compliant	
Operating Conditions						
13	The Applicant must: (a) implement best practice noise management, including all reasonable and feasible noise mitigation measures to minimise the noise generated by the development; (b) regularly assess the meteorological data and relocate, modify and/or suspend operations to ensure compliance with the relevant conditions of this approval; and (c) co-ordinate the noise management on site with the noise management at nearby mines, including the Ravensworth Operations Project, to minimise the cumulative noise impacts of the mines, to the satisfaction of the Planning Secretary.	EMM Noise auditing team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports Annual reviews	Noise management has been effective, as demonstrated through an absence of noise complaints or potential exceedances of noise limits. **Recommendation 2:** With regard to condition (b) regarding assessment of real-time noise monitoring data, only the total LAeq real-time noise descriptor has been assessed and compared to attended monitoring results. To be in line with best practice, we recommend 1. The real-time total LAeq < 1 kHz be compared to the attended cumulative/all mines LAeq 2. The real-time directional ("POI") contribution for Ravensworth, where available, be compared to the attended site-only LAeq contribution for Ravensworth	Compliant	
Noise Management Plan						
14	The Applicant must prepare and implement a Noise Management Plan for the development to the satisfaction of the Planning Secretary. This plan must: (a) be submitted to the Planning Secretary for approval by the end of October 2013; (b) describe the noise mitigation measures that would be implemented to ensure compliance with the relevant conditions of this approval; and (c) include a noise monitoring program that includes a protocol for determining exceedances of the relevant conditions of this approval; and (d) include a protocol that has been prepared in consultation with the owners of nearby mines to minimise the cumulative noise impacts of the mines.	EMM Noise auditing team	Noise Management Plan (NMP) (RAV SD PLN 0062) NMP DPHI approval letter Monthly noise reports EPL Noise Assessment Reports	The NMP currently in place at Ravensworth Operations is dated 2018. A revised NMP has been submitted to DPHI and is awaiting approval. a) The 2018 NMP was approved by DPHI on 10 September 2018. b) Noise management controls are discussed in Section 5 c) Noise monitoring is outlined in Section 6 d) Cumulative noise impacts are discussed in Section 5.2.1. Cumulative criteria is set out in Section 4.3.	Compliant	
AIR QUALITY & GREENHOUSE GAS						
Odour						
15	The Applicant must ensure that no offensive odours are emitted from the site, as defined under the POEO Act, unless otherwise authorised by an EPL.	EMM Air quality auditing team	Annual reviews for 2021, 2022 & 2023. Complaints register for 2021, 2022, 2023 & 2024 (until June).	No complaints regarding odour were received during the audit period.	Compliant	
Greenhouse Gas Emissions						
16	The Applicant must implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site to the satisfaction of the Planning Secretary. *Note: This condition does not extend to Scope 3 emissions, as defined in the National Greenhouse Energy Reporting Guidelines.*	EMM Air quality auditing team	AQGHGMP. The 2021, 2022 and 2023 Annual Reviews provide a summary of GHG emissions in Table 6-12.	The AQGHGMP lists the following measures (Section 4.4): - Optimising haulage routes to minimise distances travelled between pit and out of pit dumps. - Minimise the re-handling of material (i.e. waste and coal). - Maintain the fleet in good operating order. - Reviewing energy efficiency of site wide amenities and equipment. - Monitoring and measuring activities and emissions sources. 2021, 2022 and 2023 Annual Reviews provide a summary of GHG emissions.	Compliant	
Operating Conditions						
17	The Applicant must: (a) implement best practice air quality management, including all reasonable and feasible measures to minimise off-site odour, fume and dust emissions generated by the development, including those generated by any spontaneous combustion; (b) minimise any visible off-site air pollution generated by the development; (c) regularly assess meteorological forecasting data and relocate, modify and/or suspend operations to ensure compliance with the relevant conditions of this approval; and (d) co-ordinate air quality management on site with the air quality management at nearby mines, including the Ravensworth Operations Project to minimise the cumulative air quality impacts of the mines, to the satisfaction of the Planning Secretary.	EMM Air quality auditing team	AQGHGMP. Annual Reviews for 2021, 2022 & 2023 Complaints register for 2021, 2022, 2023 & 2024 (until June). Site inspection.	Mitigation measures are detailed in the AQGHGMP and Annual Review reports. Monitoring data analysed in Annual Review reports. The following was noted from the site visit: - enclosed conveyors - water carts and active management of dust - 'real-time dust monitoring' allowing real-time response to air quality alarms - Ravensworth Complex meteorological forecasting.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Air Quality and Greenhouse Gas Management Plan						
18	The Applicant must prepare and implement an Air Quality and Greenhouse Gas Management Plan for the development to the satisfaction of the Planning Secretary. This plan must: (a) be submitted to the Planning Secretary for approval by the end of October 2013; (b) describe the measures that would be implemented to ensure compliance with the relevant conditions of this approval; (c) include an air quality monitoring program that includes a protocol for determining exceedances of the relevant conditions of this approval; and (d) include a protocol that has been prepared in consultation with the owners of nearby mines to minimise the cumulative air quality impacts of the mines.	EMM Air quality auditing team	AQGHGMP. Annual Reviews for 2021, 2022 & 2023. Monthly Environmental Report (Jan - May 2024). Site inspection.	AQGHGMP prepared with relevant sections including AQ monitoring program and equipment, protocol for determining exceedances, and cumulative air quality management protocol.	Compliant	
19	During the life of the project, the Applicant must ensure that there is a suitable meteorological station in the vicinity of the site that: (a) complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline; and (b) is capable of continuous real-time measurement of temperature lapse rate in accordance with the NSW Industrial Noise Policy, or as otherwise approved by EPA.	EMM Air quality auditing team	AQGHGMP. Met data provided for audit period. Site inspection.	Site inspection confirmed meteorological station working. Measured sigma-theta data from the meteorological data is used to determine stability in regard to temperature inversions. Temperature is also measured at 10m and 60m and can be used to calculate temperature lapse rate.	Compliant	
SOIL & WATER						
Water Supply						
20	The Applicant must ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of mining operations to match its available water supply, to the satisfaction of the Planning Secretary. *Note: The Applicant is required to obtain all necessary water licences and approvals for the development under the Water Act 1912 and/or Water Management Act 2000.*	EMM general audit team	Annual reviews for 2021, 2022, 2023. Site inspection and interviews.	A water balance was reported as part of the Annual Reviews. In 2021 and 2022, a surplus of water was reported due to 90th percentile rainfall year. In 2023, there was a water balance error of approximately 2% deficit, which is well within the acceptable limit. The minor balance error is likely attributed to estimated or calculated water streams where exact monitoring is impracticable (e.g. groundwater inflow calculations, runoff estimates, etc.). A number of flow meters are installed across Ravensworth Operation (both permanent and temporary). The data from the flow meters is used to report on water sourced and used onsite using the Water Accounting Framework (WAF) and is reported to GCAA on a monthly basis.	Compliant	
Compensatory Water Supply						
21	The Applicant must provide compensatory water supply to any landowner of privately-owned land whose basic landholder rights are adversely and directly impacted (other than an impact that is negligible) as a result of the development, in consultation with DPE Water, NRAR and to the satisfaction of the Planning Secretary. The compensatory water supply measures must provide an alternative long-term supply of water that inequivalent to the loss attributed to the development. Equivalent water supply should be provided (at least on an interim basis) within 24 hours of the loss being identified. If the Applicant and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Planning Secretary for resolution. If the Applicant is unable to provide an alternative long-term supply of water, then the Applicant must provide alternative compensation to the satisfaction of the Planning Secretary.	EMM general audit team	N/A	No compensatory water was supplied during the audit period.	Not triggered	
Surface Water Discharges						
22	The Applicant must ensure that all surface water discharges from the site comply with the discharge limits (both volume and quality) set for the project in any EPL; or relevant provisions of the POEO Act or Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002.	EMM general audit team	N/A	There were no water discharges associated with RUM.	Not triggered	
Water Management Plan						
23	The Applicant must prepare and implement a Water Management Plan for the development to the satisfaction of the Planning Secretary. This plan must be prepared in consultation with DPE Water, and be submitted to the Planning Secretary for approval by the end of October 2013. The plan must include: (a) a Site Water Balance, which must: • include details of: o sources and security of water supply; o water use on site; o water management on site; o any off-site water transfers; and • investigate and implement all reasonable and feasible measures to minimise water use by the development; (b) an Erosion and Sediment Control Plan, which must: • identify activities that could cause soil erosion, generate sediment or affect flooding; • describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters, and manage flood risk; • describe the location, function, and capacity of erosion and sediment control structures and flood management structures; and • describe what measures would be implemented to maintain the structures over time; (c) a Surface Water Management Plan, which must include: • detailed baseline data on surface water flows and quality in creeks and other waterbodies that could potentially be affected by the development; • surface water and stream health impact assessment criteria including trigger levels for investigating any potentially adverse surface water impacts; • a program to monitor and assess: o surface water flows and quality; o impacts on water users; o stream health; and o channel stability; (d) a Groundwater Management Plan, which must include: • detailed baseline data of groundwater levels, yield and quality in the region, and privately owned groundwater bores, that could be affected by the development; • groundwater impact assessment criteria including trigger levels for investigating any potentially adverse groundwater impacts; • a program to monitor and assess:	EMM general audit team	Water Management Plan DPHI approval of WMP on 9 February 2024. Site inspection and interviews.	The 2024 version of the Water Management Plan (WMP) (RAVOC-1007099517-67) can be found on the Ravensworth Operations website. Approval of the WMP was received from DPHI on 9 February 2024. The previous version of the WMP (RAVCX-307024981-4592) was approved by the Secretary in 2019. a) A water balance is located in Section 4 of the WMP and includes details of the sources and security of water supply, water demands and losses, water efficiency, water transfer and disposal, future water balance, and annual water balance. b) An Erosion and Sediment Control Design Construction Matrix and Drawings of Typical Erosion and Sediment control Structures is attached as Appendix C of the WMP. Erosion and sediment control is also discussed in Section 5 and Section 8 of the WMP. All requirements listed in the consent are included in these sections/attachments. c) a Surface Water Management Plan is attached as Appendix D and discussed in Section 6.1 of the WMP. All requirements listed in the consent are included in these sections/attachments. d) a Groundwater Management Plan is attached as Appendix E and discussed in Section 6.3 of the WMP. All requirements listed in the consent are included in these sections/attachments. e) a Surface and Ground Water Response Plan is detailed in Section 7 (TARP) of the WMP. Compensation is discussed in Section 6.4 of the WMP. EMM inspected numerous dams and water management infrastructure during the site inspection including the Highway Dam, Office Dam, groundwater monitoring sites.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
	o groundwater inflows to the mining operations; o impacts on regional aquifers; o impacts on the groundwater supply of potentially affected landowners; o impacts on the Hunter River, Bayswater Creek and Bowmans Creek alluvial aquifers; and o impacts on any groundwater dependent ecosystems and riparian vegetation; (e) a Surface and Ground Water Response Plan, which must include: • a response protocol for any exceedances of the surface water and groundwater assessment criteria; • measures to prevent, minimise or offset groundwater leakage from alluvial aquifers caused by the development, particularly when mining within 150 metres of any such alluvials; • measures to compensate landowners of privately-owned land whose basic landholder rights is adversely affected by the development; and • measures to mitigate and/or offset any adverse impacts on groundwater dependent ecosystems or riparian vegetation.					
TRANSPORT						
Road Maintenance						
24	The Applicant must pay Council an annual road maintenance contribution of $5,030.91, to be adjusted annually in accordance with movements in the CPI.	EMM general audit team	Site interview VPA payments: Paymentadvices_20240514024558.889_X Paymentadvices_20240514024629.923_X	EMM sighted 2 VPA payments to Singleton Council on 12/1/23 and 25/1/23. The VPAs are annual road contributions to Council.	Compliant	
Road Access						
25	Access to the development from the New England Highway for employee, service vehicles, and occasional heavy vehicles must be via Pikes Gully Road and not via the Old State Highway.	EMM general audit team	Site inspection and interviews.	All vehicle access occurs via New England Highway. As the mine is currently in care and maintenance, heavy vehicles are not required to enter the site vias Pikes Gully Road.	Compliant	
HERITAGE						
Aboriginal Cultural Heritage Management Plan						
26	The Applicant must prepare and implement an Aboriginal Cultural Heritage Management Plan for the project to the satisfaction of the Planning Secretary. This plan must: (a) be prepared in consultation with Heritage NSW, the Aboriginal community, and be submitted to the Planning Secretary for approval by the end of December 2013; (b) include a program/procedures for: • minimising disturbance to Aboriginal sites as far as is reasonable and feasible, particularly in relation to the RUM-OS1 site; • salvage, excavation and/or management of Aboriginal sites and potential archaeological deposits within the project disturbance area, including the RUM-OS1 site; • protection and monitoring of Aboriginal sites outside the project disturbance area, including provisions to protect the undisturbed portion of the RUM-OS1 site from activities associated with the development; • managing the discovery of any new Aboriginal objects or skeletal remains during the development; and • ongoing consultation and involvement of the Aboriginal communities in the conservation and management of Aboriginal cultural heritage on the site.	EMM general audit team	Aboriginal and Cultural Heritage Management Plan (2022) (RAVCX-1962359669-15). Approval of ACHMP on 28 November 2022.	a) The Aboriginal Cultural Heritage Management Plan (ACHMP) (2022) (RAVCX-1962359669-15) was prepared in consultation with the applicable stakeholders. The ACHMP was approved by the Secretary on 28 November 2022. b) - Minimising disturbance - Section 4. - Salvage, excavation and/or management - Section 4, 7 & 9. - Protection and monitoring of Aboriginal sites outside the project disturbance area - Section 4.8. - Discovery of any new Aboriginal objects or skeletal remains - Section 8.1 & 8.2. - Consultation and involvement of the Aboriginal communities - Section 5.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
REHABILITATION						
Rehabilitation Objectives						
27	The Applicant must rehabilitate the site in accordance with the provisions under the Mining Act 1992 and must be generally consistent with the proposed rehabilitation activities described in the documents listed in condition 2 of Schedule 2. This rehabilitation must comply with the objectives in Table 3. *Table 3: Rehabilitation Objectives* ***Feature*** — ***Objective*** Mine site (as a whole) — Safe, stable & non-polluting Surface infrastructure — To be decommissioned and removed, unless the Resources Regulator agrees otherwise Portals and vent shafts — To be decommissioned and made safe and stable. Retain habitat for threatened species (eg bats), where practicable Watercourses subject to subsidence impacts — Hydraulically and geomorphologically stable, with riparian vegetation that is the same or better than prior to mining Land to be restored or maintained for agricultural purposes — Restored and maintained to: • the same or higher land capability and agricultural suitability than prior to mining; and • a landform consistent with the surrounding environment, including no greater than minor changes to flooding characteristics or ponding. Other land — Restore ecosystem function, including maintaining or establishing self-sustaining eco-systems comprised of: • local native plant species (unless the Resources Regulator agrees otherwise); and • a landform consistent with the surrounding environment, including no greater than minor changes to flooding characteristics or ponding. Built features damaged by mining operations — Repair to pre-mining condition or equivalent unless: • the owner agrees otherwise; or • the 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 all subsidence impacts and environmental consequences caused by mining taking place after the date of approval of modification 9; and to all surface infrastructure part of the development, whether constructed prior to or following the date of this approval.* *• Rehabilitation of subsidence impacts and environmental consequences caused by mining which took place prior to the date of approval of modification 9 may be subject to the requirements of other approvals (eg under a mining lease or an Subsidence Management Plan approval) or the Applicant's commitments.* *• The Rehabilitation Management Plan, required under the approval for the Ravensworth Operations Project, must be prepared in a manner that is consistent with the rehabilitation objectives in Table 3.* *• Some aspects of the surface infrastructure associated with the development are used as shared infrastructure across the Ravensworth mine complex. As such, those items of surface infrastructure may be rehabilitated at closure of the Ravensworth Operations Project. This will be reflected in the relevant Rehabilitation Management Plans.*	Minesoils	Site inspection Ravensworth Complex Annual Rehabilitation Report 2023 Annual Review 2022, Section 8 Annual Review 2021, Section 8	a) Rehabilitation areas were inspected during the site visit. It is noted that rehabilitation is being undertaken progressively, confirmed by rehabilitation reporting in the Annual Reviews and the Annual Rehabilitation Reports. Rehabilitation Contractor timesheets and invoices were sighted during the site visit ensuring documented evidence of ongoing and progressive rehabilitation was being undertaken. These included TME - Ripping and seeding activities, Mayfield bulk push timesheet, ROC 2024 Rehabilitation schedule also sighted. The 2024 Rehabilitation Maintenance Records were sighted during the audit including: HCB WEA April Control of invasive grasses and areas treated; Toolijooa infill planting at Cumnock (Invoice sighted); Koru Environmental Annual monitoring report 2023; Internal inspection form and monthly schedule sighted with tasks included in the sites CMO database system; ERR Australia maintenance strategy for addressing weeds, erosion and extra planting requirements; and the internal Glencore Coal Rehabilitation Report Card process was also sighted.	Compliant	
				b) Whilst the achievement of rehabilitation outcomes condition is considered 'Not Triggered' - ongoing work in progress, it was observed through visual inspection and review of rehabilitation monitoring and maintenance reports that rehabilitation is generally on a trajectory for future compliance. This included areas at all stages of rehabilitation, from newly prepped and sown areas, to 'maintenance only' areas and areas requiring intervention through investigation, planning, and implementation including weed infested areas, erosion areas, potential spon com areas, and lack of species diversity or stem density areas. Ravensworth site has a recent history of successful, investigation, planning and re-working of rehabilitation areas where one of the aspects above had caused poor rehabilitation success. Current examples sighted onsite include: The 40ha of targeted re-work area on the WEA; Saligna Management program on the lower part of the Eastern emplacement; Approximately 16 ha of potential historical spon com area on the eastern emplacement that is currently under investigation/assessment through RGS technical memo on investigation options and risk assessment scheduled for August 2024; The steep rework areas on the Eastern Emplacement which did not obtain adequate strike of vegetation. The Auditor has confidence the rehabilitation program has adequate trouble shooting systems in place to ensure all areas of rehabilitation are being closely monitored and managed to ensure the rehabilitation into the future meets requirements. Landform design has integrated geomorphic concepts into existing contoured/simple slope designs, which appear in a stable condition. Evidence of significant erosion requiring intervention was minimal on site. The sites soil balance was sighted with options to be investigated are undertaken as part of closure planning. Final slopes were confirmed to be up to 14 degrees apart from minor geomorphic designed landform sections. Ground preparation included deep ripping along contours which further assisted in stabilising the surface material. There were no straight line drop structures with existing contours wrapping around to low grade drainage lines at the toe of the dumps. Rehabilitation areas were seen to generally have some weed presence with areas of treatment (spraying) indicating active management. Vegetation establishment appeared successful in the areas inspected. Where patches of vegetation were impacted by erosion, repair of this erosion and re-planting has been undertaken. There was diversity in target tree species with understorey and lower level shrubs to be targeted as rehabilitation develops. Soil stockpiles were <3m and signposted. Rehabilitation of stockpiles were observed to include a cover crop for short term and final rehabilitation species mix for longer term stockpiles, which is considered best practice.	Not triggered (ongoing work in progress)	
Progressive Rehabilitation						
28	The Applicant must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance.	Minesoils	Site inspection Ravensworth Complex Annual Rehabilitation Report 2023 Annual Review 2022, Section 8 Annual Review 2021, Section 8	Current RMP is available on the website, approved in August 2022 and reviewed in August 2023. RMP prepared in accordance with the Form and Way Rehabilitation Management Plan for Large Mines (Resources Regulator, 2021).	Compliant	
SCHEDULE 4 - ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING						
ENVIRONMENTAL MANAGEMENT						
Adaptive Management						
1	The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the performance measures or associated performance indicators and impact assessment criteria in schedule 3. 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. 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 (where relevant) 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 Planning Secretary, to the satisfaction of the Planning Secretary.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. There has been no mining during the IEA period. Therefore, there have been no exceedances of the RUM consent conditions.	Not triggered	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Annual Review						
2	By the end of March each year, the Applicant must review the environmental performance of the development to the satisfaction of the Planning Secretary. This review must: (a) describe the works (including any rehabilitation) that were carried out in the previous calendar year, and the works that are proposed to be carried out over the current calendar year; (b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against the: • relevant statutory requirements, limits or performance measures/criteria; • monitoring results of previous years; and • relevant predictions in the EAs; (c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance; (d) identify any trends in the monitoring data over the life of the development; (e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and (f) describe what measures will be implemented over the next year to improve the environmental performance of the development.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Ravensworth Operations website.	Annual Reviews for Ravensworth Operation were prepared for 2021, 2022 and 2023 and submitted to the Secretary for approval. a) Each Annual Review discusses operation and rehabilitation works completed and proposed in Section 4 and 8. b) Monitoring results, criteria and statutory requirements can be found in Section 6, 7, 8 and Appendices B - F. c) Non-compliances are discussed in Section 11. The 2021 IEA details the non-compliances identified in the previous IEA (RPS 2021). d) Monitoring data trends are found in Section 6, 7, 8 and Appendices B - F. e) A comparison against predictions are discussed for each environmental aspect in Section 6, 7 and 8 f) Measures to be implemented over the next year to improve environmental performance are discussed at the end of each section in Section 6, 7 and 8.	Compliant	
Revision of Strategies, Plans and Programs						
3	Within 3 months of: (a) the submission of an annual review under condition 2 above; (b) the submission of an incident report under condition 5 below; (c) the submission of an audit under condition 7 below; and (d) any modification to the conditions of this consent, the Applicant must review, and if necessary revise, the strategies, plans, and programs required under this consent to the satisfaction of the Planning Secretary. *Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the development.*	EMM general audit team	Letters to DPHI following submission of Annual Reviews. Letters to DPHI following environmental incidents. Letter to DPHI following submission of 2021 IEA. Letters to DPHI following MOD 4 to PA 09_0176 and MOD 10 to DA 104_96.	a) Ravensworth Operation notified DPHI on 30 May 2023 and 13 May 2024 following submission of the Annual Reviews. b) EMM sighted letters to DPHI following reportable incidents during the IEA period including air quality exceedances and water discharge events. c) Letter dated 21 July 2021 outlines the actions from the 2021 IEA including which management plans would be reviewed/revised. d) PA 09_0176 was modified for the 4th time on 15 May 2023. A letter was provided to DPHI on 15 August 2023 confirming the management plans had been reviewed/revised accordingly. DA 104_96 was modified for the 10th time on 6 July 2022. A letter was provided to DPHI on 21 September 2023 confirming the management plans had been reviewed/revised accordingly.	Compliant	
Community Consultative Committee						
4	The Applicant must operate a Community Consultative Committee (CCC) for the development to the satisfaction of the Planning Secretary. This CCC must be operated in accordance with the Department's Community Consultative Committee Guidelines: State Significant Development (2019), or its latest version. With the agreement of the CCC Chairs and the approval of the Planning Secretary, matters associated with the relevant parts of the Ashton Coal Project, as shown in Figures 4 and 5 of Appendix 2, may be dealt with by the Ravensworth Underground Mine CCC. *Notes:* *• The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent.* *• In accordance with the guideline, the Committee must include an independent chair and appropriate representation from the Applicant, Council, recognised environmental groups and the local community.* *• The CCC may be combined with any similar CCC for the Ravensworth Operations Project.*	EMM general audit team	Community Consultative Committee (CCC) meeting minutes. Ravensworth Operations website. *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (DPE 2023)	The Community Consultative Committee (CCC) meet on a quarterly basis with the meeting minutes published on the Ravensworth Operation website. The CCC operates generally in accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (DPE 2023). The CCC is independently chaired by Dr Wej Paradice. Additional CCC members include Cr Godfrey Adamthwaite (Singleton Council) and Patricia Bestic (community member). The CCC covers activities across the open cut, RUM and the CHPP.	Compliant	
REPORTING						
Incident Reporting						
5	The Applicant must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing via the Department's Major Projects Website and identify the development (including the development application number and name) and set out the location and nature of the incident.	EMM general audit team	Site interviews.	During the site interviews, Ravensworth Operations confirmed that they had immediately notified DPHI (and any other relevant agencies) after becoming aware of an incident via the Major Projects Website.	Compliant	
Non-Compliance Notification						
5A	Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing via the Department's Major Projects Website and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, why it does not comply and the reasons for the noncompliance (if known) and what actions have been, or will be, undertaken to address the non-compliance. *Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.*	EMM general audit team	Letter to DPHI following incidents.	EMM sighted letter to DPHI that were prepared within 7 days following reportable incidents including air quality exceedances and water discharge events.	Compliant	
Regular Reporting						
6	The Applicant must provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent. *Note: This website may be integrated with any similar website established for the Ravensworth mine complex*	EMM general audit team	Ravensworth Operations website.	EMM reviewed the website and can confirm that the information on the Ravensworth Operations website is up to date. The website includes quarterly environmental monitoring reports and the Annual reviews for the IEA period.	Compliant	
INDEPENDENT ENVIRONMENTAL AUDIT						
7	By the end of June 2015, and every 3 years thereafter, unless the Planning Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must: (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Planning Secretary; (b) include consultation with the relevant agencies; (c) assess the environmental performance of the development and assess whether it is complying with the requirements in this consent and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals); (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and, if appropriate (e) recommend measures or actions to improve the environmental performance of the development, and/or any strategy, plan or program required under these approvals. *Notes:* *• This audit team must be led by a suitably qualified auditor and include experts in subsidence and any other field specified by the Planning Secretary.* *• The audits should be coordinated with similar auditing requirements for the Ravensworth Operations Project.*	EMM general audit team	2021 Independent Environmental Audit (RPS)	The 2021 IEA was completed by RPS. a) The RPS audit team were suitably qualified, experienced and independent and were endorsed by the Secretary on 30 March 2021. This endorsement is attached as Appendix A to the 2021 IEA. b) Consultation is attached to the 2021 IEA as Appendix C. c) Appendix B of the 2021 IEA completes and audit of the conditions of consent, EPL and mining leases. d) Section 3 (Table 8) discusses the adequacy of approved strategies, plans or programs. e) A summary of non-compliance with recommendations are found in Section 6.1 (Table 11). Opportunities for improvement are found in Section 6.2 (Table 12).	Compliant	
8	Within 6 weeks of the completion of this audit, or as otherwise agreed by the Planning Secretary, the Applicant must submit a copy of the audit report to the Planning Secretary, together with its response to any recommendations contained in the audit report.	EMM general audit team	Letters submitting the 2021 IEA. Approval of the 2021 IEA from DPHI.	The 2021 IEA was submitted to DPHI on 27 July 2021. Additional information was requested from DPHI on 8 December 2021. The updated report was resubmitted to DPHI on 25 January 2022 and formally approved by DPHI on 2 February 2022. Following the 2021 IEA, Ravensworth prepared and submitted an action plan to DPHI detailing how they will address the non-compliances identified as part of the IEA. This has been uploaded to the Ravensworth Operations website.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ACCESS TO INFORMATION						
9	From 30 September 2013, the Applicant must: (a) make copies of the following publicly available on its website: • the EAs; • all current statutory approvals for the development; • all approved strategies, plans and programs required under the conditions of this consent; • a summary of the monitoring results of the development, which have been reported in accordance with the various plans and programs approved under the conditions of this consent; • a complaints register, updated on a monthly basis; • minutes of CCC meetings; • the annual reviews (over the last 5 years); • any independent environmental audit, and the Applicant's response to the recommendations in any audit; • any other matter required by the Planning Secretary; and (b) keep this information up-to-date, to the satisfaction of the Planning Secretary.	EMM general audit team	Ravensworth Operations website.	The information outlined in this condition is available on the Ravensworth Operations website.	Compliant	

A.3 PA 09_0176 Statement of Commitments

Table A.3 - PA 09_0176 Statement of Commitments

Environmental aspect	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
APPENDIX 3 - STATEMENT OF COMMITMENTS						
Production limits	6.3.1 The RCHPP will process up to 20 Mtpa of ROM coal per year incorporating ROM coal from the development and other operations including RUM, Cumnock Wash Plant Pit and other potential users.	EMM general audit team	Annual Reviews for 2021, 2022, 2023.	The annual processing limits were not exceeded during the IEA period. ROM coal: - 2021 - 12.9 Mt - 2022 - 13.5 Mt - 2023 - 13.2 Mt	Compliant	
	6.3.2 Up to 20 Mtpa will be loaded via the RCT loading facility, including coal from the development, RUM, Cumnock Wash Plant Pit, Muswellbrook Coal and potential other users.	EMM general audit team	Annual Reviews for 2021, 2022, 2023.	There were no exceedances of the 20 Mtpa of product coal loaded from RCHPP. - 2021 - 8,836,115.4 tonnes - 2022 - 9,369,836.1 tonnes - 2023 - 8,778,034 tonnes	Compliant	
Hours of operation	6.3.3 Mining and associated activities for the development may be undertaken 24 hours a day, seven days a week.	EMM general audit team	Annual reviews for 2021, 2022, 2023 Site inspection and interviews.	Ravensworth Operation operates 24 hours/day, 7 days/week.	Compliant	
	6.3.4 Construction will generally be undertaken during daylight hours. Construction activities may occur outside these hours when the Applicant is satisfied that such activities would meet relevant construction night-time noise criteria at the nearest private residences.	EMM general audit team	Annual reviews for 2021, 2022, 2023 Site inspection and interviews.	There were no noise complaints during the IEA period. The following construction was completed during the audit period: - 2021: the Orica explosives compound was relocated due to progression of mining. - 2022: new magazine yard ahead of progression of mining and commenced the new mine access road. - 2023: new mine access road. All construction was conducted in accordance with the consent condition and generally during daylight hours.	Compliant	
Refinement of Mine Plan	6.3.5 Any refinements to the concept mine plan outlined in the EA report will be detailed and assessed as part of Mining Operations Plans or other relevant process.	EMM general audit team	PA 09_0176 MOD 4.	MOD 4 to PA 09_0176 was approved in May 2023. This was the only modification during the IEA period. MOD 4 was for changes to the Greater Ravensworth Area Water and Tailings Scheme. MOD 4 did not result in any refinements to the concept mine plan.	Not triggered	
Product Delivery	6.3.6 Annual average and maximum daily train movements and tonnages, and tonnages of coal delivered locally by conveyor, will be reported in the Annual Review.	EMM general audit team	Annual Reviews for 2021, 2022, 2023.	The coal transportation limits were not exceeded during the audit period and the limit of the number of train movements was not exceeded during the audit period. The annual average and maximum daily train movements and tonnages, and tonnages of coal delivered locally by conveyor were reported in the Annual Reviews .	Compliant	
	6.3.7 No product coal will be transported from the development area by public road except in an emergency situation and with the prior agreement of the Director General.	EMM general audit team	Annual Reviews for 2021, 2022, 2023.	No coal was transported by road during the audit period.	Compliant	
Rail De-linking	6.3.8 Prior to commencing increased loadings at Ravensworth Coal Terminal (RCT) above 8 Mtpa, the Applicant without contribution to costs by Coal & Allied, will complete design and construction of all related works including rail commissioning that will affect the de-linking of the Newdell Loop and the Ravensworth Loop. The de-linking (parameters defined below) of the loops will achieve separate track lane access onto the mainline known as the Main Northern Railway Line, for each of the Newdell Loop and Ravensworth Loop. The de-linking will be implemented in accordance with all legal and approval requirements. The consent and approval of all relevant landowners, being ARTC and Macquarie Generation, will be obtained prior to undertaking the proposed rail works. The conceptual design for the rail de-link as shown on Figure 2.18 is the preferred option to complete the de-linking. If the preferred option for rail de-link is determined to be unachievable for reasons outside of the Applicant's control, then the Applicant will design, construct and implement an alternative option that will achieve the parameters defining an 'effective de-link', as outlined below. The parameters for an effective de-link are: • de-linking works to include the decommissioning of the existing rail that links the existing Ravensworth Loop to the existing bi-directional Newdell Line. • The de-linking of the Newdell Loop and the Ravensworth Loop will comprise design, construction and rail commissioning works to achieve separated track lane access onto the mainline known as the Main Northern Railway Line, for each of the Newdell Loop and the Ravensworth Loop. The re-linking of the separated Ravensworth Loop to the Main Northern Railway will occur on the mainline itself south of the Newdell Junction. • The de-linking of the Newdell Loop and the Ravensworth Loop works will be constructed and rail commissioned prior to RCT rail loadings exceeding 8 Mtpa.	EMM general audit team	N/A	Not triggered during the IEA period. The delink of the Ravensworth Loop from the Newdell Loop occurred in 2013.	Not triggered	
Service Relocations	6.3.9 Powerlines will be relocated without interruption of supply to Coal & Allied or Orica, except where interruption of supply has been agreed to by Coal & Allied or Orica and the relevant service provider.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
Orica Plant	6.3.10 As described in Section 5.5.8.1 the protective pillar beneath the Orica explosives plant will be retained to ensure continuous safe operation of the site.	EMM general audit team	Annual Reviews for 2021, 2022, 2023.	In 2021, the Orica explosives compound was relocated due to progression of mining.	Compliant	
Closure and rehabilitation	6.4.1 A detailed mine closure plan will be developed for the development and submitted to the Planning Secretary for approval at least five years prior to anticipated mine closure, in accordance with XCN standards for mine closure. The plan will be prepared in consultation with relevant stakeholders including the Department, the Resources Regulator, Singleton Council, other relevant government agencies as agreed with the Department, and the local community.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
	6.4.2 The rehabilitation strategy for the development will be integrated with the proposed Biodiversity Management Plan for the development through creating extensive areas of woodland within rehabilitated areas associated with the development that target the following vegetation communities: • Central Hunter Box-Ironbark Woodland; • Central Hunter Swamp Oak Forest; • Central Hunter Bulloak Forest Regeneration; and • Grassland.	Minesoils	Rehabilitation Management Plan	The current Biodiversity Offset Management Plan Section 4.8.1 details the vegetation communities of the Ravensworth operations and biodiversity offset areas. Site inspection confirmed extensive areas of woodland or woodland development throughout the rehabilitated areas, with species associated with the target vegetation communities.	Compliant	
	6.4.3 The Applicant will re-establish Emu Creek within the rehabilitated landscape. The reinstated Emu Creek will be designed in accordance with relevant guidelines and in consultation with the NSW Office of Water (DPE Water). The reinstated Emu Creek will be re-established within a suitable substrate within the rehabilitated landform and will resemble a natural creek system with native vegetation planted along the drainage channels as part of the rehabilitation, to maximise the long term stability of the drainage system and to enhance the in-stream and riparian habitat created. The detailed design of the proposed reinstatement of Emu Creek will be undertaken in accordance with all relevant approvals from DPE Water.	Minesoils	Rehabilitation Management Plan	The current Rehabilitation Management Plan does address Emu Creek in the Landform Establishment Section, specifically Section 6.2.3.1. Currently mining through Emu Creek, it is noted that there is no catchment above, and the creek will be re-instated post mining.	Not triggered	
	6.4.4 Recovery and management of any topsoil will be undertaken in accordance with the controls provided in Section 5.1.1.5.	Minesoils	Rehabilitation Management Plan	Topsoil recovery and management is also addressed in the RMP in Sections 6.2.1.1, 6.2.1.14, 6.2.4, 6.2.5, and in the Ravensworth Operations Topsoiling Protocol.	Compliant	

Environmental aspect	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Air Quality	6.5.1 Measures to minimise dust emissions from the development such as enclosures on top of overland conveyors, spray systems for permanent coal stockpiles, progressive site rehabilitation and revegetation, and haul road dust suppression will be included in the development design.	EMM Air quality audit team	AQGHGMP. Annual reviews for 2021, 2022 & 2023. Site inspection.	The AQGHGMP includes a list of design and operational controls in Section 3.4, which includes a range of dust control measures. Section 8.1 of the Annual Reviews provides status updates of the progressive rehabilitation across the site. The site inspection noted the following measures in place: - conveyer systems fully enclosed - spray systems for permanent coal stockpiles - progressive site rehabilitation - water carts used along haul routes to keep moist when needed.	Compliant	
	6.5.2 The development will progressively rehabilitate disturbed areas, including the use of temporary rehabilitation on disturbed areas as appropriate to limit the potential for wind blown dust.	EMM Air quality audit team	AQGHGMP. Annual reviews for 2021, 2022 & 2023.	Section 3.4 of the AQGHGMP outlines progressive site rehabilitation will be undertaken. A status of rehabilitation progress is provided in Section 8.1 of the Annual Reviews.	Compliant	
	6.5.3 The Applicant will implement a range of dust controls as part of the development, including: • watering of active mining areas and haul roads that are subject to frequent vehicle movements; • all drill rigs will be equipped with dust control systems and be regularly maintained for effective use. These controls may include a combination of dust extractors, dust curtains, water injection systems and extraction systems; • automatic sprays fitted to the dump hopper to minimise dust from coal processing activities; • minimising the area of disturbance by restricting vegetation clearing ahead of mining operations and rehabilitating mine spoil dumps as soon as practicable after mining; • restricting blasting activities to acceptable wind speed and direction periods; and • use of real-time air quality monitor/s (TEOM) incorporating automatic alarms that will enable mine operators to take a proactive approach to minimising dust impacts by modifying operations when monitoring indicates that dust levels in the surrounding area are approaching relevant criteria.	EMM Air quality audit team	AQGHGMP. Site inspection. Blast schedule email.	The AQGHGMP (Section 3.4) includes a range of dust control measures. The site inspection noted the following measures in place: - water carts used along haul routes to keep moist when needed - drill rigs are fitted with dust curtains/water injection systems - automatic sprays for the dump hopper - progressive rehabilitation of land Evidence of operational blast re-scheduling due to wind conditions was provided for the audit period. Section 3.5 of the AQGHGMP includes proactive AQ management practices and includes a Trigger Action Response Plan (TARP) which incorporates the use of visual monitoring, real-time AQ monitors (TEOMs) and meteorological monitoring. Evidence of the alarm response being used was provided for the audit period.	Compliant	
	6.5.4 The existing air quality monitoring program, including the ongoing use of continuous air quality monitor/s, will be maintained (or as otherwise agreed with EPA and the Department). Monitoring results will be compiled and reviewed at least monthly to determine the need for any operational or management change to minimise air quality impacts. Results will also be compiled and analysed annually and reported in the Annual Review.	EMM Air quality audit team	AQGHGMP. Annual Reviews for 2021, 2022 & 2023. Monthly Environmental Report (Jan - May 2024). Site inspection.	The AQGHGMP (Section 3.7) details the air quality monitoring program which includes: - monthly dust deposition monitoring - once in six day PM_{10} and TSP HVAS monitoring - continuous PM_{10} TEOM monitoring - continuous meteorological monitoring. Not all measured data was continuous. Considered an 'administrative' non-compliance in 2022, 2023 Annual Reviews.	Compliant	
Noise and Blasting	6.6.2 The Applicant will continue to implement the following controls to manage noise generation: • use of real-time directional noise monitors incorporating automatic alarms that will enable mine operators to take a proactive approach to minimising noise impacts by modifying operations when monitoring indicates that potential impacts may occur. • mining equipment is maintained to high standards to ensure high availability and to meet noise emission criteria; • operations on outer dump faces or elevated dumps in sensitive areas are restricted where possible during adverse weather conditions in accordance with the Applicant's noise performance monitoring system; • all new equipment is procured against a specification for noise emission to meet noise criteria at the nearest private residences for total operations; and • the majority of the coal crushing plant and coal handling facilities are enclosed in buildings and protective structures that effectively contain noise generated in these processes to the close proximity of the plants.	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports EPL Noise Assessment Reports	No noise complaints and site complied with noise criteria during all attended noise monitoring during the audit period.	Compliant	
	6.6.3 The Applicant will implement mine planning procedures that minimise the potential for adverse noise impacts. Where possible, machinery will be selectively located at lower elevations in the pit during times when noise levels at the receivers are likely to be exacerbated by weather conditions.	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports EPL Noise Assessment Reports	No noise complaints and site complied with noise criteria during all attended noise monitoring during the audit period.	Compliant	
	6.6.4 The Applicant will install a continuous noise monitoring unit between the development and Camberwell Village that is capable of discerning the direction from which a noise emanates and the contribution the noise source makes to the cumulative noise level.	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports EPL Noise Assessment Reports	This has been done, as observed in monthly noise reports.	Compliant	
	6.6.5 The Applicant will investigate any reported exceedances of noise criteria at private residences on a case by case basis. Should site specific monitoring or real-time monitors indicate adverse noise impacts from the development, the Applicant will investigate reasonable and feasible measures to mitigate noise at the affected receiver.	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports EPL Noise Assessment Reports	No exceedances of noise criteria.	Not triggered	
Blasting	6.6.10 The Applicant will establish relevant blast impact criteria for the protection of archaeological site REA 86, through an assessment by a suitably qualified geotechnical engineer, as part of the Aboriginal Cultural Heritage Management Plan for the development, prepared in consultation with registered Aboriginal stakeholders and Heritage NSW, and to the satisfaction of the Department.	EMM Noise audit team	Blast Management Plan (RAVCX-307024981-4092) EPL Blast Monitoring Reports Quarterly Environmental Monitoring Reports	Addressed in the BMP	Compliant	
	6.6.11 The Applicant will develop a blasting protocol in consultation with relevant service providers and infrastructure owners prior to the commencement of blasting within 500 metres of the infrastructure specified in Table 6.2 and any relevant surface infrastructure at Macquarie Generation and ACOL. This may include revising blasting criteria from that indicated in the EA developed in consultation with the relevant service provider or infrastructure owner.	EMM Noise audit team	Pers. communication with Klay Marchant	Blast protocol has been demonstrated by Klay Marchant	Compliant	
	6.6.12 The Applicant will continue its research into the effects of vibration on the 1000 ML dam wall in consultation the DSC. This research may revise the appropriate vibration criteria for this structure, and will be documented as part of the Blast Management Plan for the development.	EMM Noise audit team	Blast Management Plan (RAVCX-307024981-4092) EPL Blast Monitoring Reports Quarterly Environmental Monitoring Reports	Addressed in the BMP	Compliant	

Environmental aspect	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Biodiversity	6.7.1 The Applicant will develop a Biodiversity Monitoring Program as part of the Rehabilitation Management Plan which will include: • monitoring of areas of retained vegetation; • monitoring of rehabilitated areas using appropriate methodologies; • fauna monitoring; • monitoring of Emu Creek aquatic habitats (once reinstated as part of the rehabilitation program); • fauna habitat monitoring including nest box structures; • green and golden bell frog population surveys in accordance with the Green and Golden Bell Frog Key Population Management Plan (DECC 2007); and • monitoring of regeneration and revegetation initiatives to be designed and implemented within the proposed offset areas	EMM general audit team	Biodiversity Offset Management Plan (2023) (RAVOC-1007099517-20). Approval of Biodiversity Offset Management Plan by DPHI (9 October 2023). Ravensworth Complex Rehabilitation Management Plan (2022) (RAVCX-307024981-8541). Site inspection.	The Biodiversity Offset Management Plan (2023) (RAVOC-1007099517-20) was prepared in consultation with the appropriate government agencies and approved by DPHI on 9 October 2023. Rehabilitation is also managed under the Ravensworth Complex Rehabilitation Management Plan (2022) (RAVCX-307024981-8541). A biodiversity monitoring program can be found in Section 6 and 7 of the Biodiversity Offset Management Plan.	Compliant	
	6.7.2 The Applicant will investigate potential opportunities for the provision of contributions to the development of regional biodiversity initiatives, in consultation with BCD and the Department.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Ravensworth Hunter Ironbark Complex Research Program. Defining Niche and Amelioration Requirements to Incorporate Missing Species into Rehabilitation Areas in the Hunter Valley -Proposed Research Program Ravensworth Complex.	As reported in the previous IEA, the University of Newcastle was engaged to complete the Hunter Ironbark Research Program which was completed in June 2016. The Program was funded by Ravensworth Operation. Additional research into the mapping and recovery of EECs affected by the project was also completed. This research focussed on Central Hunter Grey Box - Ironbark Woodland EEC and Central Hunter Ironbark - Spotted Gum - Grey Box Forest EEC. This work is currently completed by environmental consultants during the annual offset monitoring.	Compliant	
Surface Water	6.8.1 The Applicant will continue to undertake surface water quality monitoring in accordance with its existing program, with additional monitoring points to be established at Davis Creek for the life of the development except where otherwise agreed with the Department and following consultation with EPA. All surface water monitoring results will be reported in the Annual Review.	EMM general audit team	Water Management Plan (2024) (RAVOC-1007099517-67). DPHI approval of WMP on 9 February 2024. Site inspection and interviews.	A Surface Water Management Plan is attached as Appendix D to the WMP, with monitoring discussed in Section 6.1 of the WMP. Monitoring points W152 (EPL 23) and W164 (EPL 22) monitor Davis Creek. All monitoring results are reported in the Annual Reviews and EPL Annual Returns.	Compliant	
	6.8.2 At least 12 months prior to the diversion of Emu Creek, the Applicant in conjunction with Coal & Allied will review the need to undertake any further studies to inform the detailed design of the diversion to ensure the appropriate integration of the diversion with future mining operations associated with the development and the adjacent Coal & Allied operations. As part of the detailed design of the proposed Emu Creek diversion, the Applicant will obtain all relevant approvals in consultation with Coal & Allied and to the satisfaction of the Department.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
Groundwater	6.8.3 The Applicant will undertake two-monthly assessments of any departures from identified monitoring or predicted data trends. Departures from identified monitoring trends are taken to be consecutive data over a period of 6 months (minimum of three consecutive readings) exhibiting an increasing divergence in a negative impact sense from the previous data or from established or predicted trends. Any identified issues will be the subject of further investigation, in accordance with the relevant response procedures developed under the Groundwater Monitoring Program for the development.	EMM general audit team	Water Management Plan (2024) (RAVOC-1007099517-67). DPHI approval of WMP on 9 February 2024. Site inspection and interviews.	A Groundwater Management Plan is attached as Appendix E to the WMP, with groundwater monitoring discussed in Section 6.4 of the WMP. There were no departures identified during the IEA period. All monitoring results are reported in the Annual Reviews and EPL Annual Returns.	Compliant	
	6.8.4 A formal review of the depressurisation of coal measures and comparison of responses with the aquifer model predictions will be undertaken biennially. Expert review will be undertaken by a suitably qualified hydrogeologist if the measured depressurisation in the coal measures exceeds the predicted depressurisation for the designated period.	EMM general audit team	Ravensworth Operations – Review of Groundwater Model Predictions (2021). Ravensworth Operations Biennial Review of Groundwater Model Predictions (2023).	During the IEA period, Ravensworth Operations engaged Australasian Groundwater and Environmental Consultants Pty Ltd (AGE) to undertake a formal review of the depressurisation of coal measures including comparison against historic and predicted trends. These reviews are completed every two years i.e. 2021 and 2023. AGE concluded that the model continues to provide a relatively conservative prediction of impact for the Ravensworth operations.	Compliant	
	6.8.5 The Applicant will develop appropriate remedial and recovery plans for identified stands of Eucalyptus camaldulensis along the Hunter River in the southern extent of the development area on land controlled by the Applicant. The plans will be developed in consultation with DPE Water and EPA, to the satisfaction of the Planning Secretary.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
	6.8.6 The Applicant will seek to enter into a co-operative, transparent, data sharing agreement with surrounding operations, including Coal and Allied Hunter Valley Operations and Ashton, for the sharing of relevant piezometric data.	EMM general audit team	Environmental Monitoring Database. Annual Reviews for 2021, 2022 and 2023.	Piezometric data is shared with Liddell, Mt Owen, Glendell, Integra and United/Wambo via Glencore's Environmental Monitoring Database. All monitoring results are also report in the Annual reviews.	Compliant	
Traffic and Transport	6.9.1 The proposed Lemington Road Realignment will be designed and constructed in accordance with the TfNSW's Road Design Guide (1999) and the proposed bridge over Bayswater Creek will be designed in accordance with AS5100.2, AS1700.0 and AS5100.5 (with a 100 year life), in consultation with the TfNSW and Singleton Council.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
	6.9.2 The Applicant will upgrade the intersection of the proposed Lemington Road Realignment and New England Highway in accordance with the TfNSW's Road Design Guide (1999). The design will be submitted for the approval of the TfNSW.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
	6.9.3 To manage any impacts from development related road traffic, the Applicant will implement the following traffic management strategies: • establishing an ongoing management procedure controlling vegetation regrowth at the New England Highway and Lemington Road Realignment intersection; and • road safety audits to be carried out at appropriate stages of the intersection upgrade and construction of the Lemington Road Realignment.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	

Environmental aspect	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Aboriginal Heritage	6.10.1 The Heritage Management Plan will address: • management of sites and areas that will not be impacted by the development; • monitoring and management of potential blasting impacts on site REA86; • management of the salvage of any artefacts or archaeological material, including the staged approach to salvage, from impacted areas in compliance with the research design and methodology included in Appendix 11; • management of subsurface testing and further subsurface salvage works in compliance with the research design and methodology included in Appendix 11; • ongoing management of salvaged artefacts and archaeological materials; • the provision of suitable Aboriginal cultural heritage offsets to balance the loss of Aboriginal and archaeological sites and values that will result from the development of the development(refer to Section 5.8.7); • outline the process for the investigation of further detailed investigation of the conservation and management of the Hillcrest Offset Area as an Aboriginal heritage and archaeological resource, including: • review of additional literature (archaeological, environmental and historical) to provide the required context for the archaeological survey and significance assessment; • archaeological survey of the Hillcrest Offset Area in conjunction with Aboriginal stakeholder representatives, in accordance with relevant government agency; • archaeological significance assessment, conducted by an appropriately qualified archaeologist in accordance with government agency guidelines (NPWS 1997); • cultural values assessment, conducted by registered Aboriginal stakeholders; • management strategies, which will formally assess the conservation value of the Hillcrest Offset Area; and • reporting, with the aims, methods and results of all above works outlined in an additional Cultural Heritage Assessment report prepared in accordance with relevant government agency requirements (NPWS 1997, DEC 2004). • the responsibilities of all parties involved - the Applicant, Aboriginal stakeholders, archaeologists, Heritage NSW; • specify the mechanism(s) for ongoing engagement with Aboriginal stakeholders, including the use of an Aboriginal stakeholder committee to be implemented over the life of the development; and • the timeframes for the required Aboriginal heritage management works.	EMM general audit team	Aboriginal and Cultural Heritage Management Plan (2022) (RAVCX-1962359669-15). Approval of ACHMP on 28 November 2022. Site inspection and interviews.	The Aboriginal Cultural Heritage Management Plan (ACHMP) (2022) (RAVCX-1962359669-15) was prepared in consultation with the applicable stakeholders. The ACHMP was approved by the Secretary on 28 November 2022 and addresses the statement of commitments.	Compliant	
	6.10.2 The Applicant will manage for long term conservation the 41 sites within the Ravensworth North Offset Area.	EMM general audit team	Aboriginal and Cultural Heritage Management Plan (2022) (RAVCX-1962359669-15). Approval of ACHMP on 28 November 2022. Site inspection and interviews.	The Aboriginal Cultural Heritage Management Plan (ACHMP) (2022) (RAVCX-1962359669-15) addresses the long term conservation the sites within the Ravensworth North Offset Area.	Compliant	
	6.10.3 In addition to the long term conservation of sites and landforms within the Ravensworth North Offset Area, the Applicant commits to additional offsets for the loss of Aboriginal cultural heritage and archaeological sites and values that will result from the development. These include: • to actively manage the site within the existing Farrells Creek 1 Aboriginal Artefact Management Area and the area of the Ravensworth Underground Mine Dam Conservation Area (or agreed alternative area) by undertaking culturally sensitive works to improve management of ongoing erosion of the site/area; and • to manage the sites that fall within the development area but outside of the impact areas and designated conservation areas for the 29 year life of the mine by undertaking culturally sensitive works to improve management of ongoing erosion of the sites where monitoring of the sites indicates this is necessary.	EMM general audit team	Aboriginal and Cultural Heritage Management Plan (2022) (RAVCX-1962359669-15). Approval of ACHMP on 28 November 2022. Site inspection and interviews.	The Aboriginal Cultural Heritage Management Plan (ACHMP) (2022) (RAVCX-1962359669-15) outlines the management the existing Farrells Creek 1 Aboriginal Artefact Management Area and the area of the Ravensworth Underground Mine Dam Conservation Area, and management of sites that fall within the development area but outside of the impact areas.	Compliant	
	6.10.4 The Applicant also commits to the following if agreed to by Aboriginal stakeholders: • funding for the purchase of display cabinets and for the establishment of a display of artefacts salvaged from the development area that incorporates a visual display of the salvage of the artefacts and of the interpretation of the evidence derived by their analysis from an Aboriginal and archaeological perspective; • suitable venues for this would be the Teaching/Keeping Place currently in the planning stage by XCN in association with Beltana Highwall Mining and other interested parties; or the Keeping Place currently in planning by the Wanaruah Local Aboriginal Land Council; • funding to support the establishment of IT systems at the Keeping/Teaching place; • funding to support training for Aboriginal community members to provide skills to allow them to work within the Keeping/Teaching Place (e.g. archival training, book keeping training, computer skills, hospitality training); • training in stone artefact attribute recording and basic analysis; • the Applicant will provide funding to undertake non-invasive 3D scanning of the Bowmans Creek 16 Engraving Site even though there is no proposal to impact this site from mining.	EMM general audit team	Aboriginal and Cultural Heritage Management Plan (2022) (RAVCX-1962359669-15). Approval of ACHMP on 28 November 2022. Site inspection and interviews.	As stated in previous independent IEAs, Ravensworth Operations operates under the 'Care Agreement for the transfer and safekeeping of Aboriginal objects number: C000192' with Heritage NSW (previously OEH) which came into effect on 6 July 2015. The care agreement details: - responsibilities and conditions for safekeeping - notification and reporting requirements. Ravensworth Operations are permitted to store Aboriginal heritage items onsite until the teaching/keeping place at Bulga/Beltana has been established. Ravensworth Operations complete consultation with RAPs on an annual basis. The 3D scanning of Bowmans Creek 16 Engraving Site was completed in 2012.	Compliant	
Historical Heritage	6.11.1 The Applicant will implement the following historical heritage management measures: • management of blasting practices to meet relevant blast impact assessment criteria at listed heritage sites/items within the vicinity of the development area; • a qualified heritage consultant to NSW Heritage Office's standards will undertake archival recording of historic heritage sites of local significance directly or indirectly impacted by the development (HH1, HH4, HH5, HH11, HH14, HH15, HH16, HH17, and HH18) prior to the commencement of mining.	EMM general audit team	Heritage Management Plan (2022) (RAVCX-307024981-3052). Approval of Heritage Management Plan (2018) (RAVCX-307024981-3052) from DPHI on 10 September 2018.	The 'Management of Potential Effects of Blasting on Heritage Items' is outlined in Section 5.3 of the Heritage Management Plan (2022) (RAVCX-307024981-3052). Photographic archival recordings are attached as Appendix C.	Compliant	
	6.11.2 In the unlikely event that unexpected archaeological remains or potential heritage items not identified in the EA are discovered during the development, all works in the immediate area will cease, the remains and potential impacts will be assessed by a qualified archaeologist or heritage consultant and, if necessary, the Heritage Council, the Department will be notified in accordance with the Heritage Act 1977.	EMM general audit team	Heritage Management Plan (2022) (RAVCX-307024981-3052). Approval of Heritage Management Plan (2018) (RAVCX-307024981-3052) from DPHI on 10 September 2018.	The 'Management of Discovery of New Heritage Sites/Items' and 'Management of Skeletal Remains' are discussed in Section 5.4.5 and 5.4.6 of the Heritage Management Plan (2022).	Compliant	
Visual Controls	6.12.1 The Applicant will implement the following measures to mitigate visual impacts from the development: • shaping, stabilising and rehabilitation of the out of pit overburden emplacement areas as soon as practicable after mining to minimise the visual impact of these areas on the amenity of the surrounding area; • additional screening plantings will be utilised in strategically located positions to augment existing plantings and limit views into the development from the New England Highway and the proposed Lemington Road Realignment; • ensuring that all external lighting associated with the development complies with Australian Standard AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting; • all buildings potentially visible to the public will be coloured in suitable natural tones.	EMM general audit team	Lighting Management Plan Lighting Tower Relocation, Setup and Operation Site inspection. Annual Reviews for 2021, 2022 and 2023.	Offsite lighting and mine infrastructure are not visible from Lemington Road and the New England Highway during the site inspection. The site is bordered by vegetation screening and bunded areas. EMM reviewed the Lighting Tower Relocation, Setup and Operation procedure which provides workers at Ravensworth Operations with guidelines to safely set-up, manoeuvre and relocate lighting towers. EMM reviewed the Lighting Management Plan which has been prepared in accordance with AS4282 (INT) 1997 – Control of Obtrusive Effects of Outdoor Lighting. There were no complaints related to visual amenity during the reporting period.	Compliant	

Environmental aspect	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Greenhouse Gas and Energy	6.13.1 The Applicant will develop and implement an Energy Management System that will address all aspects of energy management for the development.	EMM Air quality audit team	AQGHGMP. Energy Management System .	The 'Energy Management System' Document has been in affect during the audit period and latest update occurred 6/12/2023. The Energy Management System document outlines the resources used and record keeping methods.	Compliant	
	6.13.2 At an operational level, the Applicant will aim to improve energy efficiency and reduce greenhouse emissions from the development via: • the use of energy management systems; • seeking continuous improvement in energy efficiency in the mining fleet, stationary equipment, mining processes and coal preparation; • investigation of energy efficiency opportunities for mobile and fixed plant and equipment through the detailed design of the development.	EMM Air quality audit team	Annual Reviews for 2021, 2022 & 2023. AQGHGMP. Energy Management System.	The AQGHGMP outlines GHG management practices including proposed sectors for continuous improvements. Section 6.15 of Annual review for 2022 and 2023 included proposed improvements and goals in reducing GHG emissions.	Compliant	
	6.13.3 The Applicant will continue to monitor and seek to improve its energy and greenhouse gas performance against performance targets.	EMM Air quality audit team	Annual Reviews for 2021, 2022 & 2023. AQGHGMP. NGERs reporting.	NGERs reporting completed for the audit period. The Annual Reviews include yearly Scope 1 and Scope 2 emissions accounted for in NGERs reporting. Section 6.15 of Annual review for 2022 and 2023 included proposed improvements and goals in reducing GHG emissions.	Compliant	
	6.13.4 The Applicant will report its greenhouse and energy performance via legislative reporting requirements.	EMM Air quality audit team	Energy Management System. NGERs reporting.	NGERs reporting completed for the audit period. The Annual Reviews include yearly Scope 1 and Scope 2 emissions accounted for in NGERs reporting. Section 6.15 of Annual review for 2022 and 2023 included proposed improvements and goals in reducing GHG emissions.	Compliant	
Waste Management	6.14.1 No waste will be disposed of on site except for inert wastes permissible under the EPL obtained for the development with all other waste disposed of at appropriately licensed waste management facilities located off site.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Waste Management Plan (2023) (RAVCX-307024981-6054). Waste records. Site inspection and interviews. Waste inspection reports. EPL Annual Returns.	Waste records are reported in the Annual Reviews. Waste is transported off site monthly by appropriately licenced waste removalist and disposed of/recycled at appropriate facilities. Only tyres are disposed of inpit in accordance with Condition L4.4 and O5.1 of EPL 2652.	Compliant	
	6.14.2 The Applicant will continue to use a bioremediation area located within disturbed areas on site, to treat materials affected by hydrocarbons.	EMM general audit team	Site inspection and interviews. Waste Management Plan (2023) (RAVCX-307024981-6054). Waste Management Procedure - Bioremediation Area (2020) (RAVCX-307024981-1533).	The bioremediation area is located to the west of the machinery build pad at the old temporary Mine Infrastructure Area. The area is managed under the Waste Management Procedure - Bioremediation Area (2020).	Compliant	
	6.14.3 The Applicant will manage coarse reject and tailings associated with the processing and handling of coal in accordance with the conceptual management strategy outlined in Section 2.5.10 of the EA.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews. Waste Management Plan (2023) (RAVCX-307024981-6054).	Waste management of coarse reject and tailings is reported in the Annual Reviews. Coarse rejects are conveyed from the RCHPP to a reject bin, where they are collected by haul trucks. The haul trucks transport rejects via internal haul roads for co-disposing in the overburden emplacement areas in accordance with regulatory approvals. Tailings are emplaced into both the Mount Owen West Pit Void through the Greater Ravensworth Area Water and Tailings Strategy (GRAWTS) and the Ravensworth Cumnock Tailings storage facility.	Compliant	
Social and Economic	6.15.1 The Applicant will continue to engage the community regarding the development and operations in general, including use of the following mechanisms: • circulation of information relating to the commencement of construction and/or mining; • distribution of a community newsletter as appropriate and on at least a six monthly basis; • a Community Consultative Committee, as considered appropriate by Department of Planning; • establishment of a project-specific website; and • community information days to be held periodically at the development site.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Community Consultative Committee (CCC) meeting minutes. Ravensworth Operations website. *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (DPE 2023).	Community engagement is reported in Section 9 of the Annual Reviews. Community newsletters, complaints and CCC meeting minutes are all reported on the Ravensworth Operations website. The CCC meet on a quarterly basis and operates generally in accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (DPE 2023).	Compliant	
	6.15.2 The Applicant will continue to operate a 24 hour community hotline for receipt of community complaints. Community complaints will be responded to within 24 hours of receipt. All complaints will be investigated and the results of the investigation reported to the complainant in a timely manner.	EMM general audit team	Ravensworth Operations website. Annual Reviews for 2021, 2022 and 2023.	Ravensworth Operations operates a free Environment and Community Enquiry Hotline (1800 620 553) which operates 24 hours per day, 7 days per week. Receptors closest to the mine have all received the Environment and Community Managers direct phone number. All complaints are reported in the Annual Reviews.	Compliant	
Economic Development - Employment, Education and Training	6.15.3 The Applicant will continue its aims of trying to maximise local employment and provide training and education opportunities through: • advertising employment, apprenticeships and traineeships in local or regional media as appropriate; • providing an employment pack that allows local residents to register their interest in employment opportunities at the Applicant's office; • sharing information about mining careers with the Applicant and corporate entity with local schools; • offering training opportunities through partnerships with local tertiary education providers; • participating in the corporate school scholarship program; and • continued implementation of Corporate and the Applicant's Corporate Social Involvement (CSI) programs. 6.15.4 In addition to current practices, the Applicant proposes to: • formalise a policy that gives local residents employment preference where they have the required skills and experience, and demonstrate a cultural fit with the organisation; • provide access to the corporate careers centre via the Applicant's website so that local residents can easily register their interest in employment online; and • develop partnerships with other local organisations to promote employment opportunities in non-mining related sectors to the families of the Applicant's employees.	EMM general audit team	Recruitment, Selection and Employment Procedure (2023) (RAVOC-258458278-410). Community Investment Update Apprentice Trade Card	Ravensworth Operations have prepared the Recruitment, Selection and Employment Procedure which outline the process of recruiting, selecting and employing people which is fair and consistent" satisfies all legal requirements and ensures that the most appropriate people are selected for employment at Ravensworth Operations. Ravensworth Operations facilitate the First Nations Pathway Program which offers work experience opportunities for indigenous candidates. They continued to provide financial assistance and ongoing support to local schools, neighbourhood centres, theatres, rotary club and support services. At the Ravensworth Operations family day, there were stalls for both HR and programmes at Ravensworth Operations to provide information about employment, apprenticeships and traineeships. EMM sighted internal communications via email sharing information about mining careers. Careers and apprenticeship information is advertised on the Glencore website.	Compliant	
Economic Development - Business Opportunities	6.15.5 The Applicant will continue to give preference to sourcing materials and services from local companies where all other factors are equal.	EMM general audit team	Recruitment, Selection and Employment Procedure (2023) (RAVOC-258458278-410).	Glencore has a procurement policy that gives preference to sourcing materials and services from local companies where all other factors are equal. The Recruitment, Selection and Employment Procedure also discusses employing local residents where possible.	Compliant	
Cumulative Impacts	6.15.6 The Applicant will continue to work with representatives from neighbouring mines to discuss and address issues of common concern in relation to management of cumulative impacts.	EMM general audit team	Site inspection and interviews.	Ravensworth Operations and neighbouring mines meet on a quarterly basis to discuss issues of common concern and the management of cumulative impacts.	Compliant	

A.4 DA 104_96 Statement of Commitments

Table A.4 - DA 104_96 Statement of Commitments

Environmental aspect	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
APPENDIX 3 - STATEMENT OF COMMITMENTS						
Subsidence	A new SMP will be prepared and lodged for approval prior to longwall mining within the Liddell Seam. The SMP application process will include a risk assessment, consultation with key stakeholders and relevant specialist studies for subsidence, geotechnical, groundwater and other environmental issues. It will also include a series of management plans for each key stakeholder. Consultation with key government agencies and stakeholders will continue throughout the preparation of the SMP application.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	Additional studies have been commissioned to better define potential subsidence impacts (particularly on Void 4) and the associated issues. Specifically, Resource Pacific has committed to building a coupled geomechanical and fluid flow model with the CSIRO (mining and exploration division).	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	Regular maintenance and regrading will be undertaken to manage any surface movement and cracking around the access road to the proposed re-located position of the in-pit pumps and pump-out line of Mac Gen's Void 4. Roadside bunds on the upslope side of the access road will be installed in areas below steep slopes to protect against destabilised rock debris rolling down onto the road.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	Resource Pacific will consult with Mac Gen, specifically in relation to Void 4, during the preparation of the new SMP application and associated management plans.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	Resource Pacific will consult with Ashton Coal regarding the new SMP application and associated management plans in order to effectively address management issues arising from interactions of Ashton Coal operations. Geotechnical assessments of the Voids 3, 4 and 5 dams retaining fly ash and tailings will be undertaken based on specific detail of the construction and unconsolidated nature of the waste rock forming the abutments. Of particular interest will be the pore pressure distribution within the retained fly ash and tailings.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	Geotechnical assessments of the Voids 3, 4 and 5 dams retaining fly ash and tailings will be undertaken based on specific detail of the construction and unconsolidated nature of the waste rock forming the abutments. Of particular interest will be the pore pressure distribution within the retained fly ash and tailings.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	In particular with regards to Void 4, a geotechnical assessment will be conducted prior to subsidence impact on the dam wall once the results of subsidence monitoring over the earlier Upper Liddell Seam longwall panels below the Pikes Gully Seam longwall panels allow the subsidence movements to be determined with a higher level of confidence than is currently possible.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	A detailed review of the likely impacts of any low level ground movements on the wall of the Narama 1000 ML Dam will be undertaken prior to the commencement of adjacent underground mining.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	Notification will be provided to the DSC prior to mining in the Pikes Gully Seam and Liddell Seam within the notification areas of the prescribed dams.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	Resource Pacific will utilise LIDAR (Light Detection and Ranging) surveys to detect and evaluate subsidence movements over time. Evaluation of the LIDAR survey information will focus on significant surface features and infrastructure.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	All subsidence lines will be measured in three dimensions allowing a greater level of understanding of ground movements.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	A main cross-line will be established across all the longwall panels with pegs spaced at approximately one- twentieth depth to the Pikes Gully Seam. This line will be surveyed at the completion of each longwall panel and at intervals as the longwall face approaches and passes under the line (at least until the horizontal movement characteristics have been established).	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	Where practical, longitudinal lines will be established for areas where the longwall panels in the Liddell Seam pass under the start or finish of the Pikes Gully Seam goaf edges to assist in understanding the interaction of these superimposed goaf edges.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	Where practical and safe to do so, survey points will be established on the steep slopes associated with Voids 4 and 5 to better understand the interaction of subsidence with significant changes in topography. These points can be established as glass prisms to be observed remotely.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	Resource Pacific will undertake regular inspections of the surface area subject to subsidence to identify any surface cracking and slumping, particularly within and around the backfill spoil dump areas. Appropriate protocols and strategies for minimising and managing subsidence-related issues, including erosion and spontaneous combustion, will be included within the SMP.	EMM general audit team	Ravensworth Underground Mine Rehabilitation Management Plan (RUM RMP) (2023) (RAVUG-27619932-35).	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period. The RUM RMP states key ongoing subsidence management measures include: • Six monthly subsidence inspections; • Repair of subsidence damage and filling of subsidence cracks if required; • Subsidence reporting to the RR, if new subsidence impacts are identified through the visual; and • Inspection process. An update on subsidence inspections is completed in the Annual Review.	Compliant	
Land Resources	Areas of disturbance will be minimised and limited to only those areas identified as required for the modification works. If considered necessary, fencing (non-barbed) will be used to delineate the disturbance footprints and/or prevent access to surrounding areas.	Minesoils	Site Inspection	All areas inspected during the site visit and reviewed during the audit were considered either 'Active Mining' or 'Proposed/Scheduled/Active Rehabilitation'. Some areas considered Active Mining were to be used for future haulage. Temporary rehabilitation was noted at several locations and on stockpiles.	Compliant	
	Temporary erosion and sedimentation control measures will be implemented to reduce the likelihood and severity of erosion and sedimentation within and around the surface disturbance areas. These measures may include the use of sediment fences for non-channelised flow over disturbed areas, sand bags, hay balls and rip rap.	Minesoils	Ravensworth Water management Plan (Including Erosion and Sediment Control Plan)	The Water Management Plan includes an Erosion and Sediment Control Plan as sighted during the Audit. The site inspection also noted several temporary ESC measures implemented on site.	Compliant	
	Erosion and sediment control will be addressed in the procedures for activities undertaken during construction. These procedures may include restricted access during wet weather, restricted access to areas under rehabilitation, and regular inspection and maintenance of structures.	Minesoils	Ravensworth Water management Plan (Including Erosion and Sediment Control Plan)	As per ESCP within the WMP. The Ground Disturbance Permit process was sighted during the Audit with examples showing ESC plan, implementation and inspections.	Compliant	
	Permanent erosion and sediment control measures will be implemented within disturbed areas associated with construction and/or affected by subsidence. These will generally be undertaken in accordance with the Blue Book (Volumes 1 and 2E) (LandCom 2004 and DECC 2008) and RUM's Erosion and Sediment Control Plan and will be regular inspected to ensure continued integrity.	Minesoils	Ravensworth Water management Plan (Including Erosion and Sediment Control Plan)	Landform designs at both Open Cut and RUM include permanent ESC measures. The WMP and ESCP also cover Open cut and RUM.	Compliant	
	In accordance with RUM's Erosion and Sediment Control Plan, natural topsoil will be stripped and stockpiled for use in rehabilitation following completion of construction works.	Minesoils	RUM Closure Presentation	Presentation of RUM closure process and activities was sighted during the Audit which demonstrated RUM closure program.	Compliant	
	All disturbed areas will be sown with a pasture seed mix as soon as possible following completion of construction and replacement of topsoil.	Minesoils	RUM Closure Presentation	Underway post closure	Compliant	
	In the event that any slumping, cracking, formation of depressions and/or ponding is identified, appropriate remedial action will be undertaken.	Minesoils	RUM Closure Presentation	No Active subsidence, final check scheduled, 10 years care and maintenance.	Compliant	
	Decommissioning and removal of additional surface infrastructure and subsequent rehabilitation activities will be considered and addressed during the next revision of the Conceptual Mine Closure Plan and in accordance with the Biodiversity, Rehabilitation and Land Management Plan.	Minesoils	RUM Closure Presentation	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. As a result, there were numerous structures demolished during the audit period including redundant structures at RUM and the CHPP.	Compliant	

Environmental aspect	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Air Quality	Where possible, vehicles on site will be confined to a designated route with an appropriate speed limit enforced. Number of trips and trip distances will be minimised where possible.	EMM Air quality audit team	AQGHGMP. Site inspection.	Management measures are detailed in Section 3.4 of the AQGHGMP.	Compliant	
	Delivery and removal of materials will be planned and coordinated to avoid unnecessary trips.	EMM Air quality audit team	AQGHGMP. Site inspection.	Management measures are detailed in Section 4.4 of the AQGHGMP.	Compliant	
	Dirt that has been tracked onto sealed roads will be removed as soon as practicable. When conditions are excessively dusty and windy, a water truck/cart will be used to dampen surfaces prior to grading/scraping and trafficable areas.	EMM Air quality audit team	AQGHGMP. Site inspection.	Management measures are detailed in Section 3.4 of the AQGHGMP. Management measures were sited in operation during site visit.	Compliant	
	Where possible, working practices will be modify to limit excavation during periods of high winds. Vegetation clearing and topsoil disturbance will be limited to the designated footprint required for construction.	EMM Air quality audit team	AQGHGMP. Site inspection. Blast schedule email.	Section 3.4 of the AQGHGMP states that dust generating activities during adverse weather conditions will be modified or ceased and disturbance areas will be minimised. Evidence of operational blast re-scheduling due to wind conditions was provided for the audit period.	Compliant	
	Rehabilitation of disturbed areas will be undertaken promptly following completion of works. The number of temporary material stockpiles and the number of work faces on material stockpiles will be minimised to limit wind erosion potential.	EMM Air quality audit team	AQGHGMP. Annual reviews for 2021, 2022 & 2023.	Section 3.4 of the AQGHGMP outlines progressive site rehabilitation will be undertaken. A status of rehabilitation progress is provided in Section 8.1 of the Annual Reviews.	Compliant	
	A review of current dust management strategies will be undertaken against the best practice measures identified by Katestone Environmental (2011). The review will identify any additional dust management practices that are reasonable and feasible for implementation at RUM and will be undertaken in accordance with the requirements of a pollution reduction program imposed by the OEH on the RUM EPL.	EMM Air quality audit team	AQGHGMP. Ravensworth Mine Complex - Coal mine particulate matter control best management practice determination.	A review of dust management strategies was undertaken in the Ravensworth Surface Operations – Coal Mine Particulate Matter Control Best Management Practice Determination.	Compliant	
Noise	The sound power of the gas extraction units, stone dust facility and air compressor house will be limited to LA 111 dB, 106 dB and 107 dB, respectively to allow continual compliance with the project-specific criterion. The ventilation fans will be oriented to the north-west so that their horizontal evases discharge away from the potential sensitive receptors.	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports EPL Noise Assessment Reports	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Compliant	
	An assessment of the sound power levels of construction equipment, such as power packs, generators and pumps associated with shaft boring, will be undertaken when construction commences to ensure levels do not exceed those listed in Table 3.3 of Global Acoustics' Environmental Noise Impact Assessment (2012).	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports EPL Noise Assessment Reports	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Compliant	
	Where possible, quieter plant items will be selected for construction activities.	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports EPL Noise Assessment Reports	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Compliant	
	Where possible, noisy activities, including drilling, will be undertaken within the day period. In the event that this is not possible, noise mitigation measures, such as placing acoustic barriers between the noise source and noise sensitive receptors, will be employed.	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports EPL Noise Assessment Reports	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Compliant	
	If required, acoustic barriers will be placed between stationary noise sources such as compressors, generators and drill rigs and noise sensitive receptor locations.	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports EPL Noise Assessment Reports	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Compliant	
Groundwater	On-going monitoring of groundwater inflow into the underground mine workings will be undertaken to identify any additional groundwater licensing requirements as mining progresses.	EMM general audit team	Water Management Plan (2024) (RAVOC-1007099517-67). Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews.	A Groundwater Management Plan is attached as Appendix E and discussed in Section 6.4 of the WMP. The GMP and WMP include a groundwater monitoring program. Monitoring results are reported in the Annual Reviews.	Compliant	
	Monitoring of pore pressures and piezometric elevations in existing regional piezometers will continue in order to discriminate between oscillatory groundwater movements attributed to rainfall recharge or subsidence related strata movements and longer term pressure losses related to mining.	EMM general audit team	Water Management Plan (2024) (RAVOC-1007099517-67). Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews.	A Groundwater Management Plan is attached as Appendix E and discussed in Section 6.4 of the WMP. The GMP and WMP include a groundwater monitoring program. Monitoring results are reported in the Annual Reviews.	Compliant	
	Measurement of all water pumped underground and all mine water pumped to surface will be undertaken.	EMM general audit team	Water Management Plan (2024) (RAVOC-1007099517-67). Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews.	A Groundwater Management Plan is attached as Appendix E and discussed in Section 6.4 of the WMP. The GMP and WMP include a groundwater monitoring program. Monitoring results are reported in the Annual Reviews.	Compliant	
	At least three new pore pressure monitoring piezometers (vertical transducer arrays) will be installed in accessible areas close to Void 4 and further south to enable mapping of the prevailing piezometric heads and likely hydraulic connectivity to existing and future underground operations.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
	Measurement of the piezometric profile within the tailings in Void 4 and the adjacent waste rock backfill will be undertaken to determine the state of saturation of the tailings.	EMM general audit team	Water Management Plan (2024) (RAVOC-1007099517-67). Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews.	A Groundwater Management Plan is attached as Appendix E and discussed in Section 6.4 of the WMP. The GMP and WMP include a groundwater monitoring program. Monitoring results are reported in the Annual Reviews.	Compliant	
	Monitoring of basic water quality parameters pH and EC in pumped mine water will continue. pH and EC will be monitored every six months in the regional monitoring network.	EMM general audit team	Water Management Plan (2024) (RAVOC-1007099517-67). Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews.	A Groundwater Management Plan is attached as Appendix E and discussed in Section 6.4 of the WMP. The GMP and WMP include a groundwater monitoring program. Monitoring results are reported in the Annual Reviews.	Compliant	
	Annual measurement of TDS and speciation of water samples will be undertaken in selected piezometers to support identification of mixing of groundwater types.	EMM general audit team	Water Management Plan (2024) (RAVOC-1007099517-67). Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews.	A Groundwater Management Plan is attached as Appendix E and discussed in Section 6.4 of the WMP. The GMP and WMP include a groundwater monitoring program. Monitoring results are reported in the Annual Reviews.	Compliant	
	Graphical plotting of basic water quality parameters will be undertaken to identify trend lines and statistics, including mean and standard deviation.	EMM general audit team	Water Management Plan (2024) (RAVOC-1007099517-67). Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews.	A Groundwater Management Plan is attached as Appendix E and discussed in Section 6.4 of the WMP. The GMP and WMP include a groundwater monitoring program. Monitoring results are reported in the Annual Reviews.	Compliant	
	The monitoring network and program will be reviewed on an annual basis to determine on-going suitability. Regular checks will be undertaken for departures from identified monitoring trends. Any such departures will initiate further actions, such as more intensive monitoring, re-assessment of impacts and/or mitigation measures. An annual review of depressurisation of coal measures will be undertaken and compared with aquifer model predictions.	EMM general audit team	Water Management Plan (2024) (RAVOC-1007099517-67). Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews.	A Groundwater Management Plan is attached as Appendix E and discussed in Section 6.4 of the WMP. The GMP and WMP include a groundwater monitoring program. Monitoring results are reported in the Annual Reviews.	Compliant	
	Finalise the updated Water Management Plan, including Groundwater Monitoring Program, in accordance with conditions 8 and 11A of DA 104/96 and in consultation with the NOW, for approval by the DP&I.	EMM general audit team	Water Management Plan (2024) (RAVOC-1007099517-67). DPHI approval of WMP on 9 February 2024. Site inspection and interviews.	The 2024 version of the Water Management Plan (WMP) (RAVOC-1007099517-67) can be found on the Ravensworth Operations website. Approval of the WMP was received from DPHI on 9 February 2024. The previous version of the WMP (RAVCX-307024981-4592) was approved by the Secretary in 2019.	Compliant	
	A management strategy will be prepared and implemented addressing the loss of waters stored in Void 4 to the underground mine workings and the management of mine water. This plan will be development in accordance with the requirements of RUM's Environmental Protection Licence (EPL 10337) and in consultation with Macquarie Generation. It will address water quality issues, intended end use(s) and the management and approval requirements for the end use(s).	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	

Environmental aspect	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Surface water	See commitments listed for Subsidence, Land Resources and Groundwater.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
Traffic and Transport	Liddell Station Road will be resealed where heavy cracking, potholes or water pooling are evident to improve the current pavement condition and to satisfy condition 30(i) of Development Consent DA 104/96.	EMM general audit team	N/A	Not triggered during the IEA period. There is no Condition 30(i) in DA 104_96.	Not triggered	
Flora and Fauna	Exotic weeds within the vicinity of the modification works will be identified and, if necessary, removed/eradicated prior to surface disturbance.	EMM general audit team	Ravensworth Underground Mine Rehabilitation Management Plan (RUM RMP) (2023) (RAVUG-27619932-35).	Weeds are managed in accordance with the Ravensworth Underground Mine Rehabilitation Management Plan.	Compliant	
	The areas of disturbance will be minimised and limited to only those areas identified as required for the modification works. If considered necessary, fencing (non-barbed) will be used to delineate the disturbance footprints and/or prevent access to surrounding vegetated areas.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	Appropriate erosion and sediment controls will be installed and maintained to safeguard downstream vegetation communities and aquatic habitats.	EMM general audit team	Ravensworth Underground Mine Rehabilitation Management Plan (RUM RMP) (2023) (RAVUG-27619932-35).	Erosion and sediment control during care and maintenance is discussed in Section 6.2.1.10 of the RUM RMP. All ESC is in accordance with *Managing Urban Stormwater: Soils and Construction Volume 1* (Landcom 2004) (the Blue Book).	Compliant	
	As part of the existing induction program at RUM, all employees and contractors will be informed of the importance of environmental protection.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	Stockpiling of materials will occur within the nominated disturbed footprints.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	Any areas of disturbance outside of the permanent surface infrastructure will be promptly rehabilitated to a stable landform and revegetated commensurate with surrounding lands.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews. Executed Contract RUM-002 CV203 Demolition Risk Assessment Demolition Package RA Presentation Notice of de-energisation clearance for demolition - CV-0203 signed	The mine closure project for RUM commenced in 2022. As a result, there were numerous structures demolished during the audit period including redundant structures at RUM and the CHPP. These areas have been promptly rehabilitated to a stable landform.	Compliant	
	Rehabilitated and revegetated areas will be monitored and maintained to ensure on-going stability and health.	EMM general audit team	Ravensworth Underground Mine Rehabilitation Management Plan (RUM RMP) (2023) (RAVUG-27619932-35). Annual Reviews for 2021, 2022 and 2023.	Rehabilitated and revegetated areas are monitored monthly and reported in the Annual Reviews.	Compliant	
Aboriginal Heritage	Prior to surface disturbance works, due diligence surveys will be undertaken at each disturbance site by a qualified archaeologists in order to confirm that no sites of Aboriginal heritage significance will be impacted.	EMM general audit team	N/A	There was no additional surface disturbance outside of already disturbed areas during the IEA period.	Not triggered	
	The areas of disturbance will be minimised and limited to only those areas identified as required for the modification works. If considered necessary, fencing (non-barbed) will be used to delineate the disturbance footprints and/or prevent access to surrounding areas.	EMM general audit team	N/A	There was no additional surface disturbance outside of already disturbed areas during the IEA period.	Not triggered	
	As part of the existing induction program at RUM, all employees and contractors will be made aware of their statutory obligations for Aboriginal cultural heritage under the National Parks and Wildlife Act 1974.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	In the event that Aboriginal artefacts are located anywhere during the course of the modification works, all works in that area will cease and the OEH will be contacted for advice on how to proceed.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	In the unlikely event that skeletal remains are identified, all works in that area will cease and the NSW Police Coroner and OEH will be contacted for advice on how to proceed.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
European Heritage	The areas of disturbance will be minimised and limited to only those areas identified as required for the proposed modification works. If considered necessary, fencing (non-barbed) will be used to delineate the disturbance footprints and/or prevent access to surrounding areas.	EMM general audit team	N/A	There was no additional surface disturbance outside of already disturbed areas during the IEA period.	Not triggered	
	In the event that significant European heritage material is uncovered anywhere during the course of the modification works, the Heritage Branch of the OEH will be notified and any required management strategies will be instigated.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
Greenhouse Gas	The gas flares will be operated un-manned through a communication network to RUM, which will assist operational reliability to reach an anticipated 90%	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
	Continued implementation of the energy efficiency opportunities identified in the Energy Efficiency Action Plan.	EMM general audit team	N/A	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
Visual Amenity	Decommissioning and removal of additional surface infrastructure and subsequent rehabilitation activities will be considered and addressed during the next revision of the Conceptual Mine Closure Plan and in accordance with the Biodiversity, Rehabilitation and Land Management Plan.	EMM general audit team	Ravensworth Underground Mine Rehabilitation Management Plan (RUM RMP) (2023) (RAVUG-27619932-35). Site inspection and interviews. Annual reviews for 2021, 2022, 2023 Executed Contract RUM-002 CV203 Demolition Risk Assessment Demolition Package RA Presentation Notice of de-energisation clearance for demolition - CV-0203 signed	The mine closure project for RUM commenced in 2022. As a result, there were numerous structures demolished during the audit period including redundant structures at RUM and the CHPP.	Compliant	
Socio-Economic	Continual participation in the Ravensworth Complex CCC and project updates in the Ravensworth News.	EMM general audit team	Community Consultative Committee (CCC) meeting minutes. Ravensworth Operations website. *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (DPE 2023)	The Community Consultative Committee (CCC) meet on a quarterly basis with the meeting minutes published on the Ravensworth Operation website. The CCC operates generally in accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (DPE 2023). The CCC is independently chaired by Dr Wej Paradice. Additional CCC members include Cr Godfrey Adamthwaite (Singleton Council) and Patricia Bestic (community member). The CCC covers activities across the open cut, RUM and the CHPP.	Compliant	
	An additional financial contribution will be made to Singleton Council in accordance with Condition 21(ii) of Development Consent DA 104/96 for the current additional 111 full-time employees at the rate specified (indexed by the CPI).	EMM general audit team	Site interview VPA payments: Paymentadvices_20240514024558.889_X Paymentadvices_20240514024629.923_X	EMM sighted 2 VPA payments to Singleton Council on 12/1/23 and 25/1/23. The VPAs are annual road contributions to Council.	Compliant	

A.5 EPL 2652

Table A.5 - EPL 2652

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
1 - Administrative Conditions						
A1 - What the licence authorises and regulates						
A1.1	This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation. Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition. **Scheduled Activity** / **Fee Based Activity** / **Scale** Coal works / Coal works / > 5000000 T annual handing capacity Mining for coal / Mining for coal / > 5000000 T annual production capacity Note: In relation to this licence, the licensee must comply with: a) the activity scale limits imposed by this licence; b) the activity scale limits which apply for the reporting period specified in this licence; and c) the activity scale limits imposed by other legal instruments, such as approvals currently in force under the Environmental Planning and Assessment Act 1979.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	The annual processing limits were not exceeded during the IEA period. ROM coal: - 2021 - 12.9 Mt - 2022 - 13.5 Mt - 2023 - 13.2 Mt	Compliant	
A2 - Premises or plant to which this licence applies						
A2.1	The licence applies to the following premises: **Premises Details** RAVENSWORTH COMPLEX OFF LEMINGTON ROAD RAVENSWORTH NSW 2330 PREMISES DEFINED BY PLAN TITLED "RAVENSWORTH OPERATIONS EPL 2652 / EPL 779 - PROPOSED VARIATION" DATED 13/7/2022 EPA REFERENCE DOC22/602065 AND SHAPE FILES EPA REFERENCE DOC22/600508. UNDERGROUND MINING IN SEAMS PYKES GULLY AND UPPER LIDDELL DEFINED BY PLAN TITLED "RAVENSWORTH COMPLEX" EPL 2652 ENVIRONMENTAL MONITORING LOCATIONS DATED 24/3/2020 EPA REFERENCE DOC20/261652-3.	EMM general audit team	EPL 2652	EMM confirmed the EPL relates to the Ravensworth Operations..	Compliant	
A3 - Other activities						
A3.1	This licence applies to all other activities carried on at the premises, including: **Ancillary Activity** Chemical Storage Crushing, grinding and seperating Sewage treatment: on-site treatment system	EMM general audit team	Site inspection	Chemical storage, crushing, grinding and separating coal, and operation of the sewage treatment plant were all noted during the site inspection. No further works demonstrated during site inspection.	Compliant	
A4 - Information supplied to the EPA						
A4.1	Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence. In this condition the reference to "the licence application" includes a reference to: a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.	EMM general audit team	Site inspection. Annual Returns.	EMM deem that Ravensworth Operations are compliant with this condition.	Compliant	
2 - Discharges to Air and Water and Applications to Land						
P1 - Location of monitoring/discharge points and areas						
P1.1	The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point. **Air** **Air** **EPA identification no.** / **Type of Monitoring Point** / **Type of Discharge Point** / **Location Description** 9 / Particulate Matter Monitoring / / Monitor SX45 G1 at coordinates 318706, 6403417 (Easting Northing) identified as 9 on Figure 1. 10 / Particulate Matter Monitoring / / Monitor SX45 G2 at coordinates 313094, 6412121 (Easting Northing) identified as 10 on Figure 1.	EMM Air quality audit team	Air quality monitoring sites (SX45 G1 and SX45 G2) are included on Figure 2.1 of the AQGHGMP. Annual Reviews for 2021, 2022 & 2023. Environmental Protection Licence Premises Map.	Both monitoring points 9 and 10 shown on the Environment Protection Licence Premises Map and in the AQGHGMP. Data is presented in the Annual Reviews and excerpts of raw data have been sited.	Compliant	
P1.2	The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.	EMM general audit team	Noted.	EPL 12 known as the STP Discharge Point is related to MIA STP monitoring and discharge to Facilities Dam. EPL12 monitors effluent quality discharge to Utilisation Area.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
P1.3	The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point. **Water and Land** Licence - 2652 **EPA Identification no.** / **Type of Monitoring Point** / **Type of Discharge Point** / **Location Description** 2 / Hunter River Salinity Trading Scheme (HRSTS) discharge water volume monitoring and water quality monitoring / Hunter River Salinity Trading Scheme (HRSTS) discharge water volume monitoring and water quality monitoring / Clutter wicks from water management dam at co-ordinates 318986, 6405290 (Easting, Northing) identified as EPL2 on Figure 1. 3 / Tributary monitoring point under Hunter River Salinity Trading Scheme / Bowmans Creek – within 100 metres upstream of the confluence of the flow from discharge Point No. 2 at co-ordinates 317924, 6404941 (Easting, Northing) identified as EPL3 on Figure 1. 4 / Tributary monitoring point under Hunter River Salinity Trading Scheme / Bowmans Creek – within 100 metres downstream of the confluence of the flow from discharge Point No. 2 at co-ordinates 318911, 6405040 (Easting, Northing) identified as EPL4 on Figure 1. 12 / Effluent quality monitoring Discharge to Utilisation Area / MBA STP monitoring and discharge to Kurrajong Dam at co-ordinates 314375, 6406450 (Easting, Northing) identified as STP Discharge Point on Figure 1. 19 / Ambient water quality monitoring / Monitoring (insert name) at co-ordinates 314045 6404638 (Easting, Northing) identified as W115 on Figure 1. 20 / Ambient water quality monitoring / Monitoring (insert name) at co-ordinates 313604 6407098 (Easting, Northing) identified as W122 on Figure 1. 21 / Ambient water quality monitoring / Monitoring (insert name) at co-ordinates 314588 6409306(Easting, Northing) identified as W114 on Figure 1. 22 / Ambient water quality monitoring / Monitoring (insert name) at co-ordinates 314251 6100456 (Easting, Northing) identified as W113 on Figure 1. 23 / Ambient water quality monitoring / Monitoring (insert name) at co-ordinates 313444 6410788 (Easting, Northing) identified as W132 on Figure 1. 24 / Ambient water quality monitoring / Monitoring (insert name) at co-ordinates 314430 6412144 (Easting, Northing) identified as W11 on Figure 1. 25 / Ambient water quality monitoring / Monitoring (insert name) at co-ordinates 312540 6414383 (Easting, Northing) identified as W10 on Figure 1. 28 / Discharge to pipeline. / Coal tailings transfer to Mt Owen Complex Mines at co-ordinates 313249 6413016 (Easting, Northing) identified as TS1 on Figure 1.	EMM general audit team	Water Management Plan (2024) (RAVOC-1007099517-67). DPHI approval of WMP on 9 February 2024. Site inspection and interviews.	A Surface Water Management Plan is attached as Appendix D to the WMP, with monitoring discussed in Section 6.1 of the WMP. All monitoring results are reported in the Annual Reviews and EPL Annual Returns and made available on the website.	Compliant	
P1.4	The following points referred to in the table below are identified in this licence for the purposes of weather and/or noise monitoring and/or setting limits for the emission of noise from the premises. **Noise/Weather** ***Noise/Weather*** **EPA identification no.** / **Type of monitoring point** / **Location description** 7 / Air blast overpressure & ground vibration peak particle velocity monitoring / Blast monitor at co-ordinates 320424 6405760 (Easting, Northing) identified as 7 on Figure 1. 8 / Air blast overpressure & ground vibration peak particle velocity monitoring / Blast monitor at co-ordinates 318940, 6403108 (Easting, Northing) identified as 8 on Figure 1. 13 / Meteorological Station – to determine meteorological conditions for noise monitoring / Weather Station at co-ordinates 314276 6408601 (Easting, Northing) identified as 13 on Figure 1. 14 / Noise monitoring / NMG1 at co-ordinates 320948 6405633 (Easting, Northing) identified as NM1 on Figure 1. 15 / Noise monitoring / NMG2 at co-ordinates 320444 6404981 (Easting, Northing) identified as NM2 on Figure 1. 16 / Noise monitoring / NMG3 at co-ordinates 318900 6403180 (Easting, Northing) identifed as NM3 on Figure 1. *Note: The datum for grid references in this licence is the Geodetic Datum of Australia 1994 (GDA94), Zone 56.*	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Blast Management Plan (RAVCX-307024981-4092) Monthly EPL reports Monthly noise monitoring reports	Noise and blast monitoring reports indicate monitoring occurred at correct locations	Compliant	
P1.5	For the purpose of Condition P1.1, P1.3 and P1.4 Figure 1 refers to the plan titled "Ravensworth Complex EPL 2652 Environmental Monitoring Locations" dated 21/3/2021 EPA Reference DOC21/233801.	EMM general audit team	N/A	Noted	Not triggered	
3 - Limit Conditions						
L1 - Pollution of waters						
L1.1	Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the *Protection of the Environment Operations Act 1997* .	EMM general audit team	Annual Reviews for 2021, 2022, 2023. EPL 2652 Annual Returns	There was no pollution to waters in accordance with EPL 2652 or section 120 of the POEO Act.	Compliant	
L2 - Concentration limits						
L2.1	For each monitoring/discharge point or utilisation area specified in the table\s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.	EMM general audit team	Annual Reviews for 2021, 2022, 2023. EPL 2652 Annual Returns	There were no exceedances of the water/land concentration limits during the IEA period.	Compliant	
L2.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.	EMM general audit team	Annual Reviews for 2021, 2022, 2023. EPL 2652 Annual Returns	There were no exceedances of the water/land concentration limits during the IEA period.	Compliant	
L2.3	To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\s.	EMM general audit team	Annual Reviews for 2021, 2022, 2023. EPL 2652 Annual Returns	There were no exceedances of the water/land concentration limits during the IEA period.	Compliant	
L2.4	**Water and/or Land Concentration Limits** **POINT 2** **Pollutant** / **Units of Measure** / **-** / **-** / **-** / **100 percentile concentration limit** pH / pH / 6.5-9.5 Total suspended solids / milligrams per litre / 120	EMM general audit team	Annual Reviews for 2021, 2022, 2023. EPL 2652 Annual Returns	There were no exceedances of the water/land concentration limits during the IEA period.	Compliant	
L3 - Volume and mass limits						
L3.1	L3.1 For each discharge point or utilisation area specified below (by a point number), the volume/mass of: a) liquids discharged to water; or; b) solids or liquids applied to the area; must not exceed the volume/mass limit specified for that discharge point or area. **Point** / **Unit of Measure** / **Volume/Mass Limit** 2 / megalitres per day / 400	EMM general audit team	Annual Reviews for 2021, 2022, 2023. EPL 2652 Annual Returns	There were no exceedances of the volume and mass limits at EPL 2 during the IEA period.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
L4 Waste						
L4.1	The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below. Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below. Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below. This condition does not limit any other conditions in this licence. Code: NA; Waste: Mulched Vegetation; Description: Mulch used in mine rehabilitation.; Activity: -; Other Limits: The Licensee must comply with the Mulch exemption 2016. Code: NA; Waste: Compost (The compost exemption 2016-NSW EPA); Description: Compost used as soil ameliorant for mine rehabilitation.; Activity: -; Other Limits: The Licensee must comply with the Compost exemption 2016. Code: NA; Waste: Garden waste; Description: Pasteurised garden organics for use as an ameliorant for mine rehabilitation; Activity: -; Other Limits: The Licensee must comply with the Pasteurised garden organics exemption 2016.	EMM general audit team	Remondis letter dated 25/5/2022. Receipts of supplied compost.	EMM sighted a letter from Remondis confirming products supplied comply with the requirements set out in the New South Wales EPA Compost order 2016.	Compliant	
L4.2	The Licensee must not dispose of waste generated on the premises, on the premises, unless authorised by a condition of this Licence.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Waste Management Plan (2023) (RAVCX-307024981-6054). Waste records. Site inspection and interviews. Waste inspection reports. EPL Annual Returns.	Waste records are reported in the Annual Reviews. Waste is transported off site monthly by appropriately licenced waste removalist and disposed of/recycled at appropriate facilities. Only tyres are disposed of inpit in accordance with Condition L4.4 and O5.1 of EPL 2652.	Compliant	
L4.3	The Licensee is authorised to receive saline mine water from Liddell Coal Mine and the Mt Owen Complex for storage and use in activities authorised by this Licence.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023.	Saline mine water from Liddell Coal Mine and the Mt Owen Complex is authorised under the Greater Ravensworth Water and Tailings Scheme (GRAWTS).	Compliant	
L4.4	The Licensee must not dispose of more than 2000 tonnes of heavy Plant-tyres on the premises in any annual return year period.	EMM general audit team	Annual Returns. Heavy Plant-Tyre Disposal Reports Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews.	As reported in the Heavy Plant-Tyre Disposal Reports, Ravensworth Operations did not exceed the 2,000t limit. 2021 - 1,545.9 t 2022 - 1,900.3 t 2023 - 1,639.5 t	Compliant	
L5 - Noise Limits						
L5.1	Noise generated at the premises must not exceed the noise limits presented in the table below. Location: Residence 3 in NMG2; Day LAeq(15 minute): 35; EveningLAeq(15 minute): 35; Night LAeq(15 minute): 35; Night LA1(1minute): 45 Location: Residence 13 in NMG2; Day LAeq(15 minute): 38; EveningLAeq(15 minute): 38; Night LAeq(15 minute): 38; Night LA1(1minute): 45 Location: All other privately-owned land in NMG3; Day LAeq(15 minute): 35; EveningLAeq(15 minute): 35; Night LAeq(15 minute): 35; Night LA1(1minute): 45 Location: All privately-owned land in NMG4; Day LAeq(15 minute): 35; EveningLAeq(15 minute): 35; Night LAeq(15 minute): 35; Night LA1(1minute): 45 Location: EPA Point 14 in NMG1; Night LAeq(15 minute): 35; Night LA1(1minute): 45 Location: EPA Point 15 in NMG2; Night LAeq(15 minute): 35; Night LA1(1minute): 45 Location: EPA Point 16 in NMG3; Night LAeq(15 minute): 38; Night LA1(1minute): 45	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports Monthly EPL reports Internal notes: EPA Point 16 is at Residence 3 but has limits for Residence 13. Residence 3 is Acquisition Upon Request in the consent, but has noise limits here which have been correctly adjusted in monthly noise reports.	Site complied with noise limits during all attended noise monitoring.	Compliant	
L5.2	For the purposes of Condition L5.1 NMGs and sensitive receiver locations are derived from Project Approval 09_0176 Mod 3 February 2016 EPA Reference DOC20/261652-1. The NMGs are derived from the report titled "Ravensworth Surface Operations Noise Management Groups for Environment Protection Licence 2652" dated February 2020 and prepared by Global Acoustics Pty Ltd EPA Reference DOC20/261652-4.	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports Monthly EPL reports Internal notes: EPA have adopted some but not all recommendations made in the 2020 report.	Noted.	Compliant	
L5.3	For the purpose of Condition L5.1. Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sundays and Public Holidays; Evening is defined as the period from 6pm to 10pm; Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sundays and Public Holidays.	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports Monthly EPL reports	Compliant with this condition, however, periods defined in the NMP are not consistent with these. Refer to condition M10.2 for related findings and recommendation.	Compliant	
L5.4	The noise limits set out in condition L5.1 apply under all meteorological conditions except for any one of the following: a) Wind speeds greater than 3 metres/second at 10 metres above ground level; or b) Stability category G temperature inversion conditions; or c) Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level.	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports Monthly EPL reports	Monitoring was generally conducted when noise limits were applicable, in accordance with the NSW EPA "Approved methods for the measurement and analysis of environmental noise in NSW" (2022)	Compliant	
L5.5	For the purposes of condition L5.4: a) Data recorded by the meteorological station on the premises at EPA Point 13 must be used to determine meteorological conditions; and b) Stability category temperature inversion conditions are to be determined by the sigma-theta method referred to in Part E4 of Appendix E of the NSW Industrial Noise Policy.	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports Monthly EPL reports	Monthly noise report for September 2021 contains references to "Z" stability category when wind speed are calm. This is not in accordance with Appendix E of the INP.	Non-compliant	NC5
L5.6	Determining noise compliance limits: a) Class 1 or 2 noise monitoring equipment as defined by AS IEC61672.1-2004 and AS IEC61672.2-2004, or other noise monitoring equipment accepted by the EPA in writing must be used.	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports Monthly EPL reports	Calibration certificates indicated Class 1 monitoring equipment was typically used.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
L6 -Blasting						
L6.1	Blasting in or on the premises must only be carried out between 9:00am and 5:00pm, Monday to Saturday. Blasting in or on the premises may be carried out between 7:00am and 9:00am Monday to Saturday where the licensee can demonstrate that it is necessary to proactively manage safety and environmental issues that have been identified and recorded by the licensee. Blasting in or on the premises must not take place on Sundays or Public Holidays without the prior approval of the Secretary of Planning. *Note: This condition does not apply to minor blasting associated with underground mining operations.*	EMM Noise audit team	Blast Management Plan (RAVCX-307024981-4092) EPL Blast Monitoring Reports Quarterly Environmental Monitoring Reports	Blasting only occurred during approved hours and days.	Compliant	
L6.2	The airblast overpressure level from blasting operations in or on the premises must not exceed: 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; at either monitoring point 7 or 8 in Condition P1.4.	EMM Noise audit team	Blast Management Plan (RAVCX-307024981-4092) EPL Blast Monitoring Reports Quarterly Environmental Monitoring Reports	Site complied with noise limits during all blast monitoring.	Compliant	
L6.3	The airblast overpressure level from blasting operations in or on the premises must not exceed: 120 dB (Lin Peak) at any time; at either monitoring point 7 or 8 in Condition P1.4.	EMM Noise audit team	Blast Management Plan (RAVCX-307024981-4092) EPL Blast Monitoring Reports Quarterly Environmental Monitoring Reports	Site complied with noise limits during all blast monitoring.	Compliant	
L6.4	The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed: 5 mm/second for more than 5% of the total number of blasts during each reporting period; at either monitoring point 7 or 8 in Condition P1.4	EMM Noise audit team	Blast Management Plan (RAVCX-307024981-4092) EPL Blast Monitoring Reports Quarterly Environmental Monitoring Reports	Site complied with noise limits during all blast monitoring.	Compliant	
L6.5	The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed: 10 mm/second at any time; at either monitoring point 7 or 8 in Condition P1.4.	EMM Noise audit team	Blast Management Plan (RAVCX-307024981-4092) EPL Blast Monitoring Reports Quarterly Environmental Monitoring Reports	Site complied with noise limits during all blast monitoring.	Compliant	
L6.6	Offensive blast fume must not be emitted from the premises. *Definition:* *Offensive blast fume means post-blast gases from the detonation of explosives at the premises that by reason of their nature, duration, character or quality, or the time at which they are emitted, or any other circumstances:* *1. are harmful to (or likely to be harmful to) a person that is outside the premises from which it is emitted, or* *2. interferes unreasonably with (or is likely to interfere unreasonably with) the comfort or repose of a person who is outside the premises from which it is emitted.*	EMM Air quality audit team	Annual Reviews for 2021, 2022 & 2023. Complaints register for 2021, 2022, 2023 & 2024 (Jan - May).	No complaints regarding blast fumes were received during the audit period.	Compliant	
L7 - Potentially offensive odour						
L7.1	No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997. *Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.*	EMM Air quality audit team	Annual reviews for 2021, 2022 & 2023. Complaints register for 2021, 2022, 2023 & 2024 (until June).	No complaints regarding odour were received during the audit period.	Compliant	
4 - Operating Conditions						
O1 - Activities must be carried out in a competent manner						
O1.1	Licensed activities must be carried out in a competent manner. This includes: a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity	EMM general audit team	Site inspection and interviews.	Generally compliant with this condition.	Compliant	
O2 - Maintenance of plant and equipment						
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient manner.	EMM general audit team	Weekly and annual maintenance plans Service records: TR564 Service WO, GR1107 Service WO, DZ827 Service WO Calibration certificates: 45 D1 20230405 10M, 45 D2 20230303 10M, 46 Noise Maint 20230817, SW 20240214, GW 20240215	EMM sighted examples of regular maintenance reports for plant and equipment. And examples of calibration certificates. Ravensworth Operation implement weekly and annual maintenance plans for all equipment and machinery. Equipment and machinery is typically maintained based on hours operated.	Compliant	
O2.2	**Sewage Treatment System** The licensee is responsible for the correct operation of the sewage treatment system on the premise.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews. Annual Returns.	On-site sewage is treated through a system which is managed/approved by Singleton Council. Sewage results and maintenance records are reported as part of the EPL Annual Returns.	Compliant	
O2.3	Correct operation involves regular supervision and system maintenance. The licensee must be aware of the system management requirements and must ensure that the necessary service contracts are in place.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews. Annual Returns.	Ravensworth Operations operates three sewage treatment systems at the Open Cut, the CHPP and RUM. The sewage treatment systems at the open cut and CHPP are maintained on a monthly basis by Garden Master Wastewater Solutions. The treatment system at RUM is maintained quarterly by All Septic Services.	Compliant	
O2.4	The sewage treatment system must be serviced by a suitably qualified and experienced wastewater technician at least once in each quarterly period and a minimum of four times per year.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews. Annual Returns.	The sewage treatment systems at the open cut and CHPP are maintained on a monthly basis by Garden Master Wastewater Solutions. The treatment system at RUM is maintained quarterly by All Septic Services. All results are reported in the Annual Returns.	Compliant	
O2.5	The licensee must record each inspection and any actions required or recommended by the technician including all results of tests performed on the sewage treatment system by the technician as required in Condition O2.4.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews. Annual Returns.	The sewage treatment systems at the open cut and CHPP are maintained on a monthly basis by Garden Master Wastewater Solutions. The treatment system at RUM is maintained quarterly by All Septic Services. All results are reported in the Annual Returns.	Compliant	
O2.6	The licensee must prepare a sewage treatment system maintenance program. The program must include: a) Certification from the system provider that the sewage treatment system is operating within its capacity; b) Date, time and results of all routine maintenance procedures undertaken to the sewage treatment system; and c) Provide written records of each quarterly inspection.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews. Annual Returns.	The sewage treatment systems at the open cut and CHPP are maintained on a monthly basis by Garden Master Wastewater Solutions. The treatment system at RUM is maintained quarterly by All Septic Services. All results are reported in the Annual Returns.	Compliant	
O3 - Dust						
O3.1	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.	EMM Air quality audit team	AQGHGMP. Complaints records. Site inspection.	Management measures are detailed in the AQGHGMP and Annual Review Reports. Site inspection observations: - management measures such as water sprays were sighted in use during site inspection - evidence of dust during tipping - see Photograph F.5 in Appendix F of the Audit report. It is noted that a water truck was seen travelling to the access roads to this area and management measures were being implemented on site at time of site inspection. **Recommendation 8:** Watering, where practicable, of exposed areas in the event of excessive dust generation.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
O3.2	All trafficable areas, coal storage areas and vehicle manoeuvring areas in or on the premises must be maintained, at all times, in a condition that will minimise the generation, or emission from the premises, of wind-blown or traffic generated dust.	EMM Air quality audit team	AQGHGMP. Annual Reviews for 2021, 2022 & 2023. Site inspection.	Management measures are detailed in the AQGHGMP and Annual Review Reports. Site inspection observations: - Water sprays were sighted in use during site inspection.	Compliant	
O3.3	Activities occurring in or on the premises must be carried out in a manner that will minimise the generation, or emission from the premises, of wind-blown or traffic generated dust.	EMM Air quality audit team	AQGHGMP. Complaints records. Site inspection.	Management measures are detailed in the AQGHGMP and Annual Review Reports. Site inspection observations: - management measures such as water sprays were sighted in use during site inspection - evidence of dust during tipping - see Photograph F.5 in Appendix F of the Audit report. It is noted that a water truck was seen travelling to the access roads to this area and management measures were being implemented on site at time of site inspection. **Recommendation 8:** Watering, where practicable, of exposed areas in the event of excessive dust generation.	Compliant	
O4 - Emergency response						
O4	*Note: The licensee must maintain, and implement as necessary, a current Pollution Incident Response Management Plan (PIRMP) for the premises. The licensee must keep the incident response plan on the premises at all times. The incident response plan must document systems and procedures to deal with all types of incidents (e.g. spills, explosions or fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment. The licensee must develop a Pollution Incident Response Management Plan in accordance with the requirements in Part 5.7A of the Protection of the Environment Operations (POEO) Act 1997 and POEO regulations.*	EMM general audit team	Pollution Incident Response Management Plan (PIRMP) (RAVOC-1007099517-67). Review of the Protection of the Environment Operations (General) Regulation 2022.	A copy of the PIRMP is made available at the Ravensworth office and on the website. The PIRMP was tested annually on 13 October 2021, 12 October 2022 and 28 September 2023.	Compliant	
O5 - Waste management						
O5.1	**Heavy Plant-Tyre Disposal** The Licensee is authorised to dispose of heavy Plant-tyre waste generated on the premises, in the pit. The Licensee must: a) ensure that heavy Plant waste tyres are re-used on the premises as much as practical; b) ensure that any surplus heavy Plant waste tyres can be emplaced by being spread out on the pit-floor and buried as deep as practical, but, covered by at least 20m of inert material beneath any final rehabilitated surface; c) place heavy Plant waste tyres at least 10m away from coarse reject material or tailings emplacement areas; d) not place any heavy Plant waste tyres near heated material or carbonaceous material; and e) not place any heavy Plant waste tyres in an area likely to leach to any water-coarse.	EMM general audit team	Annual Returns. Heavy Plant-Tyre Disposal Reports Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews.	Heavy Plant-Tyre Disposal Reports are provided as part of the Annual Returns. a) Heavy plant tyres are repaired where possible before being scrapped. b) Heavy waste plant tyres are stored at the open cut tyre pad prior to disposal where a suitable area for disposal is available within the back filled mine void. open cut procedures require that heavy vehicle tyres must not be placed within 20 m of the final landform surface and covered by inert material. c) Tyres are not disposed of near any tailings emplacement areas and at least 10 m away from any coarse rejects. Disposal locations are identified by the Technical Services Department whom consider the relevant EPL Conditions when selecting a location. d) Tyres are not disposed of near any heated material (spontaneous combustion) or carbonaceous material. Dump locations are identified by the Technical Services Department whom consider the relevant EPL Conditions when selecting a location. e) Tyres are placed within in the open cut void at the open cut where they are unlikely to leach to any watercourse.	Compliant	
O6 - Other operating conditions						
O6.1	There must be no incineration or open burning of any material(s) on the premises, except as specifically authorised by the EPA.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Site inspection and interviews. Annual Returns.	There was no incineration or open burning of any materials during the IEA period.	Compliant	
O6.2	All above-ground tanks containing material that is likely to cause environmental harm must be bunded or have an alternative spill containment system in place.	EMM general audit team	Site inspection and interviews.	During the site inspection, EMM sighted the above ground tanks that were appropriately bunded.	Compliant	
5 - Monitoring and Recording Conditions						
M1 Monitoring records						
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	EMM general audit team	Monitoring records and reports.	All monitoring reports are retained by Ravensworth Operation.	Compliant	
M1.2	All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them.	EMM general audit team	Monitoring records and reports.	a) Monthly environmental monitoring reports provides monthly monitoring data in a legible form. b) Monthly environmental monitoring reports are available on company website from June 2011 to May 2024. c) Data requested following complaints ie blast records. These have been provided to the EPA as requested.	Compliant	
M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: a) the date(s) on which the sample was taken; b) the time(s) at which the sample was collected; c) the point at which the sample was taken; and d) the name of the person who collected the sample.	EMM general audit team	Monitoring records and reports.	a) dates of sampling are presented in monthly reports. b) times are reported for all monitoring. c) sample points are recorded. d) appended to monthly reports provided by consultants. Sighted during site inspection.	Compliant	
M2 - Requirement to monitor concentration of pollutants discharged						
M2.1	For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:	EMM general audit team	Monitoring records.	Noted.	Compliant	
M2.2	**Air Monitoring Requirements** POINT 9,10 Pollutant: PM10 Units of measure: micrograms per cubic metre Frequency: Continuous Sampling Method: AM-22	EMM Air quality audit team	Annual Reviews for 2021, 2022 & 2023 Monthly Environmental Report (Jan - May 2024)	Monitoring installed that is capable of continuous measurement.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
M2.3	**Water and/or Land Monitoring Requirements** **POINT 2** **Pollutant / Units of measure / Frequency / Sampling Method** Conductivity / microsiemens per centimetre / Continuous during discharge / A probe designed to measure the range 0 to 10,000 uS/cm pH / pH / Daily during any discharge / Grab sample Total suspended solids / milligrams per litre / Daily during any discharge / Grab sample Turbidity / nephelometric turbidity units / Continuous during discharge / In line instrumentation **POINT 3** **Pollutant / Units of measure / Frequency / Sampling Method** Conductivity / microsiemens per centimetre / Daily during any discharge / Grab sample **POINT 4** **Pollutant / Units of measure / Frequency / Sampling Method** Conductivity / microsiemens per centimetre / Daily during any discharge / Grab sample	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	Monitoring was completed generally in accordance with this condition. However, the following non-compliances occurred during the IEA period. 2021 On three (3) occasions access to EPL 3 to collect water samples was impeded due to flooding from Bowmans Creek. Due to safety concerns, samples were not collected on 27/11/21 and 28/11/21 following the completion of discharge on 26/11/21. It is noted that grab samples were collected during times of discharge. 2022 Due to localised and regional flooding events, there was no safe access to sample EPL 3 and EPL 4 following discharge. As a result, 9 grab samples from EPL 3 and 4 grab samples from EPL 4 were missed. Samples were collected from EPL 2 on all occasions ensuring discharge water remained compliant with EPL 2652 water quality requirements. The HRSTS discharge monitoring system has been reviewed externally by Ampcontrol and tested. Fault alarms are in place to notify relevant site personnel immediately should communication or power failure issues occur.	Non-compliant	NC6
M3 - Testing methods - concentration limits						
M3.1	Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with: a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.	EMM Air quality audit team	AQGHGMP. Annual Reviews for 2021, 2022 & 2023.	Details of the monitors and locations are provided in the AQGHGMP. EPL 2652 describes monitoring points 9 and 10 (SX45 G1 and SX45 G2 respectively).	Compliant	
M3.2	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted. *Note: The Protection of the Environment Operations (Clean Air) Regulation 2021 requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".*	EMM general audit team	Noted.	EPL 12 known as the STP Discharge Point is related to MIA STP monitoring and discharge to Facilities Dam. EPL12 monitors effluent quality discharge to Utilisation Area.	Compliant	
M4 - Weather monitoring						
M4.1	At the point(s) identified below, the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1 of the table below, using the corresponding sampling method, units of measure, averaging period and sampling frequency, specified opposite in the Columns 2, 3, 4 and 5 respectively. **POINT 13** **Parameter / Sampling method / Units of measure / Averaging period / Frequency** Rainfall / AM-4 / millimetres per hour / 15 minutes / Continuous Temperature at 10 metres / AM-4 / degrees Celsius / 15 minutes / Continuous Wind Speed at 10 metres / AM-2 & AM-4 / metres per second / 15 minutes / Continuous Wind Direction at 10 metres / AM-2 & AM-4 / Degrees / 15 minutes / Continuous Sigma Theta / AM-2 & AM-4 / Degrees / 15 minutes / Continuous Relative humidity / AM-4 / percent / 15 minutes / Continuous	EMM Air quality audit team	Annual reviews for 2021, 2022 & 2023. Monthly Environmental Monitoring Reports (Jan-May 2024). Monitoring data in Excel sheet.	Monitoring installed capable of measuring relevant parameters required by this condition.	Compliant	
M5 - Recording of pollution complaints						
M5.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.	EMM general audit team	Complaints records.	There were four complaints during the IEA period, all related to blasting. Annual complaints summaries for 2021, 2022, 2023 and 2024 are available on the Ravensworth Operation website.	Compliant	
M5.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) if no action was taken by the licensee, the reasons why no action was taken.	EMM general audit team	Complaints records.	There were four complaints during the IEA period, all related to blasting. Annual complaints summaries for 2021, 2022, 2023 and 2024 are available on the Ravensworth Operation website.	Compliant	
M5.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	EMM general audit team	Complaints records.	There were four complaints during the IEA period, all related to blasting. All complaints are kept within the Glencore CMO system for more than 4 years. Annual complaints summaries for 2021, 2022, 2023 and 2024 are available on the Ravensworth Operation website.	Compliant	
M5.4	The record must be produced to any authorised officer of the EPA who asks to see them.	EMM general audit team	Complaints records.	There were four complaints during the IEA period, all related to blasting. Annual complaints summaries for 2021, 2022, 2023 and 2024 are available on the Ravensworth Operation website and can be made available to the EPA if requested.	Compliant	
M6 - Telephone complaints line						
M6.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	EMM general audit team	Ravensworth Operation website.	The Ravensworth Operation website displays the environment and community enquiries number and operation enquiries phone numbers.	Compliant	
M6.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.	EMM general audit team	Ravensworth Operation website.	The Ravensworth Operation website displays the environment and community enquiries number and operation enquiries phone numbers.	Compliant	
M6.3	The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.	EMM general audit team	Noted.	Noted.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
M7 - Requirement to monitor volume or mass						
M7.1	For each discharge point or utilisation area specified below, the licensee must monitor: a) the volume of liquids discharged to water or applied to the area; b) the mass of solids applied to the area; c) the mass of pollutants emitted to the air; at the frequency and using the method and units of measure, specified below. POINT 2 Frequency: Continuous during discharge Unit of Measure: megalitres per day Sampling Method: Ultrasonic flow meter	EMM general audit team	Annual reviews for 2021, 2022, 2023. EPL 2652 Annual Returns	Surplus surface water at Ravensworth Complex is transferred to RCHPP or discharged from the Narama Dam to the Hunter River via Bowmans Creek under the conditions of Ravensworth Operations EPL 2652 and the HRSTS or transferred to other Glencore mine sites under the GRAWTS. EPL 2652 permits a maximum discharge of 400 ML/day from the Narama In-pit Storage Dam under the HRSTS Regulations. In 2021, ROC discharged 1,511 ML from the Narama In-pit Storage Dam under the conditions of the HRSTS and EPL 2652, with a total of 2.4 ML of unregulated discharges from ROC occurred during 2021. In 2022, the hourly discharge rate was exceeded on 40 x one hour occasions spread across 22 days where HRSTS discharge block had been published. The exceedances were reported in the Annual Reviews and Annual Returns. Ravensworth Operation is compliant with this condition as monitoring continually occurred.	Compliant	
M8 - Blasting						
M8.1	To determine compliance with conditions L6.2, L6.3, L6.4 and L6.5: a) Airblast overpressure and ground vibration levels must be measured and electronically recorded for monitoring points 7 and 8 for the parameters specified in Column 1 of the table below; and b) The licensee must use the units of measure, sampling method, and sample at the frequency specified opposite in the other columns. Parameter: Airblast Overpressure; Units of Measure: Decibels (Linear Peak); Frequency: All blasts; Sampling Method: Australian Standard AS 2187.2-2006 Parameter: Ground Vibration Peak Particle Velocity; Units of Measure: millimetres/second; Frequency: All blasts; Sampling Method: Australian Standard AS 2187.2-2006	EMM Noise audit team	Blast Management Plan (RAVCX-307024981-4092) EPL Blast Monitoring Reports Quarterly Environmental Monitoring Reports	This has been changed to compliant as the missed blast was not related to either of the blast monitoring locations required by the EPL.	Compliant	
M9 - Other monitoring and recording conditions						
M9.1	**Hunter River Salinity Trading Scheme (HRSTS) Monitoring** The licensee must continuously operate and maintain communication equipment which makes the conductivity and flow measurements, taken at Point 2 available to the "Service Coordinator" within one hour of those measurements being taken and makes them available in the format specified in the "Hunter River Salinity Trading Scheme Discharge Point Telemetry Specification - Rev V1.0 released 4 October 2018" as published by WaterNSW.	EMM general audit team	Annual reviews for 2021, 2022, 2023. EPL 2652 Annual Returns	Surplus surface water at Ravensworth Complex is transferred to RCHPP or discharged from the Narama Dam to the Hunter River via Bowmans Creek under the conditions of Ravensworth Operations EPL 2652 and the HRSTS or transferred to other Glencore mine sites under the GRAWTS. EPL 2652 permits a maximum discharge of 400 ML/day from the Narama In-pit Storage Dam under the HRSTS Regulations. In 2021, ROC discharged 1,511 ML from the Narama In-pit Storage Dam under the conditions of the HRSTS and EPL 2652, with a total of 2.4 ML of unregulated discharges from ROC occurred during 2021. In 2022, the hourly discharge rate was exceeded on 40 x one hour occasions spread across 22 days where HRSTS discharge block had been published. The exceedances were reported in the Annual Reviews and Annual Returns. <u>2021</u> On three (3) occasions access to EPL 3 to collect water samples was impeded due to flooding from Bowmans Creek. Due to safety concerns, samples were not collected on 27/11/21 and 28/11/21 following the completion of discharge on 26/11/21. It is noted that grab samples were collected during times of discharge. <u>2022</u> Due to localised and regional flooding events, there was no safe access to sample EPL 3 and EPL 4 following discharge. As a result, 9 grab samples from EPL 3 and 4 grab samples from EPL 4 were missed. Samples were collected from EPL 2 on all occasions ensuring discharge water remained compliant with EPL 2652 water quality requirements. The HRSTS discharge monitoring system has been reviewed externally by Ampcontrol and tested. Fault alarms are in place to notify relevant site personnel immediately should communication or power failure issues occur.	Non-compliant	NC7
M9.2	The licensee must ensure that the results of the measurements it takes at the tributary monitoring points are available to the regional water quality monitoring network operated by the NSW Office of Water (or other service provider as advised by the EPA) within 1 hour of its recording.	EMM general audit team	Annual reviews for 2021, 2022, 2023. EPL 2652 Annual Returns	As stated above, there were occasions during the IEA period where sampling did not occur. Therefore, the required results were not submitted to the regional water quality monitoring network.	Non-compliant	NC8
M9.3	The licensee must ensure that all monitoring data is within a margin of error of 5% for conductivity measurements and 10% for discharge flow measurement.	EMM general audit team	Annual Returns Water monitoring reports.	Noted. All water monitoring was completed by qualified professionals.	Compliant	
M9.4	The licensee must mark monitoring point(s) 2, 3 & 4, with a sign which clearly indicates the name of the licensee, whether the monitoring point is up or down stream of the discharge point(s) and that it is a monitoring point for the Hunter River Salinity Trading Scheme.	EMM general audit team	Site photos	EMM sighted photos provided by Ravensworth Operations showing signs installed at the applicable discharge points.	Compliant	
M9.5	**Requirement to Monitor Particulate Matter** The Licensee must record the average PM10 concentration at monitoring points 9 and 10 at intervals of 10 minutes. This data must be made available upon request by any Authorised Officer of the EPA who requests to see them.	EMM Air quality audit team	AQGHGMP. Monitoring data in Excel sheet.	Details of the monitors and parameters are listed in the AQGHGMP. 10 min PM_{10} sample data provided in spreadsheets.	Compliant	
M10 Noise monitoring						
M10.1	To assess compliance with the noise limits specified within this licence, the licensee must undertake operator attended noise monitoring at each specified noise monitoring point in accordance with the table below. POINT 14,15,16 Assessment period: Night; Minimum frequency in a reporting period: Monthly; Minimum duration within assessment period: 15 minutes; Minimum number of assessment period: 1 operation day	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports EPL Noise Assessment Reports	Monitoring occurred at EPA Point 16 before 10:00pm from June 2021 to October 2021. The NMP alters the standard night period to start from 9:00pm, but this alteration is not applicable to the EPL. Refer to Condition L5.3. From November 2021, monitoring at EPA points occurred after 10:00pm. <u>**Recommendation 9:**</u> Update the NMP to be in line with the period definitions outlined in Condition 5.3 of EPL 2652.	Non-compliant	NC9
M10.2	To assess compliance with condition L5.1, attended noise monitoring must be undertaken in accordance with Conditions L5.2 to L5.6: a) at the EPA points 14, 15 and 16 identified in P1.4; and b) occur every calendar month in a reporting period; and d) occur during one night time period as defined in the Noise Policy for Industry 2017 for a minimum of 15 minutes at each location from a), and when relevant b) during the night.	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports EPL Noise Assessment Reports	Monitoring occurred at EPA Point 16 before 10:00pm from June 2021 to October 2021. The NMP alters the standard night period to start from 9:00pm, but this alteration is not applicable to the EPL. Refer to Condition L5.3. From November 2021, monitoring at EPA points occurred after 10:00pm. <u>**Recommendation 9:**</u> Update the NMP to be in line with the period definitions outlined in Condition 5.3 of EPL 2652.	Non-compliant	NC10
M10.3	For the purposes of compliance monitoring and determining the noise generated at the premises the modification factors in the EPA's Fact Sheet C of the Noise Policy for Industry (2017) must be applied, as appropriate, to the noise levels measured by noise monitoring equipment. *Definitions* *Noise refers to 'sound pressure levels' for the purpose of conditions L5.1 to L.5.6 and condition M11.*	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports EPL Noise Assessment Reports	When Ravensworth contributions were within 5 dB of limits, modifying factors were assessed in April 2023. Mod factors were not assessed in Sept 2022, likely due to more dominant noise from another mine.	Compliant	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
M10.4	Where required in writing by the EPA, the Licensee must carry out attended monitoring at sensitive receivers in addition the monitoring required by Condition M11.2.	EMM Noise audit team	Noise Management Plan (NMP) (RAV SD PLN 0062) Monthly noise reports EPL Noise Assessment Reports	Additional monitoring was not required.	Not triggered	
6 - Reporting Conditions						
R1 - Annual return documents						
R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: 1. a Statement of Compliance, 2. a Monitoring and Complaints Summary, 3. a Statement of Compliance - Licence Conditions, 4. a Statement of Compliance - Load based Fee, 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan, 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and 7. a Statement of Compliance - Environmental Management Systems and Practices. At the end of each reporting period, the EPA will provide to the licensee notification that the Annual Return is due.	EMM general audit team	Annual Returns.	All Annual Returns have been submitted to the EPA via the portal and satisfy this condition.	Compliant	
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below. *Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.*	EMM general audit team	Annual Returns.	All Annual Returns have been submitted to the EPA via the portal and satisfy this condition.	Compliant	
R1.3	Where this licence is transferred from the licensee to a new licensee: a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period. *Note: An application to transfer a licence must be made in the approved form for this purpose.*	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
R1.4	Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on: a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
R1.5	The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
R1.6	The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.	EMM general audit team	Annual Returns.	All Annual Returns are retained by site and provided to EMM upon request.	Compliant	
R1.7	Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or b) by a person approved in writing by the EPA to sign on behalf of the licence holder.	EMM general audit team	Annual Returns.	All Annual Returns were signed by the Regional General Manager and the Financial Controller.	Compliant	
R2 - Notification of environmental harm						
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Annual returns. Site inspection and interviews. Email from EPA 12/11/2021	EMM sighted a letter from EPA confirming Ravensworth operation reported the discharge incident via the Environment Line service on 131 555.	Compliant	
R2.2	The licensee must provide written details of the notification to the EPA within 7 days of the date on which they became aware of the incident. *Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.*	EMM general audit team	Letter provided to EPA on 12/11/2021.	EMM sighted a letter to the EPA with details relating to the discharge incident.	Compliant	
R3 - Written report						
R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.	EMM general audit team	Written report to EPA.	Following an incident, Ravensworth Operation provided written notification to the EPA within 7 days of the even occurring. EMM has sighted evidence of the written notifications.	Compliant	
R3.2	The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.	EMM general audit team	Written report to EPA.	Following an incident, Ravensworth Operation provided written notification to the EPA within 7 days of the even occurring. EMM has sighted evidence of the written notifications.	Compliant	
R3.3	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.	EMM general audit team	Written report to EPA.	Following an incident, Ravensworth Operation provided written notification to the EPA within 7 days of the even occurring. EMM has sighted evidence of the written notifications.	Compliant	
R3.4	The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
R4 - Other notifications						
R4.1	**Notification of Pollution of Waters** The Licensee must notify the EPA by telephoning the Environment Line service on 131 555 immediately after the Licensee becomes aware of any contravention or potential contravention of Condition L1 of the Licence	EMM general audit team	Annual Reviews for 2021, 2022 and 2023. Annual returns. Site inspection and interviews. Email from EPA 12/11/2021	EMM sighted a letter from EPA confirming Ravensworth operation reported the discharge incident via the environment Line service on 131 555.	Compliant	
R4.2	The Licensee must provide written details of the notification to the EPA within 7 days of the date of the notification. This may be by email.	EMM general audit team	Letter provided to EPA on 12/11/2021.	EMM sighted a letter to the EPA with details relating to the discharge incident.	Compliant	
R4.3	**Noise Exceedance Notification and Reporting** The licensee must report any exceedance of licence noise limits to the EPA by written notification as soon as practicable after the exceedance becomes know to the licensee or to one of the licensee's employees or agents.	EMM Noise audit team	N/A	Not triggered during the IEA period.	Not triggered	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
R4.4	Within fourteen days of notifying the EPA of an exceedance of Licence noise limits, the Licensee must provide the EPA a written report that explains the cause of the exceedance and the actions taken to prevent future exceedances of noise limits.	EMM Noise audit team	N/A	Not triggered during the IEA period.	Not triggered	
R4.5	An authorised officer of the EPA may request in writing that the Licensee provide a detailed report into the License limit noise exceedance. The report must include: a) the Licensee's acoustic noise monitoring report for the noise monitoring exceedance; b) the cause of the exceedance; c) a list of noise alarms, or other triggers that cause a modification to activities, that were triggered in the two hours before and after the noise limit exceedance; d) all actions taken by the Licensee in response to the noise alarms or other triggers that cause a modification to activities; e) a list of all heavy vehicle plant that was operating in the four hour period referred to in c), including each heavy vehicle plant's sound power levels (SPL) and details of the type of noise attenuation equipment that has been fitted to each plant; f) a plan with the location of all the heavy vehicle plant that was operating in the four hour period referred to in c) including the relative level in metres to Australian Height Datum of the work location (this does not include haul trucks and water carts); g) the location of and time period of the dumps that were being used in the four hour period referred to in c) including their relative level in metres to Australian Height Datum; h) the number of haul trucks that were being operated in the four hour period referred to in c) and the details of the type of noise attenuation fitted to each haul truck; I) all noise complaints reported to the Licensee for the four hour period referred to in c) and the actions taken by the Licensee for each complaint; and J) actions taken by the Licensee to prevent future exceedances of noise limits	EMM Noise audit team	N/A	Not triggered during the IEA period.	Not triggered	
R4.6	**Blast Exceedance Notification and Reporting** The licensee must report any exceedance of blast limits to the EPA by written notification as soon as practicable after the exceedance becomes know to the licensee or to one of the licensee's employees or agents.	EMM Noise audit team	N/A	Not triggered during the IEA period.	Not triggered	
R4.7	Within 14 days of notifying the EPA of an exceedance of Licence blast limits, the Licensee must provide the EPA a written report that explains the cause of the exceedance and the actions taken to prevent future exceedances of blast limits.	EMM Noise audit team	N/A	Not triggered during the IEA period.	Not triggered	
R5 - Other reporting conditions						
R5.1	**Hunter River Salinity Trading Scheme (HRSTS) Reporting** The licensee must compile a written report of the activities under the HRSTS for each HRSTS year. The HRSTS year is the period from 1 July to 30 June each year. The written report must be submitted to the EPA's Hunter regional office within 60 days after the end of each HRSTS year and be in a form and manner approved by the EPA. The information will be used by the EPA to compile an annual HRSTS report	EMM general audit team	HRSTS reports Letters/emails to EPA	EMM sighted emails/letters to the EPA providing the HRSTS reports in August. The letters provided to the EPA include graphical analysis of turbidity measured at EPA Point 2 for the duration of any discharges from EPA Point 2.	Compliant	
R5.2	The Licensee must include graphical analysis of turbidity measured at EPA Point 2 for the duration of any discharges from EPA Point 2 within the HRSTS Report.	EMM general audit team	HRSTS reports Letters/emails to EPA	EMM sighted emails/letters to the EPA providing the HRSTS reports in August. The letters provided to the EPA include graphical analysis of turbidity measured at EPA Point 2 for the duration of any discharges from EPA Point 2.	Compliant	
R5.3	**Noise Assessment Report** A noise compliance assessment report must be submitted to EPA on an annual basis with the Annual Return. The report must be prepared by an accredited acoustical consultant and determine compliance with the noise limits in Condition L5.1. The report must also include any corrective or preventative actions taken where noise levels were identified as exceeding the noise limits in Condition L5.1.	EMM Noise audit team	Annual returns. Noise Assessment Reports.	Noise Assessment Reports were submitted with the Annual Returns	Compliant	
R5.4	**Blast Monitoring Report** The results of the blast monitoring required by the licence must be submitted to the EPA, with each Annual Return, at the end of each reporting period. The monitoring results must identify any exceedance of licence limits.	EMM Noise audit team	Annual returns. Blast Monitoring Reports.	Noise Assessment Reports were submitted with the Annual Returns	Compliant	
R5.5	**Sewage Treatment System Report** The sewage treatment system maintenance program required by Condition O2.6 must be submitted annually to the EPA with the Annual Return.	EMM general audit team	Annual returns. Sewage Treatment System Report.	Sewage Treatment System Reports were submitted with the Annual Returns for 2021, 2022 and 2023.	Compliant	
R5.6	The licensee must retain a copy of each report required by Condition O2.5 for 3 years from the date each record is made	EMM general audit team	Annual Returns. Sewage Treatment System Report. Site inspection and interviews.	The sewage treatment systems at the open cut and CHPP are maintained on a monthly basis by Garden Master Wastewater Solutions. The treatment system at RUM is maintained quarterly by All Septic Services. All results are reported in the Annual Returns and maintained for 3 years..	Compliant	
R5.7	**Heavy Plant-Tyre Disposal Report** The Licensee must provide the EPA with the Annual Return a Heavy Plant-Tyre Disposal Report. The Report must include: a) a plan of the disposed heavy plant waste tyres on the premises for the period that includes: (i) each tyre serial number; (ii) supplier of each tyre; (iii) purchase date of each tyre; (iv) disposal date of each tyre; (v) co-ordinates (easting and northings) of the disposal of each tyre; (vi) the Real Level (RL) in metres AHD of each tyre placed in the pit; (vii) the number of tyres buried in a particular area; and (vii) the cumulative tonnage of tyres disposed of at the premises each year.	EMM general audit team	Annual returns. Heavy Plant-Tyre Disposal Reports.	Heavy Plant-Tyre Disposal Reports were submitted with the Annual Returns for 2021, 2022 and 2023.	Compliant	
7 - General Conditions						
G1 - Copy of licence kept at the premises or plant						
G1.1	A copy of this licence must be kept at the premises to which the licence applies.	EMM general audit team	EPL 2652	A copy of EPL 2652 is kept in the site office.	Compliant	
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	EMM general audit team	N/A	A copy of EPL 2652 was not requested by the EPA during the IEA period.	Not triggered	
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	EMM general audit team	Noted.	A copy of EPL 2652 is kept in the site office. This will be made available for any inspection or employee/agent, if required.	Not triggered	

Section	Requirement	Audit team responsible for condition	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
G2 - Other general conditions						
G2.1	**Completed Programs** **Program** / **Description** / **Completed Date** Monitor salinity levels at the nearest downstream / During the next HRSTS discharge the licensee must monitor salinity levels at the nearest downstream irrigation off-take point, to coincide with the peak flow of discharge water. A report must be submitted to the RM within 30 days after sampling.. The purpose is to ensure that the discharge of saline water is mixing sufficiently priot to it reaching the nearest downstream irrigailon off-take point. / 29-July-2005 Coal Mine Particulate Matter Control Best Practice. / Requires licensee to conduct a site specific Best Management Practice (BMP) determination to identify ways to reduce particle emissions / 29-June-2012 Particulate Matter Control Best Practice Implementation – Wheel Generated Dust / Implrementation of Particulate Matter best Management Practices to address Wheel Generated Dust / 15-August-2014 Particulate Matter Control Best Practice Implementation – Disturbing and Handling Overburden under Adverse Weather Conditions / Implementation of Particulate Matter Best Practice to address disturbing and handling overburden under adverse weather conditions / 15-August-2014 Particulate Matter Control Best Practice Implementation – Trial of Best Practice Measures for Disturbing and Handling Overburden / Investigation to establish best practice measures for the handling of overburden / 30-July-2014 Coal Mine Wind Erosion of Exposed Land Assessment / Assessment of predicted vs actual exposed land / 28-May-2015	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
8 - Special Conditions						
E1 - Hunter River Salinity Trading Scheme						
E1.1	This licence authorises the discharge of saline water into the Hunter River Catchment from an authorised discharge point (or points), in accordance with the Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002.	EMM general audit team	Noted.	Saline water is discharged to the Hunter River via Bowmans Creek under EPL 2, EPL 3 and EPL 4.	Compliant	
E1.2	This licence authorises the discharge of saline water into the Hunter River Catchment from an authorised discharge point (or points), in accordance with the Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002.	EMM general audit team	Noted.	Saline water is discharged to the Hunter River via Bowmans Creek under EPL 2, EPL 3 and EPL 4.	Compliant	
E1.3	The licensee must not exceed the hourly volume discharge limit calculated using the following formula, at Point 2 of this licence. **H = V / RRT** Where: H is the hourly volume discharge limit (in megalitres per hour); V is the licence holder's volume discharge limit for the block (in megalitres) calculated in accordance with clause 23 of the Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation (2002); and RRT is the difference between the discharge stop and start times shown on the river register for that block (in hours). *Note 1: The intent of this condition is to prevent spikes of saline water in the Hunter River as a result of discharges of less than the duration permitted by the river register.* *Note 2: A river register is issued by the Service Co-ordinator and allows participants of the Hunter River Salinity Trading Scheme (HRSTS) to discharge saline to the Hunter River during a discharge period.*	EMM general audit team	Annual Review and Annual Return for 2022.	Hourly discharge rate was exceeded on 40 x one hour occasions spread across 22 days where HRSTS discharge block had been published. Actual flow rate from the discharge point fluctuated above the calculated hourly rate. Flow rate is dependent primarily on the percentage that the discharge valve is open combined with head pressure (dam level) and thus fluctuations can occur. Site personnel monitored flow rate until it returned to an acceptable level. During pre-discharge calculations to determine flow rate (and thus ensure compliance with condition E1.3) the Electrical Conductivity (EC) value used is higher (conservative) than the actual EC of the discharge water to account for these fluctuations. Ravensworth have reviewed internal procedures relating to pre discharge calculations and valve operation to ensure conservative approach to this calculation is undertaken to reduce the likelihood of discharge flow rate fluctuations resulting in exceedances of hourly flow rates. **Recommendation 4:** Maintain approved hourly discharge rates in accordance with Condition E1.3 of EPL 2652.	Non-compliant	NC11
E2 - Acceptance of wastewater from Bayswater Power Station Void 4 Trial						
E2.1	The licensee may accept up to 500 mega litres of wastewater from the Bayswater Power Station Void 4 for beneficial reuse purposes on the premises.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
E2.2	The licensee must prior to accepting any wastewater from the Bayswater Power Station Void 4, operate and maintain continuous flow volume monitoring equipment on the wastewater transfer line.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
E2.3	The licensee must continuously record the wastewater flow by use of a data logger or other monitoring equipment.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
E2.4	The licensee must notify the EPA within 7 days of when the maximum volume of 500 mega litres of wastewater has been received on the premises.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
E2.5	The licensee must maintain a record of the flow recordings required by this condition for a period of 12 months after any measurement was made or recorded.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	
E2.6	After acceptance of the wastewater the licensee may only discharge the wastewater in accordance with the current conditions of this licence.	EMM general audit team	N/A	Not triggered during the IEA period.	Not triggered	

A.6 Mining Leases

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
CCL 723					
Notice to landholders					
1	(a) Within 90 days from the date of grant or renewal of this mining lease, the lease holder must give each landholder notice in writing: (i) that this mining lease has been granted or renewed; and (ii) whether the lease includes the surface. The notice must include a plan identifying the lease area and each landholder and individual land parcel within the lease area. (b) If there are ten or more landholders to which notice must be given, the lease holder will be taken to have complied with condition 1(a) if a notice complying with condition 1(a) is published in a newspaper circulating in the region where the lease area is situated.	Notification to landowners.	CCL 723 was renewed on 13 February 2023. EMM sighted letters to landowners on 5 May 2023 notifying them of the lease renewal.	Compliant	
Group security					
2	The lease holder is required to provide and maintain a security deposit to secure funding for the fulfilment of obligations under the mining leases covered by the group security deposit, including obligations under each mining lease that may arise in the future. The amount to be provided and maintained as a group security deposit is $11,722,000. The leases covered by the group security include: Consolidated Coal Lease 723 (Act 1973) (This lease) (Head lease) Consolidated Coal Lease 739 (Act 1973) Coal Lease 380 (Act 1973) Coal Lease 580 (Act 1973) Mining Lease 1357 (Act 1992).	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
Cooperation agreement					
3	The lease holder must make every reasonable attempt, and be able to demonstrate its attempts to the satisfaction of the Secretary, to enter into a cooperation agreement with the holder(s) of any overlapping authorisations issued under the Mining Act 1992 and petroleum titles issued under the Petroleum (Onshore) Act 1992. The cooperation agreement should address but not be limited to: • access arrangements • operational interaction procedures • dispute resolution • information exchange • well location • timing of drilling • potential resource extraction conflicts; and • rehabilitation issues.	Cooperation agreement	Cooperation agreements were already in place prior to the IEA period.	Not triggered	
Assessable prospecting operations					
4	(a) The lease holder must not carry out any assessable prospecting operation on land over which this lease has been granted unless: (i) it is carried out in accordance with any necessary development consent; or (ii) if development consent is not required, the prior written approval of the Minister has been obtained. (b) The Minister may require the lease holder to provide such information as required to assist the Minister to consider an application for approval. (c) An approval granted by the Minister under this condition may be granted subject to terms. (d) The lease holder must comply with the approval granted to the holder under this condition.	N/A	No exploration activities undertaken within CCL723 during audit period	Not triggered	
Special conditions					
5	(a) The lease holder must not mine within any part of the lease area which is within the notification area of the Ravensworth South Tailings Dam without the prior written approval of the Minister and subject to any conditions the Minister may stipulate. (b) Where the lease holder desires to mine within the notification area, the lease holder must: (i) at least twelve (12) months before mining is to commence or such lesser time as the Minister may permit, notify the Minister of the desire to do so. A plan of the mining system to be implemented must accompany the notice; and (ii) provide such information as the Minister may direct. (c) The Minister must not, except in the circumstances set out in sub-paragraph (ii), grant approval unless sub-paragraph (i) of this paragraph has been complied with. (i) This sub-paragraph is complied with if: (a) Dams Safety NSW as constituted by section 6 of the Dams Safety Act 2015 and the owner of the dam have been notified in writing of the desire to mine referred to in paragraph (b). (b) the notifications referred to in clause (a) are accompanied by a description or plan of the area to be mined. (c) the Secretary has complied with any reasonable request made by Dams Safety NSW or the owner of the dam for further information in connection with the mining proposal. (d) Dams Safety NSW has made its recommendations concerning the mining proposal or has informed the Minister in writing that it does not propose to make any such recommendations; and (e) where Dams Safety NSW has made recommendations the approval is in terms that are: - in accordance with those recommendations; or - where the Minister does not accept those recommendations or any of them - in accordance with a determination under sub-paragraph (ii) of this paragraph. (ii) Where the Minister does not accept the recommendations of Dams Safety NSW or where Dams Safety NSW has failed to make any recommendations and has not informed the Minister in writing that it does not propose to make any recommendations, the approval shall be in terms that are, in relation to matters dealing with the safety of the dam: - as determined by agreement between the Minister and the Minister administering the Dams Safety Act 2015; or - in the event of failure to reach such agreement - as determined by the Premier. (d) The Minister, on notice from Dams Safety NSW, may at any time or times: (i) cancel any approval given where a notice pursuant to section 19 of the Dams Safety Act 2015 is given; (ii) suspend for a period of time, alter, omit from or add to any approval given or conditions imposed.	N/A	Ravensworth Operation did not mine through the Ravensworth South Tailings Dam during the IEA period.	Not triggered	
Exploration reporting					
	Note: Exploration Reports (Geological and Geophysical) *The lease holder must lodge reports in accordance with the requirements in section 163C of the Mining Act 1992 and clauses 59, 60 and 61 of the Mining Regulation 2016 as well as any further requirements issued by the Secretary under clause 62 of the Mining Regulation 2016.* *Guidelines for the structure, content and data format requirements for reports are set out in the Exploration Reporting: A guide for reporting on exploration and prospecting in New South Wales.*	N/A	No exploration activities undertaken within CCL723 during audit period	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
CCL 739					
Notice to landholders					
1	Within a period of three months from the date of grant/renewal of this lease or within such further time as the Minister may allow, the lease holder must serve on each landholder of the land a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. An adequate plan and description of the lease area must accompany the notice. If there are ten or more landholders affected, the lease holder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this lease has been granted/renewed; state whether the lease includes the surface and must contain an adequate plan and description of the lease area.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Environmental harm					
2	The proponent shall implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of the development.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Various environmental management plans	Activities carried out in accordance with various management plans designed to mitigate, monitor and manage environmental risks.	Compliant	
Mining operations plan					
3	(a) Mining operations must not be carried out otherwise than in accordance with a Mining Operations Plan (MOP) which has been approved by the Director General of the Department of Primary Industries - Mineral Resources. (b) The MOP must: • identify areas that will be disturbed by mining operations; • detail the staging of specific mining operations; • identify how the mine will be managed to allow mine closure; • identify how mining operations will be carried out on site in order to prevent and or minimise harm to the environment; • reflect the conditions of approval under: - the Environmental Planning and Assessment Act 1979 - the Protection of the Environment Operations Act 1997 - and any other approvals relevant to the development including the conditions of this lease; and • have regard to any relevant guidelines adopted by the Director-General. (c) The titleholder may apply to the Director-General to amend an approved MOP at any time. (d) It is not a breach of this condition if: i) the operations constituting the breach were necessary to comply with a lawful order or direction given under the Mining Act 1992, the Environmental Planning and Assessment Act 1979, Protection of the Environment Operations Act 1997 or the Occupational Health and Safety Act 2000; and ii) the Director-General had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out. (e) A MOP ceases to have affect 7 years after date of approval or other such period as identified by the Director-General. An approved amendment to the MOP under condition 5 does not constitute an approval for the purpose~ of this paragraph unless otherwise identified by the Director General.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Environment management reporting					
4	The lease holder must lodge Environmental Management Reports (EMR) with the Director-General annually or at dates otherwise directed by the Director General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
5	The EMR must: - report against compliance with the MOP; - report on progress in respect of rehabilitation completion criteria; - report on the extent of compliance with regulatory requirements; and - have regard to any relevant guidelines adopted by the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
6	Additional environmental reports may be required on specific surface disturbing operations or environmental incidents from time to time as directed in writing by the Director-General and must be lodged as instructed.	N/A	Not triggered during the IEA period.	Not triggered	
Rehabilitation					
7	Disturbed land must be rehabilitated to a sustainable/agreed end land use to the satisfaction of the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews. All Annual Reviews during the reporting period have been approved. No areas of rehabilitation were approved/signed off by the Department during the IEA period.	Compliant	
Subsidence management					
8	(a) The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface. (b) Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gate roads, installation roads and associated main headings, etc), and pillar extractions, and are otherwise defined by the Applications for Subsidence Management Approvals guidelines (EOG 17). (c) The lease holder must not commence or undertake underground mining operations that will potentially lead to subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the Coal Mine Health and Safety Act 2002, or the document New Subsidence Management Plan Approval Process - Transitional Provisions (EDP09). (d) Subsidence Management Plans are to be prepared in accordance with the Guideline for Applications for Subsidence Management Approvals. (e) Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 2 and will be subject to the Annual Environmental Management Report process as set out under Condition 3. The SMP is also subject to the requirements for subsidence monitoring and reporting set out in the document New Approval Process for Management of Coal Mining Subsidence - Policy.	Extraction Plan	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Working requirement					
9	The lease holder must: (a) ensure that at least one competent person is efficiently employed on the lease area on each week day except Sunday or any week day that is a public holiday, OR (b) expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than $17,500 per annum whilst the lease is in force. The Minister may at any time or times, by instrument in writing served on the lease holder, increase or decrease the expenditure required or the number of people to be employed.	Annual review (2021, 2022, 2023)	At least 1 persons employed on subject area during audit period	Compliant	
Control of operations					
10	(a) If an Environmental Officer of the Department believes that the lease holder is not complying with any provision of the Act or any condition of this lease relating to the working of the lease, he may direct the lease holder to:- (i) cease working the lease; or (ii) cease that part of the operation not complying with the Act or conditions; until in the opinion of the Environmental Officer the situation is rectified. (b) The lease holder must comply with any direction given. The Director-General may confirm, vary or revoke any such direction. (c) A direction referred to in this condition may be served on the Mine Manager.	NA	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
CCL 739					
Reports					
11	The lease holder must provide an exploration report, within a period of twenty-eight days after each anniversary of the date this lease has effect or at such other date as the Director-General may stipulate, of each year. The report must be to the satisfaction of the Director-General and contain the following: (a) Full particulars, including results, interpretation and conclusions, of all exploration conducted during the twelve months period; (b) Details of expenditure incurred in conducting that exploration; (c) A summary of all geological findings acquired through mining or development evaluation activities; (d) Particulars of exploration proposed to be conducted in the next twelve months period;: (e) All plans, maps, sections and other data necessary to satisfactorily interpret the report.	N/A	No exploration activities undertaken within CCL739 during audit period	Not triggered	
License to use reports					
12	(a) The lease holder grants to the Minister, by way of a non-exclusive licence, the right in copyright to publish, print, adapt and reproduce all exploration reports lodged in any form and for the full duration of copyright. (b) The non-exclusive licence will operate as a consent for the purposes of section 365 of the Mining Act 1992.	N/A	Not triggered during the IEA period.	Not triggered	
Confidentiality					
13	(a) All exploration reports submitted in accordance with the conditions of this lease will be kept confidential while the lease is in force, except in cases where: (i) the lease holder has agreed that specified reports may be made nonconfidential; (ii) reports deal with exploration conducted exclusively on areas that have ceased to be part of the lease. (b) Confidentiality will be continued beyond the termination of a lease where an application for a flow-on title was lodged during the currency of the lease. The confidentiality will last until that flow-on title or any subsequent flow-on title, has terminated. (c) The Director-General may extend the period of confidentiality.	N/A	Not triggered during the IEA period.	Not triggered	
Terms of the non-exclusive license					
14	The terms of the non-exclusive copyright licence granted under condition 12 (a) are: (a) the Minister may sub-licence others to publish, print, adapt and reproduce but not on-licence reports; (b) the Minister and any sub-licensee will acknowledge the lease holder's and any identifiable consultant's ownership of copyright in any reproduction of the reports, including storage of reports onto an electronic database; (c) the lease holder does not warrant ownership of all copyright works in any report and, the lease holder will use best endeavours to identify those parts of the report for which the lease holder owns the copyright; (d) there is no royalty payable by the Minister for the licence; (e) if the lease holder has reasonable grounds to believe that the Minister has exercised his rights under the non-exclusive copyright licence in a manner which adversely affects the operations of the lease holder, that licence is revocable on the giving of a period of not less than three months notice.	N/A	Not triggered during the IEA period.	Not triggered	
Safety					
16	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Site inspection Incident register	Apropriate fencing/signage/site access restrictions in place. Saftey reporting procedures in place and reported as required Shafts associated with underground workings sealed/fenced	Compliant	
Exploratory drilling					
17	(1) At least twenty eight days prior to commencement of drilling operations the lease holder must notify the relevant Department of Climate Change and Environment regional hydrogeologist of the intention to drill exploratory drill holes together with information on the location of the proposed holes. (2) If the lease holder drills exploratory drill holes he must satisfy the Director General that: (a) all cored holes are accurately surveyed and permanently marked in accordance with Departmental guidelines so that their location can be easily established; b) all holes cored or otherwise are sealed to prevent the collapse of the surrounding surface; (c) all drill holes are permanently sealed with cement plugs to prevent surface discharge of groundwaters; (d) if any drill hole meets natural or noxious gases it is plugged or sealed to prevent their escape; (e) if any drill hole meets an artesian or sub-artesian flow it is effectively sealed to prevent contamination of aquifers. (f) once any drill hole ceases to be used the hole must be sealed in accordance with Departmental guidelines. Alternatively, the hole must be sealed as instructed by the Director-General; (g) once any drill hole ceases to be used the land and its immediate vicinity is left in a clean, tidy and stable condition.	N/A	No exploration activities undertaken within CCL739 during audit period.	Not triggered	
Prevention of soil erosion and pollution					
18	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.	Site inspection Rehabilitation Management Plan	No erosion issues identified during site visit requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
Transmission lines, Communication lines and Pipelines					
19	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions he may stipulate.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions recieved from the Resources Regulator during the audit period	Compliant	
Roads and tracks					
21	(a) Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior written approval of the Director-General and subject to any conditions he may stipulate. (b) The lease holder must pay to the designated authority in control of the road (generally the local council or the Roads and Traffic Authority) the cost incurred in fixing any damage to roads caused by operations carried out under the tease, less any amount paid or payable from the Mine Subsidence Compensation Fund.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
Resource recovery					
25	(a) Notwithstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered from the lease area, or that any such minerals which are being recovered are not being recovered to the extent which should be economically possible or which for environmental reasons are necessary to be recovered, he may give notice in writing to the lease holder requiring the holder to recover such minerals. (b) The notice shall specify the minerals to be recovered and the extent to which they are to be recovered, or the objectives in regard to resource recovery, but shall not specify the processes the tease holder shall use to achieve the specified recovery. (c) The lease holder must, when requested by the Director-General, provide such information as the Director General may specify about the recovery of the mineral resources of the lease area. (d) The Director-General shall issue no such notice unless the matter has firstly been thoroughly discussed with and a report to the Director General has incorporated the views of the lease holder. (e) The lease holder may object to the requirements of any notice issued under this condition and on receipt of such an objection the Minister shall ref er it to a Warden for inquiry and report under Section 334 of the Mining Act, 1992. (f) After considering the Warden's report the Minister shall decide whether to withdraw, modify or maintain the requirements specified in the original notice and shall give the lease holder written notice of the decision. The lease holder must comply with the requirements of this notice.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
CCL 739					
Indemnity					
26	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	N/A	Not triggered during the IEA period.	Not triggered	
Security					
27	a) A security in the sum of $NIL must be given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under this lease. If the lease holder fails to fulfil any one or more of such obligations the said sum may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purpose of this clause the lease holder shall be deemed to have failed to fulfil the obligations of this lease if the lease holder fails to comply with any condition or provision hereof, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision hereof or of any provision of the Act or regulations made thereunder. (b) The lease holder must provide the security required by sub-clause (a) in one of the following forms: (i) cash, (ii) a security certificate in a form approved by the Minister and issued by an authorised deposit-taking institution.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
Suspension of mining operations					
30	The holder of a consolidated mining lease may not suspend mmmg operations in the mining area other than in accordance with the consent of the Minister.	N/A	Mining was not suspended during the IEA period.	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
CL 378					
Notice to landholders					
1	Within a period of three months from the date of grant/renewal 61 this lease or within such further time as the Minister may allow, the lease holder must serve on each landholder of the land a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. An adequate plan and description of the lease area must accompany the notice. If there are ten or more landholders affected, the lease holder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this lease has been granted/renewed; state whether the lease includes the surface and must contain an adequate plan and description of the lease area.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Environmental harm					
2	The proponent shall implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of the development.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Various environmental management plans	Activities carried out in accordance with various management plans designed to mitigate, monitor and manage environmental risks.	Compliant	
Mining operations plan					
3	(a) Mining operations must not be carried out otherwise than in accordance with a Mining Operations Plan (MOP) which has been approved by the Director General of the Department of Primary Industries - Mineral Resources. (b) The MOP must: • identify areas that will be disturbed by mining operations; • detail the staging of specific mining operations; • identify how the mine will be managed to allow mine closure; • identify how mining operations will be carried out on site in order to prevent and or minimise harm to the environment; • reflect the conditions of approval under: • the Environmental Planning and Assessment Act 1979 - the Protection of the Environment Operations Act 1997 - and any other approvals relevant to the development including the conditions of this lease; and • have regard to any relevant guidelines adopted by the Director-General. (c) The titleholder may apply to the Director-General to amend an approved MOP at any time. (d) It is not a breach of this condition if: i) the operations constituting the breach were necessary to comply with a lawful order or direction given under the Mining Act 1992, the Environmental Planning and Assessment Act 1979, Protection of the Environment Operations Act 1997 or the Occupational Health and Safety Act 2000; and ii) the Director-General had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out. (e) A MOP ceases to have affect 7 years after date of approval or other such period as identified by the Director-General. An approved amendment to the MOP under condition 5 does not constitute an approval for the purpose of this paragraph unless otherwise identified by the Director General.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Environment management reporting					
4	The lease holder must lodge Environmental Management Reports (EMR) with The Director-General annually or at dates otherwise directed by the Director General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
5	The EMR must: - report against compliance with the MOP; - report on progress in respect of rehabilitation completion criteria; - report on the extent of compliance with regulatory requirements; and - have regard to any relevant guidelines adopted by the Director-General;	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
6	Additional environmental reports may be required on specific surface disturbing operations or environmental incidents from time to time as directed in writing by the Director-General and must be lodged as instructed.	N/A	Not triggered during the IEA period.	Not triggered	
Rehabilitation					
7	Disturbed land must be rehabilitated to a sustainable/agreed end land use to the satisfaction of the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews. All Annual Reviews during the reporting period have been approved. No areas of rehabilitation were approved/signed off by the Department during the IEA period.	Compliant	
Subsidence management					
8	(a) The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface. (b) Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gate roads, installation roads and associated main headings, etc), and pillar extractions, and are otherwise defined by the Applications for Subsidence Management Approvals guidelines (EDG17). (c) The lease holder must not commence or undertake underground mining operations that will potentially lead to subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the Coal Mine Health and Safety Act 2002, or the document New Subsidence Management Plan Approval Process - Transitional Provisions (EDP09). (d) Subsidence Management Plans are to be prepared in accordance with the Guideline for Applications for Subsidence Management Approvals. (e) Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 2 and will be subject to the Annual Environmental Management Report process as set out under Condition 3. The SMP is also subject to the requirements for subsidence monitoring and reporting set out in the document New Approval Process for Management of Coal Mining Subsidence - Policy.	Extraction Plan	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Working requirement					
9	The lease holder must: (a) ensure that at least 48 competent people are efficiently employed on the lease area on each week day except Sunday or any week day that is a public holiday, OR (b) expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than $840,000 per annum whilst the lease is in force. The Minister may at any time or times, by instrument in writing served on the lease holder, increase or decrease the expenditure required or the number of people to be employed.	Annual Reviews for 2021, 2022 and 2023.	At least three persons employed on subject area during relevant periods during the audit period.	Compliant	
Control operations					
10	(a) If an Environmental Officer of the Department believes that the lease holder is not complying with any provision of the Act or any condition of this lease relating to the working of the lease, he may direct the lease holder to:- (i) cease working the lease; or (ii) cease that part of the operation not complying with the Act or conditions; until in the opinion of the Environmental Officer the situation is rectified. (b) The lease holder must comply with any direction given. The Director-General may confirm, vary or revoke any such direction. (c) A direction referred to in this condition may be served on the Mine Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
CL 378					
Reports					
11	The lease holder must provide an exploration report, within a period of twenty-eight days after each anniversary of the date this lease has effect or at such other date as the Director-General may stipulate, of each year. The report must be to the satisfaction of the Director-General and contain the following: (a) Full particulars, including results, interpretation and conclusions, of all exploration conducted during the twelve months period; (b) Details of expenditure incurred in conducting that exploration; (c) A summary of all geological findings acquired through mining or development evaluation activities; (d) Particulars of exploration proposed to be conducted in the next twelve months period; (e) All plans, maps, sections and other data necessary to satisfactorily interpret the report.	N/A	No exploration activities undertaken within CL 378 during audit period	Not triggered	
License of use reports					
12	(a) The lease holder grants to the Minister, by way of a non-exclusive licence, the right in copyright to publish, print, adapt and reproduce all exploration reports lodged in any form and for the full duration of copyright. (b) The non-exclusive licence will operate as a consent for the purposes of section 365 of the Mining Act 1992.	N/A	Not triggered during the IEA period.	Not triggered	
Confidentiality					
13	(a) All exploration reports submitted in accordance with the conditions of this lease will be kept confidential while the lease is in force, except in cases where: (i) the lease holder has agreed that specified reports may be made nonconfidential. (ii) reports deal with exploration conducted exclusively on areas that have ceased to be part of the lease. (b) Confidentiality will be continued beyond the termination of a lease where an application for a flow-on title was lodged during the currency of the lease. The confidentiality will last until that flow-on title or any subsequent flow-on title, has terminated. (c) The Director-General may extend the period of confidentiality.	N/A	Not triggered during the IEA period.	Not triggered	
Terms of the non-exclusive license					
14	The terms of the non-exclusive copyright licence granted under condition 12 are: (a) the Minister may sub-licence others to publish, print, adapt and reproduce but not on-licence reports. (b) the Minister and any sub-licensee will acknowledge the lease holder's and any identifiable consultant's ownership of copyright in any reproduction of the reports, including storage of reports onto an electronic database. (c) the lease holder does not warrant ownership of all copyright works in any report and, the lease holder will use best endeavours to identify those parts of the report for which the lease holder owns the copyright. (d) there is no royalty payable by the Minister for the licence. (e) if the lease holder has reasonable grounds to believe that the Minister has exercised his rights under the non-exclusive copyright licence in a manner which adversely affects the operations of the lease holder, that licence is revocable on the giving of a period of not less than three months notice.	N/A	Not triggered during the IEA period.	Not triggered	
Blasting					
15	(a) Ground Vibration The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10 mm/second and does not exceed 5 mm/second in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be, unless determined otherwise by the Department of Climate Change and Environment. (b) Blast Overpressure The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling or occupied premises, as the case may be, unless determined otherwise by the Department of Climate Change and Environment.	N/A	No blasting undertaken within CL 378 during audit period.	Not triggered	
Safety					
16	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Site inspection Incident register	Site inspection identified appropriate fencing/signage in place. Saftey reporting procedures in place and reported as required Shafts associated with underground workings sealed/fenced	Compliant	
Exploratory drilling					
17	(1) At least twenty eight days prior to commencement of drilling operations the lease holder must notify the relevant Department of Climate Change and Environment regional hydrogeologist of the intention to drill exploratory drill holes together with information on the location of the proposed holes. (2) If the lease holder drills exploratory drill holes he must satisfy the Director General that:- (a) all cored holes are accurately surveyed and permanently marked in accordance with Departmental guidelines so that their location can be easily established; b) all holes cored or otherwise are sealed to prevent the collapse of the surrounding surface; (c) all drill holes are permanently sealed with cement plugs to prevent surface discharge of groundwaters; (d) if any drill hole meets natural or noxious gases it is plugged or sealed to prevent their escape; (e) if any drill hole meets an artesian or sub-artesian flow it is effectively sealed to prevent contamination of aquifers. (f) once any drill hole ceases to be used the hole must be sealed in accordance with Departmental guidelines. Alternatively, the hole must be sealed as instructed by the Director-General. (g) once any drill hole ceases to be used the land and its immediate vicinity is left in a clean, tidy and stable condition.	N/A	No exploration activities undertaken within CL 378 during audit period	Not triggered	
Prevention of soil erosion and pollution					
18	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.	Site inspection Rehabilitation Management Plan	Erosion contols sighted. No issues identified requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
Transmission lines, communications lines and pipelines					
19	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions he may stipulate.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions received from the Resources Regulator during the audit period Mining operations undertaken in accordance with approved Rehabilitation Management Plan	Compliant	
Fences, gates					
20	(a) Activities on the lease must not interfere with or damage fences without the prior written approval of the owner thereof or the Minister and subject to any conditions the Minister may stipulate. (b) Gates within the lease area must be closed or left open in accordance with the requirements of the landholder.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
Roads and tracks					
21	(a) Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior written approval of the Director-General and subject to any conditions he may stipulate. (b) The lease holder must pay to the designated authority in control of the road (generally the local council or the Roads and Traffic Authority) the cost incurred in fixing any damage to roads caused by operations carried out under the lease, less any amount paid or payable from the Mine Subsidence Compensation Fund.	Incident register Rehabilitation Management Plan	Mining operations undertaken in accordance with approved Rehabilitation Management Plan No notices/directions given by the Resources Regulator during the audit period	Compliant	
22	Access tracks must be kept to a minimum and be positioned so that they do not cause any unnecessary damage to the land. Temporary access tracks must be ripped, topsoiled and revegetated as soon as possible after they are no longer required for mining operations. The design and construction of access tracks must be in accordance with specifications fixed by the Department of Climate Change and Environment.	N/A	Not triggered during the IEA period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
CL 378					
Trees and timber					
23	(a) The lease holder must not fell trees, strip bark or cut timber on the lease without the consent of the landholder who is entitled to the use of the timber, or if such a landholder refuses consent or attaches unreasonable conditions to the consent, without the approval of a warden. {b) The lease holder must not cut, destroy, ringbark or remove any timber or other vegetative cover on the lease area except such as directly obstructs or prevents the carrying on of operations. Any clearing not authorised under the Mining Act 1992 must comply with the provisions of the Native Vegetation Act 2003. (c) The lease holder must obtain all necessary approvals or licences before using timber from any Crown land within the lease area.	N/A	Not triggered during the IEA period.	Not triggered	
Resource recovery					
25	(a) Notwithstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered from the lease area, or that any such minerals which are being recovered are not being recovered to the extent which should be economically possible or which for environmental reasons are necessary to be recovered, he may give notice in writing to the lease holder requiring the holder to recover such minerals. (b) The notice shall specify the minerals to be recovered and the extent to which they are to be recovered, or the objectives in regard to resource recovery, but shall not specify the processes the lease holder shall use to achieve the specified recovery. (c) The lease holder must, when requested by the Director-General, provide such information as the Director-General may specify about the recovery of the mineral resources of the lease area. (d) The Director-General shall issue no such notice unless the matter has firstly been thoroughly discussed with and a report to the Director-General has incorporated the views of the lease holder. (e) The lease holder may object to the requirements of any notice issued under this condition and on receipt of such an objection the Minister shall refer it to a Warden for inquiry and report under Section 334 of the Mining Act, 1992. (f) After considering the Warden's report the Minister shall decide whether to withdraw, modify or maintain the requirements specified in the original notice and shall give the lease holder written notice of the decision. The lease holder must comply with the requirements of this notice.	NA	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
Indemnity					
26	The lease holder must indemnify and keep indemnified the Crown from and against all actions. suits. claims and demands of whatsoever nature and all costs. charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction. maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	N/A	Not triggered during the IEA period.	Not triggered	
Security					
28	(a) The single security given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under CL 378. CL 392, MPL 311, ML 1300. ML 1325, ML 1327. ML 1373, ML 1393, ML 1421, ML 1502 and ML 1526 is extended to apply to this lease. (b) If the lease holder fails to fulfil any one or more of the obligations under this lease, then the security held may be applied at the discretion of the Minister towards the cost of fulfilling such obligations_ For the purpose of this clause the lease holder shall be deemed to have failed to fulfil the obligations of the lease if the lease holder fails to comply with any condition or provision hereof, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision hereof or of any provision of the Act or regulations made thereunder.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
Prescribed dam					
29	(a) Notwithstanding any Mining Operations Plan, the lease holder must not mine within any part of the lease area which is within the notification area of the Liddell Cooling Water Dam without the prior written approval of the Minister and subject to any conditions he may stipulate. (b) Where the lease holder desires to mine within the notification area he must: (i) at least twelve (12) months before mining is to commence or such lesser time as the Minister may permit. notify the Minister of the desire to do so. A plan of the mining system to be implemented must accompany the notice; and (ii) provide such information as the Minister may direct. (c) The Minister must not, except in the circumstances set out in sub-paragraph (ii) grant approval unless sub-paragraph (i) of this paragraph has been complied with. (i) This sub-paragraph is complied with if: (a) the Dams Safety Committee as constituted by Section 7 of the Dams Safety Act 1978 and the owner of the dam have been notified in writing of the desire to mine referred to in paragraph (B). (b) the notifications referred to in clause (a) are accompanied by a description or plan of the area to be mined. (c) the Director-General has complied with any reasonable request made by the Dams Safety Committee or the owner of the dam for further information in connection with the mining proposal. (d) the Dams Safety Committee has made its recommendations concerning the mining proposal or has informed the Minister in writing that it does not propose to make any such recommendations; and (e) where the Dams Safety Committee has made recommendations the approval is in terms that are: (i) in accordance with those recommendations; or (ii) where the Minister does not accept those recommendations or any of them - in accordance with a determination under sub-paragraph (ii) of this paragraph. (ii) Where the Minister does not accept the recommendations of the Dams Safety Committee or where the Dams Safety Committee has failed to make any recommendations and has not informed the Minister in writing that it does not propose to make any recommendations, the approval shall be in terms that are, in relation to matters dealing with the safety of the dam: (a) as determined by agreement between the Minister and the Minister administering the Dams Safety Act 1978; or (b) in the event of failure to reach such agreement - as determined by the Premier. (d) The Minister, on notice from the Dams Safety Committee, may at any time or times: (i) cancel any approval given where a notice pursuant lo Section 18 of the Dams Safely Act 1978 is given. (ii) suspend for a period of time, alter, omit from or add to any approval given or conditions imposed.	N/A	Ravensworth Operation did not mine through the Liddell Cooling Water Dam during the IEA period.	Not triggered	
Special conditions					
30	The registered holder shall not work or cause to be worked any seam of coal within the subject area without leaving, if the Minister by order given in writing to the registered holder so directs, a barrier of such width or a protective pillar or pillars of such size or sizes as is specified in the order, against any surface improvements or any feature whether natural or artificial.	N/A	No mining activities were undertaken within CL 378 during audit period.	Not triggered	
31	Unless with the consent of the Minister first had and obtained and subject to such conditions as he may impose the registered holder shall not work or cause to be worked any seam of coal by Open Cut or underground methods within the subject area within the barrier defined as follows: The land between the depths of 15.24 metres and 60.96 metres below the surface within 20.12 metres either side of the centre line of the Original Great Northern Railway Line.	N/A	No mining activities were undertaken within CL 378 during audit period.	Not triggered	
32	Any approval or consent given by the Minister including any approval or consent given pursuant to any condition or term contained in a lease consolidated into this lease to the effect that the registered holder may conduct mining operations in those parts of the subject area within the zone defined in Condition 31 shall be deemed to be a consent for the purposes of the said Condition 31 subject to the same conditions of that approval or consent.	N/A	No mining activities were undertaken within CL 378 during audit period.	Not triggered	
33	Unless with the consent of the Minister first had and obtained and subject to such conditions as he may impose the registered holder shall not work or cause to be worked any seam of coal by Open Cut or underground methods within the subject area within the barrier defined as follows: The land between the depths of 15.24 metres and 60.96 metres below the surface within 20.12 metres either side of the centre line of the New England Highway.	N/A	No mining activities were undertaken within CL 378 during audit period.	Not triggered	
34	Any approval or consent given by the Minister including any approval or consent given pursuant to any condition or term contained in a lease consolidated into this lease to the effect that the registered holder may conduct mining operations in those parts of the subject area within the zone defined in Condition 33 shall be deemed to be a consent for the purposes of the said Condition 33 subject to the same conditions of that approval or consent.	N/A	No mining activities were undertaken within CL 378 during audit period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
CL 378					
35	The leases holder shall be limited to the following purposes and conditions within the specified areas described on the plan annexed hereto and marked catalogue No D6086, Plan "B" REFER to column 1, 2 and 3 snip at bottom of page. a) The registered holder shall not dump any coal preparation tailings on the subject area without the consent of the Minister first had and obtained and subject to such conditions as he may impose. b) The registered holder shall take such precautions as are necessary to abate any dust nuisance and shall comply with any direction, including directions regarding the sealing of roads, given or which may be given in this regard by the Minister. c) The registered holder shall maintain the subject area in a clean and tidy condition at all times to the satisfaction of the Minister and shall as far as may be practicable prevent the spread of any oil or other pollutant on the subject area. d) (i) The registered holder shall carry out regular inspections of above ground conveyor systems and shall promptly remove any spillages and comply with any directions given or which may be given by the Minister in this regard. (ii)If so directed by the Minister and subject to such conditions as he may stipulate, above ground conveyor systems shall be enclosed to the satisfaction of the Minister. e) In the event of operations being conducted on the surface of any road embracing or traversing the subject area, or in the event of operations causing damage to or interference with any such road, the registered holder, at its own expense, shall, if required so to do by the Minister, provide to the satisfaction of the Minister an alternate road in a position as required by the Minister and shall allow free and uninterrupted access along such alternate road and, if required to do so by the Minister, the registered holder shall, upon completion of operations, rehabilitate the surface of the original road to a condition satisfactory to the Minister. COLUMN 1 - AREAS / COLUMN 2 - PURPOSES / COLUMN 3 - CONDITIONS Lands shown by Orange Colour: 1. Constructing, maintaining or using a road in connection with mining. — Nil Lands shown by green colour: 1. Constructing, maintaining or using in connection with mining any of the following, namely: road, railway. 2. The dumping or depositing of any overburden, coal, minerals, mine residues or tailings. — Refer to condition 35(a) Lands shown by blue colour: 1. Constructing, maintaining or using in connection with mining any of the following, namely building, conveyor system, dam, drain, machinery, road, telephone line.. 2. Erection, maintenance and use of standards, posts, wires and appliances for the transmission of electricity. 3. Laying, maintaining and using a pipeline in connection with mining. 4. The dumping or depositing of coal, minerals, mine residues or tailings. 5. A purpose which is connected or associated with, or incidental to, a purpose specified in paragraphs (1) and (3). — Refer to conditions 35(b) to 35(d) inclusive	N/A	No mining activities were undertaken within CL 378 during audit period.	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
CL 380					
Notice to landholders					
1	(a) Within a period of three months from the date of grant/renewal of this mining lease, the lease holder must serve on each landholder a notice in writing indicating that this mining lease has been granted/renewed and whether the lease includes the surface. A plan identifying each landholder and individual land parcel subject to the lease area, and a description of the lease area must accompany the notice. (b) If there are ten or more landholders, the lease holder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area. If a notice is made under condition 1(b), compliance with condition 1(a) is not required.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Rehabilitation					
2	Any disturbance resulting from the activities carried out under this mining lease must be rehabilitated to the satisfaction of the Minister.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Various environmental management plans	Activities carried out in accordance with various management plans designed to mitigate, monitor and manage environmental risks.	Compliant	
Mining Operations Plan and Annual Rehabilitation Report					
3	(a) The lease holder must comply with an approved Mining Operations Plan (MOP) in carrying out any significant surface disturbing activities, including mining operations, mining purposes and prospecting. The lease holder must apply to the Minister for approval of a MOP. An approved MOP must be in place prior to commencing any significant surface disturbing activities, including mining operations, mining purposes and prospecting. (b) The MOP must identify the post mining land use and set out a detailed rehabilitation strategy which: (i) identifies areas that will be disturbed; (ii) details the staging of specific mining operations, mining purposes and prospecting; (iii) identifies how the mine will be managed and rehabilitated to achieve the post mining land use; (iv) identifies how mining operations, mining purposes and prospecting will be carried out in order to prevent and or minimise harm to the environment; and (v) reflects the conditions of approval under: • the Environmental Planning and Assessment Act 1979; • the Protection of the Environment Operations Act 1997; and • any other approvals relevant to the development including the conditions of this mining lease. (c) The MOP must be prepared in accordance with the ESG3: Mining Operations Plan (MOP) Guidelines September 2013 published on the Department's website at www.resources.nsw.gov.au/environment (d) The lease holder may apply to the Minister to amend an approved MOP at any time. (e) It is not a breach of this condition if: (i) the operations which, but for this condition 3(e) would be a breach of condition 3(a), were necessary to comply with a lawful order or direction given under the Environmental Planning and Assessment Act 1979, the Protection of the Environment Operations Act 1997, the Mine Health and Safety Act 2004 I Coal Mine Health and Safety Act 2002 and Mine Health and Safety Regulation 2007 I Coal Mine Health and Safety Regulation 2006 or the Work Health and Safety Act 2011; and (ii) the Minister had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out. (f) The lease holder must prepare a Rehabilitation Report to the satisfaction of the Minister. The report must: (i) provide a detailed review of the progress of rehabilitation against the performance measures and criteria established in the approved MOP; (ii) be submitted annually on the grant anniversary date (or at such other times as agreed by the Minister); and (iii) be prepared in accordance with any relevant annual reporting guidelines published on the Department's website at www.resources.nsw.gov.au/environment. Note: The Rehabilitation Report replaces the Annual Environmental Management Report.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Compliance report					
4	(a) The lease holder must submit a Compliance Report to the satisfaction of the Minister. The report must be prepared in accordance with any relevant guidelines or requirements published by the Minister for compliance reporting. (b) The Compliance Report must include: (i) the extent to which the conditions of this mining lease or any provisions of the Act or the regulations applicable to activities under this mining lease, have or have not been complied with; (ii) particulars of any non-compliance with any such conditions or provisions; (iii) the reasons for any such non-compliance; (iv) any action taken, or to be taken, to prevent any recurrence, or to mitigate the effects, of that non-compliance. (c) The Compliance Report must be lodged with the Department annually on the grant anniversary date for the life of this mining lease. (d) In addition to annual lodgement under condition 4(c) above, a Compliance Report: (i) must accompany any application to renew this mining lease under the Act; (ii) must accompany any application to transfer this mining lease under the Act; and (iii) must accompany any application to cancel, or to partially cancel, this mining lease under the Act. (e) Despite the submission of any Compliance Report under (c) or (d) above, the titleholder must lodge a Compliance Report with the Department at any date or dates otherwise required by the Minister. (f) A Compliance Report must be submitted one month prior to the expiry of this mining lease, where the licence holder is not seeking to renew or cancel this mining lease.	Annual Reviews for 2021, 2022 and 2023.	Non-compliances are reported in the Annual reviews. There were no non-compliances during the IEA period.	Compliant	
Environmental incident report					
5	(a) The lease holder must notify the Department of all: (i) breaches of the conditions of this mining lease or breaches of the Act causing or threatening material harm to the environment; and (ii) breaches of environmental protection legislation causing or threatening material harm to the environment (as defined in the Protection of the Environment Administration Act 1991), arising in connection with significant surface disturbing activities, including mining operations, mining purposes and prospecting operations, under this mining lease. The notification must be given immediately after the lease holder becomes aware of the breach. Note. Refer to www.resources.nsw.qov.au/environment for notification contact details. (b) The lease holder must submit an Environmental Incident Report to the Department within seven (7) days of all breaches referred to in condition 5(a)(i) and (ii). The Environmental Incident Report must include: (i) the details of the mining lease; (ii) contact details for the lease holder; (iii) a map identifying the location of the incident and where material harm to the environment has or is likely to occur; (iv) a description of the nature of the incident or breach, likely causes and consequences; (v) a timetable showing actions taken or planned to address the incident and to prevent future incidents or breaches referred to in 5(a). (vi) a summary of all previous incidents or breaches which have occurred in the previous 12 months relating to significant surface disturbing activities, including mining operations, mining purposes and prospecting operations under this mining lease. Note. The lease holder should have regard to any relevant Director General's guidelines in the preparation of an Environmental Incident Report. Refer to www.resources.nsw.qov.au/environment for further details. (c) In addition to the requirements set out in conditions 5(a) and (b), the lease holder must immediately advise the Department of any notification made under section 148 of the Protection of the Environment Operations Act 1997 arising in connection with significant surface disturbing activities including mining operations, mining purposes and prospecting operations, under this mining lease.	Site interviews. Incident reports	During the site interviews, Ravensworth Operations confirmed that they had immediately notified DPHI (and any other relevant agencies) after becoming aware of an incident via the Major Projects Website.	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
CL 380					
Subsidence management					
6	The lease holder must not commence or undertake underground mining operations that may cause subsidence of the surface other than in accordance with an Eligible Subsidence Management Plan approved by the Director-General. For the purposes of this condition, an 'Eligible Subsidence Management Plan' means: (i) A Subsidence Management Plan prepared in accordance with current government guidelines for the preparation of Subsidence Management Plans; or (ii) Those parts of an Extraction Plan or another type of plan: • prepared, either in whole or in part, with reference to current government guidelines for the preparation of a Subsidence Management Plan; and • approved for the purposes of the Environmental Planning and Assessment Act 1979 (or any planning legislation which replaces that Act) by the Minister or Director-General of the Department of Planning & Infrastructure, or another officer of that Department authorised to approve such a plan, which relate to issues of subsidence.	Extraction Plan	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Resource recovery					
7	The lease holder must optimise recovery of the minerals that are the subject of this mining lease to the extent economically feasible.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023.	All operations and resource recovery are reported in the Annual Reviews. RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
Group security					
8	The lease holder is required to provide and maintain a security deposit to secure funding for the fulfilment of obligations of all or any kind under the mining lease, including obligations of all or any kind under the mining lease that may arise in the future. The amount of the security deposit to be provided as a group security has been assessed by the Minister at $24,935,000. The leases covered by the group security include: Consolidated Coal Lease No's 723 & 739 and Coal Lease No's 380 & 580 (Act 1973) and Mining Lease No.1357 (Act 1992).	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
Cooperation agreement					
9	The lease holder must make every reasonable attempt, and be able to demonstrate its attempts, to enter into a cooperation agreement with the holder(s) of any overlapping title(s). The cooperation agreement should address but not be limited to issues such as: • access arrangements • operational interaction procedures • dispute resolution • information exchange • well location • timing of drilling • potential resource extraction conflicts; and • rehabilitation issues.	Cooperation agreement	Cooperation agreements were already in place prior to the IEA period.	Not triggered	
Exploration reporting					
	Note: Exploration Reports (Geological and Geophysical) *The lease holder must lodge reports to the satisfaction of the Minister in accordance with section 163G of the Mining Act 1992 and in accordance with clause 57 of the Mining Regulation 2010.* *Reports must be prepared in accordance with Exploration Reporting: A guide for reporting on exploration and prospecting in New South Wales (Department of Trade and Investment; Regional Infrastructure and Services 2010).*	N/A	No exploration within CL380 during audit period	Not triggered	
Special conditions: Prescribed dam					
10	(a) Notwithstanding any Mining Operations Plan, the lease holder must not mine within any part of the lease area which is within the notification area of the Ravensworth Inpit Storage Dam (also known as the Ravensworth 1000ML Dam) without the prior written approval of the Minister and subject to any conditions stipulated. (b) Where the lease holder desires to mine within the notification area he or she must: (i) at least twelve (12) months before mining is to commence or such lesser time as the Minister may permit, notify the Minister of the desire to do so. A plan of the mining system to be implemented must accompany the notice; and (ii) provide such information as the Minister may direct. (c) The Minister must not, except in the circumstances set out in sub-paragraph (ii), grant approval unless sub-paragraph (i) of this paragraph has been complied with. This sub-paragraph is complied with if: (i) the Dams Safety Committee as constituted by Section 7 of the Dams Safety Act 1978 and the owner of the dam have been notified in writing of the desire to mine referred to in paragraph (b). (ii) the notifications referred to in clause (a) are accompanied by a description or plan of the area to be mined. (iii) the Director-General has complied with any reasonable request made by the Dams Safety Committee or the owner of the dam for further information in connection with the mining proposal. (iv) the Dams Safety Committee has made its recommendations concerning the mining proposal or has informed the Minister in writing that it does not propose to make any such recommendations; and (v) where the Dams Safety Committee has made recommendations the approval is in terms that are: - in accordance with those recommendations; or - where the Minister does not accept those recommendations or any of them - in accordance with a determination under sub-paragraph (ii) of this paragraph. (vi) Where the Minister does not accept the recommendations of the Dams Safety Committee or where the Dams Safety Committee has failed to make any recommendations and has not informed the Minister in writing that it does not propose to make any recommendations, the approval shall be in terms that are, in relation to matters dealing with the safety of the dam: - as determined by agreement between the Minister and the Minister administering the Dams Safety Act 1978; or - in the event of failure to reach such agreement - as determined by the Premier. (d) The Minister, on notice from the Dams Safety Committee, may at any time or times: (i) cancel any approval given where a notice pursuant to Section 18 of the Dams Safety Act 1978 is given. (ii) suspend for a period of time, alter, omit from or add to any approval given or conditions imposed.	N/A	Ravensworth Operation did not mine through the Ravensworth Inpit Storage Dam (also known as the Ravensworth 1000ML Dam) during the IEA period.	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
CL 580					
Notice to landholders					
1	(a)Within 90 days from the date of grant or renewal of this mining lease, the lease holder must give each landholder notice in writing: (i) that this mining lease has been granted or renewed; and (ii) whether the lease includes the surface. The notice must include a plan identifying the lease area and each landholder and individual land parcel within the lease area. (b) If there are ten or more landholders to which notice must be given, the lease holder will be taken to have complied with condition 1(a) if a notice complying with condition 1(a)is published in a newspaper circulating in the region where the lease area is situated.	Notification to landowners.	CL 580 was renewed on 13 February 2023. EMM sighted letters to landowners on 21 April 2023 notifying them of the lease renewal.	Compliant	
Group security					
2	The lease holder is required to provide and maintain a security deposit to secure funding for the fulfilment of obligations under the mining leases covered by the group security deposit, including obligations under each mining lease that may arise in the future. The amount to be provided and maintained as a group security deposit is $11,722,000. The leases covered by the group security include: Consolidated Coal Lease 723 (Act 1973) (Head lease) Consolidated Coal Lease 739 (Act 1973) Coal Lease 380 (Act 1973) Coal Lease 580 (Act 1973) (This lease) Mining Lease 1357 (Act 1992).	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
Cooperation agreement					
3	The lease holder must make every reasonable attempt, and be able to demonstrate its attempts to the satisfaction of the Secretary, to enter into a cooperation agreement with the holder(s) of any overlapping authorisations issued under the Mining Act 1992 and petroleum titles issued under the Petroleum (Onshore) Act 1992. The cooperation agreement should address but not be limited to: • access arrangements • operational interaction procedures • dispute resolution • information exchange • well location • timing of drilling • potential resource extraction conflicts; and • rehabilitation issues.	Cooperation agreement	Cooperation agreements were already in place prior to the IEA period.	Not triggered	
Assessable prospecting operations					
4	(a) The lease holder must not carry out any assessable prospecting operation on land over which this lease has been granted unless: (i) it is carried out in accordance with any necessary development consent; or (ii) if development consent is not required, the prior written approval of the Minister has been obtained. (b) The Minister may require the lease holder to provide such information as required to assist the Minister to consider an application for approval. (c) An approval granted by the Minister under this condition may be granted subject to terms. (d) The lease holder must comply with the approval granted to the holder under this condition.	N/A	No exploration activities undertaken within CCL723 during audit period	Not triggered	
Special conditions					
5	(a) The lease holder must not mine within any part of the lease area which is within the notification area of the Ravensworth Inpit Storage Dam without the prior written approval of the Minister and subject to any conditions the Minister may stipulate. (b) Where the lease holder desires to mine within the notification area, the lease holder must: (i) at least twelve (12) months before mining is to commence or such lesser time as the Minister may permit, notify the Minister of the desire to do so. A plan of the mining system to be implemented must accompany the notice; and (ii) provide such information as the Minister may direct. (c) The Minister must not, except in the circumstances set out in sub-paragraph (ii), grant approval unless sub-paragraph (i) of this paragraph has been complied with. (i) This sub-paragraph is complied with if: (a) Dams Safety NSW as constituted by section 6 of the Dams Safety Act 2015 and the owner of the dam have been notified in writing of the desire to mine referred to in paragraph (b). (b) the notifications referred to in clause (a) are accompanied by a description or plan of the area to be mined. (c) the Secretary has complied with any reasonable request made by Dams SafetyNSW or the owner of the dam for further information in connection with the mining proposal. (d) Dams Safety NSW has made its recommendations concerning the mining proposal or has informed the Minister in writing that it does not propose to make any such recommendations; and (e) where Dams Safety NSW has made recommendations the approval is in terms that are: - in accordance with those recommendations; or - where the Minister does not accept those recommendations or any of them -in accordance with a determination under sub-paragraph (ii) of this paragraph. (ii) Where the Minister does not accept the recommendations of Dams Safety NSW or where Dams Safety NSW has failed to make any recommendations and has not informed the Minister in writing that it does not propose to make any recommendations, the approval shall be in terms that are, in relation to matters dealing with the safety of the dam: - as determined by agreement between the Minister and the Minister administering the Dams Safety Act 2015; or - in the event of failure to reach such agreement - as determined by the Premier. (d) The Minister, on notice from Dams Safety NSW, may at any time or times: (i) cancel any approval given where a notice pursuant to section 19 of the Dams Safety Act 2015 is given (ii) suspend for a period of time, alter, omit from or add to any approval given or conditions imposed.	N/A	Ravensworth Operation did not mine through the Ravensworth Inpit Storage Dam during the IEA period.	Not triggered	
Exploration reporting					
	Note: Exploration Reports (Geological and Geophysical) *The lease holder must lodge reports in accordance with the requirements in section 163C of the Mining Act 1992 and clauses 59, 60 and 61 of the Mining Regulation 2016 as well as any further requirements issued by the Secretary under clause 62 of the Mining Regulation 2016.* *Guidelines for the structure, content and data format requirements for reports are set out in the Exploration Reporting: A guide for reporting on exploration and prospecting in New South Wales.*	N/A	No exploration activities undertaken within CCL723 during audit period	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML1325 (2016)					
Standard conditions					
Notice to Landholders					
1	(a)Within a period of three months from the date of grant/renewal of this mining lease, the lease holder must serve on each landholder a notice in writing indicating that this mining lease has been granted/renewed and whether the lease includes the surface. A plan identifying each landholder and individual land parcel subject to the lease area, and a description of the lease area must accompany the notice. (b)If there are ten or more landholders, the lease holder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area. If a notice is made under condition 1 (b), compliance with condition 1 (a) is not required.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Rehabilitation					
2	Any disturbance resulting from the activities carried out under this mining lease must be rehabilitated to the satisfaction of the Minister.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Mining Operations Plan and Annual Rehabilitation Report					
3	(a)The lease holder must comply with an approved Mining Operations Plan (MOP) in carrying out any significant surface disturbing activities, including mining operations, mining purposes and prospecting. The lease holder must apply to the Minister for approval of a MOP. An approved MOP must be in place prior to commencing any significant surface disturbing activities, including mining operations, mining purposes and prospecting. (b) The MOP must identify the post mining land use and set out a detailed rehabilitation strategy which: (i) identifies areas that will be disturbed; (ii)details the staging of specific mining operations, mining purposes and prospecting; (iii)identifies how the mine will be managed and rehabilitated to achieve the post mining land use; (iv)identifies how mining operations, mining purposes and prospecting will be carried out in order to prevent and or minimise harm to the environment; and (v) reflects the conditions of approval under: • the Environmental Planning and Assessment Act 1979; • the Protection of the Environment Operations Act 1997; and • any other approvals relevant to the development including the conditions of this mining lease. (c) The MOP must be prepared in accordance with the ESG3: Mining Operations Plan (MOP) Guidelines September 2013 published on the Department's website atwww.resources.nsw.gov.au/environment (d) The lease holder may apply to the Minister to amend an approved MOP at any time. (e) It is not a breach of this condition if: (i) the operations which, but for this condition 3(e) would be a breach of condition 3(a), were necessary to comply with a lawful order or direction given under the Environmental Planning and Assessment Act 1979, the Protection of the Environment Operations Act 1997, the Mine Health and Safety Act 2004 I Coal Mine Health and Safety Act 2002 and Mine Health and Safety Regulation 2007 I Coal Mine Health and Safety Regulation 2006 or the Work Health and Safety Act 2011; and (ii)the Minister had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out. (f)The lease holder must prepare a Rehabilitation Report to the satisfaction of the Minister. The report must: (i)provide a detailed review of the progress of rehabilitation against the performance measures and criteria established in the approved MOP; (ii)be submitted annually on the grant anniversary date (or at such other times as agreed by the Minister); and (iii)be prepared in accordance with any relevant annual reporting guidelines published on the Department's website at www.resources.nsw.gov.au/environment. *Note: The Rehabilitation Report replaces the Annual Environmental Management Report.*	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Compliance Report					
4	(a)The lease holder must submit a Compliance Report to the satisfaction of the Minister. The report must be prepared in accordance with any relevant guidelines or requirements published by the Minister for compliance reporting. (b)The Compliance Report must include: (i)the extent to which the conditions of this mining lease or any provisions of the Act or the regulations applicable to activities under this mining lease, have or have not been complied with; (ii)particulars of any non-compliance with any such conditions or provisions, (iii)the reasons for any such non-compliance; iv) any action taken, or to be taken, to prevent any recurrence, or to mitigate the effects, of that non-compliance (c)The Compliance Report must be lodged with the Department annually on the grant anniversary date for the life of this mining lease. (d)In addition to annual lodgement under condition 4(c) above, a Compliance Report: (i)must accompany any application to renew this mining lease under the Act; (ii)must accompany any application to transfer this mining lease under the Act; and (iii)must accompany any application to cancel, or to partially cancel, this mining lease under the Act. (e)Despite the submission of any Compliance Report under (c) or (d) above, the titleholder must lodge a Compliance Report with the Department at any date or dates otherwise required by the Minister. (f)A Compliance Report must be submitted one month prior to the expiry of this mining lease, where the licence holder is not seeking to renew or cancel this mining lease.	Annual Reviews for 2021, 2022 and 2023.	Non-compliances are reported in the Annual reviews. There were no non-compliances during the IEA period.	Compliant	
Environmental Incident Report					
5	(a)The lease holder must notify the Department of all: (i)breaches of the conditions of this mining lease or breaches of the Act causing or threatening material harm to the environment; and (ii)breaches of environmental protection legislation causing or threatening material harm to the environment (as defined in the Protection of the Environment Operations Act 1997), arising in connection with significant surface disturbing activities, including mining operations, mining purposes and prospecting operations, under this mining lease. The notification must be given immediately after the lease holder becomes aware of the breach. *Note: Refer to www.resources.nsw.qov.au/environment for notification contact details.* (b)The lease holder must submit an Environmental Incident Report to the Department within seven (7) days of all breaches referred to in condition 5(a)(i) and (ii). The Environmental Incident Report must include: (i)the details of the mining lease; (ii)contact details for the lease holder; (iii)a map identifying the location of the incident and where material harm to the environment has or is likely to occur; (iv)a description of the nature of the incident or breach, likely causes and consequences; (v)a timetable showing actions taken or planned to address the incident and to prevent future incidents or breaches referred to in 5(a). (iv)a description of the nature of the incident or breach, likely causes and consequences; (vi) a summary of all previous incidents or breaches which have occurred in the previous 12 months relating to significant surface disturbing activities, including mining operations, mining purposes and prospecting operations under this mining lease. *Note: he lease holder should have regard to any relevant Director General's guidelines in the preparation of an Environmental Incident Report. Refer to www.resources.nsw.gov.aulenvironment for further details.* (c) In addition to the requirements set out in conditions 5(a) and (b), the lease holder must immediately advise the Department of any notification made under section 148 of the Protection of the Environment Operations Act 1997 arising in connection with significant surface disturbing activities including mining operations, mining purposes and prospecting operations, under this mining lease.	Site interviews. Incident reports	During the site interviews, Ravensworth Operations confirmed that they had immediately notified DPHI (and any other relevant agencies) after becoming aware of an incident via the Major Projects Website.	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML1325 (2016)					
Extraction Plan					
6	(a)In this condition: (i)approved Extraction Plan means a plan, being: A.an extraction plan or subsidence management plan approved in accordance with the conditions of a relevant development consent and provided to the Secretary; or B.a subsidence management plan relating to the mining operations subject to this lease: I.submitted to the Secretary on or before 31 December 2014; and II.approved by the Secretary. (ii)relevant development consent means a development consent or project approval issued under the Environmental Planning & Assessment Act 1979 relating to the mining operations subject to this lease. (b)The lease holder must not undertake any underground mining operations that may cause subsidence except in accordance with an approved Extraction Plan. (c)The lease holder must ensure that the approved Extraction Plan provides for the effective management of risks associated with any subsidence resulting from mining operations carried out under this lease. (d)The lease holder must notify the Secretary within 48 hours of any: (i)incident caused by subsidence which has a potential to expose any person to health and safety risks; (ii)significant deviation from the predicted nature, magnitude, distribution, timing and duration of subsidence effects, and of the potential impacts and consequences of those deviations on built features and the health and safety of any person; or (iii)significant failure or malfunction of a monitoring device or risk control measure set out in the approved Extraction Plan addressing: A.built features; B.public safety; or C.subsidence monitoring.	Extraction Plan.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Resource Recovery					
7	The lease holder must optimise recovery of the minerals that are the subject of this mining lease to the extent economically feasible.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023.	All operations and resource recovery are reported in the Annual Reviews. RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Not triggered	
Group Security					
8	The lease holder is required to provide and maintain a security deposit to secure funding for the fulfilment of obligations of all or any kind under the mining lease, including obligations of all or any kind under the mining lease that may arise in the future. The amount of the security deposit to be provided as a group security has been assessed by the Minister at $33,018,132. The leases covered by the group security include Coal Lease 378 (Act 1973) and Mining Leases 1325, 1327, 1393, 1502, 1576, 1669 and 1683 (Act 1992).	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
Cooperation Agreement					
9	The lease holder must make every reasonable attempt, and be able to demonstrate its attempts, to enter into a cooperation agreement with the holder(s) of any overlapping title(s). The cooperation agreement should address but not be limited to issues such as: •access arrangements •operational interaction procedures •dispute resolution •information exchange •well location •timing of drilling •potential resource extraction conflicts; and •rehabilitation issues.	Cooperation agreement	Cooperation agreements were already in place prior to the IEA period.	Not triggered	
Special conditions					
	Note: The standard conditions apply to all mining leases. The Division of Resources & Energy (ORE) reserves the right to impose special conditions, based on individual circumstances, where appropriate.	-	-		
Mining Operations					
10	The lease holder must not suspend mining operations, as defined in the Act, over the area subject to this mining lease other than in accordance with the written consent of the Minister.	N/A	Mining was not suspended during the IEA period.	Not triggered	
Prescribed Dam					
11	(a) Notwithstanding any Mining Operations Plan, the lease holder must not mine within any part of the lease area which is within the notification area of the Cumnock Tailings Storage Facility and the Cumnock Notification Area without the prior written approval of the Minister and subject to any conditions stipulated. (b)Where the lease holder desires to mine within the notification area he or she must: (i)at least twelve (12) months before mining is to commence or such lesser time as the Minister may permit, notify the Minister of the desire to do so. A plan of the mining system to be implemented must accompany the notice; and (ii) provide such information as the Minister may direct. (c)The Minister must not, except in the circumstances set out in sub-paragraph (ii), grant approval unless sub-paragraph (i) of this paragraph has been complied with. This sub-paragraph is complied with if: (i)the Dams Safety Committee as constituted by Section 7 of the Dams Safety Act 1978 and the owner of the dam have been notified in writing of the desire to mine referred to in paragraph (b). (ii)the notifications referred to in clause (a) are accompanied by a description or plan of the area to be mined. (iii)the Director-General has complied with any reasonable request made by the Dams Safety Committee or the owner of the dam for further information in connection with the mining proposal. (iv)the Dams Safety Committee has made its recommendations concerning the mining proposal or has informed the Minister in writing that it does not propose to make any such recommendations; and (v)where the Dams Safety Committee has made recommendations the approval is in terms that are: - in accordance with those recommendations; or - where the Minister does not accept those recommendations or any of them - in accordance with a determination under sub-paragraph (ii) of this paragraph. vi) Where the Minister does not accept the recommendations of the Dams Safety Committee or where the Dams Safety Committee has failed to make any recommendations and has not informed the Minister in writing that it does not propose to make any recommendations, the approval shall be in terms that are, in relation to matters dealing with the safety of the dam: - as determined by agreement between the Minister and the Minister administering the Dams Safety Act 1978; or - in the event of failure to reach such agreement - as determined by the Premier. (d)The Minister, on notice from the Dams Safety Committee, may at any time or times: (i) cancel any approval given where a notice pursuant to Section 18 of the Dams Safety Act 1978 is given. (ii) suspend for a period of time, alter, omit from or add to any approval given or conditions imposed.	N/A	Ravensworth Operation did not mine through the Cumnock Tailings Storage Facility and the Cumnock Notification Area during the IEA period.	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1348 (1994)					
METHODS OF OPERATION					
1	The lease holder shall extract as large a percentage of the coal in the subject area as is possible consistent with the provisions of the coal Mines Regulation Act 1982 and the Regulations there under and shall comply with any direction given or which may be given in this regard by the Minister.	N/A	No coal was extracted within ML 1348 during audit period.	Not triggered	
2	(a) The lease holder shall not commence or carry out any underground mining operations within the subject area unless with the consent of the Minister first had and obtained and subject to such conditions, as the Minister may impose. (b) Where the lease holder intends to carry out underground mining operations within the subject area the lease holder shall furnish to the Minister a plan showing the proposed workings in the section of land to be so mined together with such other details as the Minister may require.	N/A	No coal was extracted within ML 1348 during audit period.	Not triggered	
3	(a) The lease holder shall not carry out open cut or surface mining operations, or the removal of overburden or highwall mining, within the subject area or within the lands overlying the subject area unless with consent of the Minister and subject to such conditions as the Minister may impose. (b) Where the lease holder intends to carry out open cut workings, surface mining operations or the removal of overburden or highwall mining within the subject area or within the lands overlying the subject area the lease holder shall apply for approval to carry out such operations in accordance with Instructions for Open Cut Application or Instructions for Highwall Mining Applications provided by the Director-General.	N/A	No coal was extracted within ML 1348 during audit period.	Not triggered	
4	Any approval or consent given including any approval or consent given pursuant to any condition or term contained in a lease referred to in Schedule No 1 annexed hereto to the effect that the registered lease-holder may undertake open cut or surface mining operations or the removal of overburden within the subject- area shall be deemed to be a consent given for the purposes of the foregoing Condition No 3 subject to the same conditions of that approval or consent.	N/A	No coal was extracted within ML 1348 during audit period.	Not triggered	
DISPOSAL OF COAL					
5	Where any coal mined from within the subject area is not immediately saleable, the lease holder shall, unless otherwise approved by the Minister, store, for future disposal by the lease holder, any such coal in such a manner and location as the Minister may approve and subject to such conditions as the Minister may impose.	N/A	No coal was extracted within ML 1348 during audit period.	Not triggered	
BARRIERS					
6	The lease holder unless with the consent of the Minister and subject to such conditions as the Minister may impose shall not mine for, work, win or remove any coal from those parts of the subject area within the highwater level subsidence control zone defined: (a) on the surface by the highwater level of • and a point • metres in elevation above that highwater level; (b) in the seam by a line defined by an angle of draw of • drawn landwards from the line drawn vertically beneath a point • metres in elevation above the highwater level of •; (c) in the seam by a line defined by an angle of draw of • drawn lakewards from the line drain vertically beneath the highwater level of •.	N/A	No coal was extracted within ML 1348 during audit period.	Not triggered	
7	Any approval or consent given by the Minister including any approval or consent given pursuant to any condition term contained in a coal lease referred to in Schedule No 1 annexed hereto to the effect that the registered/lease holder may mine for work, win or remove any coal from those parts of the subject area within the highwater level subsidence control zone as defined in Condition No 6 of this Schedule shall be deemed to be a consent given for the purposes of the said Condition No 6 subject to the same conditions of that approval or consent.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
8	The lease holder unless with the consent of the Minister and subject to such conditions as the Minister may impose shall not mine for work win or remove any coal from that part of the subject area shown as a barrier • metres wide on the plan annexed hereto and marked.	N/A	No coal was extracted within ML 1348 during audit period.	Not triggered	
9	Any approval or consent given by the Minister including any approval or consent given pursuant to any condition or term contained in a coal lease referred to in Schedule No 1 annexed hereto to the effect that the registered/lease holder may mine for, work, win or remove any coal from those parts of the subject area within the barrier(s) defined in Condition No 8 of this Schedule shall be deemed to be a consent given for the purposes of the said Condition No 8 subject to the same conditions of that approval or consent.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
10	The lease holder shall not work or cause to be worked any seam of coal within the subject area without leaving, if the Minister, so directs, a barrier of such width or a protective pillar or pillars of such size or sizes against any surface improvements or any feature whether natural or artificial.	N/A	No coal was extracted within ML 1348 during audit period.	Not triggered	
REPORTS					
11	(a) Before commencing to win or work any coal within the marginal zone/s defined in paragraph (b) of this condition or under • the lease holder shall notify the Chief Inspector of Coal Mines of his intention to do so and shall submit a plan of the system whereby such coal is proposed to be won or worked and shall obtain the written approval of the Chief Inspector of Coal Mines to such system. No such coal shall be won or worked except in accordance with the system approved in writing by the Chief Inspector of Coal Mines as altered added to or omitted from as hereinafter provided. In connection with every such submission the lease holder shall do such acts and furnish such information as the Chief Inspector of Coal Mines may require. The Chief Inspector of Coal Mines may at any time cancel any approval to a system and may from time to time alter omit from or add to any system approved by him. (b) For the purposes of paragraph (a) of this condition the marginal zone is the area contained by an angle of draw of • measured outwards from to the floor of the coal seam in which mining operations are being carried out.	N/A	No mining activities were undertaken within ML 1348 during IEA period.	Not triggered	
12	The lease holder unless with the consent of the Minister and subject to such conditions as the Minister may impose shall not work or cause to be worked any seam of coal by underground methods within the subject area within the barrier defined as follows: • The land within the zone beneath and adjacent to • Railway enclosed by an angle of draw of 35° from the vertical plane of the boundary parallel to and thirty (30) metres horizontally distant from either side of the railway lands, such angle of draw being measured outwards from the point on the vertical plane of the said boundary at the surface or at the level of the horizontal plane .of the railway track, whichever may be the higher, to the floor of the coal seam in which mining operations are being carried out.	N/A	No mining activities were undertaken within ML 1348 during IEA period.	Not triggered	
13	Any approval or consent given by the Minister including any approval or consent given pursuant to any condition or term contained in a coal lease referred to in Schedule No 1 annexed hereto to the effect that the registered/lease holder may mine for, work, win or remove any coal from those parts of the subject area within the barrier defined in Condition No·12 of this Schedule shall be deemed to be a consent given for tile purposes of the said Condition No 12 subject to the same conditions of that approval or consent.	N/A	No mining activities were undertaken within ML 1348 during IEA period.	Not triggered	
14	The lease holder shall not prospect or mine for coal within the area(s) shown on the plan annexed hereto and marked • insofar as such area(s) relate(s) to the surface and land below the surface to the depth(s) specified on that plan.	N/A	No mining activities were undertaken within ML 1348 during IEA period.	Not triggered	
SHAFTS, DRIFTS, ADITS					
15	(a) Any ventilation shaft on the subject area, shall be used for ventilation purposes, only. (b) The Minister may consent, subject to such conditions as the Minister may impose to the use of any such shaft for other than ventilation purposes.	Site inspection and interview.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. The ventilation shafts have been sealed as part of the Closure Project.	Not triggered	
16	The lease holder shall comply with any direction given or which may be given by the Minister regarding the dumping, depositing or removal of any material extracted the subject area.	N/A	No directions received.	Not triggered	
17	Operations shall be conducted in such a manner as not to cause any danger to persons or stock and the lease holder shall provide and maintain adequate protection to the satisfaction of the Minister around each shaft or excavation opened up or used by the lease holder.	N/A	No directions received	Not triggered	
DUMPS AND COAL PREPARATION PLANT					
18	The lease holder shall comply with any direction, given or which may be given by the Inspector regarding the stabilisation and revegetation of any dumps of coal, minerals, mine residues, tailings or overburden situated on the subject area.	N/A	No directions received	Not triggered	
19	The lease holder shall comply with any direction given or which may be given by the Minister regarding the spraying of coal dumps on the subject area.	N/A	No directions received	Not triggered	
20	The lease holder shall advise the Minister prior to the erection or operation of any coal preparation plant or any other plant for the purpose of the beneficiation of coal on the subject area. Such plant is to be as generally described and located in the project environmental impact statement.	N/A	No directions received	Not triggered	
DAMS AND ESCAPE OF WATER					
21	Settling dams or other dams constructed or to be constructed on the subject area shall be constructed, maintained and sealed to the satisfaction of the Inspector.	Site inspection Air Quality Management Plan	Measures to view, monitor and manage dust emissions from site identified during site inspection	Compliant	
22	The lease holder shall provide and maintain efficient means to prevent contaminated waters, discharging or escaping from the subject area onto surrounding area.	Site inspection and interviews	There were no discharge event from RUM during the IEA period.	Compliant	
DUST AND CONVEYOR SYSTEMS					
23	The lease holder shall take such precautions as are necessary to abate any dust nuisance.	N/A	No mining activities were undertaken within ML 1348 during IEA period.	Not triggered	
24	The lease holder shall carry out regular inspections of above-ground conveyor systems and shall promptly remove any spillages.	N/A	No mining activities were undertaken within ML 1348 during IEA period. Conveyors were removed as part of the RUM closure project.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1348 (1994)					
GEOLOGICAL HERITAGE SITES					
25	The lease holder shall, as far as may be practicable so, conduct operations in such a manner as not to damage or interfere in any way with which has been identified as a geological heritage site, and which is indicated on the plan annexed hereto and marked.	Site inspection and interviews	There were no geological heritage sites damaged or interfered with during care and maintenance, and the closure of RUM.	Compliant	
AGREEMENT TO TRANSFER					
26	The lease holder shall not enter into any agreement to transfer, sell or otherwise dispose of its interest in this authority for a period of years from the date of this authority without first notifying the Minister, in writing, and obtaining the Minister's consent to such action.	N/A	Not triggered during the IEA period.	Not triggered	
MANAGEMENT AND REHABILITATION OF LANDS (GENERAL)					
27	The lease holder shall not interfere in any way with any fences on or adjacent to the subject area unless with the prior written approval of the owner thereof or the Minister and subject to such conditions as the Minister may stipulate.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
28	The lease holder shall observe any instruction given or which may be given by the Minister with a view to minimising or preventing public inconvenience or damage to public or private property.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
29	Subject to any specific condition of this authority providing for rehabilitation of any particular part of the subject area affected by mining or activities associated therewith, the lease holder shall: (a) shape and revegetate to the satisfaction of the Minister, any part of the subject area that may, in the opinion of the Minister have been damaged or deleteriously affected by mining operations and ensure such areas are permanently stabilised, and (b) reinstate and make safe, including sealing and/or fencing, any excavation within the subject area.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
30	If required to do so by the Minister and within such time as may be stipulated by the Minister the lease holder shall carry out to the satisfaction of the Minister surveys of structures, buildings and pipelines on adjacent landholdings to determine the effect of operations on any such structures, buildings and pipelines.	N/A	No notices/directions given by the Resources Regulator during the audit period. RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022 and has included the demolition of buildings, conveyors and general infrastructure.	Not triggered	
31	(a) The lease holder shall each year once operations have commenced, submit for the Minister's approval an "Annual Environmental Management Report" relating to the operations of the lease holder on the subject area. (b) The date by which the Report must be submitted will be determined by the Minister after consulting with the lease holder. (c) The Report shall comprise: (i) a plan showing short, medium and long term mining plans; (ii) a rehabilitation report (in respect of open cut operations) and/or a surface environmental management report (in respect of underground operations); (iii) a review of performance in terms of Environment Protection Authority and Department of Water Resources licence and approval conditions (related to the Clean Air Act 1961, the Clean waters Act 1970, the Noise Control Act 1975, the Environmentally Hazardous Chemical Act 1985, the Pollution Control Act 1970 and the water Act 1912) applicable to the subject area; (iv) a review of performance in terms of Development Consent conditions for the subject area; (v) a listing of any variations obtained to approvals applicable to the subject area during the previous year. (d) The Minister may, by notice in writing, direct the lease holder to undertake any operations or remedial actions in such manner and within such period as may be specified in that notice so as to ensure that operations on the subject area conform to the requirements of relevant statutory approvals or licences. (e) The lease holder shall conduct operations on the subject area in accordance with an "open cut application" approved by the Minister and any conditions contained in the Minister's approval of that application. Where the lease holder is of the opinion that the approved operations should be amended the lease holder shall submit an amendment for the Minister's approval.	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	Non-compliances are reported in the Annual Reviews and Annual Returns. All Annual Reviews were approved by the Department during the IEA period.	Compliant	
32	If so directed by the Minister the lease holder shall rehabilitate to the satisfaction of the Minister and within such time as may be allowed by the Minister any lands within the subject area which may have been disturbed by the lease holder.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
33	Upon completion of operations on the surface of the subject area or upon the expiry or sooner determination of this authority or any renewal thereof, the lease holder shall remove from such surface such buildings, machinery, plant, equipment, constructions and works as may be directed by the Minister and such surface shall be rehabilitated and left in a clean, tidy and safe condition to the satisfaction of the Minister.	Site inspection and interviews. Annual reviews for 2021, 2022, 2023 Executed Contract RUM-002 CV203 Demolition Risk Assessment Demolition Package RA Presentation Notice of de-energisation clearance for demolition - CV-0203 signed	No notices/directions given by the Resources Regulator during the audit period. RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022 and has included the demolition of buildings, conveyors and general infrastructure.	Compliant	
34	If so directed by the Minister the lease holder shall rehabilitate to the satisfaction of the Minister and within such time as may be allowed by the Minister any lands within the subject area which may have been disturbed by mining or prospecting operations whether such operations were or were not carried out by the lease holder.	N/A	Mining had already commenced in the lease area prior to the IEA period.	Not triggered	
35	The lease holder shall maintain the subject area in a clean and tidy condition at all times.	N/A	No notices/directions given by the Resources Regulator during the audit period. RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022 and has included the demolition of buildings, conveyors and general infrastructure.	Not triggered	
36	The lease holder shall take all precautions against causing outbreak of fire on the subject area.	N/A	No notices/directions given by the Resources Regulator during the audit period. RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022 and has included the demolition of buildings, conveyors and general infrastructure.	Not triggered	
37	(a) <u>Ground Vibration</u> The lease holder shall ensure that the ground vibration peak particle velocity generated by any blasting within the subject area does not exceed 10 mm/second and does not exceed 5 mm/second in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be. (b) <u>Blast Overpressure</u> The lease holder shall ensure that the blast overpressure noise level generated by any blasting within the subject area does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling or occupied premises, as the case may be. (c) Blasting will not be carried out outside the hours of 9 am and 5 pm except with the prior notification and approval of the Inspector.	N/A	No mining activities were undertaken within ML 1348 during IEA period.	Not triggered	
38	Where the lease holder intends to conduct operations in or adjacent to any river, stream, creek, tributary, lake, dam or reservoir the subject of a proclamation under the Fisheries and Oyster Farms Act 1935, relating to or prohibiting the taking of species of fish, the lease holder shall, not less than seven (7) days before commencement of such operations give notice in writing to the District Inspector of Fisheries setting out details of such operations and the river, stream, creek, tributary, lake, dam or reservoir that shall or may be affected thereby.	N/A	No mining activities were undertaken within ML 1348 during IEA period.	Not triggered	
39	The lease holder shall provide and maintain to the satisfaction of the Minister efficient means to prevent contamination, pollution, erosion or siltation of any river, stream, creek, tributary, lake, dam, reservoir, watercourse or catchment area or any undue interference to fish or their environment and shall observe any instruction given or which may be given by the Minister with a view to preventing or minimising the contamination, pollution, erosion or siltation of any river, stream, creek, tributary, lake, dam, reservoir, watercourse or catchment area, or any undue interference to fish or their environment.	Site inspection and interviews	There were no discharge event from RUM during the IEA period.	Compliant	
40	The lease holder shall not use any process, or carry out any works, which are likely to pollute the Hunter River or its catchment Area.	Site inspection and interviews	There were no discharge event from RUM during the IEA period.	Compliant	
41	In the event of Operations disturbing the original bed of the lease holder shall provide: (a) to the satisfaction of • an alternate route for the • in a position as required by •; and (b) if required by the Minister and subject to such conditions as the Minister may impose, the lease holder, upon completion of operations shall relocate the • to its original position.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1348 (1994)					
TREES (PLANTING AND PROTECTION OF) FLORA AND FAUNA AND ARBOREAL SCREENS					
42	The lease holder shall carry out operations in such a manner as to interfere as little as possible with flora and fauna and shall not cut or damage any tree, shrub or other vegetative cover except such as may directly obstruct or prevent the carrying out of the operations.	N/A	No mining activities were undertaken within ML 1348 during IEA period.	Not triggered	
43	The lease holder shall-plant such grasses, trees or shrubs or such other vegetation, as may be required by the Minister and care for same during the currency of this authority or any renewal thereof, to the satisfaction of the Minister.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
44	Notwithstanding the provisions of condition No .56(i) the lease holder shall not fell trees, strip bark or cut timber on any land within the subject area except with the approval of the owner/occupier and subject to the payment to the owner of the trees, bark or timber of compensation as agreed or as assessed by the warden.	Site inspection and interviews	Ravensworth Operations did not fell trees, strip bark or cut timber on land within ML 1348.	Compliant	
45	The lease holder shall maintain an arboreal screen to the satisfaction of the Minister within such parts of the subject area as may be specified by the Minister and shall plant such trees or shrubs as may be required by the Minister to preserve the arboreal screen in a condition satisfactory to the Minister.	Tree screening	The tree screen remained in place during the IEA period. There were no notifications related to the tree screen from the Minister.	Compliant	
46	The lease holder shall cover with top dressing material, to the Minister's satisfaction, such parts of the subject area as may be stipulated by the Minister and shall plant and maintain, to the Minister's satisfaction, such grasses, trees or shrubs or such other vegetation as may be required by the Minister.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
47	Notwithstanding the provisions of Condition No 42, the lease holder shall not destroy or injure any tree, sapling, shrub or scrub on any protected land, as defined by the Soil Conservation Act 1938, as amended, except in accordance with an authority issued by the Commissioner, Soil Conservation Board, under Section 210 of that Act.	N/A	No mining activities were undertaken within ML 1348 during IEA period.	Not triggered	
SOIL EROSION					
48	The lease holder shall conduct operations in such manner as not to cause or aggravate soil erosion and the lease holder shall observe and perform any instructions given or which may be given by the Minister with a view to minimising or preventing soil erosion.	Site inspection Rehabilitation Management Plan	Erosion controls sighted. No issues identified requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
49	The lease holder shall ensure that any topsoil or other material suitable for topdressing purposes which may be disturbed during operations shall be removed separately for replacement as far as may be practicable and the lease holder shall plant or sow such grasses, shrubs or trees in the replaced surface material as may be considered necessary by the Minister to control or prevent soil erosion.	Site inspection Rehabilitation Management Plan	Erosion controls sighted. No issues identified requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
50	In the event of any excavations being made the lease holder shall ensure that such are refilled and the topsoil previously removed is replaced and levelled. All such refilling and levelling shall be done to the satisfaction of the Minister.	Site inspection Rehabilitation Management Plan	Erosion controls sighted. No issues identified requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
51	The lease holder shall ensure that the run off from any disturbed area including the overflow from any depression or ponded area is discharged in such a manner that it will not cause erosion.	Site inspection Rehabilitation Management Plan	Erosion controls sighted. No issues identified requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
ROADS					
52	The lease holder shall pay to Singleton Shire Council, Department of Conservation and Land Management or the Chief Executive, Roads and Traffic Authority the cost incurred by such Council or Department or Chief Executive of making good any damage caused by operations carried on by or under the authority of the lease holder to any road adjoining or traversing the surface or the excepted surface, as the case may be of the subject area. PROVIDED HOWEVER that the amount to be paid by the lease holder as aforesaid shall be reduced by such sum of money if any as may be paid to the said council the Department of Conservation and Land Management or the Chief Executive, Roads and Traffic Authority as the case may be from the Mine Subsidence Compensation Fund constituted under the Mine Subsidence Compensation Act 1961, in settlement of a claim for compensation for the same damage.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
53	In the event of operations being conducted on the surface of any road, track or firetrail traversing the subject area or in the event of such operations causing damage to or interference with any such road, track or firetrail the lease holder, at his own expanse, shall if directed to do so by the Minister provide to the satisfaction of the Minister an alternate road, track or firetrail in a position as required by the Minister and shall allow free and uninterrupted access along such alternate road, track or firetrail and, if required to do so by the Minister, the lease-holder shall upon completion of operations rehabilitate the surface of the original road, track or firetrail to a condition satisfactory to the Minister.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
CATCHMENT AREAS					
54	(a) Operations shall be carried out in such a way as not to cause any pollution of the Catchment Area. (b) If the lease -holder is using or about to use any process which in the opinion of the Minister is likely to cause contamination of the waters of the said Catchment Area the lease holder shall refrain from using or cease using as the case may require such processes within twenty-four (24) hours of the receipt by the lease holder of a notice in writing under the hand of the Minister requiring the lease holder to do so. (c) The lease holder shall comply with any regulations now in force or hereafter to be in force for the protection from pollution of the said Catchment Area.	N/A	No mining activities were undertaken within ML 1348 during IEA period.	Not triggered	
55	(a) The lease holder shall carry out operations in such a way as to conform strictly to all provisions of the water Board Act 1987, as amended, and the regulations thereunder applying to the prevention of pollution of the (Water Catchment) Special Area or the preservation of the purity of the water supply provided thereby or derived there from or for the protection of the property of the Water Board on the Special Area and also to all requirements of the said Board from time to time under the said Act or any of the regulations for the time being in force. (b) If the lease holder shall at any time be using or about to use any process which in the opinion of the Water Board is likely to pollute the Special Area or the water supply or to endanger any property of the said Board on the Special Area the lease holder upon service of a notice in writing under the hand of the Minister to do so shall (i) discontinue the use of such process within twenty-four (24) hours or (ii) thereafter refrain from adopting such process at any time, as the case may require. (c) The lease holder shall provide and maintain to the satisfaction of, the Minister efficient means to prevent the contamination, pollution, erosion or siltation of any stream or watercourse or catchment area and shall observe any instruction given on which may be given by the Minister with a view to preventing or minimising the contamination, pollution or siltation of any stream watercourse or catchment area. (d) The lease holder hereby covenants with Us Our Heirs and Successors and as a separate covenant. the lease holder hereby covenants with the Water Board and its successors that the lease holder shall at all times hereafter save harmless and keep Us and the said Board and our Heirs and Successors and the successors of the said Board indemnified from payment of compensation and from and against all actions proceedings claims and demands in respect of any injury loss or damage arising out of or in any way connected with any interference with or deprivation or loss of access to the land and premises of this authority which may occur by reason of any works or operations undertaken or carried out by the said Board or arising out of or in any way connected with any discontinuance or alteration of any process consequent upon the service of a notice in pursuance of the provisions of Condition 55(b) or arising out of or in any way connected with the operation of any regulations relating to a Special Area in force at the date hereof or made by the said Board at any time hereafter and the lease holder hereby agrees that for the purpose of this condition the said Board shall be deemed to be a party to this authority.	N/A	No mining activities were undertaken within ML 1348 during IEA period.	Not triggered	
56	The lease holder shall: (a) Make such provisions for sanitation as may be directed by the Water Board and shall at all times observe and perform any requirements of the said Board respecting sanitation. (b) Not establish any camps or habitations within any areas under the control of the Water Board unless with the consent of the Water Board. (c) Not sink any drillhole within the stored waters on the subject area nor within • metres of the top water level thereof unless with the consent of the water Board. (d) Not sink any drillhole within any watercourse on the (Water Catchment) Special Area nor within • metres thereof unless with the consent of the water Board. (e) Not interfere with or impede the use of Water Board tracks or endanger their stability in any way by reason of the operations. (f) Not construct any road to the· sites of any drillholes unless with the consent of the Water Board to the proposed route and type of road construction. (g) Not interfere in any way with any fences on or adjacent to the • (Water Catchment) Special Area unless with the consent in writing of the owner thereof or the Water Board . (h) Give three days notice to the Water Board's Resident Engineer, Pipe Head, Guildford of its intention to commence drilling operations. (i) Not cut or remove any timber except such as directly obstructs or prevents the carrying on of operations and the lease holder shall obtain the consent in writing of the Water Board before making use of the timber so cut for other than in connection with operations. (j) Complete work in relation to rehabilitation within the • (Water catchment) Special Area before termination of the authority to the satisfaction of the Water Board.	N/A	No mining activities were undertaken within ML 1348 during IEA period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1348 (1994)					
STATE FORESTS AND FOREST RESERVES					
57	(a) This authority does not confer the power to cut or remove any timber within •, except such as directly obstructs or prevent and the carrying on of operations and the lease holder shall obtain authority under the provisions of the Forestry Act 1916, as amended, or any Act amending the same and the Regulations thereunder before making use of the timber so cut for other than in connection with operations. The sanction of the District Forester or his deputy shall be obtained before proceeding to cut any other timber within the said forest(s). (b) The lease holder shall take all precautions against causing outbreak of fire on the said forest(s) and shall not burn off any grass dry herbage or surface litter except with the consent of the District Forester. (c) In the event of operations encroaching on or within ten (10) metres of any constructed road or firebreak the lease holder shall provide a suitable deviation to the same standard as the previous road or firebreak and upon the completion of operations or the sooner determination of this authority the lease holder shall restore the road or firebreak to its original position and condition to the satisfaction of the Minister. (d) The lease holder shall not interfere with any Crown improvements unless with consent in writing of the Minister. (e) (i) Any necessary clearing shall be done only with the prior permission of the District Forester or his deputy and compensation shall be paid for any mature trees or semi-mature trees damaged or destroyed at the rate fixed by the Forestry Commission of New South Wales and such compensation shall be payable on demand at the end of each calendar month, (ii) In the event of any non-merchantable trees being destroyed by the operations hereby authorised compensation payable to the Forestry Commission of New South Wales shall relate to the cost of establishment and tending of the part of the forest affected by the operations. (iii) For the purpose of allowing inspection of the site and assessment of compensation payable for the timber to be destroyed, the lease holder shall provide two weeks notice to the District Forester or his deputy prior to the commencement of any clearing operations. (f) The lease holder shall not cause damage to forest roads or tracks by operating vehicles on the subject area during wet weather. (g) The Minister reserves the right to suspend operations immediately if weather conditions and/or the operations are causing damage to any assets of the Forestry Commission of New South Wales. (h) During operations and progressively, the lease holder shall rehabilitate, consolidate and make trafficable all roads and firebreaks at present existing and which may be affected by the operations to the satisfaction of the District Forester or his deputy.	N/A	No mining activities were undertaken within ML 1348 during IEA period.	Not triggered	
TRIG STATIONS AND SURVEY MARKS					
58	(a) The marks in connection with any trigonometrical station, Permanent Mark or State Survey Mark (under the survey Co-ordination Act, 1949) erected on or near the subject area shall not be interfered with and the unrestricted right of access to such station by authorised persons and also the right to clear sight lines to surrounding stations is reserved at all times. (b) The lease holder shall take all necessary precautions to preserve the trigonometrical station, Permanent Mark or State Survey Mark (under the Survey Co-ordination Act, 1949) and the cairn, mast and vanes which might be erected upon the subject area. (c) No buildings or other structures shall be erected which would make observations to and from surrounding trigonometrical stations difficult to effect. (d) In the event of operations interfering with or damaging any trigonometrical station, Permanent Mark or State Survey Mark (under the Survey Co-ordination Act, 1949) erected on or near the subject area, or if required to do so by the Minister, the lease holder shall relocate any such trigonometrical station, Permanent Mark or State Survey Mark (under the Survey Co-ordination Act, 1949) to the satisfaction of, and in a position required by, the Department of Conservation and Land Management, the Land Information Centre, Bathurst and the Minister and, if required to do so by the Minister, and subject to such conditions as the Minister may impose, the lease holder, upon completion of operations shall relocate any such trigonometrical station, Permanent Mark or State Survey Mark (under the Survey Co-ordination Act, 1949) to its original position.	N/A	Not triggered during the IEA period.	Not triggered	
RESERVES					
59	The lease holder shall permit the free and uninterrupted passage of stock through the subject area and shall conduct operations in such a manner as not to cause any danger to travelling stock.	N/A	Not triggered during the IEA period.	Not triggered	
60	The lease holder shall permit the free and uninterrupted passage of stock through that part or those parts, as the case may be, of the subject area covered by Reserve No •; and shall conduct operations as not to cause any danger to persons and travelling stock.	N/A	Not triggered during the IEA period.	Not triggered	
61	The lease holder shall as far as may be practicable so conduct operations as not to interfere in any way with the public use and enjoyment of •.	N/A	Not triggered during the IEA period.	Not triggered	
TRANSMISSION LINES, COMMUNICATION LINES AND PIPELINES					
62	The lease holder shall as far as is practicable so conduct operations as not to interfere with or impair the stability or efficiency of any transmission line, communication line or pipeline traversing the surface or the excepted surface of the subject area and shall comply with any direction given or which may be given by the Minister in this regard.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure.	Compliant	
63	Unless with the consent of •, the lease holder shall not carry out any operations within any easement for any power transmission line traversing the subject area.	N/A	No mining activities were undertaken within ML 1348 during IEA period.	Not triggered	
ABORIGNAL PLACE OR RELIC					
64	The lease holder shall not knowingly destroy, deface or damage any Aboriginal place or relic within the subject area except in accordance with an authority issued under the National Parks and Wildlife Act, 1974, and shall take every precaution in drilling, excavating or disturbing the land against any such destruction, defacement or damage.	Site inspection and interviews	There were no Aboriginal places or relics damaged or interfered with during care and maintenance, and the closure of RUM.	Compliant	
LABOUR/EXPENDITURE					
65	The lease holder shall during each year of the term of the authority: (a) ensure that at least 29 workers are efficiently employed on the subject area, or (b) expend on operations carried out in the course of prospecting, or mining the subject area, an amount of not less than $507,500. The Minister may, at any time after a period of two (2) years from the date on which this authority has effect or from the date on which the renewal of this authority has effect, increase or decrease the amount of expenditure or labour required.	Annual Reviews for 2021, 2022 and 2023.	More than 29 employees on subject area during audit period.	Compliant	
ADDITIONAL INFORMATION					
66	The lease holder shall if directed by the Minister and within such time as the Minister may stipulate furnish to the Minister:- (a) information regarding the ownership of the land within the subject area; (b) information regarding the ownership of the coal within the subject area prior to 1st January, 1982; (c) an indemnity in a form approved by the Minister indemnifying the Crown and the Minister against any wrong payment effected as a result of incorrect information furnished; (d) information regarding the financial viability of the lease holder and operations within and associated with the subject area; and (e) information regarding shareholdings in the lease holder.	N/A	Not triggered during the IEA period.	Not triggered	
SERVICE OF NOTICES					
67	Within a period of three months from the date of this authority or a period of three months from the date of service of the notice of renewal, or within such further time as the Director-General may allow the lease holder shall serve on each owner and occupier of the private land and on each occupier of the Crown land held under a pastoral lease within the subject area a notice in writing indicating that this authority has been granted or renewed and whether the authority includes the surface. The notice shall be accompanied by an adequate plan and description of the subject area. If there are ten or more owners or occupiers affected the lease holder may serve the notice by publication in a newspaper circulating in the region where the subject area is situated. The notice shall indicate that this authority has been granted or renewed, state whether the authority includes the surface and shall contain an adequate plan and description of the subject area.	ML 1348 renewal on 4 November 2022.	ML 1348 was renewed on 4 November 2022. EMM sighted letters to landowners on 23 January 2023 which was within 3 months of the renewal date.	Compliant	
INSPECTORS					
68	(a) Where the Inspector is of the opinion that any condition of this authority relating to operations within the subject area, or any provision of the Mining Act, 1992, relating to operations within the subject area, are not being complied with by the lease holder, the Inspector may serve on the lease holder a notice stating that and give particulars of the reason why, and may in such notice direct the lease holder:- (i) to cease operations within the subject area in contravention of that condition or Act; and (ii) to carry out within the specified time works necessary to rectify or reedy the situation. (b) The lease holder shall comply with the directions contained in any notice served pursuant to sub-paragraph (a) of this condition. The Director-General may confirm, vary or revoke any such direction. (c) A notice referred to in this condition may be served on the Colliery Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1348 (1994)					
INDEMNITIES					
69	The lease holder shall indemnify and keep indemnified the Crown from and against all actions suits and claims and demands of whatsoever nature and all costs charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction maintenance or working of any workings now existing or to be made by the lease holder within the boundaries of the subject area or in connection with any of the operations notwithstanding that all other conditions of this authority shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do hereunder.	N/A	Not triggered during the IEA period.	Not triggered	
70	The lease holder shall save harmless the Crown. from payment of compensation and from and against all claims, actions, suits or demands whatsoever in the event of any damage resulting from mining operations under or near the subject area.	N/A	Not triggered during the IEA period.	Not triggered	
PROSPECTING (GENERAL)					
71	(a) Where the lease holder desires to commence prospecting operations in the subject area the lease holder shall notify the Director-General in writing and shall comply with such additional conditions as the Minister may impose including any condition requiring the lodgement of an additional bond or other form of security for rehabilitation of the area affected by such operations. (b) Where the lease holder notifies the Director General pursuant to sub-paragraph (a) of this condition the lease holder shall furnish with that notification details of the type of prospecting methods that would be adapted and the extent and location of the area that would be affected by them.	N/A	Mining had already commenced in the lease area prior to the IEA period.	Not triggered	
SECURITY DEPOSIT					
72	(a) The lease holder shall, within two (2) months of being requested by the Director-General, lodge with the Minister the sum of $• in accordance with Instructions for Manner of Lodgement of Security Deposits as security for the fulfilment of the obligations of the lease holder under this authority. In the event that the lease holder fails to fulfil any of its obligations under this authority the said sum may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purposes of this clause a lease holder shall be deemed to have failed to fulfil its obligations under this authority, if it fails to comply with any condition or provision of this authority, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision of this authority or of any provision of the Act or regulations made thereunder. (b) The Minister may at any time after the commencement of this authority or any renewal thereof, vary the amount of security required in accordance with this condition. (c) Where the amount of security has been increased pursuant to clause (b) hereof the lease holder shall, within two (2) months of being requested by the Minister, lodge a security for the amount of security required, in which case the Minister shall refund or release to the lease holder the security previously lodged.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
RECOVERY OF PUBLIC MONIES EXPENDED					
73	The lease holder shall pay to the Minister the costs and expenses previously incurred in testing the subject area in the sum of $• within twenty eight (28) days of being requested to do so.	N/A	Not triggered during the IEA period.	Not triggered	
74	The lease holder shall pay to the Minister the costs and expenses previously incurred in testing the subject area in the SUM of ($•) in the following manner:- (a) within twenty eight days of the granting of this authority by payment of the sum of ($•) (b) within twenty eight days of the first anniversary of the date of granting of this authority by the payment of the sum of ($•).	N/A	Not triggered during the IEA period.	Not triggered	
ROYALTY AT ADDITIONAL RATES					
75	The lease holder shall during the term of this authority pay to the Minister royalty at the additional rate as prescribed by the Regulations for coal recovered by opencut mining methods from the area.	NA	No coal was extracted within ML 1348 during audit period.	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1349					
EXTRACTION OF COAL					
1	The lease holder shall extract as large a percentage of the coal in the subject area as is possible consistent with the provisions of the Coal Mines Regulation Act 1982 and the Regulations thereunder and shall comply with any direction given or which may be given in this regard by the Minister.	EIS Development consent MOP/Rehabilitation Management Plan	Coal extraction from within the Mining Lease extracted in accordance with approved plans	Compliant	
MINING, REHABILITATION, ENVIRONMENTAL MANAGEMENT PROCESS (MREMP)					
MINING OPERATIONS PLAN (MOP)					
2	(1) Mining operations, including mining purposes, must be conducted in accordance with a Mining Operations Plan (the Plan) satisfactory to the Director-General. The Plan together with environmental conditions of development consent and other approvals will form the basis for: (a) ongoing mining operations and environmental management; and (b) ongoing monitoring of the project. (2) The Plan must be prepared in accordance with the Director-General's guidelines current at the time of lodgement. (3) A Plan must be lodged with the Director-General: (a) prior to the commencement of operations; (b) subsequently as appropriate prior to the expiry of any current Plan; and (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) areas to be used for disposal of tailings/waste; (d) existing and proposed surface infrastructure; (e) progressive rehabilitation schedules; (f) areas of particular environmental sensitivity; (g) water management systems (including erosion and sediment controls); (h) proposed resource recovery; and (i) where the mine will cease extracting during the term of the Plan, a closure plan including final rehabilitation objectives/methods and post mining land use/vegetation. (5) The Plan when lodged will be reviewed by the Department of Mineral Resources. (6) The Director General may within two (2) months of the lodgement of a Plan, require modification and relodgement. (7) If a requirement in accordance with clause (6) is not issued within two months of the lodgement of a Plan, lease holder may proceed with implementation of the Plan submitted subject to the lodgement of the required security deposit within the specified time. (8) During the life of the Mining Operations Plan, proposed modifications to the Plan must be lodged with the Director-General and will be subject to the review process outlined in (5)-(7) above.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
ANNUAL ENVIRONMENTAL MANAGEMENT REPORT (AEMR)					
3	(1) Within 12 month of the commencement of mining operation and therefore annually or, at such other times as may be allowed by the Director-general, the lease holder must lodge an Annual Environmental Management Report (AEMR) with the Director General. (2) The AEMR must be prepared in accordance with the Director-General's guidelines current at the time of reporting and contain a review and forecast of performance for the preceding and ensuing twelve months in terms of: (a) the accepted Mining Operations Plan; (b) development consent requirements and conditions; (c) Environment Protection Authority and Department of Land and Water Conservation Licences and approvals; (d) any other statutory environmental requirements; (e) details of any variations to environmental approvals applicable to the lease area; and (f) where relevant, progress towards final rehabilitation objectives. (3) After considering an AEMR the Director-General may, by notice in writing, direct the lease holder to undertake operations, remedial actions of supplementary studies in the manner and within the period specified in the notice to ensure that operations on the lease area are conducted in accordance with sound mining and environmental practice. (4) The lease holder shall, as and when directed by the Minister, co-operate with the director-general to conduct and facilitate review of the AEMR involving other government agencies.	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	Non-compliances are reported in the Annual Reviews and Annual Returns. All Annual Reviews were approved by the Department during the IEA period.	Compliant	
BARRIERS					
9	The lease holder shall not work or cause to be worked any seam of coal within the subject area without leaving, if the Minister, so directs, a barrier of such width or a protective pillar or pillars of such size or sizes against any surface improvements of any feature whether natural or artificial.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Development consent	All mining operations undertaken in accordance with MOP/Rehabilitation Management Plan and as approved by development consent. RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Compliant	
11	The lease holder unless with the consent of the Minister and subject to such conditions as the Minister may impose shall not work or cause to be worked any seam of coal by underground methods within the subject area within the barrier defined as follows: • The land within the zone beneath and adjacent to the Great Northern Railway enclosed by an angle of draw of 35° from either side of the railway operations such as car parks or quarries, such an angle of draw being measured outwards from the point on the vertical plane of the said boundary at the surface or at the level of the horizontal plane of the railway track, whichever may be the higher to the floor of the coal seam in which mining operations are being carried out.	Mining Operations Plan (MOP) Annual Reviews for 2021, 2022 and 2023.	All operations and resource recovery are reported in the Annual Reviews. All mining operations undertaken in accordance with MOP/Rehabilitation Management Plan and as approved by development consent RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Compliant	
DUST					
17	The lease holder shall take such precautions as are necessary to abate any dust nuisance.	Site inspection Air quality and greenhouse gas management plan	Dust controls, including use of water carts and real time dust monitoring systems observed Management measures detailed within the site's Air Quality and Greenhouse Gas Management Plan	Compliant	
MANAGEMENT AND REHABILITATION OF LANDS (GENERAL)					
18	The lease holder shall not interfere with any fences on or adjacent to the subject area unless with he prior written approval of the owner thereof or the Minister and subject to such conditions as the Minister may stipulate.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
19	The lease holder shall observe any instruction given or which may be given by the Minister with a view to minimising or preventing public inconvenience or damage to public or private property.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
20	If required to do so by the Minister and within such time as may be stipulated by the Minister the lease holder shall carry out to the satisfaction of the Minister surveys of structures, buildings and pipelines on adjacent landholdings to determine the effect of operations on any such structures, buildings and pipelines.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
21	If so directed by the Minister the lease holder shall rehabilitate to the satisfaction of the Minister any lands within the subject area which may have been disturbed by the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1349					
24	The lease holder shall take all precautions against causing outbreak of fire on the subject area.	Rehabilitation Management Plan Rehabilitation risk assessment Biodiversity Offsets Management Plan	Controls and management measures to prevent/minimise risk from bushfires outlined within the Rehabilitation Management Plan	Compliant	
25	The lease holder shall provide and maintain to the satisfaction of the Minister efficient means to prevent contamination, pollution, erosion or siltation of any river, stream, creek, tributary, lake, dam or reservoir, watercourse or catchment area or any undue interference to fish or their environment and shall observe and instruction given or which may be given by the Minister with a view to preventing or minimising the contamination, pollution, erosion or siltation of any river, stream, creek, tributary, lake, dam or reservoir, watercourse or catchment area, or any undue interference to fish or their environment.	Incident register Site inspection	No pollution incidents recorded during audit period. Appropriate storage and management of chemicals and hydrocarbons on site	Compliant	
SOIL EROSION					
30	The lease holder shall conduct operations in such a manner as not to cause or aggravate soil erosion and the lease holder shall observe and perform any instructions given or which may be given by the Minister with a view to minimising or preventing soil erosion.	Site inspection Rehabilitation Management Plan	Erosion controls sighted. No issues identified requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
ROADS					
31	The lease holder shall pay to Singleton Shire Council, Department of Conservation and Land Management or the Chief Executive, Roads and Traffic Authority the cost incurred by such Council Department or Chief Executive of making good any damage caused by operations carried on by or under the authority of the lease holder to any road adjoining or traversing the surface or the excepted surface, as the case may be of the subject area. PROVIDED HOWEVER that the amount to be paid by the lease holder as aforesaid shall be reduced by such sum of money if any as may be paid to the said Council the Department of Conservation and Land Management or the Chief Executive, Roads and Traffic Authority as the case may be from the Mine Subsidence Compensation Fund constituted under the Mine Subsidence Compensation Act, 1961, in settlement of a claim for compensation for the same damage.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
32	In the event of operations being conducted on the surface of any road, track or firetrail traversing the subject area or in the event of such operations causing damage to or interference with any such road, track or firetrail the lease holder, at his own expense, shall if directed to do so by the Minister provide to the satisfaction of the Minister and alternate road, track or firetrail and, if required to so do by the Minister, the lease holder shall upon completion of operations rehabilitate the surface of the original road, track or firetrail to a condition satisfactory to the Minister.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
CATCHMENT AREAS					
33	(a) Operations shall be carried out in such a way as not to cause any pollution of the Hunter River Catchment Area. (b) If the lease holder is using or about to use and process which in opinion of the Minister is likely to cause contamination of the waters of the said Catchment Area the lease holder shall refrain from using or cease using as the case may require such process within twenty-four (24) hours of the receipt by the lease holder of a notice in writing under the hand of the Minister requiring the lease holder the do so. (c) The lease holder shall comply with any regulations now in force or hereafter to be in force for the protection from pollution of the said Catchment Area.	Rehabilitation Management Plan Various environmental management plans Site inspection Incident register	Operations carried out in accordance with various environmental management plans. No pollution events recorded No directions from Resources Regulator received during audit period	Compliant	
TRANSMISSION LINE, COMMUNICATION LINES AND PIPELINES					
41	The lease holder shall as far as is practicable so conduct operations as not to interfere with or impair the stability or efficiency of any transmission line, communication line or pipeline traversing the surface or the excepted surface of the subject area and shall comply with any direction given or which may be given by the Minister in this regard.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions received from the Resources Regulator during the audit period	Compliant	
LABOUR/EXPENDITURE					
44	The lease holder shall during each year of the term of the authority: (a) ensure that at least 78 workers are efficiently employed on the subject area or (b) expend on operations carried out in the course of prospecting or mining the subject area, an amount of not less than $1,365,000. The Minister may, at any time after a period of two (2) years from the date on which this authority has effect or from the date on which the renewal of this authority has effect, increase or decrease the amount of expenditure of labour required.	Annual review (2021, 2022, 2023)	At least 78 persons employed on subject area during relevant periods during the audit period.	Compliant	
ADDITIONAL INFORMATION					
45	The lease holder shall if directed by the Minister and within such time as the Minister may stipulate furnish to the Minister. (a) information regarding the ownership of the land within the subject; (b) information regarding the ownership of the coal within the subject area prior to 1st January, 1982; (c) an indemnity in a form approved by the Minister indemnifying the Crown and the Minister against any wrong payment effected as a result of incorrect (d) information furnished by the lease holder; (e) information regarding the financial viability of the lease holder and operations within and associated with the subject area; and (f) information regarding shareholdings in the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
SERVICE OF NOTICES					
46	Within a period of three months from the date of this authority or a period of three months from the date of service of the notice of renewal, or within such further time as the Director-General may allow the lease holder shall serve on each owner and occupier of the private land and on each occupier of the Crown land and held under a pastoral lease within the subject area a notice in writing indicating that this authority has been granted or renewed and whether the authority includes the surface. The notice shall be accompanied by an adequate plan and description of the subject area. If there are ten (10) or more Owners or occupiers affected the lease holder may serve the notice by publication in a newspaper circulating in the region where the subject area is situated. The notice shall indicate that this authority has been granted or renewed, state whether the authority includes the surface and shall contain an adequate plan and description of the subject area.	ML 1349 renewal on 23 November 2022.	ML 1349 was renewed on 23 November 2022. EMM sighted letters to landowners on 13 February 2023 which was within 3 months of the renewal date.	Compliant	
INSPECTORS					
47	(a) Where the Inspector under the Mining Act 1992 is of the opinion that any condition of this authority relating to operations within the subject area, or any provisions of the Mining Act, 1992, relating to operations within the subject area, are not being complied with by the lease holder, the Inspector may serve on the lease holder a notice stating that and give particulars of the reason why, and may in such notice direst the lease holder: (i) to cease operations within the subject area in contravention of that condition or Act; and (ii) to carry out within the specified time works necessary to rectify or remedy the situation. (b) The lease holder shall comply with the directions contained in any notice served pursuant to sub paragraph(a) of this condition. The Director General may confirm, vary or revoke any such direction. (c) A notice referred to in this condition may be serviced on the Colliery Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
INDEMNITIES					
48	The lease holder shall indemnify and keep indemnified the Crown from and against all actions suits and claims and demands of whatsoever nature and all costs charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction maintenance or working of any working now existing or to be made by the lease holder within the boundaries of the subject area or in connection with any of the operations notwithstanding that all other condition of this authority shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act of thing which the lease holder may be licensed or compelled to do hereunder.	N/A	Not triggered during the IEA period.	Not triggered	
49	The lease holder shall save harmless the Crown from payment of compensation and from and against all claims, actions, suits or demands whatsoever in the even of any damage resulting from mining operations under or near the subject area.	N/A	Not triggered during the IEA period.	Not triggered	
PROSPECTING (GENERAL)					
50	(a) Where the lease holder desires to commence prospecting operations in the subject area the lease holder shall notify the Director-General in writing and shall comply with such additional conditions as the Minister may impose including any condition requiring the lodgement of an additions bond or other form of security for rehabilitation of the area affected by such operations. (b) Where the lease holder notifies the Director-General pursuant to sub-paragraph (a) of this condition the lease holder shall furnish with that notification details of the type of prospecting methods that would be adopted and the extent and location of the area that would be affected by them.	N/A	Mining had already commenced in the lease area prior to the IEA period.	Not triggered	

Table A.4 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1357					
Notice to Landholders					
1	(a)Within a period of three months from the date of grant/renewal of this mining lease, the lease holder must serve on each landholder a notice in writing indicating that this mining lease has been granted/renewed and whether the lease includes the surface. A plan identifying each landholder and individual land parcel subject to the lease area, and a description of the lease area must accompany the notice. (b)If there are ten or more landholders, the lease holder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area. If a notice is made under condition 1 (b), compliance with condition 1 (a) is not required.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Rehabilitation					
2	Any disturbance resulting from the activities carried out under this mining lease must be rehabilitated to the satisfaction of the Minister.	Rehabilitation Management Plan Site inspection	All rehabilitation activities carried out in accordance with the approved Rehabilitation Management Plan	Compliant	
Mining Operations Plan and Annual Rehabilitation Report					
3	(a)The lease holder must comply with an approved Mining Operations Plan (MOP) in carrying out any significant surface disturbing activities, including mining operations, mining purposes and prospecting. The lease holder must apply to the Minister for approval of a MOP. An approved MOP must be in place prior to commencing any significant surface disturbing activities, including mining operations, mining purposes and prospecting. (b)The MOP must identify the post mining land use and set out a detailed rehabilitation strategy which: (i) identifies areas that will be disturbed; (ii) details the staging of specific mining operations, mining purposes and prospecting; (iii)identifies how the mine will be managed and rehabilitated to achieve the post mining land use; (iv)identifies how mining operations, mining purposes and prospecting will be carried out in order to prevent and or minimise harm to the environment; and (v) reflects the conditions of approval under: • the Environmental Planning and Assessment Act 1979; • the Protection of the Environment Operations Act 1997; and • any other approvals relevant to the development including the conditions of this mining lease. (c) The MOP must be prepared in accordance with the ESG3: Mining Operations Plan (MOP) Guidelines September 2013 published on the Department's website atwww.resources.nsw.gov .au/environment (d) The lease holder may apply to the Minister to amend an approved MOP at any time. (e) It is not a breach of this condition if: (i) the operations which, but for this condition 3(e) would be a breach of condition 3(a), were necessary to comply with a lawful order or direction given under the Environmental Planning and Assessment Act 1979, the Protection of the Environment Operations Act 1997, the Mine Health and Safety Act 2004 / Coal Mine Health and Safety Act 2002 and Mine Health and Safety Regulation 2007 / Coal Mine Health and Safety Regulation 2006 or the Work Health and Safety Act 2011; and (ii) the Minister had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out. (f) The lease holder must prepare a Rehabilitation Report to the satisfaction of the Minister. The report must: (i) provide a detailed review of the progress of rehabilitation against the performance measures and criteria established in the approved MOP; (ii) be submitted annually on the grant anniversary date (or at such other times as agreed by the Minister); and (iii)be prepared in accordance with any relevant annual reporting guidelines published on the Department's website at www.resources.nsw.gov.au/environment. *Note: The Rehabilitation Report replaces the Annual Environmental Management Report.*	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Compliance Report					
4	(a)The lease holder must submit a Compliance Report to the satisfaction of the Minister. The report must be prepared in accordance with any relevant guidelines or requirements published by the Minister for compliance reporting. (b)The Compliance Report must include: (i)the extent to which the conditions of this mining lease or any provisions of the Act or the regulations applicable to activities under this mining lease, have or have not been complied with; (ii)particulars of any non-compliance with any such conditions or provisions; (iii)the reasons for any such non-compliance; (iv) any action taken, or to be taken, to prevent any recurrence, or to mitigate the effects, of that non-compliance . (c) The Compliance Report must be lodged with the Department annually on the grant anniversary date for the life of this mining lease. (d) In addition to annual lodgement under condition 4(c) above, a Compliance Report: (i) must accompany any application to renew this mining lease under the Act; (ii) must accompany any application to transfer this mining lease under the Act; and (iii)must accompany any application to cancel, or to partially cancel, this mining lease under the Act. (e) Despite the submission of any Compliance Report under (c) or (d) above, the titleholder must lodge a Compliance Report with the Department at any date or dates otherwise required by the Minister. (f) A Compliance Report must be submitted one month prior to the expiry of this mining lease, where the licence holder is not seeking to renew or cancel this mining lease.	Annual Reviews for 2021, 2022 and 2023.	Annual reviews prepared for audit period.	Compliant	
Environmental Incident Report					
5	(a)The lease holder must notify the Department of all: (i)breaches of the conditions of this mining lease or breaches of the Act causing or threatening material harm to the environment; and (ii)breaches of environmental protection legislation causing or threatening material harm to the environment (as defined in the Protection of the Environment Operations Act 1997) arising in connection with significant surface disturbing activities, including mining operations, mining purposes and prospecting operations, under this mining lease. The notification must be given immediately after the lease holder becomes aware of the breach. *Note: Refer to www.resources.nsw.qov.au/environment for notification contact details.* (b) The lease holder must submit an Environmental Incident Report to the Department within seven (7) days of all breaches referred to in condition 5(a)(i) and (ii). The Environmental Incident Report must include: (i) the details of the mining lease; (ii) contact details for the lease holder; (iii)a map identifying the location of the incident and where material harm to the environment has or is likely to occur; (iv)a description of the nature of the incident or breach, likely causes and consequences; (v) a timetable showing actions taken or planned to address the incident and to prevent future incidents or breaches referred to in 5(a); (iv)a description of the nature of the incident or breach, likely causes and consequences; and (vi) a summary of all previous incidents or breaches which have occurred in the previous 12 months relating to significant surface disturbing activities, including mining operations, mining purposes and prospecting operations under this mining lease. *Note: The lease holder should have regard to any relevant Director General's guidelines in the preparation of an Environmental Incident Report. Refer to www.resources.nsw.gov.aulenvironment for further details.* (c) In addition to the requirements set out in conditions 5(a) and (b), the lease holder must immediately advise the Department of any notification made under section 148 of the Protection of the Environment Operations Act 1997 arising in connection with significant surface disturbing activities including mining operations, mining purposes and prospecting operations, under this mining lease.	Annual Reviews for 2021, 2022 and 2023.	Annual reviews prepared for audit period. There were no non-compliances during the IEA period.	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1357					
Extraction Plan					
6	(a)In this condition: (i)approved Extraction Plan means a plan, being: A.an extraction plan or subsidence management plan approved in accordance with the conditions of a relevant development consent and provided to the Secretary; or B.a subsidence management plan relating to the mining operations subject to this lease: I.submitted to the Secretary on or before 31 December 2014; and II.approved by the Secretary (ii)relevant development consent means a development consent or project approval issued under the Environmental Planning & Assessment Act 1979 relating to the mining operations subject to this lease. (b)The lease holder must not undertake any underground mining operations that may cause subsidence except in accordance with an approved Extraction Plan. (c)The lease holder must ensure that the approved Extraction Plan provides for the effective management of risks associated with any subsidence resulting from mining operations carried out under this lease. (d)The lease holder must notify the Secretary within 48 hours of any: (i)incident caused by subsidence which has a potential to expose any person to health and safety risks; (ii)significant deviation from the predicted nature, magnitude, distribution, timing and duration of subsidence effects, and of the potential impacts and consequences of those deviations on built features and the health and safety of any person; or (iii)significant failure or malfunction of a monitoring device or risk control measure set out in the approved Extraction Plan addressing: A.built features; B.public safety; or C.subsidence monitoring.	Extraction Plan	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Resource Recovery					
7	The lease holder must optimise recovery of the minerals that are the subject of this mining lease to the extent economically feasible.	NA	No mining within ML1357 during audit period	Not triggered	
Group Security					
8	The lease holder is required to provide and maintain a security deposit to secure funding for the fulfilment of obligations of all or any kind under the mining lease, including obligations of all or any kind under the mining lease that may arise in the future. The amount of the security deposit to be provided as a group security has been assessed by the Minister at $ 24,935,000. The leases covered by the group security include: • Consolidated Coal Lease Nos 723 and 739 (Act 1973) • Coal Lease Nos 380 and 580 (Act 1973).	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
Cooperation Agreement					
9	The lease holder must make every reasonable attempt, and be able to demonstrate its attempts, to enter into a cooperation agreement with the holder(s) of any overlapping title(s). The cooperation agreement should address but not be limited to issues such as: •access arrangements •operational interaction procedures •dispute resolution •information exchange •well location •timing of drilling •potential resource extraction conflicts; and •rehabilitation issues.	Cooperation agreement	Cooperation agreements were already in place prior to the IEA period.	Not triggered	
Special conditions					
	Note: The standard conditions apply to all mining leases. The Division of Resources & Energy (ORE) reserves the right to impose special conditions, based on individual circumstances, where appropriate.				
Prescribed Dam					
10	(a) Notwithstanding any Mining Operations Plan, the lease holder must not mine within any part of the lease area of the Ravensworth South Tailings Facility and the Ravensworth West Notification Area without the prior written approval of the Minister and subject to any conditions stipulated. (b) Where the lease holder desires to mine within the notification area he or she must: (i) at least twelve (12) months before mining is to commence or such lesser time as the Minister may permit, notify the Minister of the desire to do so. A plan of the mining system to be implemented must accompany the notice; and (ii) provide such information as the Minister may direct. (c) The Minister must not, except in the circumstances set out in sub-paragraph (ii), grant approval unless sub-paragraph (i) of this paragraph has been complied with. This sub-paragraph is complied with if: (i) the Dams Safety Committee as constituted by Section 7 of the Dams Safety Act 1978 and the owner of the dam have been notified in writing of the desire to mine referred to in paragraph (b); (ii) the notifications referred to in clause (a) are accompanied by a description or plan of the area to be mined; (iii)the Director-General has complied with any reasonable request made by the Dams Safety Committee or the owner of the dam for further information in connection with the mining proposal; (iv)the Dams Safety Committee has made its recommendations concerning the mining proposal or has informed the Minister in writing that it does not propose to make any such recommendations; and (v)where the Dams Safety Committee has made recommendations the approval is in terms that are: • in accordance with those recommendations; or • where the Minister does not accept those recommendations or any of them in accordance with a determination under sub-paragraph (ii) of this paragraph. vi) Where the Minister does not accept the recommendations of the Dams Safety Committee or where the Dams Safety Committee has failed to make any recommendations and has not informed the Minister in writing that it does not propose to make any recommendations, the approval shall be in terms that are, in relation to matters dealing with the safety of the dam: • as determined by agreement between the Minister and the Minister administering the Dams Safety Act 1978; or • in the event of failure to reach such agreement - as determined by the Premier. (d) The Minister, on notice from the Dams Safety Committee, may at any time or times: (i) cancel any approval given where a notice pursuant to Section 18 of the Dams Safety Act 1978 is given; (ii) suspend for a period of time, alter, omit from or add to any approval given or conditions imposed.	N/A	Ravensworth Operation did not mine through the Ravensworth South Tailings Facility and the Ravensworth West Notification Area during the IEA period.	Not triggered	
Exploration Reporting					
	Note: Exploration Reports (Geological and Geophysical) *The lease holder must lodge reports to the satisfaction of the Minister in accordance with section 163G of the Mining Act 1992 and in accordance with clause 57 of the Mining Regulation 2010.* *Reports must be prepared in accordance with Exploration Reporting: A guide for reporting on exploration and prospecting in New South Wales (Department of Trade and Investment; Regional Infrastructure and Services 2010).*	N/A	No exploration activities undertaken within ML 1357 during audit period	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1393					
Notice to Landholders					
1	Within a period of three months from the date of grant/renewal of this mining lease or within such further time as the Minster may allow, the lease holder must serve on each landholder a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. A adequate plan and description of the lease area must accompany the notice. If there are ten or more landholders affected, the leaseholder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Environmental Harm					
2	The proponent shall implement all practicable measure to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of the development.	Rehabilitation management plan Various environmental management plans Site inspection Incident register	Site inspection identified all reasonable and feasible measures to mitigate and manage environmental impacts to the environment were in place.	Compliant	
Mining Operations Plan					
3	(a) Mining operations must not be carried out otherwise than in accordance with: a Mining Operation Plan (MOP) which has been approved by the Director-General of the Department of Primary Industries. (b) The MOP must: (i) identify areas that will be disturbed by mining operations; (ii) detail the staging of specific mining operations; (iii) identify how the mine will be managed to allow mine closure; (iv) identify how mining operations will be carried out on site in order to prevent and or minimise harm to the environment; (v) reflect the conditions of approval under the Environmental Planning and Assessment Act 1979, the Protection of the Environment Operations Act 1997, and any other approvals relevant to the development including the conditions of this lease; and (vi) have regard to any relevant guidelines adopted by the Director-General. (c) The titleholder may apply to the Director-General to amend an approved MOP at any time. (d) It is not a breach of this condition if: (i) the operations constituting the breach were necessary to comply with a lawful order of direction given under the Mining Act 1992, the Environmental Planning and Assessment Act 1979, Protection Operations Act 1997 or the Occupational Health and Safety Act 2000; and (ii) the Director-General had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out. (e) A MOP ceases to have affect 7 years after date of approval or other such period as identified by the Director-General. An approved amendment to the MOP under condition 5 does not constitute an approval for the purpose of this paragraph unless otherwise identified by the Director-General.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Environment Management Reporting					
4	The lease holder must lodge Environmental Management Reports (EMR) with the Director-General annually or at dates otherwise directed by the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
5	The EMR must: • report against compliance with the MOP; • report on progress in respect of rehabilitation completion criteria; • report on the extent of compliance with regulatory requirements; and • have regard to any relevant guidelines adopted by the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
6	Additional environmental reports may be required on specific surface disturbing operations or environmental incidents from time to time as directed in writing by the Director-General and must be lodged as instructed.	N/A	Not triggered during the IEA period.	Not triggered	
Rehabilitation					
7	Disturbed land must be rehabilitated to a sustainable/agreed end land use to the satisfaction of the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews. All Annual Reviews during the reporting period have been approved. No areas of rehabilitation were approved/signed off by the Department during the IEA period.	Compliant	
Subsidence Management					
8	(a) The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface. (b) Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gateroads, installation roads· and associated main headings, etc), and pillar extractions, and are otherwise defined by the Applications for Subsidence Management Approvals guidelines (EDG17). (c) The lease holder must not commence or undertake underground mining operations that will potentially lead io subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the Coal Mine Health and Safety Act 2002, or the document New Subsidence Management Plan Approval Process - Transitional Provisions (EDP09). (d) Subsidence Management Plans are to be prepared in accordance with the Guideline for Applications for Subsidence Management Approvals. (e) Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 2 and will be subject to the Annual Environmental Management Report process as set out under Condition 3. The SMP is also subject-to the requirements for subsidence monitoring and reporting set out in the document New Approval Process for Management of Coal Mining Subsidence Policy.	Extraction Plan	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Working Requirement					
9	The lease holder must: (a) ensure that at least 31 competent people are efficiently employed on the lease area on each week day except Sunday or any week day that is a public holiday, OR (b) expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than $542,500 per annum whilst the lease is in force. The Minister may at any time or times, by instrument in writing served on the lease holder, increase or decrease the expenditure required or the number of people to be employed.	Annual Reviews for 2021, 2022 and 2023.	At least 31 persons employed on subject area during relevant periods during the audit period.	Compliant	
Control of Operations					
10	(a) If an Environmental Officer of the Department believes that the lease holder is not complying with any provision of the Act or any condition of this lease relating to the working of the lease, he may direct the lease holder to: (i) cease working the lease; or (ii) cease that part of the operation not complying with the Act or conditions; until in the opinion of the Environmental Officer the situation is rectified. (b) The lease holder must comply with any direction given. The Director-General may confirm, vary or revoke any such direction. (c) A direction referred to in this condition may be served on the Mine Manager.	N/A	No notifications received from the Resources Regulator during the audit period	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1393					
Reports					
11	The lease holder must provide an exploration report, within a period of twenty-eight days after each anniversary of the date this lease has effect or at such other date as the Director-General may stipulate, of each year. The report must be to the satisfaction of the Director-General and contain the following: (a) Full particulars, including results, interpretation and conclusions, of all exploration conducted during the twelve months period. (b) Details of expenditure incurred in conducting that exploration. (c) A summary of all geological findings acquired through mining or development evaluation activities. (d) Particulars of exploration proposed to be conducted in the next twelve months period. (e) All plans, maps, sections and other data necessary to satisfactorily interpret the report.	N/A	No exploration within ML 1393 during IEA period.	Not triggered	
Licence to Use Reports					
12	(a) The lease holder grants to the Minister, by way of a non-exclusive licence, the right in copyright lo publish, print, adapt and reproduce all exploration reports lodged in any form and for the full duration of copyright. (b) The non-exclusive licence will operate as a consent for the purposes of section 365 of the Mining Act 1992.	N/A	Not triggered during the IEA period.	Not triggered	
Confidentiality					
13	(a) All exploration reports submitted in accordance with the conditions of this lease will be kept confidential while the lease is in force, except in cases where: (i) the lease holder has agreed that specified reports may be made nonconfidential; (ii) reports deal with exploration conducted exclusively on areas that have ceased to be part of the lease. (b) Confidentiality will be continued beyond the termination of a lease where an application for a flow-on title was lodged during the currency of the lease. The confidentiality will last until that flow-on title or any subsequent flow-on title, has terminated. (c) The Director-General may extend the period of confidentiality.	N/A	Not triggered during the IEA period.	Not triggered	
Terms of the non-exclusive licence					
14	The terms of the non-exclusive copyright licence granted under condition 12 are: (a) the Minister may sub-licence others to publish, print, adapt and reproduce but not on-licence reports; (b) the Minister and any sub-licensee will acknowledge the lease holder's and any identifiable consultants ownership of copyright in any reproduction of the reports, including storage of reports onto an electronic database; (c) the lease holder does not warrant ownership of all copyright works in any report and, the lease holder will use best endeavours to identify those parts of the report for which the lease holder owns the copyright; (d) there is no royalty payable by the Minister for the licence; (e) if the lease holder has reasonable grounds to believe that the Minister has exercised his rights under the non-exclusive copyright licence in a manner which adversely affects the operations of the lease holder, that licence is revocable on the giving of a period of not less than three months notice.	N/A	Not triggered during the IEA period.	Not triggered	
Safety					
16	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Site inspection Incident register	Site inspection identified appropriate fencing/signage in place. Safety reporting procedures in place and reported as required Shafts associated with underground workings sealed/fenced	Compliant	
Exploratory Drilling					
17	(1) At least twenty eight days prior to commencement of drilling operations the lease holder must notify the relevant Department of Climate Change and Environment regional hydrogeologist of the intention to drill exploratory drill holes together with information on the location of the proposed holes. (2) If the lease holder drills exploratory drill holes he must satisfy the Director General that: (a) all cored holes are accurately surveyed and permanently marked in accordance with Departmental guidelines so that their location can be easily established; (b) all holes cored or otherwise are sealed to prevent the collapse of the surrounding surface; (c) all drill holes are permanently sealed with cement plugs to prevent surface discharge of groundwaters; (d) if any drill hole meets natural or noxious gases it is plugged or sealed to prevent their escape; (e) if any drill hole ·meets an artesian or sub-artesian flow it is effectively sealed to prevent contamination of aquifers; (f) once any drill hole ceases to be used the hole must be sealed in accordance with Departmental guidelines. Alternatively, the hole must be sealed as instructed by the Director-General; (g) once any drill hole ceases to be used the !and its immediate vicinity is left in a clean, tidy and stable condition.	N/A	No exploration within ML 1393 during IEA period.	Not triggered	
Prevention of Soil Erosion and Pollution					
18	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.	Site inspection Rehabilitation Management Plan	Erosion controls sighted. No issues identified requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
Transmission lines, Communication lines and Pipelines					
19	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions he may stipulate.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions received from the Resources Regulator during the audit period Mining operations undertaken in accordance with approved Rehabilitation Management Plan	Compliant	
Roads and Tracks					
21	(a) Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior written approval of the Director-General and subject to any conditions he may stipulate. (b) The lease holder must pay to the designated authority in control of the road (generally the local council or the Roads and Traffic Authority) the cost incurred in fixing any damage to roads caused by operations carried out under the lease, less any amount paid or payable from the Mine Subsidence Compensation Fund.	Incident register Rehabilitation Management Plan	Mining operations undertaken in accordance with approved Rehabilitation Management Plan No notices/directions given by the Resources Regulator during the audit period	Compliant	
Resource Recovery					
25	(a) Notwithstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered from the lease area, or that any such minerals which are being recovered are not being recovered to the extent which should be economically possible or which for environmental reasons are necessary to be recovered, he may give notice in writing to the lease holder requiring the holder to recover such minerals. (b) The notice shall specify the minerals to be recovered and the extent to which they are to be recovered, or the objectives in regard to resource recovery, but shall not specify the processes the lease holder shall use to achieve the specified recovery. (c) The lease holder must, when requested by the Director-General, provide such information as the Director-General may specify about the recovery of the mineral resources of the lease area. (d) The Director-General shall issue no such notice unless the mailer has firstly been thoroughly discussed with and a report to the Director-General has incorporated the views of the lease holder. (e) The lease holder may object to the requirements of any notice issued under this condition and on receipt of such an objection the Minister shalt refer it to a Warden for inquiry and report under Section 334 of the Mining Act, 1992. (f) After considering the Warden's report the Minister shall decide whether to withdraw, modify or maintain the requirements specified in the original notice and shall give the lease holder written notice of the decision. The lease holder must comply with the requirements of this notice.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1393					
Indemnity					
26	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	N/A	Not triggered during the IEA period.	Not triggered	
Security					
Single Security (extended)					
28	(a) The single security given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under CL 378, CL 392, MPL 311, ML 1300, ML 1325, ML 1327, ML 1373, ML 1421, ML1502 and ML 1526 is extended to apply to this lease. (b) If the lease holder fails to fulfil any one or more of the obligations under this lease, then the security held may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purpose of this clause the lease holder shall be deemed to have failed to fulfil the obligations of the lease if the lease holder fails to comply with any condition or provision hereof, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision hereof or of any provision of the Act or regulations made thereunder.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
Prescribed Dam					
29	(a) Notwithstanding any Mining Operations Plan, the lease holder must not mine within any part of the lease area which is within the notification area of the Ravensworth 5 Void West Tailings Dam without the prior written approval of the Minister and subject to any conditions he may stipulate. (b) Where the lease holder desires to mine within the notification area he must: (i) at least twelve (12) months before mining is to commence or such lesser time as the Minister may permit, notify the Minister of the desire to do so a plan of the mining system to be implemented must accompany the notice; and (ii) provide such information as the Minister may direct. (c) The Minister must not, except in the circumstances set out in sub-paragraph (ii), grant approval unless sub-paragraph (i) of this paragraph has been complied with. (i) This sub-paragraph is complied with if: (a) the Dams Safety Committee as constituted by Section 7 of the Dams Safety Act 1978 and the owner of the dam have been notified in writing of the desire to mine referred to in paragraph (B); (b) the notifications referred to in clause (a) are accompanied by a description or plan of the area to be mined; (c) the Director-General has complied with any reasonable request made by the Dams Safety Committee or the owner of the dam for further information in connection with the mining proposal; (d) the Dams Safety Committee has made its recommendations concerning the mining proposal or has informed the Minister in writing that it does not propose to make any such recommendations; (e) where the Dams Safety Committee has made recommendations the approval is in terms that are: (i) in accordance with those recommendations; or (ii) where the Minister does not accept those recommendations or any of them in accordance with a determination under sub-paragraph (ii) of this paragraph; (ii) where the Minister does not accept the recommendations of the Dams Safety Committee or where the Dams Safety Committee has failed to make any recommendations and has not informed the Minister in writing that it does not propose to make any recommendations, the approval shall be in terms that are, in relation to matters dealing with the safety of the dam: (a) as determined by agreement between the Minister and the Minister administering the Dams Safety Act 1978; or (b) in the event of failure to reach such agreement as determined by the Premier. (d) The Minister, on notice from the Dams Safely Committee, may at any time or times: (i) cancel any approval given where a notice pursuant to Section 18 of the Dams Safety Act 1978 is given; (ii) suspend for a period of time, alter, omit from or add to any approval given or conditions imposed.	N/A	Ravensworth Operation did not mine through the Ravensworth 5 Void West Tailings Dama during the IEA period.	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1398 (2008)					
Notice to Landholders					
1	Within a period of three months from the date of grant/renewal of this mining lease or within such further time as the Minster may allow, the lease holder must serve on each landholder a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. A adequate plan and description of the lease area must accompany the notice. If there are ten or more landholders affected, the leaseholder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Environmental Harm					
2	The proponent shall implement all practicable measure to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of the development.	Rehabilitation management plan Various environmental management plans Site inspection Incident register	Site inspection identified all reasonable and feasible measures to mitigate and manage environmental impacts to the environment were in place.	Compliant	
Mining Operations Plan					
3	(a) Mining operations must not be carried out otherwise than in accordance with: a Mining Operation Plan (MOP) which has been approved by the Director-General of the Department of Primary Industries. (b) The MOP must: (i) identify areas that will be disturbed by mining operations; (ii) detail the staging of specific mining operations; (iii) identify how the mine will be managed to allow mine closure; (iv) identify how mining operations will be carried out on site in order to prevent and or minimise harm to the environment; (v) reflect the conditions of approval under: - the Environmental Planning and Assessment Act 1979; - the Protection of the Environment Operations Act 1997; and - any other approvals relevant to the development including the conditions of this lease; and (vi) have regard to any relevant guidelines adopted by the Director-General. (c) The titleholder may apply to the Director-General to amend an approved MOP at any time. (d) It is not a breach of this condition if: (i) the operations constituting the breach were necessary to comply with a lawful order of direction given under the Mining Act 1992, the Environmental Planning and Assessment Act 1979, Protection Operations Act 1997 or the Occupational Health and Safety Act 2000; and (ii) the Director-General had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out. (e) A MOP ceases to have affect 7 years after date of approval or other such period as identified by the Director-General. An approved amendment to the MOP under condition 5 does not constitute an approval for the purpose of this paragraph unless otherwise identified by the Director-General.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Environment Management Reporting					
4	The lease holder must lodge Environmental Management Reports (EMR) with the Director-General annually or at dates otherwise directed by the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
5	The EMR must: (a) report against compliance with the MOP; (b) report on progress in respect of rehabilitation completion criteria; (c) report on the extent of compliance with regulatory requirements; and (d) have regard to any relevant guidelines adopted by the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
6	Additional environmental reports may be required on specific surface disturbing operations or environmental incidents from time to time as directed in writing by the Director-General and must be lodged as instructed.	N/A	Not triggered during the IEA period.	Not triggered	
Rehabilitation					
7	Disturbed land must be rehabilitated to a sustainable/agreed end land use to the satisfaction of the Director-General.	Rehabilitation Management Plan Site inspection	All rehabilitation activities carried out in accordance with the approved Rehabilitation Management Plan	Compliant	
Subsidence Management					
8	(a) The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface. (b) Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gate roads, installation roads· and associated main headings, etc), and pillar extractions, and are otherwise defined by the Applications for Subsidence Management Approvals guidelines (EDG17). (c) The lease holder must not commence or undertake underground mining operations that will potentially lead io subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the Coal Mine Health and Safety Act 2002, or the document New Subsidence Management Plan Approval Process - Transitional Provisions (EDP09). (d) Subsidence Management Plans are to be prepared in accordance with the Guideline for Applications for Subsidence Management Approvals. (e) Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 2 and will be subject to the Annual Environmental Management Report process as set out under Condition 3. The SMP is also subject-to the requirements for subsidence monitoring and reporting set out in the document New Approval Process for Management of Coal Mining Subsidence Policy.	Extraction Plan	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Working Requirement					
9	The lease holder must: (a) ensure that at least three (3) competent people are efficiently employed on the lease area on each week day except Sunday or any week day that is a public holiday, OR (b) expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than $52,500 per annum whilst the lease is in force. The Minister may at any time or times, by instrument in writing served on the lease holder, increase or decrease the expenditure required or the number of people to be employed.	Annual Reviews for 2021, 2022 and 2023.	At least three persons employed on subject area during relevant periods during the audit period.	Compliant	
Control of Operations					
10	(a) If an Environmental Officer of the Department believes that the lease holder is not complying with any provision of the Act or any condition of this lease relating to the working of the lease, he may direct the lease holder to: (i) cease working the lease; or (ii) cease that part of the operation not complying with the Act or conditions; until in the opinion of the Environmental Officer the situation is rectified. (b) The lease holder must comply with any direction given. The Director-General may confirm, vary or revoke any such direction. (c) A direction referred to in this condition may be served on the Mine Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1398 (2008)					
Reports					
11	The lease holder must provide an exploration report, within a period of twenty-eight days after each anniversary of the date this lease has effect or at such other date as the Director-General may stipulate, of each year. The report must be to the satisfaction of the Director-General and contain the following: (a) Full particulars, including results, interpretation and conclusions, of all exploration conducted during the twelve months period; (b) Details of expenditure incurred in conducting that exploration; (c) A summary of all geological findings acquired through mining or development evaluation activities; (d) Particulars of exploration proposed to be conducted in the next twelve months period; (e) All plans, maps, sections and other data necessary to satisfactorily interpret the report.	N/A	No exploration activities undertaken within ML 1398 during audit period	Not triggered	
Licence to Use Reports					
12	(a) The lease holder grants to the Minister, by way of a non-exclusive licence, the right in copyright lo publish, print, adapt and reproduce all exploration reports lodged in any form and for the full duration of copyright. (b) The non-exclusive licence will operate as a consent for the purposes of section 365 of the Mining Act 1992.	N/A	Not triggered during the IEA period.	Not triggered	
Confidentiality					
13	(a) All exploration reports submitted in accordance with the conditions of this lease will be kept confidential while the lease is in force, except in cases where: (i) the lease holder has agreed that specified reports may be made nonconfidential; (ii) reports deal with exploration conducted exclusively on areas that have ceased to be part of the lease. (b) Confidentiality will be continued beyond the termination of a lease where an application for a flow-on title was lodged during the currency of the lease. The confidentiality will last until that flow-on title or any subsequent flow-on title, has terminated. (c) The Director-General may extend the period of confidentiality.	N/A	Not triggered during the IEA period.	Not triggered	
Terms of the non-exclusive licence					
14	The terms of the non-exclusive copyright licence granted under condition 12 are: (a) the Minister may sub-licence others to publish, print, adapt and reproduce but not on-licence reports (b) the Minister and any sub-licensee will acknowledge the lease holder's and any identifiable consultants ownership of copyright in any reproduction of the reports, including storage of reports onto an electronic database (c) the lease holder does not warrant ownership of all copyright works in any report and, the lease holder will use best endeavours to identify those parts of the report for which the lease holder owns the copyright (d) there is no royally payable by the Minister for the licence (e) if the lease holder has reasonable grounds to believe that the Minister has exercised his rights under the non-exclusive copyright licence in a manner which adversely affects the operations of the lease holder, that licence is revocable on the giving of a period of not less than three months notice.	N/A	Not triggered during the IEA period.	Not triggered	
Safety					
16	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Site inspection Incident register	Site inspection identified appropriate fencing/signage in place. Safety reporting procedures in place and reported as required Shafts associated with underground workings sealed/fenced	Compliant	
Exploratory Drilling					
17	(a) At least twenty eight days prior to commencement of drilling operations the lease holder must notify the relevant Department of Climate Change and Environment regional hydrogeologist of the intention to drill exploratory drill holes together with information on the location of the proposed holes. (b) If the lease holder drills exploratory drill holes he must satisfy the Director General that: (i) all cored holes are accurately surveyed and permanently marked in accordance with Departmental guidelines so that their location can be easily established; (ii) all holes cored or otherwise are sealed to prevent the collapse of the surrounding surface; (iii) all drill holes are permanently sealed with cement plugs to prevent surface discharge of groundwaters; (iv) if any drill hole meets natural or noxious gases it is plugged or sealed to prevent their escape; (v) if any drill hole ·meets an artesian or sub-artesian flow it is effectively sealed to prevent contamination of aquifers; (vi) once any drill hole ceases to be used the hole must be sealed in accordance with Departmental guidelines. Alternatively, the hole must be sealed as instructed by the Director-General; (vii) once any drill hole ceases to be used the !and its immediate vicinity is left in a clean, tidy and stable condition.	N/A	No exploration activities undertaken within ML 1398 during audit period	Not triggered	
Prevention of Soil Erosion and Pollution					
18	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.	Site inspection Rehabilitation Management Plan	Erosion controls sighted. No issues identified requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
Transmission lines, Communication lines and Pipelines					
19	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions he may stipulate.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions received from the Resources Regulator during the audit period Mining operations undertaken in accordance with approved Rehabilitation Management Plan	Compliant	
Roads and Tracks					
21	(a) Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior written approval of the Director-General and subject to any conditions he may stipulate. (b) The lease holder must pay to the designated authority in control of the road (generally the local council or the Roads and Traffic Authority) the cost incurred in fixing any damage to roads caused by operations carried out under the lease, less any amount paid or payable from the Mine Subsidence Compensation Fund.	Incident register Rehabilitation Management Plan	Mining operations undertaken in accordance with approved Rehabilitation Management Plan No notices/directions given by the Resources Regulator during the audit period	Compliant	
Resource Recovery					
25	(a) Notwithstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered from the lease area, or that any such minerals which are being recovered are not being recovered to the extent which should be economically possible or which for environmental reasons are necessary to be recovered, he may give notice in writing to the lease holder requiring the holder to recover such minerals. (b) The notice shall specify the minerals to be recovered and the extent to which they are to be recovered, or the objectives in regard to resource recovery, but shall not specify the processes the lease holder shall use to achieve the specified recovery. (c) The lease holder must, when requested by the Director-General, provide such information as the Director-General may specify about the recovery of the mineral resources of the lease area. (d) The Director-General shall issue no such notice unless the mailer has firstly been thoroughly discussed with and a report to the Director-General has incorporated the views of the lease holder. (e) The lease holder may object to the requirements of any notice issued under this condition and on receipt of such an objection the Minister shalt refer it to a Warden for inquiry and report under Section 334 of the *Mining Act* , 1992. (f) After considering the Warden's report the Minister shall decide whether to withdraw, modify or maintain the requirements specified in the original notice and shall give the lease holder written notice of the decision. The lease holder must comply with the requirements of this notice.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1398 (2008)					
Indemnity					
26	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	N/A	Not triggered during the IEA period.	Not triggered	
Security					
28	(a) The single security in the sum of $210,000 must be given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under Mining Leases 1398, 1416, 1477, 1495, 1506, 1564, 1581, 1591 and 1595 (Act 1992). If the lease holder fails to fulfil any one or more of the obligations under this lease, then the security held may be applied at the discretion of the Minister towards the cost or- fulfilling such obligations. For the purpose of this clause the lease holder shall be deemed to have failed to fulfil the obligations of the lease if the lease holder fails to comply with any condition or provision hereof, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision hereof or of any provision of the Act or regulations made thereunder. (b) The lease holder must provide the security required by sub-clause (a) in one of the following forms: (i) cash, (ii) a security certificate in a form approved by the Minister and issued by an authorised deposit-taking institution	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
Special condition					
29	The lease holder shall not mine for, win or remove any coal from that part of the subject area between the depths of 15.24 metres and 60.96 metres below the surface within 20.12 metres either side of the centre line of the New England Highway, unless with the consent of the Minister first had and obtained and subject to such conditions as he may impose.	Rehabilitation Management Plan	No mining within the exclusion area identified. All mining undertaken in accordance with the approved Rehabilitation Management Plan	Compliant	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1416 (1997)					
EXTRACTION OF COAL					
1	The lease holder shall extract as large a percentage of the coal in the subject area as is practicable consistent with the provisions of the Coal Mines Regulation Act 1982 and the Regulations thereunder and shall comply with any direction given or which may be given in this regard by the Minister.	N/A	No coal was extracted within ML 1416 during audit period.	Not triggered	
MINING, REHABILITATION, ENVIRONMENTAL MANAGEMENT PROCESS (MREMP)					
MINING OPERATIONS PLAN (MOP)					
2	(a) Mining operations, including mining purposes, must be conducted in accordance with a Mining Operations Plan (the Plan) approved by the Director General. The Plan together with environmental conditions of development consent and other approvals will form the basis for: (i) ongoing mining operations and environmental management; and (ii) ongoing monitoring of the project. (b) The Plan must be prepared in accordance with the Director-General's guidelines current at the time of lodgement. (c) An application for approval of a proposed Plan must be accompanied by a copy of the Plan and must be lodged with the Director-General: (i) prior to the commencement of operations; and (ii) subsequently as appropriate. (d) The Plan must present a. schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (i) area(s) proposed to be disturbed under the Plan; (ii) mining and rehabilitation method (s) to be used and their sequence; (iii) existing and proposed surface infrastructure; (iv) progressive rehabilitation schedules; (v) areas of particular environmental sensitivity; (vi) water management systems; and (vii) proposed resource recovery. (e) Where the leaseholder and/or the Director-General is of the opinion that a Plan should be amended, the leaseholder shall submit an amended Plan for approval.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
ANNUAL ENVIRONMENTAL MANAGEMENT REPORT (AEMR)					
3	(a) Within 12 months of the commencement of mining operations and thereafter annually or, at such other times as may be allowed by the Director-General, the lease holder must lodge an Annual Environmental Management Report (AEMR) with the Director General. (b) The AEMR must be prepared in accordance with the Director-General's guidelines current at the time of reporting and contain a review and forecast of performance for the preceding and ensuing twelve months in terms of: (i) the approved Mining Operations Plan; (ii) development consent requirements and conditions; and (iii) Environment Protection Authority licences and approvals; (iv) any other statutory environmental requirements; (v) details of any variations to environmental approvals applicable to the lease area. (c) After considering an AEMR the Director-General may, by notice in writing, direct the lease holder to undertake operations, remedial actions or supplementary studies in such manner and within such period as may be specified in the notice to ensure that operations on the lease area are conducted in accordance with sound mining and environmental practice. (d) The leaseholder shall, as and when directed by the Minister, cooperate with the Director-General to conduct and facilitate review of the AEMR involving other government agencies.	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	Non-compliances are reported in the Annual Reviews and Annual Returns. All Annual Reviews were approved by the Department during the IEA period.	Compliant	
11	The lease holder unless with the consent of the Minister and subject to such conditions as the Minister may impose shall not work or cause to be worked any seam of coal by underground methods within the subject area within the barrier defined as follows: The land within the zone beneath and adjacent to the Liddell Rail Spur Railway enclosed by an angle of draw of 35 degress from the vertical plane of the boundary parallel to and thirty (30) metres horizontally distant from either side of the railway lands, such angle of draw being measured outwards from the point on the vertical plane of the said boundary at the surface or at the level of the horizontal plane of the railway track, whichever may be the higher, to the floor of the coal seam in which mining operations are being carried out.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Development consent	All mining operations undertaken in accordance with MOP/Rehabilitation Management Plan and as approved by development consent. RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No mining was undertaken during the IEA period.	Compliant	
SHAFTS, DRIFTS, ADITS					
14	Operations shall be conducted in such a manner as not to cause any danger to persons or stock and the lease holder shall provide and maintain adequate protection to the satisfaction of the Minister around each shaft or excavation opened up or used by the lease holder.	Site inspection Incident register	Site inspection identified appropriate fencing/signage in place. Safety reporting procedures in place and reported as required. Shafts associated with underground workings sealed/fenced.	Compliant	
DUMPS					
15	The lease holder shall comply with any direction, given or which may be given by the Inspector regarding the dumping, depositing or removal of material extracted as well as the stabilisation and revegetation of any dumps of coal, minerals, mine residues, tailings or overburden situated on the subject area or the associated colliery holding.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
16	The lease holder shall comply with any direction given or which may be given by the Minister regarding the spraying of coal dumps or the subject area.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
DUST					
17	The lease holder shall take such precautions as are necessary to abate any dust nuisance.	Site inspection Air quality and greenhouse gas management plan	Dust controls, including use of water carts and real time dust monitoring systems observed Management measures detailed within the site's Air Quality and Greenhouse Gas Management Plan	Compliant	
MANAGEMENT AND REHABILITATION OF LANDS (GENERAL)					
18	The lease holder shall not interfere in any way with any fences on or adjacent to the subject area unless with the prior written approval of the owner thereof or the Minister and subject to such conditions as the Minister may stipulate.	N/A		Not triggered	
19	The lease holder shall observe any instruction given or which may be given by the Minister with a view to minimising or preventing public inconvenience or damage to public or private property.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
20	If required to do so by the Minister and within such time as may be stipulated by the Minister the lease holder shall carry out to the satisfaction of the Minister surveys of structures, buildings and pipelines on adjacent landholdings to determine the effect of operations on any such structures, buildings and pipelines.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
21	If so directed by the Minister the lease holder shall rehabilitate to the satisfaction of the Minister any lands within the subject area which may have been disturbed by the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
22	Upon completion of operations on the surface of the subject area or upon the expiry or sooner determination of this authority or any renewal thereof, the lease holder shall remove from such surface such buildings, machinery, plan, equipment, constructions and works as may be directed by the Minister and such surface shall be rehabilitated and left in a clean, tidy and safe condition to the satisfaction of the Minister.	N/A	Operations still being carried out on the surface of the mining lease	Not triggered	
23	If so directed by the Minister the lease holder shall rehabilitate to the satisfaction of the Minister and with such time as may be allowed by the Minster any lands within the subject area which may have been disturbed by mining or prospecting operations whether such operations were or were not carried out by the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
24	The lease holder shall take all precautions against causing outbreak of fire on the subject area.	Rehabilitation Management Plan Rehabilitation risk assessment Biodiversity Offsets Management Plan	Controls and management measures to prevent/minimise risk from bushfires outlined within the Rehabilitation Management Plan	Compliant	
25	The lease holder shall monitor noise and vibration and institute controls, generally in accordance with the recommendations of Australian Standard AS-2187-1993 and ANZEC Guidelines.	Monthly Noise Monitirng Reports	Monitoring undertaken generally in accordance with relevant guidelines	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1416 (1997)					
	(a) Ground Vibration The lease holder shall design all blasts on the basis that the ground vibration peak particle velocity generated by any blasting within the subject area, shall not exceed the levels in or conditions of the EPA Licence for the mine, at any dwelling or occupied premises not owned by the lease holder, the holder of an authority under the Mining Act, or not subject to a valid agreement with the lease holder, with respect to the effects of blasting.	NA	No blasting within ML1416 during audit period	Not triggered	
	(b) Blast Overpressure The lease holder shall design all blasts on the basis that the blast overpressure noise level generated by any blasting within the subject area, shall not exceed the levels in or conditions of the EPA Licence for the mine, at any dwelling or occupied premises not owned by the lease holder, the holder of an authority under the Mining Act, or not subject to a valid agreement with the lease holder, with respect to the effects of blasting.	NA	No blasting within ML1416 during audit period	Not triggered	
26	The lease holder shall provide and maintain to the satisfaction of the Minister efficient means to prevent contamination, pollution, erosion or siltation of any river, stream, creek, tributary, lake, dam, reservoir, watercourse or catchment area or any undue interference to fish or their environment and shall observe any instruction given or which may be given by the Minister with a view to preventing or minimising the contamination, pollution, erosion or siltation of any river, stream, creek, tributary, lake, dam, reservoir, watercourse or catchment area, or any undue interference to fish or their environment.	Incident register Site inspection	No pollution incidents recorded during audit period. Appropriate storage and management of chemicals and hydrocarbons on site	Compliant	
TREES (PLANTING AND PROTECTION OF) FLORA AND FAUNA AND ARBOREAL SCREENS					
27	If so directed by the Minister, the lease holder shall ensure that operations are carried out in such manner so as to minimise disturbance to flora and fauna within the subject area.	N/A	Not triggered during the IEA period.	Not triggered	
28	Notwithstanding the provisions of Condition No 36e(i) the lease holder shall not fell trees, strip bark or cut timber on any land within the subject area except with the approval of the owner/occupier and subject to the payment to the owner of the trees, bark or timber of compensation as agreed or as assessed by the Warden.	N/A	Not triggered during the IEA period.	Not triggered	
29	The lease holder shall maintain an arboreal screen to the satisfaction of the Minister within such parts of the subject area as may be specified by the Minister and shall plant such trees or shrubs as may be required by the Minister to preserve the arboreal screen in a condition satisfactory to the Minister.	Tree screening	The tree screen remained in place during the IEA period. There were no notifications related to the tree screen from the Minister.	Compliant	
SOIL EROSION					
30	The lease holder shall conduct operations in such a manner as not to cause or aggravate soil erosion and the lease holder shall observe and perform any instructions given or which may be given by the· Minister with a view to minimising or preventing soil erosion.	Site inspection Rehabilitation Management Plan	Erosion controls sighted. No issues identified requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
ROADS					
31	The lease holder shall pay to Singleton Council, Department of Land and Water Conservation or the Chief Executive, Roads and Traffic Authority the cost incurred by such Council or Department or Chief Executive of making good any damage caused by operations carried on by or under the authority of the lease holder to any road adjoining or traversing the surface or the excepted surface, as the case may be of the subject area. PROVIDED HOWEVER that the amount to be paid by the lease holder as aforesaid shall be reduced by such sum of money if any as may be paid to the said Council the Department of Conservation and Land Management or the Chief Executive, Roads and Traffic Authority as the case may be from the Mine Subsidence Compensation Fund constituted under the Mine Subsidence Compensation Act, 1961, in settlement of a claim for compensation for the same damage.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
32	In the event of operations being conducted on the surface of any road, track or firetail traversing the subject area or in the event of such operations causing damage to or interference with any such road, track or firetrail the lease holder, at his own expense, shall if directed to do so by the Minister provide to the satisfaction of the Minister an alternate road, track or firetrail in a position as required by the Minister and shall allow free and uninterrupted access along such alternate road, track or firetrail and, if required to do so by the Minister, the lease holder shall upon completion of operations rehabilitate the surface of the original road, track or firetrail to a condition satisfactory to the Minister.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
TRANSMISSION LINES, COMMUNICATION LINES AND PIPELINES					
41	The lease holder shall as far as is practicable so conduct operations as not to interfere with or impair the stability or efficiency of any transmission line, communication line or pipeline traversing the surface or the excepted surface of the subject area and shall comply with any direction given or which may be given by the Minister in this regard.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions received from the Resources Regulator during the audit period	Compliant	
ABORIGINAL PLACE OR RELIC					
43	The lease holder shall not knowingly destroy, deface or damage any aboriginal place or relic within the subject area except in accordance with an authority issued under the National Parks and Wildlife Act, 1974, and shall take every precaution in drilling, excavating or disturbing the land against any such destruction, defacement or damage.	Incident register Site inspection	All impacts to heritage sites undertaken in accordance with the approved Aboriginal heritage management plan. No unauthorised impacts to Aboriginal heritage sites identified during audit period.	Compliant	
LABOUR/EXPENDITURE					
44	The lease holder shall during each year of the term of the authority:- (a) ensure that at least 1 workers are efficiently employed on the subject area or (b) expend on operations carried out in the course of prospecting or mining the subject area, an amount of not less than [seventeen thousand five hundred dollars] ($17,500.00). The Minister may, at any time after a period of two (2) years from the date on which this authority has effect or from the date on which the renewal of this authority has effect, increase or decrease the amount of expenditure or labour required.	Annual Reviews for 2021, 2022 and 2023.	At least one person employed on subject area during audit period	Compliant	
ADDITIONAL INFORMATION					
45	The lease holder shall if directed by the Minister and within such time as the Minister may stipulate furnish to the Minister: (a) information regarding the ownership of the land within the subject area; (b) information regarding the ownership of the coal within the subject area prior to 1st January 1982; (c) an indemnity in a form approved by the Minister indemnifying the Crown and the Minister against any wrong payment effected as a result of incorrect information furnished by the lease holder; (d) information regarding the financial viability of the lease holder and operations within and associated with the subject area; and (e) information regarding shareholdings in the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
SERVICE OF NOTICES					
46	Within a period of three months from the date of this authority or a period of three months from the date of service of the notice of renewal, or within such further time as the Director-General may allow the lease holder shall serve on each owner and occupier of the private land and on each occupier of the Crown land held under a pastoral lease within the subject area a notice in writing indicating that this authority has been granted or renewed and whether the authority includes the surface. The notice shall be accompanied by an adequate plan and description of the subject area. If there are ten or more owners or occupiers affected the lease holder may serve the notice by publication in a newspaper circulating in the region where the subject area is situated. The notice shall indicate that this authority has been granted or renewed, state whether the authority includes the surface and shall contain an adequate plan and description of the subject area.	N/A	This lease was not renewed during the IEA period.	Not triggered	
INSPECTORS					
47	(a) Where the Inspector is of the opinion that any condition of this authority relating to operations within the subject area, or any provision of the Mining Act 1992, relating to operations within the subject area, are not being complied with by the lease holder, the Inspector may serve on the lease holder a notice stating that and give particulars of the reason why, and may in such notice direct the lease holder: (i) to cease operations within the subject area in contravention of that condition or Act; and (ii) to carry out within the specified time works necessary to rectify or remedy the situation. (b) The lease holder shall comply with the directions contained in any notice served pursuant to sub paragraph (a) of this condition. The Director-General may confirm, vary or revoke any such direction. (c) A notice referred to in this condition may be served on the Colliery Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1416 (1997)					
INDEMNITIES					
48	The lease holder shall indemnify and keep indemnified the Crown from and against all actions suits and claims and demands of whatsoever nature and all costs charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction maintenance or working of any workings now existing or to be made by the lease holder within the boundaries of the subject area or in connection with any of the operations notwithstanding that all other conditions of this authority shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do hereunder.	N/A	Not triggered during the IEA period.	Not triggered	
49	The lease holder shall save harmless the Crown from payment of compensation and from and against all claims, actions, suits or demands whatsoever in the event of any damage resulting from mining operations under or near the subject area.	N/A	Not triggered during the IEA period.	Not triggered	
PROSPECTING (GENERAL)					
50	(a) Where the lease holder desires to. commence prospecting operations in the subject area the lease holder shall notify the Director-General in writing and shall comply with such additional conditions as the Minister may impose including any condition requiring the lodgement of an additional bond or other form of security for rehabilitation of the area affected by such operations. (b) Where the lease holder notifies the Director-General pursuant to sub paragraph (a) of this condition the lease holder shall furnish with that notification details of the type of prospecting methods that would be adopted and the extent and location of the area that would be affected by them.	N/A	Mining had already commenced in the lease area prior to the IEA period.	Not triggered	
SECURITY DEPOSIT					
51	(a) The lease holder shall, upon request by the Director-General, lodge with the Minister the sum of Ten Thousand Dollars [$10,000.00] in accordance with Instructions for Manner of Lodgement of Security Deposits as security for the fulfilment of the obligations of the lease holder under this authority. In the event that the lease holder fails to fulfil any of its obligations under this authority the said sum may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purposes of this clause a lease holder shall be deemed to have failed to fulfil its obligations under this authority, if it fails to comply with any condition or provision of this authority, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision of this authority or of any provision of the Act or regulations made thereunder. (b) The Minister may at any time after the commencement of this authority or any renewal thereof, vary the amount of security required in accordance with this condition. (c) Where the amount of security has been increased pursuant to clause (b) hereof the lease holder shall, within two (2) months of being requested by the Minister, lodge a security for the amount of security required, in which case the Minister shall refund or release to the lease holder the security previously lodged.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
ROYALTY AT ADDITIONAL RATE					
54	The lease holder shall during the term of this authority pay to the Minister royalty at the additional rate as prescribed by the Regulations for coal recovered by open cut mining methods from the area of the lease.	N/A	No coal was extracted within ML 1416 during audit period.	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1477 (2000)					
EXTRACTION OF COAL					
1	The lease holder shall extract as large a percentage of the coal in the subject area as is practicable consistent with the provisions of the Coal Mines Regulation Act 1982 and the Regulations thereunder and shall comply with any direction given or which may be given in this regard by the Minister.	N/A	No coal was extracted within ML 1477 during audit period.	Not triggered	
MINING, REHABILITATION, ENVIRONMENTAL MANAGEMENT PROCESS (MREMP)					
MINING OPERATIONS PLAN (MOP)					
2	(1) Mining operations, including mining purposes, must be conducted in accordance with a Mining Operations Plan (the Plan) satisfactory to the Director-General. The Plan together with environmental conditions of development consent and other approvals will form the basis for: (a) ongoing mining operations and environmental management; and (b) ongoing monitoring of the project. (2) The Plan must be prepared in accordance with the Director-General's guidelines current at the time of lodgement. (3) A Plan must be lodged with the Director-General: (a) prior to the commencement of operations; (b) subsequently as appropriate prior to the expiry of any current Plan; and (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) areas to be used for disposal of tailings/waste; (d) existing and proposed surface infrastructure; (e) progressive rehabilitation schedules; (f) areas of particular environmental sensitivity; (g) water management systems (including erosion and sediment controls); (h) proposed resource recovery; and (i) where the mine will cease extraction during the term of the Plan, a closure plan including final rehabilitation objectives/methods and post mining land use/vegetation. (5) The Plan when lodged will be reviewed by the Department of Mineral Resources. (6) The Director-General may within two (2) months of the lodgement of a Plan, require modification and relodgement. (7) If a requirement in accordance with clause (6) is not issued within two months of the lodgement of a Plan, lease holder may proceed with implementation of the Plan submitted subject to the lodgement of the required security deposit within the specified time. (8) During the life of the Mining Operations Plan, proposed modifications to the Plan must be lodged with the Director-General and will be subject to the review process outlined in (5) - (7) above.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
ANNUAL ENVIRONMENTAL MANAGEMENT REPORT (AEMR)					
3	(1) Within 12 months of the commencement of mining operations and thereafter annually or, at such other times as may be allowed by the Director-General, the lease holder must lodge an Annual Environmental Management Report (AEMR) with the Director-General. (2) The AEMR must be prepared in accordance with the Director-general's guidelines current at the time of reporting and contain a review and forecast of performance for the preceding and ensuing twelve months in terms of: (a) the accepted Mining Operations Plan; (b) development consent requirements and conditions; (c) Environment Protection Authority and Department of Land and Water Conservation licences and approvals; (d) any other statutory environmental requirements; (e) details of any variations to environmental approvals applicable to the lease area; and (f) where relevant, progress towards final rehabilitation objectives. (3) After considering an AEMR the Director-General may, by notice in writing, direct the lease holder to undertake operations, remedial actions or supplementary studies in the manner and within the period specified in the notice to ensure that operations on the lease area are conducted in accordance with sound mining and environmental practice. (4) The lease holder shall, as and when directed by the Minister, co-operate with the Director-General to conduct and facilitate review of the AEMR involving other government agencies.	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	Non-compliances are reported in the Annual Reviews and Annual Returns. All Annual Reviews were approved by the Department during the IEA period.	Compliant	
MANAGEMENT AND REHABILITATION OF LANDS (GENERAL)					
19	The lease holder shall observe any instruction given or which may be given by the Minister with a view to minimising or preventing public inconvenience or damage to public or private property.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
20	If required to do so by the Minister and within such time as may be stipulated by the Minister the lease holder shall carry out to the satisfaction of the Minister surveys of structures, buildings and pipelines on adjacent landholdings to determine the effect of operations on any such structures, buildings and pipelines.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
22	Upon completion of operations on the surface of the subject area or upon the expiry or sooner determination of this authority or any renewal thereof, the lease holder shall remove from such surface such buildings, machinery, plant, equipment, constructions and works as may be directed by the Minister and such surface shall be rehabilitated and left in a clean, tidy and safe condition to the satisfaction of the Minister.	N/A	Operations still being carried out on the surface of the mining lease	Not triggered	
23	If so directed by the Minister the lease holder shall rehabilitate to the satisfaction of the Minister and within- such time as may be allowed by the Minister any lands within the subject area which may have been disturbed by mining or prospecting operations whether such operations were or were not carried out by the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
TREES (PLANTING AND PROTECTION OF) FLORA AND FAUNA AND ARBOREAL SCREENS					
27	If so directed by the Minister, the lease holder shall ensure that operations are carried out in such manner so as to minimise disturbance to flora and fauna within the subject area.	N/A	Not triggered during the IEA period.	Not triggered	
ROADS					
31	The lease holder shall pay to Singleton Council, Department of Land and Water Conservation or the Chief Executive, Roads and Traffic Authority the cost incurred by such Council or Department or Chief Executive of making good any damage caused by operations carried on by or under the authority of the lease holder to any road adjoining or traversing the surface or the excepted surface, as the case may be of the subject area. PROVIDED HOWEVER that the amount to be paid by the lease holder as aforesaid shall be reduced by such sum of money if any as may be paid to the said Council the Department of Conservation and Land Management or the Chief Executive, Roads and Traffic Authority as the case may be from the Mine Subsidence Compensation Fund constituted under the Mine Subsidence Compensation Act 1961, in settlement of a claim for compensation for the same damage.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
TRANSMISSION LINES, COMMUNICATION LINES AND PIPELINES					
41	The lease holder shall.as far as is practicable so conduct operations as not to interfere with or impair the stability or efficiency of any transmission line, communication line or pipeline traversing the surface or the excepted surface of the subject area and shall comply with any direction given or which may be given by the Minister in this regard.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions received from the Resources Regulator during the audit period	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1477 (2000)					
LABOUR/EXPENDITURE					
44	The lease holder shall during each year of the term of the authority: (a) ensure that at least 1 worker is efficiently employed on the subject area; or (b) expend on operations carried out in the course of prospecting or mining the subject area, an amount of not less than Seventeen Thousand Five Hundred Dollars ($17,500). The Minister may, at any time after a period of two (2) years from the date on which this authority has effect or from the date on which the renewal of this authority has effect, increase or decrease the amount of expenditure of labour required.	Annual Reviews for 2021, 2022 and 2023.	At least one person employed on subject area during audit period	Compliant	
ADDITIONAL INFORMATION					
45	The lease holder shall if directed by the Minister and within such time as the Minister may stipulate furnish to the Minister: (a) the lease holder shall if directed by the Minister and within such time as the Minister may stipulate furnish to the Minister information regarding the ownership of the land within the subject area; (b) information regarding the ownership of the coal within the subject area prior to 1st January, 1982; (c) an indemnity in a form approved by the Minister indemnifying the Crown and the Minister against any wrong payment effected as a result of incorrect information furnished by the lease holder; (d) information regarding the financial viability of the lease holder and operations within and associated with the subject area; and (e) information regarding shareholdings in the lease holder.	N/A	Not triggered during the IEA period.	Not triggered	
NOTICE TO LANDOWNERS					
46	(a) Within 90 days from the date of grant or renewal of this mining lease, the lease holder must give each landholder notice in writing: (i) that this mining lease has been granted or renewed; and (ii) whether the lease includes the surface. The notice must include a plan identifying the lease area and each landholder and individual land parcel within the lease area. (b) If there are ten or more landholders to which notice must be given, the lease holder will be taken to have complied with condition 1(a) if a notice complying with condition 1(a) is published in a newspaper circulating in the region where the lease area is situated	N/A	This lease was not renewed during the IEA period.	Not triggered	
INSPECTORS					
47	(a) Where the Inspector is of the opinion that any condition of this authority relating to operations within the subject area, or any provision of the Mining Act, 1992, relating to operations within the subject area, are not being complied with by the lease holder, the Inspector may serve on the lease holder a notice stating that and give particulars of the reason why, and may in such notice direct the lease holder: (i) to cease operations within the subject area in contravention of that condition or Act; and (ii) to carry out within the specified time works necessary to rectify or remedy the situation. (b) The lease holder shall comply with the directions contained in any notice served pursuant to sub paragraph (a) of this condition. The Director General may confirm, vary or revoke any such direction. (c) A notice referred to in his condition may be served on the Colliery Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
PROSPECTING (GENERAL)					
50	(a) Where the lease holder desires to commence prospecting operations in the subject area the lease holder shall notify the Director General in writing and shall comply with such additional conditions as the Minister may impose including any condition requiring the lodgement of an additional bond of other form of security or rehabilitation of the area affected by such operations. (b) Where the lease holder notifies the Director General pursuant to sub paragraph (a) of this condition the lease holder shall furnish with that notification details of the type of prospecting methods that would be adopted and the extent and location of the area that would be affected by them.	N/A	No coal was extracted within ML 1477 during audit period.	Not triggered	
GROUP SECURITY					
51	The security deposit to be provided and maintained for this mining lease is part of a group security deposit. The lease holder is required to provide and maintain a security deposit to secure funding for the fulfilment of obligations under the mining leases covered by the group security deposit, including obligations under each mining lease that may arise in the future. The amount of the security deposit to be provided as a group security deposit has been assessed at $10,923,500. The leases covered by the group security include this ML 1477 (1992).	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
ROYALTY AT ADDITIONAL RATE					
54	The lease holder shall during the term of this authority pay to the Minister royalty at the additional rate as prescribed by the Regulations for coal recovered by open cut mining methods from the area.	N/A	No coal was extracted within ML 1477 during audit period.	Not triggered	
COOPERATION AGREEMENT					
	The lease holder must make every reasonable attempt, and be able to demonstrate its attempts to the satisfaction of the Secretary, to enter into a cooperation agreement with the holder(s) of any overlapping authorisations issued under the Mining Act 1992 and petroleum titles issued under the Petroleum (Onshore) Act 1991. The cooperation agreement should address but not be limited to: • access arrangements • operational interaction procedures • dispute resolution • information exchange • well location • timing of drilling • potential resource extraction conflicts; and • rehabilitation issues.	Cooperation agreement	Cooperation agreements were already in place prior to the IEA period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1477 (2000)					
ASSESSABLE PROSPECTING OPERATIONS					
	(a) The lease holder must not carry out any assessable prospecting operation on land over which this lease has been granted unless: (i) it is carried out in accordance with any necessary development consent; or (ii) if development consent is not required, the prior written approval of the Minister has been obtained. (b) The Minister may require the lease holder to provide such information as required to assist the Minister to consider an application for approval. (c) An approval granted by the Minister under this condition may be granted subject to terms. (d) The lease holder must comply with the approval granted to the holder under this condition.	N/A	Not triggered during the IEA period.	Not triggered	
DAM SAFETY - MINING LEASES					
56	(a) The lease holder must not mine within any part of the lease area which is within the notification area of the Ravensworth Void 4 East Tailings - Saddle Dam or Ravensworth Void 3 Dam without the prior written approval of the Minister and subject to any conditions the Minister may stipulate. (b) Where the lease holder desires to mine within the notification area, the lease holder must: (i) at least twelve (12) months before mining is to commence or such lesser time as the Minister may permit, notify the Minister of the desire to do so. A plan of the mining system to be implemented must accompany the notice; and (ii) provide such information as the Minister may direct. (c) The Minister must not, except in the circumstances set out in sub-paragraph (ii), grant approval unless sub-paragraph (i) of this paragraph has been complied with. (i) This sub-paragraph is complied with if: (a) Dams Safety NSW as constituted by section 6 of the Dams Safety Act 2015 and the owner of the dam have been notified in writing of the desire to mine referred to in paragraph (b). (b) the notifications referred to in clause (a) are accompanied by a description or plan of the area to be mined. (c) the Secretary has complied with any reasonable request made by Dams Safety NSW or the owner of the dam for further information in connection with the mining proposal. (d) Dams Safety NSW has made its recommendations concerning the mining proposal or has informed the Minister in writing that it does not propose to make any such recommendations; and (e) where Dams Safety NSW has made recommendations the approval is in terms that are: - in accordance with those recommendations; or - where the Minister does not accept those recommendations or any of them - in accordance with a determination under sub-paragraph (ii) of this paragraph. (ii) Where the Minister does not accept the recommendations of Dams Safety NSW or where Dams Safety NSW has failed to make any recommendations and has not informed the Minister in writing that it does not propose to make any recommendations, the approval shall be in terms that are, in relation to matters dealing with the safety of the dam: - as determined by agreement between the Minister and the Minister administering the Dams Safety Act 2015; or - in the event of failure to reach such agreement - as determined by the Premier. (d) The Minister, on notice from Dams Safety NSW, may at any time or times: (i) cancel any approval given where a notice pursuant to section 19 of the Dams Safety Act 2015 is given. (ii) suspend for a period of time, alter, omit from or add to any approval given or conditions imposed.	N/A	Ravensworth Operation did not mine through the Ravensworth Void 4 East Tailings - Saddle Dam or Ravensworth Void 3 Dam during the IEA period.	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1484 (2001)					
EXTRACTION OF COAL					
1	The lease holder shall extract as large a percentage of the coal in the subject area as is practicable consistent with the provisions of the Coal Mines Regulation Act 1982 and the Regulations thereunder and shall comply with any direction given or which may be given in this regard by the Minister.	N/A	No coal was extracted within ML 1484 during audit period.	Not triggered	
1(a)	The lease holder shall not commence or carry out open cut or underground mining operations within the subject area unless with the consent of the Minister first had and obtained and subject to such conditions as the Minister may impose.	N/A	No coal was extracted within ML 1484 during audit period.	Not triggered	
MINING, REHABILITATION, ENVIRONMENTAL MANAGEMENT PROCESS (MREMP)					
MINING OPERATIONS PLAN (MOP)					
2	(1) Mining operations, including mining purposes, must be conducted in accordance with a Mining Operations Plan (the Plan) satisfactory to the Director-General. The Plan together with environmental conditions of development consent and other approvals will form the basis for: (a) ongoing mining operations and environmental management; and (b) ongoing monitoring of the project. (2) The Plan must be prepared in accordance with the Director-General's guidelines current at the time of lodgement. (3) A Plan must be lodged with the Director-General: (a) prior to the commencement of operations; (b) subsequently as appropriate prior to the expiry of any current Plan; and (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) areas to be used for disposal of tailings/waste; (d) existing and proposed surface infrastructure; (e) progressive rehabilitation schedules; (f) areas of particular environmental sensitivity; (g) water management systems (including erosion and sediment controls); (h) proposed resource recovery; and (i) where the mine will cease extraction during the term of the Plan, a closure plan including final rehabilitation objectives/methods and post mining land use/vegetation. (5) The Plan when lodged will be reviewed by the Department of Mineral Resources. (6) The Director-General may within two (2) months of the lodgement of a Plan, require modification and relodgement. (7) If a requirement in accordance with clause (6) is not issued within two months of the lodgement of a Plan, lease holder may proceed with implementation of the Plan submitted subject to the lodgement of the required security deposit within the specified time. (8) During the life of the Mining Operations Plan, proposed modifications to the Plan must be lodged with the Director-General and will be subject to the review process outlined in (5) - (7) above.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
ANNUAL ENVIRONMENTAL MANAGEMENT REPORT (AEMR)					
3	(1) Within 12 months of the commencement of mining operations and thereafter annually or, at such other times as may be allowed by the Director-General, the lease holder must lodge an Annual Environmental Management Report (AEMR) with the Director-General. (2) The AEMR must be prepared in accordance with the Director-General's guidelines current at the time of reporting and contain a review and forecast of performance for the preceding and ensuing twelve months in terms of: (a) the accepted Mining Operations Plan; (b) development consent requirements and conditions; (c) Environment Protection Authority and Department of Land and Water Conservation licences and approvals; (d) any other statutory environmental requirements; (e) details of any variations to environmental approvals applicable to the lease area; and (f) where relevant, progress towards final rehabilitation objectives. (3) After considering an AEMR the Director-General may, by notice in writing, direct the lease holder to undertake operations, remedial actions or supplementary studies in the manner and within the period specified in the notice to ensure that operations on the lease area are conducted in accordance with sound mining and environmental practice. (4) The lease holder shall, as and when directed by the Minister, co-operate with the Director-General to conduct and facilitate review of the AEMR involving other government agencies.	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	Non-compliances are reported in the Annual Reviews and Annual Returns. All Annual Reviews were approved by the Department during the IEA period.	Compliant	
SHAFTS, DRIFTS, ADITS					
14	Operations shall be conducted in such a manner as not to cause any danger to persons or stock and the lease holder shall provide and maintain adequate protection to the satisfaction of the Minister around each shaft or excavation opened up or used by the lease holder.	Site inspection Incident register	Site inspection identified appropriate fencing/signage in place. Safety reporting procedures in place and reported as required Shafts associated with underground workings sealed/fenced	Compliant	
DUMPS					
15	The lease holder shall comply with any direction, given or which may be given by the Inspector regarding the dumping, depositing or removal of material extracted as well as the stabilisation and revegetation of any dumps of coal, minerals, mine residues, tailings or overburden situated on the subject area or the associated colliery holding.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
16	The lease holder shall comply with any direction given or which may be given by the Minister regarding the spraying of coal dumps on the subject area.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
DUST					
17	The lease holder shall take such precautions as are necessary to abate any dust nuisance.	Site inspection Air quality and greenhouse gas management plan	Dust controls, including use of water carts and real time dust monitoring systems observed Management measures detailed within the site's Air Quality and Greenhouse Gas Management Plan	Compliant	
MANAGEMENT AND REHABILITATION OF LANDS (GENERAL)					
18	The lease holder shall not interfere in any way with any fences on or adjacent to the subject area unless with the prior written approval of the owner thereof or the Minister and subject to such conditions as the Minister may stipulate.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
19	The lease holder shall observe any instruction given or which may be given by the Minister with a view to minimising or preventing public inconvenience or damage to public or private property.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
20	If required to do so by the Minister and within such time as may be stipulated by the Minister the lease holder shall carry out to the satisfaction of the Minister surveys of structures, buildings and pipelines on adjacent landholdings to determine the effect of operations on any such structures, buildings and pipelines.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
21	If so directed by the Minister the lease holder shall rehabilitate to the satisfaction of the Minister any lands Within the subject area which may have been disturbed by the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1484 (2001)					
22	Upon completion of operations on the surface of the subject area or upon the expiry or sooner determination of this authority or any renewal thereof, the lease holder shall remove from such surface such buildings, machinery, plant, equipment, constructions and works as may be directed by the Minister and such surface shall be rehabilitated and left in a clean, tidy and safe condition to the satisfaction of the Minister.	N/A	Operations still being carried out on the surface of the mining lease	Not triggered	
23	If so directed by the Minister the lease holder shall rehabilitate to the satisfaction of the Minister and within- such time as may be allowed by the Minister any lands within the subject area which may have been disturbed by mining or prospecting operations whether such operations were or were not carried out by the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
24	The lease holder shall take all precautions against causing outbreak of fire on the subject area.	Rehabilitation Management Plan Rehabilitation risk assessment Biodiversity Offsets Management Plan	Controls and management measures to prevent/minimise risk from bushfires outlined within the Rehabilitation Management Plan	Compliant	
25	The lease holder shall provide and maintain to the satisfaction of the Minister efficient means to prevent contamination, pollution, erosion or siltation of any river, stream, creek, tributary, lake, dam, reservoir, watercourse or catchment area or any undue interference to fish or their environment and shall observe any instruction given or which may be given by the Minister with a view to preventing or minimising the contamination, pollution, erosion or siltation of any river, stream, creek, tributary, lake, dam, reservoir, watercourse or catchment area or any undue interference to fish or their environment.	Incident register Site inspection	No pollution incidents recorded during audit period. Appropriate storage and management of chemicals and hydrocarbons on site	Compliant	
BLASTING					
26	The lease holder shall monitor noise and vibration and institute controls, generally in accordance with the recommendations of Australian Standard AS-2187-1993 and ANZEC Guidelines. (a) **Ground Vibration** The lease holder shall design all blasts on the basis that the ground vibration peak particle velocity generated by any blasting within the subject area, shall not exceed the levels in or conditions of the EPA Licence for the mine, at any dwelling or occupied premises not owned by the lease holder, the holder of an authority under the Mining Act, or not subject to a valid agreement with the lease holder, with respect to the effects of blasting. (b) **Blast Overpressure** The lease holder shall design all blasts on the basis that the blast overpressure noise level generated by any blasting within the subject area, shall not exceed the levels in or conditions of the EPA Licence for the mine, at any dwelling or occupied premises not owned by the lease holder, the holder of an authority under the Mining Act, or not subject to a valid agreement with the lease holder, with respect to the effects of blasting.	N/A	No coal was extracted within ML 1484 during audit period.	Not triggered	
TREES (PLANTING AND PROTECTION OF) FLORA AND FAUNA AND ARBOREAL SCREENS					
27	If so directed by the Minister, the lease holder shall ensure that operations are carried out in such manner so as to minimise disturbance to flora and fauna within the subject area.	N/A	Not triggered during the IEA period.	Not triggered	
27	If so directed by the Minister, the lease holder shall ensure that operations are carried out in such manner so as to minimise disturbance to flora and fauna within the subject area.	N/A	Not triggered during the IEA period.	Not triggered	
29	The lease holder shall maintain an arboreal screen to the satisfaction of the Minister within such parts of the subject area as may be specified by the Minister and shall plant such trees or shrubs as may be required by the Minister to preserve the arboreal screen in a condition satisfactory to the Minister.	Tree screening	The tree screen remained in place during the IEA period. There were no notifications related to the tree screen from the Minister.	Compliant	
SOIL EROSION					
30	The lease holder shall conduct operations in such a manner as not to cause or aggravate soil erosion and the lease holder shall observe and perform any instructions given or which may be given by the Minister with a view to minimising or preventing soil erosion.	Site inspection Rehabilitation Management Plan	Erosion controls sighted. No issues identified requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
ROADS					
31	The lease holder shall pay to Singleton Council, Department of Land and Water Conservation or the Chief Executive, Roads and Traffic Authority the cost incurred by such Council or Department or Chief Executive of making good any damage caused by operations carried on by or under the authority of the lease holder to any road adjoining or traversing the surface or the excepted surface, as the case may be of the subject area. PROVIDED HOWEVER that the amount to be paid by the lease holder as aforesaid shall be reduced by such sum of money if any as may be paid to the said Council the Department of Conservation and Land Management or the Chief Executive, Roads and Traffic Authority as the case may be from the Min Subsidence Compensation Fund constituted under the Mine Subsidence Compensation Act 1961, in settlement of a claim for compensation for the same damage.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
32	In the event of operations being conducted on the surface of any road, track or firetrail traversing the subject area or in the event of such operations causing damage to or interference with any such road, track or firetrail the lease holder, at his own expense, shall if directed to do so by the Minister provide to the satisfaction of the Minister an alternate road, track or firetrail in a position as required by the Minister and shall allow free and uninterrupted access along such alternate road, track or firetrail and, if required to do so by the Minister, the lease holder shall upon completion of operations rehabilitate the surface of the original road, track or firetrail to a condition satisfactory to the Minister.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
TRANSMISSION LINES, COMMUNICATION LINES AND PIPELINES					
41	The lease holder shall.as far as is practicable so conduct operations as not to interfere with or impair the stability or efficiency of any transmission line, communication line or pipeline traversing the surface or the excepted surface of the subject area and shall comply with any direction given or which may be given by the Minister in this regard.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions received from the Resources Regulator during the audit period	Compliant	
LABOUR/EXPENDITURE					
44	The lease holder shall during each year of the term of the authority: (a) ensure that at least 1 worker is efficiently employed on the subject area; or (b) expend on operations carried out in the course of prospecting or mining the subject area, an amount of not less than Seventeen Thousand Five Hundred Dollars ($17,500). The Minister may, at any time after a period of two (2) years from the date on which this authority has effect or from the date on which the renewal of this authority has effect, increase or decrease the amount of expenditure of labour required.	Annual Reviews for 2021, 2022 and 2023.	At least one person employed on subject area during audit period	Compliant	
ADDITIONAL INFORMATION					
45	The lease holder shall if directed by the Minister and within such time as the Minister may stipulate furnish to the Minister: (a) information regarding the ownership of the land within the subject area; (b) information regarding the ownership of the coal within the subject area prior to 1st January, 1982; (c) an indemnity in a form approved by the Minister indemnifying the Crown and the Minister against any wrong payment effected as a result of incorrect information furnished by the lease holder; (d) information regarding the financial viability of the lease holder and operations within and associated with the subject area; and (e) information regarding shareholdings in the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
INSPECTORS					
47	(a) Where an Inspector under the Mining Act 1992 is of the opinion that any condition of this authority relating to operations within the subject area, or any provision of the Mining Act, 1992, relating to operations within the subject area, are not being complied with by the lease holder, the Inspector may serve on the lease holder a notice stating that and give particulars of the reason why, and may in such notice direct the lease holder: (i) to cease operations within the subject area in contravention of that condition or Act; and (ii) to carry out within the specified time works necessary to rectify or remedy the situation. (b) The lease holder shall comply with the directions contained in any notice served pursuant to sub paragraph (a) of this condition. The Director General may confirm, vary or revoke any such direction. (c) A notice referred to in his condition may be served on the Colliery Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1484 (2001)					
INDEMNITIES					
48	The lease holder shall indemnify and keep indemnified the Crown from and against all actions suits and claims and demands of whatsoever nature and all costs charges and expense which may be brought against the lease holder or which the lease holder may incur respect of any accident or injury to any person or property which may arise out of the construction maintenance or working of any workings now existing or .to be made by the lease holder within the boundaries of the subject area or in connection with any of the operations notwithstanding that all other conditions of this authority shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease which the lease holder may be licensed or compelled to do hereunder.	N/A	Not triggered during the IEA period.	Not triggered	
49	The lease holder shall save harmless the Crown from payment of compensation and from and against all claims, actions, suits or demands whatsoever in the event of any damage resulting from mining operations under or near the subject area.	N/A	Not triggered during the IEA period.	Not triggered	
PROSPECTING (GENERAL)					
50	(a) Where the lease holder desires to commence prospecting operations in the subject area the lease holder shall notify the Director General in writing and shall comply with such additional conditions as the Minister may impose including any condition requiring the lodgement of an additional bond of other form of security or rehabilitation of the area affected by such operations. (b) Where the lease holder notifies the Director General pursuant to sub paragraph (a) of this condition the lease holder shall furnish with that notification details of the type of prospecting methods that would be adopted and the extent and location of the area that would be affected by them.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
SECURITY DEPOSIT					
51	(a) The lease holder shall, upon request by the Director General, lodge with the Minister the sum of $1,449,000 as security for the fulfillment of the obligations of the lease holder under this authority. In the event that the lease holder fails to fulfill any of the lease holder's obligations under this authority the said sum may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purposes of the clause a lease holder shall be deemed to have failed to fulfill the lease holder's obligations under this authority, if the lease holder fails to comply with any condition or provision of this authority, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision of this authority or of any provision of the Act or regulations made thereunder. (b) The lease holder must provide the security required by sub-clause (a) hereof in one of the following forms: (i) cash, or (ii) a security certificate in such form and given by such surety as may from time to time be approved by the Minister. (c) The Minister may at may time after the commencement of this authority or any renewal thereof, vary the amount of security required in accordance with this condition.	ML 1484 renewal on 20 April 2023. Letters to landowners following 20 April 2023 renewal. Rehabilitation cost estimate Security deposit letters	ML 1484 was renewed on 20 April 2023. EMM sighted letters to landowners on 13 July 2023 which was within 3 months of the renewal date. Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
ROYALTY AT ADDITIONAL RATE					
54	The lease holder shall during the term of this authority pay to the Minister royalty at the additional rate as prescribed by the Regulations for coal recovered by open cut mining methods from the area.	N/A	No coal was extracted within ML 1484 during audit period.	Not triggered	
OTHER CONDITIONS					
55	Unless with the permission of the Minister first had and obtained and subject to such conditions as the Minister considers necessary the lease holder shall not mine for, work, win or remove any coal from any part of the subject area being within a distance of 40.23 metres on either side of the middle thread of Bayswater/Saltwater Creek.	N/A	No coal was extracted within ML 1484 during audit period.	Not triggered	
56	The lease holder shall conduct operations on the subject area in such a manner as to interfere as little as possible with access to ratepayers properties and shall comply with any instructions given or which may be given by the Minister in this regard.	N/A	No operations undertaken causing access issues to ratepayers during audit period	Compliant	
57	Within thirty (30) days of the date of registration of the transfer of this lease to the lease holder the lease holder is to submit to the Director General, in a form and manner approved by the Director General, a "Care & Maintenance" Plan for the subject area. The plan is to address the care and maintenance of the subject area for the period up to the commencement of operations for which Development Consent has been granted. This "Care & Maintenance" Plan should include, but is not limited to : • a plan of the existing environment identifying categories of mine disturbance and rehabilitation, water management (facilities, storages, drainage lines, discharge controls etc.) • an annualised schedule of rehabilitation maintenance activity for the site, this activity to be generally consistent with the observations and recommendations contained in the report entitled "Ravensworth South Rehabilitation Audit - June 2001". (Department of Mineral Resources) • a program of environmental monitoring of the site, which is in accordance with all Environment Protection Authority Licenses current for the site, including site security and bush fire management, identification of site management personnel (including site environmental officer) together with contact details.	N/A	Not triggered during the IEA period.	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1485 (2001)					
EXTRACTION OF COAL					
1	The lease holder shall extract as large a percentage of the coal in the subject area as is practicable consistent with the provisions of the Coal Mines Regulation Act 1982 and the Regulations thereunder and shall comply with any direction given or which may be given in this regard by the Minister.	N/A	No coal was extracted within ML 1485 during audit period.	Not triggered	
1(a)	The lease holder shall not commence or carry out open cut or underground mining operations within the subject area unless with the consent of the Minister first had and obtained and subject to such conditions as the Minister may impose.	N/A	No coal was extracted within ML 1485 during audit period.	Not triggered	
MINING, REHABILITATION, ENVIRONMENTAL MANAGEMENT PROCESS (MREMP)					
MINING OPERATIONS PLAN (MOP)					
2	(1) Mining operations, including mining purposes, must be conducted in accordance with a Mining Operations Plan (the Plan) satisfactory to the Director-General. The Plan together with environmental conditions of development consent and other approvals will form the basis for: (a) ongoing mining operations and environmental management; and (b) ongoing monitoring of the project. (2) The Plan must be prepared in accordance with the Director-General's guidelines current at the time of lodgement. (3) A Plan must be lodged with the Director-General: (a) prior to the commencement of operations; (b) subsequently as appropriate prior to the expiry of any current Plan; and (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) areas to be used for disposal of tailings/waste; (d) existing and proposed surface infrastructure; (e) progressive rehabilitation schedules; (f) areas of particular environmental sensitivity; (g) water management systems (including erosion and sediment controls); (h) proposed resource recovery; and (i) where the mine will cease extraction during the term of the Plan, a closure plan including final rehabilitation objectives/methods and post mining land use/vegetation. (5) The Plan when lodged will be reviewed by the Department of Mineral Resources. (6) The Director-General may within two (2) months of the lodgement of a Plan, require modification and relodgement. (7) If a requirement in accordance with clause (6) is not issued within two months of the lodgement of a Plan, lease holder may proceed with implementation of the Plan submitted subject to the lodgement of the required security deposit within the specified time. (8) During the life of the Mining Operations Plan, proposed modifications to the Plan must be lodged with the Director-General and will be subject to the review process outlined in (5) - (7) above.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
ANNUAL ENVIRONMENTAL MANAGEMENT REPORT (AEMR)					
3	(1) Within 12 months of the commencement of mining operations and.thereafter annually or, at such other times as may be allowed by the Director-General, the lease holder must lodge an Annual Environmental Management Report (AEMR) with the Director-General. (2) The AEMR must be prepared in accordance with the Director-general's guidelines current at the time of reporting and contain a review and forecast of performance for the preceding and ensuing twelve months in terms of: (a) the accepted Mining Operations Plan; (b) development consent requirements and conditions; (c) Environment Protection Authority and Department of Land and Water Conservation licences and approvals; (d) any other statutory environmental requirements; (e) details of any variations to environmental approvals applicable to the lease area; and (f) where relevant, progress towards final rehabilitation objectives. (3) After considering an AEMR the Director-General may, by notice in writing, direct the lease holder to undertake operations, remedial actions or supplementary studies in the manner and within the period specified in the notice to ensure that operations on the lease area are conducted in accordance with sound mining and environmental practice. (4)The lease holder shall, as and when directed by the Minister, co-operate with the Director-General to conduct and facilitate review of the AEMR involving other government agencies.	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	Non-compliances are reported in the Annual Reviews and Annual Returns. All Annual Reviews were approved by the Department during the IEA period.	Compliant	
SHAFTS, DRIFTS, ADITS					
14	Operations shall be conducted in such a manner as not to cause any danger to persons or stock and the lease holder shall provide and maintain adequate protection to the satisfaction of the Minister around each shaft or excavation opened up or used by the lease holder.	Site inspection Incident register	Site inspection identified appropriate fencing/signage in place. Safety reporting procedures in place and reported as required Shafts associated with underground workings sealed/fenced	Compliant	
DUMPS					
15	The lease holder shall comply with any direction, given or which may be given by the Inspector regarding the dumping, depositing or removal of material extracted as well as the stabilisation and revegetation of any dumps of coal, minerals, mine residues, tailings or overburden situated on the subject area or the associated colliery holding.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
16	The lease holder shall comply with any direction given or which may be given by the Minister regarding the spraying of coal dumps on the subject area.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
DUST					
17	The lease holder shall take such precautions as are necessary to abate any dust nuisance.	Site inspection Air quality and greenhouse gas management plan	Dust controls, including use of water carts and real time dust monitoring systems observed Management measures detailed within the site's Air Quality and Greenhouse Gas Management Plan	Compliant	
MANAGEMENT AND REHABILITATION OF LANDS (GENERAL)					
18	The lease holder shall not interfere in any way with any fences on or adjacent to the subject area unless with the prior written approval of the owner thereof or the Minister and subject to such conditions as the Minister may stipulate.	N/A		Not triggered	
19	The lease holder shall observe any instruction given or which may be given by the Minister with a view to minimising or preventing public inconvenience or damage to public or private property.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
20	If required to do so by the Minister and within such time as may be stipulated by the Minister the lease holder shall carry out to the satisfaction of the Minister surveys of structures, buildings and pipelines on adjacent landholdings to determine the effect of operations on any such structures, buildings and pipelines.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
21	If so directed by the Minister the lease holder shall rehabilitate to the satisfaction of the Minister any lands Within the subject area which may have been disturbed by the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
22	Upon completion of operations on the surface of the subject area or upon the expiry or sooner determination of this authority or any renewal thereof, the lease holder shall remove from such surface such buildings, machinery, plant, equipment, constructions and works as may be directed by the Minister and such surface shall be rehabilitated and left in a clean, tidy and safe condition to the satisfaction of the Minister.	N/A	Operations still being carried out on the surface of the mining lease	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1485 (2001)					
23	If so directed by the Minister the lease holder shall rehabilitate to the satisfaction of the Minister and within- such time as may be allowed by the Minister any lands within the subject area which may have been disturbed by mining or prospecting operations whether such operations were or were not carried out by the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
24	The lease holder shall take all precautions against causing outbreak of fire on the subject area.	Rehabilitation Management Plan Rehabilitation risk assessment Biodiversity Offsets Management Plan	Controls and management measures to prevent/minimise risk from bushfires outlined within the Rehabilitation Management Plan	Compliant	
25	The lease holder shall provide and maintain to the satisfaction of the Minister efficient means to prevent contamination, pollution, erosion or siltation of any river, stream, creek, tributary, lake, dam, reservoir, watercourse or catchment area or any undue interference to fish or their environment and shall observe any instruction given or which may be given by the Minister with a view to preventing or minimising the contamination, pollution, erosion or siltation of any river, stream, creek, tributary, lake, dam, reservoir, watercourse or catchment area or any undue interference to fish or their environment.	Incident register Site inspection	No pollution incidents recorded during audit period. Appropriate storage and management of chemicals and hydrocarbons on site	Compliant	
BLASTING					
26	The lease holder shall monitor noise and vibration and institute controls, generally in accordance with the recommendations of Australian Standard AS-2187-1993 and ANZEC Guidelines. (a) **Ground Vibration** The lease holder shall design all blasts on the basis that the ground vibration peak particle velocity generated by any blasting within the subject area, shall not exceed the levels in or conditions of the EPA Licence for the mine, at any dwelling or occupied premises not owned by the lease holder, the holder of an authority under the Mining Act, or not subject to a valid agreement with the lease holder, with respect to the effects of blasting. (b) **Blast Overpressure** The lease holder shall design all blasts on the basis that the blast overpressure noise level generated by any blasting within the subject area, shall not exceed the levels in or conditions of the EPA Licence for the mine, at any dwelling or occupied premises not owned by the lease holder, the holder of an authority under the Mining Act, or not subject to a valid agreement with the lease holder, with respect to the effects of blasting.	NA	No blasting within ML1485 during audit period	Not triggered	
TREES (PLANTING AND PROTECTION OF) FLORA AND FAUNA AND ARBOREAL SCREENS					
27	If so directed by the Minister, the lease holder shall ensure that operations are carried out in such manner so as to minimise disturbance to flora and fauna within the subject area.	N/A	Not triggered during the IEA period.	Not triggered	
29	The lease holder shall maintain an arboreal screen to the satisfaction of the Minister within such parts of the subject area as may be specified by the Minister and shall plant such trees or shrubs as may be required by the Minister to preserve the arboreal screen in a condition satisfactory to the Minister.	Tree screening	The tree screen remained in place during the IEA period. There were no notifications related to the tree screen from the Minister.	Compliant	
SOIL EROSION					
30	The lease holder shall conduct operations in such a manner as not to cause or aggravate soil erosion and the lease holder shall observe and perform any instructions given or which may be given by the Minister with a view to minimising or preventing soil erosion.	Site inspection Rehabilitation Management Plan	No erosion issues identified during site inspection requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
ROADS					
31	The lease holder shall pay to Singleton Council, Department of Land and Water Conservation or the Chief Executive, Roads and Traffic Authority the cost incurred by such Council or Department or Chief Executive of making good any damage caused by operations carried on by or under the authority of the lease holder to any road adjoining or traversing the surface or the excepted surface, as the case may be of the subject area. PROVIDED HOWEVER that the amount to be paid by the lease holder as aforesaid shall be reduced by such sum of money if any as may be paid to the said Council the Department of Conservation and Land Management or the Chief Executive, Roads and Traffic Authority as the case may be from the Mine Subsidence Compensation Fund constituted under the Mine Subsidence Compensation Act 1961, in settlement of a claim for compensation for the same damage.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
32	In the event of operations being conducted on the surface of any road, track or firetrail traversing the subject area or in the event of such operations causing damage to or interference with any such road, track or firetrail the lease holder, at his own expense, shall if directed to do so by the Minister provide to the satisfaction of the Minister an alternate road, track or firetrail in a position as required by the Minister and shall allow free and uninterrupted access along such alternate road, track or firetrail and, if required to do so by the Minister, the lease holder shall upon completion of operations rehabilitate the surface of the original road, track or firetrail to a condition satisfactory to the Minister.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
TRANSMISSION LINES, COMMUNICATION LINES AND PIPELINES					
41	The lease holder shall as far as is practicable so conduct operations as not to interfere with or impair the stability or efficiency of any transmission line, communication line or pipeline traversing the surface or the excepted surface of the subject area and shall comply with any direction given or which may be given by the Minister in this regard.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions received from the Resources Regulator during the audit period	Compliant	
LABOUR/EXPENDITURE					
44	The lease holder shall during each year of the term of the authority: (a) ensure that at least 1 worker is efficiently employed on the subject area; or (b) expend on operations carried out in the course of prospecting or mining the subject area, an amount of not less than Seventeen Thousand Five Hundred Dollars ($17,500). The Minister may, at any time after a period of two (2) years from the date on which this authority has effect or from the date on which the renewal of this authority has effect, increase or decrease the amount of expenditure of labour required.	Annual Reviews for 2021, 2022 and 2023.	At least one persons employed on subject area during relevant periods during the audit period.	Compliant	
ADDITIONAL INFORMATION					
45	The lease holder shall if directed by the Minister and within such time as the Minister may stipulate furnish to the Minister: (a) information regarding the ownership of the land within the subject area; (b) information regarding the ownership of the coal within the subject area prior to 1st January, 1982; (c) an indemnity in a form approved by the Minister indemnifying the Crown and the Minister against any wrong payment effected as a result of incorrect information furnished by the lease holder; (d) information regarding the financial viability of the lease holder and operations within and associated with the subject area; and (e) information regarding shareholdings in the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
INSPECTORS					
47	(a) Where an Inspector under the Mining Act 1992 is of the opinion that any condition of this authority relating to operations within the subject area, or any provision of the Mining Act, 1992, relating to operations within the subject area, are not being complied with by the lease holder, the Inspector may serve on the lease holder a notice stating that and give particulars of the reason why, and may in such notice direct the lease holder: (i) to cease operations within the subject area in contravention of that condition or Act; and (ii) to carry out within the specified time works necessary to rectify or remedy the situation. (b) The lease holder shall comply with the directions contained in any notice served pursuant to sub paragraph (a) of this condition. The Director General may confirm, vary or revoke any such direction. (c) A notice referred to in his condition may be served on the Colliery Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
INDEMNITIES					
48	The lease holder shall indemnify and keep indemnified the Crown from and against all actions suits and claims and demands of whatsoever nature and all costs charges and expense which may be brought against the lease holder or which the lease holder may incur respect of any accident or injury to any person or property which may arise out of the construction maintenance or working of any workings now existing or to be made by the lease holder within the boundaries of the subject area or in connection with any of the operations notwithstanding that all other conditions of this authority shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease which the lease holder may be licensed or compelled to do hereunder.	N/A	Not triggered during the IEA period.	Not triggered	
49	The lease holder shall save harmless the Crown from payment of compensation and from and against all claims, actions, suits or demands whatsoever in the event of any damage resulting from mining operations under or near the subject area.	N/A	Not triggered during the IEA period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1485 (2001)					
PROSPECTING (GENERAL)					
50	(a) Where the lease holder desires to commence prospecting operations in the subject area the lease holder shall notify the Director General in writing and shall comply with such additional conditions as the Minister may impose including any condition requiring the lodgement of an additional bond of other form of security or rehabilitation of the area affected by such operations. (b) Where the lease holder notifies the Director General pursuant to sub paragraph (a) of this condition the lease holder shall furnish with that notification details of the type of prospecting methods that would be adopted and the extent and location of the area that would be affected by them.	N/A	Mining had already commenced in the lease area prior to the IEA period.	Not triggered	
SECURITY DEPOSIT					
51	(a) The lease holder shall, upon request by the Director General, lodge with the Minister the sum of $1,449,000 as security for the fulfillment of the obligations of the lease holder under this authority. In the event that the lease holder fails to fulfill any of the lease holder's obligations under this authority the said sum may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purposes of the clause a lease holder shall be deemed to have failed to fulfill the lease holder's obligations under this authority, if the lease holder fails to comply with any condition or provision of this authority, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision of this authority or of any provision of the Act or regulations made thereunder. (b) The lease holder must provide the security required by sub-clause (a) hereof in one of the following forms: (i) cash, or (ii) a security certificate in such form and given by such surety as may from time to time be approved by the Minister. (c) The Minister may at may time after the commencement of this authority or any renewal thereof, vary the amount of security required in accordance with this condition.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
ROYALTY AT ADDITIONAL RATE					
54	The lease holder shall during the term of this authority pay to the Minister royalty at the additional rate as prescribed by the Regulations for coal recovered by open cut mining methods from the area.	N/A	No coal was extracted within ML 1485 during audit period.	Not triggered	
OTHER CONDITIONS					
55	Unless with the permission of the Minister first had and obtained and subject to such conditions as the Minister considers necessary the lease holder shall not mine for, work, win or remove any coal from any part of the subject area being within a distance of 40.23 metres on either side of the middle thread of Bayswater/Saltwater Creek.	N/A	No coal was extracted within ML 1485 during audit period.	Not triggered	
56	The lease holder shall conduct operations on the subject area in such a manner as to interfere as little as possible with access to ratepayers properties and shall comply with any instructions given or which may be given by the Minister in this regard.	N/A	No operations undertaken causing access issues to ratepayers during audit period	Compliant	
57	Within thirty (30) days of the date of registration of the transfer of this lease to the lease holder the lease holder is to submit to the Director General, in a form and manner approved by the Director General, a "Care & Maintenance" Plan for the subject area. The plan is to address the care and maintenance of the subject area for the period up to the commencement of operations for which Development Consent has been granted. This "Care & Maintenance" Plan should include, but is not limited to : • a plan of the existing environment identifying categories of mine disturbance and rehabilitation, water management (facilities, storages, drainage lines, discharge controls etc.) • an annualised schedule of rehabilitation maintenance activity for the site, this activity to be generally consistent with the observations and recommendations contained in the report entitled "Ravensworth South Rehabilitation Audit - June 2001". (Department of Mineral Resources) • a program of environmental monitoring of the site, which is in accordance with all Environment Protection Authority Licenses current for the site, including site security and bush fire management, identification of site management personnel (including site environmental officer) together with contact details.	N/A	Not triggered during the IEA period.	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1495 (2001)					
EXTRACTION OF COAL					
1	The lease holder shall extract as large a percentage of the coal in the subject area as is practicable consistent with the provisions of the Coal Mines Regulation Act 1982 and the Regulations thereunder and shall comply with any direction given or which may be given in this regard by the Minister.	N/A	No coal was extracted within ML 1495 during audit period.	Not triggered	
MINING, REHABILITATION, ENVIRONMENTAL MANAGEMENT PROCESS (MREMP)					
MINING OPERATIONS PLAN (MOP)					
2	(1) Mining operations, including mining purposes, must be conducted in accordance with a Mining Operations Plan (the Plan) satisfactory to the Director-General. The Plan together with environmental conditions of development consent and other approvals will form the basis for: (a) ongoing mining operations and environmental management; and (b) ongoing monitoring of the project. (2) The Plan must be prepared in accordance with the Director-General's guidelines current at the time of lodgement. (3) A Plan must be lodged with the Director-General: (a) prior to the commencement of operations; (b) subsequently as appropriate prior to the expiry of any current Plan; and (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) areas to be used for disposal of tailings/waste; (d) existing and proposed surface infrastructure; (e) progressive rehabilitation schedules; (f) areas of particular environmental sensitivity; (g) water management systems (including erosion and sediment controls); (h) proposed resource recovery; and (i) where the mine will cease extraction during the term of the Plan, a closure plan including final rehabilitation objectives/methods and post mining land use/vegetation. (5) The Plan when lodged will be reviewed by the Department of Mineral Resources. (6) The Director-General may within two (2) months of the lodgement of a Plan, require modification and relodgement. (7) If a requirement in accordance with clause (6) is not issued within two months of the lodgement of a Plan, lease holder may proceed with implementation of the Plan submitted subject to the lodgement of the required security deposit within the specified time. (8) During the life of the Mining Operations Plan, proposed modifications to the Plan must be lodged with the Director-General and will be subject to the review process outlined in (5) - (7) above.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
ANNUAL ENVIRONMENTAL MANAGEMENT REPORT (AEMR)					
3	(1) Within 12 months of the commencement of mining operations and.thereafter annually or, at such other times as may be allowed by the Director-General, the lease holder must lodge an Annual Environmental Management Report (AEMR) with the Director-General. (2) The AEMR must be prepared in accordance with the Director-general's guidelines current at the time of reporting and contain a review and forecast of performance for the preceding and ensuing twelve months in terms of: (a) the accepted Mining Operations Plan; (b) development consent requirements and conditions; (c) Environment Protection Authority and Department of Land and Water Conservation licences and approvals; (d) any other statutory environmental requirements; (e) details of any variations to environmental approvals applicable to the lease area; and (f) where relevant, progress towards final rehabilitation objectives. (3) After considering an AEMR the Director-General may, by notice in writing, direct the lease holder to undertake operations, remedial actions or supplementary studies in the manner and within the period specified in the notice to ensure that operations on the lease area are conducted in accordance with sound mining and environmental practice. (4)The lease holder shall, as and when directed by the Minister, co-operate with the Director-General to conduct and facilitate review of the AEMR involving other government agencies.	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	Non-compliances are reported in the Annual Reviews and Annual Returns. All Annual Reviews were approved by the Department during the IEA period.	Compliant	
MANAGEMENT AND REHABILITATION OF LANDS (GENERAL)					
19	The lease holder shall observe any instruction given or which may be given by the Minister with a view to minimising or preventing public inconvenience or damage to public or private property.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
20	If required to do so by the Minister and within such time as may be stipulated by the Minister the lease holder shall carry out to the satisfaction of the Minister surveys of structures, buildings and pipelines on adjacent landholdings to determine the effect of operations on any such structures, buildings and pipelines.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
22	Upon completion of operations on the surface of the subject area or upon the expiry or sooner determination of this authority or any renewal thereof, the lease holder shall remove from such surface such buildings, machinery, plant, equipment, constructions and works as may be directed by the Minister and such surface shall be rehabilitated and left in a clean, tidy and safe condition to the satisfaction of the Minister.	N/A	Operations still being carried out on the surface of the mining lease	Not triggered	
23	If so directed by the Minister the lease holder shall rehabilitate to the satisfaction of the Minister and within such time as may be allowed by the Minister any lands within the subject area which may have been disturbed by mining or prospecting operations whether such operations were or were not carried out by the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
TREES (PLANTING AND PROTECTION OF) FLORA AND FAUNA AND ARBOREAL SCREENS					
27	If so directed by the Minister, the lease holder shall ensure that operations are carried out in such manner so as to minimise disturbance to flora and fauna within the subject area.	N/A	Not triggered during the IEA period.	Not triggered	
ROADS					
31	The lease holder shall pay to Singleton Council, Department of Land and Water Conservation or the Chief Executive, Roads and Traffic Authority the cost incurred by such Council or Department or Chief Executive of making good any damage caused by operations carried on by or under the authority of the lease holder to any road adjoining or traversing the surface or the excepted surface, as the case may be of the subject area. PROVIDED HOWEVER that the amount to be paid by the lease holder as aforesaid shall be reduced by such sum of money if any as may be paid to the said Council the Department of Conservation and Land Management or the Chief Executive, Roads and Traffic Authority as the case may be from the Mine Subsidence Compensation Fund constituted under the Mine Subsidence Compensation Act 1961, in settlement of a claim for compensation for the same damage.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
TRANSMISSION LINES, COMMUNICATION LINES AND PIPELINES					
41	The lease holder shall as far as is practicable so conduct operations as not to interfere with or impair the stability or efficiency of any transmission line, communication line or pipeline traversing the surface or the excepted surface of the subject area and shall comply with any direction given or which may be given by the Minister in this regard.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions received from the Resources Regulator during the audit period	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1495 (2001)					
LABOUR/EXPENDITURE					
44	The lease holder shall during each year of the term of the authority: (a) ensure that at least 3 workers are efficiently employed on the subject area; or (b) expend on operations carried out in the course of prospecting or mining the subject area, an amount of not less than Fifty Two Thousand Five Hundred Dollars ($52,500). The Minister may, at any time after a period of two (2) years from the date on which this authority has effect or from the date on which the renewal of this authority has effect, increase or decrease the amount of expenditure or labour required.	Annual Reviews for 2021, 2022 and 2023.	At least three persons employed on subject area during audit period	Compliant	
ADDITIONAL INFORMATION					
45	The lease holder shall if directed by the Minister and within such time as the Minister may stipulate furnish to the Minister: (a) The lease holder shall if directed by the Minister and within such time as the Minister may stipulate furnish to the Minister information regarding the ownership of the land within the subject area; (b) information regarding the ownership of the coal within the subject area prior to 1st January, 1982; (c) an indemnity in a form approved by the Minister indemnifying the Crown and the Minister against any wrong payment effected as a result of incorrect information furnished by the lease holder; (d) information regarding the financial viability of the lease holder and operations within and associated with the subject area; and (e) information regarding shareholdings in the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
SERVICE OF NOTICES					
46	Within a period of three months from the date of this authority or a period of three months from the date of service of the notice of renewal, or within such further time as the Director-General may allow the lease holder shall serve on each owner and occupier of the private land and on each occupier of the Crown land held under a pastoral lease within the subject area a notice in writing indicating that this authority has been granted or renewed and whether the authority includes the surface. The notice shall be accompanied by an adequate plan and description of the subject area. If there are ten or more owners or occupiers affected the lease holder may serve the notice by publication in a newspaper circulating in the region where the subject area is situated. The notice shall indicate that this authority has been granted or renewed, state whether the authority includes the surface and shall contain an adequate plan and description of the subject area.	ML 1495 renewal on 31 August 2022.	ML 1495 was renewed on 31 August 2022. EMM sighted letters to landowners on 23 November 2022 which was within 3 months of the renewal date.	Compliant	
INSPECTORS					
47	(a) Where the Inspector is of the opinion that any condition of this authority relating to operations within the subject area, or any provision of the Mining Act, 1992, relating to operations within the subject area, are not being complied with by the lease holder, the Inspector may serve on the lease holder a notice stating that and give particulars of the reason why, and may in such notice direct the lease holder: (i) to cease operations within the subject area in contravention of that condition or Act; and (ii) to carry out within the specified time works necessary to rectify or remedy the situation. (b) The lease holder shall comply with the directions contained in any notice served pursuant to sub paragraph (a) of this condition. The Director General may confirm, vary or revoke any such direction. (c) A notice referred to in his condition may be served on the Colliery Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
INDEMNITIES					
48	The lease holder shall indemnify and keep indemnified the Crown from and against all actions suits and claims and demands of whatsoever nature and all costs charges and expense which may be brought against the lease holder or which the lease holder may incur respect of any accideritor injury tb ariy person or property which may arise out of the construction maintenance or working of any workings now existing or to be made by the lease holder within the boundaries of the subject area or in connection with any of the operations notwithstanding that all other conditions of this authority shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease which the lease holder may be licensed or compelled to do hereunder.	N/A	Not triggered during the IEA period.	Not triggered	
49	The lease holder shall save harmless the Crown from payment of compensation and from and against all claims, actions, suits or demands whatsoever in the event of any damage resulting from mining operations under or near the subject area.	N/A	Not triggered during the IEA period.	Not triggered	
PROSPECTING (GENERAL)					
50	(a) Where the lease holder desires to commence prospecting operations in the subject area the lease holder shall notify the Director General in writing and shall comply with such additional conditions as the Minister may impose including any condition requiring the lodgement of an additional bond of other form of security or rehabilitation of the area affected by such operations. (b) Where the lease holder notifies the Director General pursuant to sub paragraph (a) of this condition the lease holder shall furnish with that notification details of the type of prospecting methods that would be adopted and the extent and location of the area that would be affected by them.	N/A	No coal was extracted within ML 1495 during audit period.	Not triggered	
SECURITY DEPOSIT					
51	(a) The lease holder shall, upon request by the Director General, lodge with the Minister the sum of $NIL in accordance with Instructions for Manner of Lodgement of Security Deposits as security for the fulfillment of the obligations of the lease holder under this authority. In the event that the lease holder fails to fulfill any of the lease holder's obligations under this authority the said sum may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purposes of the clause a lease holder shall be deemed to have failed to fulfill the lease holder's obligations under this authority, if the lease holder fails to comply with any condition or provision of this authority, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision of this authority or of any provision of the Act or regulations made thereunder. (b) The Minister may at may time after the commencement of this authority or any renewal thereof, vary the amount of security required in accordance with this condition. (c) Where the amount of security has been increased pursuant to Clause (b) hereof the lease holder shall, within two (2) months of being requested by the Minister, lodge a security for the amount of security required, in which case the Minister shall refund or release to the lease holder the security previously lodged.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
ROYALTY AT ADDITIONAL RATE					
54	The lease holder shall during the term of this authority pay to the Minister royalty at the additional rate as prescribed by the Regulations for coal recovered by open cut mining methods from the area.	N/A	No coal was extracted within ML 1495 during audit period.	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1502					
Extraction of coal					
1	The lease holder shall extract as large a percentage of the coal in the subject area as is practicable consistent with the provisions of the Coal Mines Regulations Act 1982 and the Regulations thereunder and shall comply with any direction given or which may be given in this regard by the Minister.	EIS Development consent MOP/Rehabilitation Management Plan	Coal extraction from within the Mining Lease extracted in accordance with approved plans	Compliant	
MINING, REHABILITATION, ENVIRONMENTAL MANAGEMENT PROCESS (MREMP)					
2	(1) Mining operations, including mining purposes, must be conducted in accordance with a Mining Operations Plan (the Plan) satisfactory to the Director-General. The Plan together with environmental conditions of development consent and other approvals will form the basis for: (a) ongoing mining operations and environmental management; and (b) ongoing monitoring of the project. (2) The Plan must be prepared in accordance with the Director-General's guidelines current at the time of lodgment. (3) A Plan must be lodged with the Director-General: (a) prior to the commencement of operations; (b) subsequently as appropriate prior to the expiry of any current Plan; and (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) areas to be used for disposal of tailings/waste; (d) existing and proposed surface infrastructure; (e) progressive rehabilitation schedules; (f) areas of particular environmental sensitivity; (g) water management systems (including erosion and sediment controls); (h) proposed resource recovery; and (i) where the mine will cease extraction during the term of the Plan, a closure plan including final rehabilitation objectives/methods and post mining land use/vegetation. (5) The Plan when lodged will be reviewed by the Department of Mineral Resources. (6) The Director-General may within two (2) months of the lodgement of a Plan, require modification and relodgement. (7) If a requirement in accordance with clause (6) is not issued within two months of the lodgement of a Plan, lease holder may proceed with implementation of the Plan submitted subject to the lodgement of the required security deposit within the specified time. (8) During the life of the Mining Operations Plan, proposed modifications to the Plan must be lodged with the Director-General and will be subject to the review process outlined in clauses (5) - (7) above.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
ANNUAL ENVIRONMENTAL MANAGEMENT REPORT (AEMR)					
3	(1) Within 12 months of the commencement of mining operations and thereafter annually or, at such other times as may be allowed by the Director-General, the lease holder must lodge an Annual Environmental Management Report (AEMR) with the Director-General. (2) The AEMR must be prepared in accordance with the Director-General's guidelines current at the time of reporting and contain a review and forecast of performance for the preceding and ensuing twelve months in terms of:- (a) the accepted Mining Operations Plan; (b) development consent requirements and conditions; (c) Environment Protection Authority and Department of Land and Water Conservation licences and approvals; (d) any other statutory environmental requirements; (e) details of any variations to environmental approvals applicable to the lease area; and (f) where relevant, progress towards final rehabilitation objectives. (3) After considering an AEMR the Director-General may, by notice in writing, direct the lease holder to undertake operations, remedial actions or supplementary studies in the manner and within the period specified in the notice to ensure that operations on the lease area are conducted in accordance with sound mining and environmental practice. (4) The lease holder shall, as and when directed by the Minister, co-operate with the Director-General to conduct and facilitate review of the AEMR involving other government agencies.	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	Annual reviews prepared for audit period. All Annual Reviews were approved by the Department during the IEA period.	Compliant	
19	The lease holder shall observe any instruction given or which may be given by the Minister with a view to minimising or preventing public inconvenience or damage to public or private property.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
20	If required to do so by the Minister and within such time as may be stipulated by the M1n1ster the lease holder shall carry out to the· satisfaction of the Minister surveys of structures, buildings and pipelines on adjacent landholdings to determine the effect of operations on any such structures, buildings and pipelines.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
22	Upon completion of operations on the surface of the subject area or upon the expiry or sooner determination of this authority or any renewal thereof, the lease holder shall remove from such surface such buildings, machinery, plant, equipment, constructions and works as may be directed by the Minister and such surface shall be rehabilitated and left in a clean tidy and safe condition to the satisfaction of the Minister. '	N/A	Operations still being carried out on the surface of the mining lease	Not triggered	
23	If so directed by the Minister the lease holder shall rehabilitate to the satisfaction of the Minister and within such time as may be allowed by the Minister any lands within the subject area which may have been disturbed by mining or prospecting operations whether such operations were or were not carried out by the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
TREES (PLANTING AND PROTECTION OF) FLORA AND FAUNA AND ARBOREAL SCREENS					
27	If so directed by the Minister, the lease holder shall ensure that operations are carried out in such manner so as to minimise disturbance to flora and fauna within the subject area.	N/A	Not triggered during the IEA period.	Not triggered	
Roads					
31	The lease holder shall pay to Singleton Shire Council, Department of Land and Water Conservation or the Chief Executive, Roads and Traffic Authority the cost incurred by such Council or Department or Chief Executive of making good any damage caused by operations carried on by or under the authority of the lease holder to any road adjoining or traversing the surface or the excepted surface, as the case may be of the subject area. PROVIDED HOWEVER that the amount to be paid by the lease holder as aforesaid shall be reduced by such sum of money if any as may be paid to the said Council the Department of Land and Water Conservation or the Chief Executive, Roads and Traffic Authority as the case may be from the Mine Subsidence Compensation Fund constituted under the Mine Subsidence Compensation Act, 1961, in settlement of a claim for compensation for the same damage.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
TRANSMISSION LINES, COMMUNICATION LINES AND PIPELINES					
41	The lease holder shall as far as is practicable so conduct operations as not to interfere with or impair the stability or efficiency of any transmission line, communication line or pipeline traversing the surface or the excepted surface of the subject area and shall comply with any direction given or which may be given by the Minister in this regard.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions recieved from the Resources Regulator during the audit period	Compliant	
LABOUR/EXPENDITURE					
44	The lease holder shall during each year of the term of the authority: (a) ensure that at least 15 workers are efficiently employed on the subject area; or (b) expend on operations carried out in the course of prospecting or mining the subject area, an amount of not less than $262,500.00. The Minister may, at any time after a period of two (2) years from the date on which this authority has effect or from the date on which the renewal of this authority has effect, increase or decrease the amount of expenditure or labour required.	Annual review (2021, 2022, 2023)	At least 15 person employed on subject area during audit period	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1502					
ADDITIONAL INFORMATION					
45	The lease holder shall if directed by the Minister and within such time as the Minister may stipulate furnish to the Minister: (a) information regarding the ownership of the land within the subject area; (b) information regarding the ownership of the coal within the subject area prior to 1st January, 1982; (c) an indemnity in a form approved by the Minister indemnifying the Crown and the Minister against any wrong payment effected as a result of incorrect information furnished by the lease holder; (d) information regarding the financial viability of the lease holder and operations within and associated with the subject area; and (e) information regarding shareholdings in the lease holder.	NA	No notices/directions received from the Resources Regulator during the audit period	Not triggered	
Service of notices					
46	Within a period of three (3) months from the date of this authority or a period of three (3) months from the date of service of the notice of renewal, or within such further time as Director General may allow, the lease holder shall serve on each landholder within the subject area a notice in writing indicating that this authority has been granted or renewed and whether the authority includes the surface. The notice shall be accompanied by an adequate plan and description of the subject area. If there are ten (10) or more landholders affected the lease holder may serve the notice by publication in a newspaper circulating in the region where the subject area is situated. The notice shall indicate that this authority has been granted or renewed, state whether the authority includes the surface and shall contain an adequate plan and description of the subject area.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Inspectors					
47	(a) Where an Inspector under the Mining Act 1992 is of the opinion that any condition of this authority relating to operations within the subject area, or any provision of the Mining Act, 1992, relating to operations within the subject area, are not being complied with by the lease holder, the Inspector may serve on the lease holder a notice stating that and give particulars of the reason why, and may in such notice direct the lease holder: (i) to cease operations within the subject area in contravention of that condition or Act; and (ii) to carry out within the specified time works necessary to rectify or remedy the situation. (b)The lease holder shall comply with the directions contained in any notice served pursuant to sub paragraph (a) of this condition. The Director General may confirm, vary or revoke any such direction. (c) A notice referred to in his condition may be served on the Colliery Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
Indemnities					
48	The lease holder shall indemnify and keep indemnified the Crown from and against all actions suits and claims and demands of whatsoever nature and all costs charges and expense which may be brought against the lease holder or which the lease holder may incur respect of any accident or injury to any person or property which may arise out of the construction maintenance or working of any workings now existing or to .be made by the lease holder within the boundaries of the subject area or in connection with any of the operations notwithstanding that all other conditions of this authority shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease which the lease holder may be licensed or compelled to do hereunder.	N/A	Not triggered during the IEA period.	Not triggered	
49	The lease holder shall save harmless the Crown from payment of compensation and from and against all claims, actions, suits or demands whatsoever in the event of any damage resulting from mining operations under or near the subject area.	N/A	Not triggered during the IEA period.	Not triggered	
Prospecting (general)					
50	(a) Where the lease holder desires to commence prospecting operations in the subject area the lease holder shall notify the Director General in writing and shall comply with such additional conditions as the Minister may impose including any condition requiring the lodgement of an additional bond or other form of security for rehabilitation of the area affected by such operations. (b) Where the lease holder notifies the Director.General pursuant to sub paragraph (a) of this condition the lease holder shall furnish with that notification details of the type of prospecting methods that would be adopted and the extent and location of the area that would be affected by them.	N/A	Mining had already commenced in the lease area prior to the IEA period.	Not triggered	
Security deposit					
51	Joint Security (extended) The joint security of $2,854,000 lodged with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of its obligations under Coal Lease 378 and 392 (Act 1973), MPL 311, Act 1973), Mining Leases 1300, 1325, 1327, 1373, 1393 and 1421 is extended to apply to this lease.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
Royalty at additional rate					
54	The lease holder shall during the term of this authority pay to the Minister royalty at the additional rate as prescribed by the Regulations for coal recovered by open cut mining methods from the area.	Royalty payment letters	Royalties were paid to the Minister as required.	Compliant	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1506 (2002)					
MINING OPERATIONS PLAN (MOP)					
2	(1) Mining operations, including mining purposes, must be conducted in accordance with a Mining Operations Plan (the Plan) satisfactory to the Director-General. The Plan together with environmental conditions of development consent and other approvals will form the basis for: (a) ongoing mining operations and environmental management; and (b) ongoing monitoring of the project. (2) The Plan must be prepared in accordance with the Director-General's guidelines current at the time of lodgement. (3) A Plan must be lodged with the Director-General: (a) prior to the commencement of operations; (b) subsequently as appropriate prior to the expiry of any current Plan; and (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) areas to be used for disposal of tailings/waste; (d) existing and proposed surface infrastructure; (e) progressive rehabilitation schedules; (f) areas of particular environmental sensitivity; (g) water management systems (including erosion and sediment controls); (h) proposed resource recovery; and (i) where the mine will cease extraction during the term of the Plan, a closure plan including final rehabilitation objectives/methods and post mining land use/vegetation. (5) The Plan when lodged will be reviewed by the Department of Mineral Resources. (6) The Director-General may within two (2) months of the lodgement of a Plan, require modification and relodgement. (7) If a requirement in accordance with clause (6) is not issued within two months of the lodgement of a Plan, lease holder may proceed with implementation of the Plan submitted subject to the lodgement of the required security deposit within the specified time. (8) During the life of the Mining Operations Plan, proposed modifications to the Plan must be lodged with the Director-General and will be subject to the review process outlined in (5) - (7) above.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
ANNUAL ENVIRONMENTAL MANAGEMENT REPORT (AEMR)					
3	(1) Within 12 months of the commencement of mining operations and.thereafter annually or, at such other times as may be allowed by the Director-General, the lease holder must lodge an Annual Environmental Management Report (AEMR) with the Director-General. (2) The AEMR must be prepared in accordance with the DirectorcGeneral's guidelines current at the time of reporting and contain a review and forecast of performance for the preceding and ensuing twelve months in terms of: (a) the accepted Mining Operations Plan; (b) development consent requirements and conditions; (c) Environment Protection Authority and Department of Land and Water Conservation licences and approvals; (d) any other statutory environmental requirements; (e) details of any variations to environmental approvals applicable to the lease area and (f) where relevant, progress towards final rehabilitation objectives. (3) After considering an AEMR the Director-General may, by notice in writing, direct the lease holder to undertake operations, remedial actions or supplementary studies in the manner and within the period specified in the notice to ensure that operations on the lease area are conducted in accordance with sound mining and environmental practice. (4) The lease holder shall, as and when directed by the Minister, co-operate with the Director-General to conduct and facilitate review of the AEMR involving other government agencies.	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	Non-compliances are reported in the Annual Reviews and Annual Returns. All Annual Reviews were approved by the Department during the IEA period.	Compliant	
DUMPS					
15	The lease holder shall comply with any direction, given or which may be given by the Inspector regarding the dumping, depositing or removal of material extracted as well as the stabilisation and revegetation of any dumps of coal, minerals, mine residues, tailings or overburden situated on the subject area or the associated colliery holding.	NA	No notices/directions received from the Resources Regulator during the audit period	Not triggered	
16	The lease holder shall comply with any direction given or which may be given by the Minister regarding the spraying of coal dumps on the subject area.	NA	No notices/directions received from the Resources Regulator during the audit period	Not triggered	
DUST					
17	The lease holder shall take such precautions as are necessary to abate any dust nuisance.	Site inspection	Dust controls, including use of water carts and real time dust moniting systems observed	Compliant	
MANAGEMENT AND REHABILITATION OF LANDS (GENERAL)					
18	The lease holder shall not interfere in any way with any fences on or adjacent to the subject area unless with the prior written approval of the owner thereof or the Minister and subject to such conditions as the Minister may stipulate.	N/A		Not triggered	
19	The lease holder shall observe any instruction given or which may be given by the Minister with a view to minimising or preventing public inconvenience or damage to public or private property.	NA	No notices/directions received from the Resources Regulator during the audit period	Not triggered	
20	If required to do so by the Minister and within such time as may be stipulated by the Minister the lease holder shall carry out to the satisfaction of the Minister surveys of structures, buildings and pipelines on adjacent landholdings to determine the effect of operations on any such structures, buildings and pipelines.	NA	No notices/directions received from the Resources Regulator during the audit period	Not triggered	
21	If so directed by the Minister the lease holder shall rehabilitate to the satisfaction of the Minister any lands within the subject area which may have been disturbed by the lease holder.	NA	No notices/directions received from the Resources Regulator during the audit period	Not triggered	
22	Upon completion of operations on the surface of the subject area or upon the expiry or sooner determination of this authority or any renewal thereof, the lease holder shall remove from such surface such buildings, machinery, plant, equipment, constructions and works as may be directed by the Minister and such surface shall be rehabilitated and left in a clean, tidy and safe condition to the satisfaction of the Minister.	N/A	Operations still being carried out on the surface of the mining lease	Not triggered	
23	If so directed by the Minister the lease holder shall rehabilitate to the satisfaction of the Minister and within- such time as may be allowed by the Minister any lands within the subject area which may have been disturbed by mining or prospecting operations whether such operations were or were not carried out by the lease holder.	NA	No notices/directions received from the Resources Regulator during the audit period	Not triggered	
24	The lease holder shall take all precautions against causing outbreak of fire on the subject area.	Rehabilitation Management Plan Rehabilitation risk assessment Biodiversity Offsets Management Plan	Controls and management measures to prevent/minimise risk from bushfires outlined within the Rehabilitation Management Plan	Compliant	
25	The lease holder shall provide and maintain to the satisfaction of the Minister efficient means to prevent contamination, pollution, erosion or siltation of any river, stream, creek, tributary, lake, dam, reservoir, watercourse or catchment area or any undue interference to fish or their environment and shall observe any instruction given or which may be given by the Minister with a view to preventing or minimising the contamination, pollution, erosion or siltation of any river, stream, creek, tributary, lake, dam, reservoir, watercourse or catchment area or any undue interference to fish or their environment.	Incident register Site inspection	No pollution incidents recorded during audit period. Appropriate storage and management of chemicals and hydrocarbons on site	Compliant	
PROTECTION OF FLORA AND FAUNA					
27	If so directed by the Minister, the lease holder shall ensure that operations are carried out in such manner so as to minimise disturbance to flora and fauna within the subject area.	N/A	Not triggered during the IEA period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1506 (2002)					
SOIL EROSION					
30	The lease holder shall conduct operations in such a manner as not to cause or aggravate soil erosion and the lease holder shall observe and perform any instructions given or which may be given by the Minister with a view to minimising or preventing soil erosion.	Site inspection Rehabilitation Management Plan	Erosion contols sighted. No issues identified requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
ROADS					
31	The lease holder shall pay to Singleton Council, Department of Land and Water Conservation or the Chief Executive, Roads and Traffic Authority the cost incurred by such Council or Department or Chief Executive of making good any damage caused by operations carried on by or under the authority of the lease holder to any road adjoining or traversing the surface or the excepted surface, as the case may be of the subject area. PROVIDED HOWEVER that the amount to be paid by the lease holder as aforesaid shall be reduced by such sum of money if any as may be paid to the said Council the Department of Conservation and Land Management or the Chief Executive, Roads and Traffic Authority as the case may be from the Mine Subsidence Compensation Fund constituted under the Mine Subsidence Compensation Act 1961, in settlement of a claim for compensation for the same damage.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
32	In the event of operations being conducted on the surface of any road, track or firetrail traversing the subject area or in the event of such operations causing damage to or interference with any. such road, track or firetrail the lease holder, at his own expense, shall if directed to do so by the Minister provide to the satisfaction of the Minister an alternate road, track or firetrail in a position as required by the Minister and shall allow free and uninterrupted access along such alternate road, track or firetrail and, if required to do so by the Minister, the lease holder shall upon completion of operations rehabilitate the surface of the original road, track or firetrail to a condition satisfactory to the Minister.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
CATCHMENT AREAS					
33	(a) Operations shall be carried out in such a way as not to cause any pollution of the Hunter Catchment Area. (b) If the lease holder is using or about to use any process which in the opinion of the Minister is likely to cause contamination of the waters of the said Catchment Area the lease holder shall refrain from using or cease using as the case may require such process within twenty four (24) hours of the receipt by the lease holder of a notice in writing under the hand of the Minister requiring the lease.holder to do so. (c) The lease holder shall comply with any regulations now in force or hereafter to be in force for the protection from pollution of the said Catchment Area.	Rehabilitation Management Plan Various envioronmental managemement plans Site inspection Incident register	Operations carried out in accordance with various environmental management plans. No pollution events recorded No directions from Resoources Regulator recieved during audit period	Compliant	
TRANSMISSION LINES, COMMUNICATION LINES AND PIPELINES					
41	The lease holder shall.as far as is practicable so conduct operations as not to interfere with or impair the stability or efficiency of any transmission line, communication line or pipeline traversing the surface or the excepted surface of the subject area and shall comply with any direction given or which may be given by the Minister in this regard.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions recieved from the Resources Regulator during the audit period	Compliant	
ABORIGINAL PLACE OR RELIC					
43	The lease holder shall not knowingly destroy, deface or damage any aboriginal place or relic within the subject area except in accordance with an authority issued under the National Parks and Wildlife Act, 1974, and shall take every precaution in drilling, excavating or disturbing the land against any such destruction, defacement or damage.	Incident register Site insepction	All impacts to heritage sites undertaken in accordance with the approved Aboriginal heritage management plan. No unauthorised impacts to Aboriginal heritage sites identified during audit period.	Compliant	
ADDITIONAL INFORMATION					
45	The lease holder shall if directed by the Minister and within such time as the Minister may stipulate furnish to the Minister: (a) the lease holder shall if directed by the Minister and within such time as the Minister may stipulate furnish to the Minister information regarding the ownership of the land within the subject area; (b) information regarding the ownership of the coal within the subject area prior to 1st January, 1982; (c) an indemnity in a form approved by the Minister indemnifying the Crown and the Minister against any wrong payment effected as a result of incorrect information furnished by the lease holder; (d) information regarding the financial viability of the lease holder and operations within and associated with the subject area; and (e) information regarding shareholdings in the lease holder.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
SERVICE OF NOTICES					
46	Within a period of three (3) months from the date of this authority or a period of three months from the date of service of the notice of renewal, or within such further time as the Director-General may allow the lease holder shall serve on each owner and occupier of the private land and on each occupier of the Crown land held under a pastoral lease within the subject area a notice in writing indicating that this authority has been granted or renewed and whether the authority includes the surface. The notice shall be accompanied by an adequate plan and description of the subject area. If there are ten (10) or more owners or occupiers affected the lease holder may serve the notice by publication in a newspaper circulating in the region where the subject area is situated. The notice shall indicate that this authority has been granted or renewed, state whether the authority includes the surface and shall contain an adequate plan and description of the subject area.	ML 1506 renewal on 1 December 2022.	ML 1506 was renewed on 1 December 2022. EMM sighted letters to landowners on 22 February 2023 which was within 3 months of the renewal date.	Compliant	
INSPECTORS					
47	(a) Where the Inspector is of the opinion that any condition of this authority relating to operations within the subject area, or any provision of the Mining Act, 1992, relating to operations within the subject area, are not being complied with by the lease holder, the Inspector may serve on the lease holder a notice stating that and give particulars of the reason why, and may in such notice direct the lease holder: (i) to cease operations within the subject area in contravention of that condition or Act; and (ii) to carry out within the specified time works necessary to rectify or remedy the situation. (b) The lease holder shall comply with the directions contained in any notice served pursuant to sub paragraph (a) of this condition. The Director General may confirm, vary or revoke any such direction. (c) A notice referred to in his condition may be served on the Colliery Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
INDEMNITIES					
48	The lease holder shall indemnify and keep indemnified the Crown from and against all actions suits and claims and demands of whatsoever nature and all costs charges and expense wbich may be brought against the lease holder or which the lease holder may incur respect of any accideritor injury tb ariy person or property which may arise out of the construction maintenance or working of any workings now existing or to be made by the lease holder within the boundaries of the subject area or in connection with any of the operations notwithstanding that all other conditions of this authority shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease which the lease holder may be licensed or compelled to do hereunder.	N/A	Not triggered during the IEA period.	Not triggered	
49	The lease holder shall save harmless the Crown from payment of compensation and from and against all claims, actions, suits or demands whatsoever in the event of any damage resulting from mining operations under or near the subject area.	N/A	Not triggered during the IEA period.	Not triggered	
SECURITY DEPOSIT					
51	(a) The lease holder shall, upon request by the Director General, lodge with the Minister the sum of $40,000 (Forty thousand dollars) as security for the fulfillment of the obligations of the lease holder under this authority. In the event that the lease holder fails to fulfill any of the lease holder's obligations under this authority the said sum may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purposes of the clause a lease holder shall be deemed to have failed to fulfill the lease holder's obligations under this authority, if the lease holder fails to comply with any condition or provision of this authority, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision of this authority or of any provision of the Act or regulations made thereunder. (b) The lease holder must provide the security required by sub-clause (a) hereof in one of the following forms: (i) cash, or (ii) a security certificate in such form and given by such surety as may from time to time be approved by the Minister. (c) The Minister may at may time after the commencement of this authority or any renewal thereof, vary the amount of security required in accordance with this condition.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
SPECIAL CONDITIONS					
56	The lease holder shall plant tree screens along the south western perimeter boundary of the lease. Tree planting is to be consistent with the Landscape Plan for the Nardell Pit Top (development consent) and be documented in a revised Mining Operation Plan for the Pit Top head lease.	N/A	Tree screening activities undertaken prior to audit period.	Not triggered	
57	The lease holder shall ensure a conveyor or overhead bridge over the railway crossing is built and used by NardeH Coal Corporation Pty Ltd in a manner which is acceptable to Ravensworth Coal Terminal Pty Ltd.	N/A	Not constructed during audit period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1506 (2002)					
58	The use of the access road, (located as shown by lettering "C" on the attached diagram "X"), and operated by Ravensworth Coal Terminal Pty Ltd, is not interrupted or otherwise affected by Nardell's coal stockpiling activities.	N/A	Not triggered during the IEA period.	Not triggered	
59	The transpiration system currently situated on that part of the land within the mining lease application (as shown as lettering "A" on the attached diagram "X") is relocated to an alternative location acceptable to Ravensworth Coal Terminal Pty Ltd.	N/A	Not triggered during the IEA period.	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1564 (2005)					
Notice to Landholders					
1	Within a period of three months from the date of grant/renewal of this mining lease or within such further time as the Minster may allow, the lease holder must serve on each landholder a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. A adaquate plan and description of the lease area must accompany the notice. If there are ten or more landholders affected, the leaseholder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Mining, Rehabilitation, Environmental Management Process (MREMP)					
Mining Operations Plan (MOP)					
2	(1) Mining operations, including mining purposes, must be conducted in accordance with a Mining Operations Plan (the Plan) satisfactory to the Director-General. The Plan together with environmental conditions of development consent and other approvals will form the basis for: (a) ongoing mining operations and environmental management; and (b) ongoing monitoring of the project. (2) The Plan must be prepared in accordance with the Director-General's guidelines current at the time of lodgement. (3) A Plan must be lodged with the Director-General: (a) prior to the commencement of operations; (b) subsequently as appropriate prior to the expiry of any current Plan; and (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) areas to be used for disposal of tailings/waste; (d) existing and proposed surface infrastructure; (e) progressive rehabilitation schedules; (f) areas of particular environmental sensitivity; (g) water management systems (including erosion and sediment controls); (h) proposed resource recovery; and (i) where the mine will cease extraction during the term of the Plan, a closure plan including final rehabilitation objectives/methods and post mining land use/vegetation. (5) The Plan when lodged will be reviewed by the Department of Mineral Resources. (6) The Director-General may within two (2) months of the lodgement of a Plan, require modification and relodgement. (7) If a requirement in accordance with clause (6) is not issued within two months of the lodgement of a Plan, lease holder may proceed with implementation of the Plan submitted subject to the lodgement of the required security deposit within the specified time. (8) During the life of the Mining Operations Plan, proposed modifications to the Plan must be lodged with the Director-General and will be subject to the review process outlined in (5) - (7) above.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Annual Environmental Management Report (AEMR)					
3	(1) Within 12 month of the commencement of mining operation and therefore annually or, at such other times as may be allowed by the Director-general, the lease holder must lodge an Annual Environmental Management Report (AEMR) with the Director General. (2) The AEMR must be prepared in accordance with the Director-General's guidelines current at the time of reporting and contain a review and forecast of performance for the preceding and ensuing twelve months in terms of: (a) the accepted Mining Operations Plan; (b) development consent requirements and conditions; (c) Department of Environment and Conservation and Department of Planning Licences and approvals; (d) any other statutory environmental requirements; (e) details of any variations to environmental approvals applicable to the lease area; and (f) where relevant, progress towards final rehabilitation objectives. (3) After considering an AEMR the Director-General may, by notice in writing, direct the lease holder to undertake operations, remedial actions of supplementary studies in the manner and within the period specified in the notice to ensure that operations on the lease area are conducted in accordance with sound mining and environmental practice. (4) The lease holder shall, as and when directed by the Minister, co-operate with the director-general to conduct and facilitate review of the AEMR involving other government agencies and the local council.	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	Non-compliances are reported in the Annual Reviews and Annual Returns. All Annual Reviews were approved by the Department during the IEA period.	Compliant	
Subsidence Management					
4	(a) The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface. (b) Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gateroads, installation roads and associated main headings, etc), and pillar extractions, and are otherwise defined by the Guideline for Applications for Subsidence Management Approvals. (c) The lease holder must not commence or undertake underground mining operations that will potentially lead to subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the Coal Mines Regulation Act 1982, or the document New Subsidence Management Plan Approval Process Transitional Provisions. (d) Subsidence Management Plans are to be prepared in accordance with the Guideline for Applications for Subsidence Management Approvals. (e) Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 2 and will be subject to the Annual Environmental Management Report process as set out under Condition 3. The SMP is also subject to the requirements for subsidence monitoring and reporting set out in the document New Approval Process for Management of Coal Mining Subsidence Policy.	Extraction Plan.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Control of Operations					
6	(a) If an Environmental Officer of the Department believes that the lease holder is not complying with any provision of the Act or any condition of this lease relating to the working of the lease, he may direct the lease holder to: (i) cease working the lease; or (ii) cease that part of the operation not complying with the Act or conditions; until in the opinion of the Environmental Officer the situation is rectified. (b) The lease holder must comply with any direction given. The DirectorGeneral may confirm, vary or revoke any such direction. (c) A direction referred to in this condition may be served on the Mine Manager.	N/A	No notices/directions received from the Resources Regulator during the audit period	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1564 (2005)					
Blasting					
11	(a)Ground Vibration The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10 mm/second and does not exceed 5 mm/second in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be, unless determined otherwise by the Department of Environment and Conservation. (b)Blast Overpressure The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling or occupied premises, as the case may be, unless determined otherwise by the Department of Environment and Conservation.	N/A	No blasting within this lease area during the audit period	Not triggered	
Safety					
12	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Site inspection Incident register	Site inspection identified appropriate fencing/signage in place. Saftey reporting procedures in place and reported as required Appropriate access restrictions in place to protect safety of personnel	Compliant	
Rehabilitation					
13	(a) Land disturbed must be rehabilitated to a stable and permanent form suitable for a subsequent land use acceptable to the Director-General and in accordance with the Mining Operations Plan so that: • there is no adverse environmental effect outside the disturbed area and that the land is properly drained and protected from soil erosion • the state of the land is compatible with the surrounding land and land use requirements • the landforms, soils, hydrology and flora require no greater maintenance than that in the surrounding land • in cases where revegetation is required and native vegetation has been removed or damaged, the original species must be reestablished with close reference to the flora survey included in the Mining Operations Plan. If the original vegetation was not native, any re-established vegetation must be appropriate to the area and at an acceptable density • the land does not pose a threat to public safety. (b) Any topsoil that is removed must be stored and maintained in a manner acceptable to the Director-General.	Rehabilittaion Management PLan	Rehabilitation activities progressed in accordance with approved Rehabilitation Management Plan	Compliant	
14	The lease holder must comply with any direction given by the Director-General regarding the stabilisation and revegetation of any mine residues, tailings or overburden dumps situated on the lease area.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	
Prevention of Soil Erosion and Pollution					
16	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.	Site inspection Rehabilitation Management Plan	No erosional issues identified during site inspection requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
Transmission lines, Communication lines and Pipelines					
17	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions he may stipulate.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions recieved from the Resources Regulator during the audit period	Compliant	
Fences, Gates					
18	(a) Activities on the lease must not interfere with or damage fences without the prior written approval of the owner thereof or the Minister and subject to any conditions the Minister may stipulate. (b) Gates within the lease area must be closed or left open in accordance with the requirements of the landholder.	N/A	No works interfering with fences requiring landowner/Minister approval during the audit period	Not triggered	
Roads and Tracks					
19	(a) Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior written approval of the Director-General and subject to any conditions he may stipulate. (b) The lease holder must pay to the designated authority in control of the road (generally the local council or the Roads and Traffic Authority) the cost incurred in fixing any damage to roads caused by operations carried out under the lease, less any amount paid or payable from the Mine Subsidence Compensation Fund.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
20	Access tracks must be kept to a minimum and be positioned so that they do not cause any unnecessary damage to the land. Temporary access tracks must be ripped, topsoiled and revegetated as soon as possible after they are no longer required for mining operations. The design and construction of access tracks must be in accordance with specifications fixed by the Department of Infrastructure, Planning and Natural Resources.	Site inspection	Minimal access tracks on site outside operational areas. Access track are maintained. No access tracks identified as causing environmental harm. Surface disturbance notice procedures implemented for establishement of any new access tracks required.	Compliant	
Trees and Timber					
21	(a) The lease holder must not fell trees, strip bark or cut timber on the lease without the consent of the landholder who is entitled to the use of the timber, or if such a landholder refuses consent or attaches unreasonable conditions to the consent, without the approval of a warden. (b) The lease holder must not cut, destroy, ringbark or remove any timber or other vegetative cover on the lease area except such as directly obstructs or prevents the carrying on of operations. Any clearing not authorised under the Mining Act 1992 must comply with the provisions of the Native Vegetation Conservation Act 1997. (c) The lease holder must obtain all necessary approvals or licences before using timber from any Crown land within the lease area.	N/A	Not triggered during the IEA period.	Not triggered	
Indemnity					
24	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	N/A	Not triggered during the IEA period.	Not triggered	
Single Security (extended)					
26	(a) The single security given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under ML 1398 and ML 1508 is extended to apply to this lease. (b) If the lease holder fails to fulfil any one or more of the obligations under this lease, then the security held may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purpose of this clause the lease holder shall be deemed to have failed to fulfil the obligations of the lease if the lease holder fails to comply with any condition or provision hereof, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision hereof or of any provision of the Act or regulations made thereunder.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1576 (2006)					
Notice to Landholders					
1	Within a period of three months from the date of grant/renewal of this mining lease or within such further time as the Minster may allow, the lease holder must serve on each landholder a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. A adequate plan and description of the lease area must accompany the notice. If there are ten or more landholders affected, the leaseholder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Mining, Rehabilitation, Environmental Management Process (MREMP)					
Mining Operations Plan (MOP)					
2	(1) Mining operations, including mining purposes, must be conducted in accordance with a Mining Operations Plan (the Plan) satisfactory to the Director-General. The Plan together with environmental conditions of development consent and other approvals will form the basis for: (a) ongoing mining operations and environmental management; and (b) ongoing monitoring of the project. (2) The Plan must be prepared in accordance with the Director-General's guidelines current at the time of lodgement. (3) A Plan must be lodged with the Director-General: (a) prior to the commencement of operations; (b) subsequently as appropriate prior to the expiry of any current Plan; and (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) areas to be used for disposal of tailings/waste; (d) existing and proposed surface infrastructure; (e) progressive rehabilitation schedules; (f) areas of particular environmental sensitivity; (g) water management systems (including erosion and sediment controls); (h) proposed resource recovery; and (i) where the mine will cease extraction during the term of the Plan, a closure plan including final rehabilitation objectives/methods and post mining land use/vegetation. (5) The Plan when lodged will be reviewed by the Department of Mineral Resources. (6) The Director-General may within two (2) months of the lodgement of a Plan, require modification and relodgement. (7) If a requirement in accordance with clause (6) is not issued within two months of the lodgement of a Plan, lease holder may proceed with implementation of the Plan submitted subject to the lodgement of the required security deposit within the specified time. (8) During the life of the Mining Operations Plan, proposed modifications to the Plan must be lodged with the Director-General and will be subject to the review process outlined in (5) - (7) above.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Annual Environmental Management Report (AEMR)					
3	(1) Within 12 month of the commencement of mining operation and therefore annually or, at such other times as may be allowed by the Director-general, the lease holder must lodge an Annual Environmental Management Report (AEMR) with the Director General. (2) The AEMR must be prepared in accordance with the Director-General's guidelines current at the time of reporting and contain a review and forecast of performance for the preceding and ensuing twelve months in terms of: (a) the accepted Mining Operations Plan; (b) development consent requirements and conditions; (c) Department of Environment and Conservation and Department of Planning Licences and approvals; (d) any other statutory environmental requirements; (e) details of any variations to environmental approvals applicable to the lease area; and (f) where relevant, progress towards final rehabilitation objectives. (3) After considering an AEMR the Director-General may, by notice in writing, direct the lease holder to undertake operations, remedial actions of supplementary studies in the manner and within the period specified in the notice to ensure that operations on the lease area are conducted in accordance with sound mining and environmental practice. (4) The lease holder shall, as and when directed by the Minister, co-operate with the director-general to conduct and facilitate review of the AEMR involving other government agencies and the local council.	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	Non-compliances are reported in the Annual Reviews and Annual Returns. All Annual Reviews were approved by the Department during the IEA period.	Compliant	
Subsidence Management					
4	(a) The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface. (b) Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gateroads, installation roads and associated main headings, etc), and pillar extractions, and are otherwise defined by the Guideline for Applications for Subsidence Management Approvals. (c) The lease holder must not commence or undertake underground mining operations that will potentially lead to subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the Coal Mines Regulation Act 1982, or the document New Subsidence Management Plan Approval Process Transitional Provisions. (d) Subsidence Management Plans are to be prepared in accordance with the Guideline for Applications for Subsidence Management Approvals. (e) Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 2 and will be subject to the Annual Environmental Management Report process as set out under Condition 3. The SMP is also subject to the requirements for subsidence monitoring and reporting set out in the document New Approval Process for Management of Coal Mining Subsidence Policy.	Extraction Plan.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Working Requirement					
5	The lease holder must: (a) ensure that at least 20 competent people are efficiently employed on the lease area on each week day except Saturday or any week day that is a public holiday, OR (b) expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than $350,000 per annum whilst the lease is in force. The Minister may at any time or times, by instrument in writing served on the lease holder, increase or decrease the expenditure required or the number of people to be employed.	Annual review (2021, 2022, 2023)	At least 20 person employed on subject area during audit period	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1576 (2006)					
Control of Operations					
6	(a) If an Environmental Officer of the Department believes that the lease holder is not complying with any provision of the Act or any condition of this lease relating to the working of the lease, he may direct the lease holder to: (i) cease working the lease; or (ii) cease that part of the operation not complying with the Act or conditions; until in the opinion of the Environmental Officer the situation is rectified. (b) The lease holder must comply with any direction given. The Director General may confirm, vary or revoke any such direction. (c) A direction referred to in this condition may be served on the Mine Manager.	N/A	No notices/directions received from the Resources Regulator during the audit period	Not triggered	
Reports					
7	The lease holder must provide an exploration report, within a period of twenty eight days after each anniversary of the date this lease has effect or at such other date as the Director-General may stipulate, of each year. The report must be to the satisfaction of the Director-General and contain the following: (a) Full particulars, including results, interpretation and conclusions, of all exploration conducted during the twelve months period; (b) Details of expenditure incurred in conducting that exploration; (c) A summary of all geological findings acquired through mining or development evaluation activities; (d) Particulars of exploration proposed to be conducted in the next twelve months period; (e) All plans, maps, sections and other data necessary to satisfactorily interpret the report.	N/A	No exploration activities undertaken within ML1576 during audit period	Not triggered	
Licence to Use Reports					
8	(a) The lease holder grants to the Minister, by way of a non-exclusive licence, the right in copyright to publish, print, adapt and reproduce all exploration reports lodged in any form and for the full duration of copyright. (b) The non-exclusive licence will operate as a consent for the purposes of section 365 of the Mining Act 1992.	N/A	No notices/directions received from the Resources Regulator during the audit period	Not triggered	
Confidentiality					
9	(a) All exploration reports submitted in accordance with the conditions of this lease will be kept confidential while the lease is in force, except in cases where: (i) the lease holder has agreed that specified reports may be made nonconfidential (ii) reports deal with exploration conducted exclusively on areas that have ceased to be part of the lease. (b) Confidentiality will be continued beyond the termination of a lease where an application for a flow-on title was lodged during the currency of the lease. The confidentiality will last until that flow-on title or any subsequent flow-on title, has terminated. (c) The Director-General may extend the period of confidentiality.	N/A	No notices/directions received from the Resources Regulator during the audit period	Not triggered	
Terms of the non-exclusive licence					
10	The terms of the non-exclusive copyright licence granted under condition 8 (a) are: (a) the Minister may sub-licence others to publish, print, adapt and reproduce but not on-licence reports (b) the Minister and any sub-licensee will acknowledge the lease holder's and any identifiable consultant's ownership of copyright in any reproduction of the reports, including storage of reports onto an electronic database (c) the lease holder does not warrant ownership of all copyright works in any report and, the lease holder will use best endeavours to identify those parts of the report for which the lease holder owns the copyright (d) there is no royalty payable by the Minister for the licence (e) if the lease holder has reasonable grounds to believe that the Minister has exercised his rights under the non-exclusive copyright licence in a manner which adversely affects the operations of the lease holder, that licence is revocable on the giving of a period of not less than three months notice.	N/A	No notices/directions received from the Resources Regulator during the audit period	Not triggered	
Blasting					
11	(a)<u>Ground Vibration</u> The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10 mm/second and does not exceed 5 mm/second in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be, unless determined otherwise by the Department of Environment and Conservation. (b)<u>Blast Overpressure</u> The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling or occupied premises, as the case may be, unless determined otherwise by the Department of Environment and Conservation.	N/A	No blasting activities undertaken in lease area during audit period	Not triggered	
Safety					
12	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Site inspection Incident register	Appropriate fencing/signage in place to restrict access Safety reporting procedures in place and reported as required Shafts associated with underground workings sealed/fenced	Compliant	
Rehabilitation					
13	(a) Land disturbed must be rehabilitated to a stable and permanent form suitable for a subsequent land use acceptable to the Director-General and in accordance with the Mining Operations Plan so that: • there is no adverse environmental effect outside the disturbed area and that the land is properly drained and protected from soil erosion • the state of the land is compatible with the surrounding land and land use requirements • the landforms, soils, hydrology and flora require no greater maintenance than that in the surrounding land • in cases where revegetation is required and native vegetation has been removed or damaged, the original species must be reestablished with close reference to the flora survey included in the Mining Operations Plan. If the original vegetation was not native, any re-established vegetation must be appropriate to the area and at an acceptable density • the land does not pose a threat to public safety. (b) Any topsoil that is removed must be stored and maintained in a manner acceptable to the Director-General.	Rehabilitation Management Plan Site inspection	All rehabilitation activities carried out in accordance with the approved Rehabilitation Management Plan	Compliant	
14	The lease holder must comply with any direction given by the Director-General regarding the stabilisation and revegetation of any mine residues, tailings or overburden dumps situated on the lease area.	N/A	No notices/directions received from the Resources Regulator during the audit period	Not triggered	
Exploratory Drilling					
15	(1) At least twenty eight days prior to commencement of drilling operations the lease holder must notify the relevant Department of Planning regional hydrogeologist of the intention to drill exploratory drill holes together with information on the location of the proposed holes. (2) If the lease holder drills exploratory drill holes he must satisfy the Director General that: (a) all cored holes are accurately surveyed and permanently marked in accordance with Departmental guidelines so that their location can be easily established; (b) all holes cored or otherwise are sealed to prevent the collapse of the surrounding surface; (c) all drill holes are permanently sealed with cement plugs to prevent surface discharge of groundwaters; (d) if any drill hole meets natural or noxious gases it is plugged or sealed to prevent their escape; (e) if any drill hole meets an artesian or sub-artesian flow it is effectively sealed to prevent contamination of aquifers; (f) once any drill hole ceases to be used the hole must be sealed in accordance with Departmental guidelines. Alternatively, the hole must be sealed as instructed by the Director-General; (g) once any drill hole ceases to be used the land and its immediate vicinity is left in a clean, tidy and stable condition.	N/A	No exploration activities undertaken within ML1576 during audit period	Not triggered	
Prevention of Soil Erosion and Pollution					
16	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.	Site inspection Rehabilitation Management Plan	No erosional issues identified during site inspection requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1576 (2006)					
Transmission lines, Communication lines and Pipelines					
17	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions he may stipulate.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions received from the Resources Regulator during the audit period	Compliant	
Fences, Gates					
18	(a) Activities on the lease must not interfere with or damage fences without the prior written approval of the owner thereof or the Minister and subject to any conditions the Minister may stipulate. (b) Gates within the lease area must be closed or left open in accordance with the requirements of the landholder.	N/A	No works interfering with fences requiring landowner/Minister approval during the audit period	Not triggered	
Roads and Tracks					
19	(a) Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior written approval of the Director-General and subject to any conditions he may stipulate. (b) The lease holder must pay to the designated authority in control of the road (generally the local council or the Roads and Traffic Authority) the cost incurred in fixing any damage to roads caused by operations carried out under the lease, less any amount paid or payable from the Mine Subsidence Compensation Fund.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
20	Access tracks must be kept to a minimum and be positioned so that they do not cause any unnecessary damage to the land. Temporary access tracks must be ripped, topsoiled and revegetated as soon as possible after they are no longer required for mining operations. The design and construction of access tracks must be in accordance with specifications fixed by the Department of Infrastructure, Planning and Natural Resources.	Site inspection	Minimal access tracks on lease area. Access track are maintained. No access tracks identified as causing environmental harm. Surface disturbance notice procedures implemented for establishment of any new access tracks required.	Compliant	
Trees and Timber					
21	(a) The lease holder must not fell trees, strip bark or cut timber on the lease without the consent of the landholder who is entitled to the use of the timber, or if such a landholder refuses consent or attaches unreasonable conditions to the consent, without the approval of a warden. (b) The lease holder must not cut, destroy, ringbark or remove any timber or other vegetative cover on the lease area except such as directly obstructs or prevents the carrying on of operations. Any clearing not authorised under the Mining Act 1992 must comply with the provisions of the Native Vegetation Conservation Act 1997. (c) The lease holder must obtain all necessary approvals or licences before using timber from any Crown land within the lease area.	N/A	Not triggered during the IEA period.	Not triggered	
Resource Recovery					
23	(a) Notwithstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered from the lease area, or that any such minerals which are being recovered are not being recovered to the extent which should be economically possible or which for environmental reasons are necessary to be recovered, he may give notice in writing to the lease holder requiring the holder to recover such minerals. (b) The notice shall specify the minerals to be recovered and the extent to which they are to be recovered, or the objectives in regard to resource recovery, but shall not specify the processes the lease holder shall use to achieve the specified recovery. (c) The lease holder must, when requested by the Director-General, provide such information as the Director-General may specify about the recovery of the mineral resources of the lease area. (d) The Director-General shall issue no such notice unless the matter has firstly been thoroughly discussed with and a report to the Director-General has incorporated the views of the lease holder. (e) The lease holder may object to the requirements of any notice issued under this condition and on receipt of such an objection the Minister shall refer it to a Warden for inquiry and report under Section 334 of the Mining Act, 1992. (f) After considering the Warden's report the Minister shall decide whether to withdraw, modify or maintain the requirements specified in the original notice and shall give the lease holder written notice of the decision. The lease holder must comply with the requirements of this notice.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
Indemnity					
24	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	N/A	Not triggered during the IEA period.	Not triggered	
Single Security (extended)					
26	(a) The single security given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under Consolidated Coal Lease 723 (Act 1973) and Mining Lease 1357 (Act 1992) is extended to apply to this lease. (b) If the lease holder fails to fulfil any one or more of the obligations under this lease, then the security held may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purpose of this clause the lease holder shall be deemed to have failed to fulfil the obligations of the lease if the lease holder fails to comply with any condition or provision hereof, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision hereof or of any provision of the Act or regulations made thereunder.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
Special Conditions					
28	If the licence holder becomes aware of any drill holes that extend to seams that have potential to be mined underground, but appear not to have been plugged and sealed in accordance with contemporary standards, the licence holder shall inform the Department of Primary Industries in writing, of that matter.	N/A	No exploration activities undertaken within ML1576 during audit period	Not triggered	
29	The leaseholder shall undertake assessment and management of the risk of spontaneous combustion in mining and overburden emplacement. Spontaneous combustion risk management shall be documented in the Mining Operations Plan (see condition 2) and Annual Environmental Management Report (see condition 3) by the leaseholder.	Rehabilitation Management Plan	Risk assessment including consideration of spontaneous combustion included in Rehabilitation Management Plan	Compliant	
30	The leaseholder will monitor all blasts within the Ravensworth West development area in the first three (3) months of operation in order to: (i) confirm vibration levels at the overland conveyor HC1, the coal preparation plant and the Hunter river pipeline(s); and (ii) determine the 'K' factor for the purpose of later blasts and vibration level prediction when blasting closer to the infrastructure. The leaseholder will provide a copy of all blast monitoring results at these locations to Coal & Allied.	N/A	No blasting within lease area during audit period	Not triggered	
31	Prior to any blasting taking place in the subject area within 500 metres of any Coal & Allied property or mining lease boundary, agreement over the blasting notification and evacuation procedures to be followed by both parties must be reached.	N/A	No blasting within lease area during audit period	Not triggered	
32	The leaseholder will ensure that issues such as avoiding periods of heavy shift change traffic from Hunter Valley Operations are addressed in its application to Singleton Shire Council to temporarily close Lemington road for the purposes of blasting in the subject area.	Temporary road closure notification in newspaper Pre-blasting environmental assessment checklist	EMM sighted evidence of community notifications and environmental assessments in relation to the closure of Lemington Road prior to blasting. Blasting typically occurs at 1pm on site which is outside of shift change times.	Compliant	
33	The parties will reach agreement on the interactions in respect of mining in other areas of Ravensworth West development area prior to mining commencing in those areas.	N/A	Mining activities commenced in ML1576 prior to the audit period	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1580 (2007)					
Notice to Landholders					
1	Within a period of three months from the date of grant/renewal of this mining lease or within such further time as the Minster may allow, the lease holder must serve on each landholder a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. A adaquate plan and description of the lease area must accompany the notice. If there are ten or more landholders affected, the leaseholder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area.	ML 1580 renewal on 26 June 2023.	ML 1580 was renewed on 26 June 2023. EMM sighted letters to landowners on 12 September 2023 which was within 3 months of the renewal date.	Compliant	
Environmental Harm					
2	The proponent shall implement all practicable measure to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of the development.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Various environmental management plans	Activities carried out in accordance with various management plans designed to mitigate, monitor and manage environmental risks.	Compliant	
Mining Operations Plan					
3	(a) Mining operations must not be carried out otherwise than in accordance with: a Mining Operation Plan (MOP) which has been approved by the Director-General of the Department of Primary Industries. (b) The MOP must: (i) identify areas that will be disturbed by mining operations; (ii) detail the staging of specific mining operations; (iii) identify how the mine will be managed to allow mine closure; (iv) identify how mining operations will be carried out on site in order to prevent and or minimise harm to the environment; (v) reflect the conditions of approval under - the Environmental Planning and Assessment Act 1979 - the Protection of the Environment Operations Act 1997 - and any other approvals relevant to the development including the conditions of this lease; and (vi) have regard to any relevant guidelines adopted by the Director-General. (c) The titleholder may apply to the Director-General to amend an approved MOP at any time. (d) It is not a breach of this condition if: (i) the operations constituting the breach were necessary to comply with a lawful order of direction given under the Mining Act 1992, the Environmental Planning and Assessment Act 1979, Protection Operations Act 1997 or the Occupational Health and Safety Act 2000; and (ii) the Director-General had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out. (e) A MOP ceases to have affect 7 years after date of approval or other such period as identified by the Director-General. An approved amendment to the MOP under condition 5 does not constitute an approval for the purpose of this paragraph unless otherwise identified by the Director-General.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Environment Management Reporting					
4	The lease holder must lodge Environmental Management Reports (EMR) with the Director-General annually or at dates otherwise directed by the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
5	The EMR must: (a) report against compliance with the MOP; (b) report on progress in respect of rehabilitation completion criteria; (c) report on the extent of compliance with regulatory requirements; and (d) have regard to any relevant guidelines adopted by the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
6	Additional environmental reports may be required on specific surface disturbing operations or environmental incidents from time to time as directed in writing by the Director-General and must be lodged as instructed.	N/A	Not triggered during the IEA period.	Not triggered	
Rehabilitation					
7	Disturbed land must be rehabilitated to a sustainable/agreed end land use to the satisfaction of the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews. All Annual Reviews during the reporting period have been approved. No areas of rehabilitation were approved/signed off by the Department during the IEA period.	Compliant	
Subsidence Management					
8	(a) The lease holder shall prepare a Subsldence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface. (b) Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gateroads, installation roads· and associated main headings, etc), and pillar extractions, and are otherwise defined by the Applications for Subsidence Management Approvals guidelines (EDG17). (c) The lease holder must not commence or undertake underground mining operations that will potentially lead io subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the Coal Mine Health and Safety Act 2002, or the document New Subsidence Management Plan Approval Process - Transitional Provisions (EDP09). (d) Subsidence Management Plans are to be prepared in accordance with the Guideline for Applications for Subsidence Management Approvals. (e) Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 2 and will be subject to the Annual Environmental Management Report process as set out under Condition 3. The SMP is also subject-to the requirements for subsidence monitoring and reporting set out in the document New Approval Process for Management of Coal Mining Subsidence Policy.	Extraction Plan.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Working Requirement					
9	The lease holder must: (a) ensure that at least three (3) competent people are efficiently employed on the lease area on each week day except Sunday or any week day that is a public holiday, OR (b) expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than $542,500 per annum whilst the lease is in force. The Minister may at any time or times, by instrument in writing served on the lease holder, increase or decrease the expenditure required or the number of people to be employed.	Annual Reviews for 2021, 2022 and 2023.	At least 3 persons employed on subject area during audit period	Compliant	
Conrol of Operations					
10	(a) If an Environmental Officer of the Department believes that the lease holder is not complying with any provision of the Act or any condition of this lease relating to the working of the lease, he may direct the lease holder to: (i) cease working the lease; or (ii) cease that part of the operation not complying with the Act or conditions; until in the opinion of the Environmental Officer the situation is rectified. (b) The lease holder must comply with any direction given. The Director-General may confirm, vary or revoke any such direction. (c) A direction referred to in this condition may be served on the Mine Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1580 (2007)					
Reports					
11	The lease holder must provide an exploration report, within a period of twenty-eight days after each anniversary of the date this lease has effect or at such other date as the Director-General may stipulate, of each year. The report must be to the satisfaction of the Director-General and contain the following: (a) Full particulars, including results, interpretation and conclusions, of all exploration conducted during the twelve months period; (b) Details of expenditure incurred in conducting that exploration; (c) A summary of all geological findings acquired through mining or development evaluation activities; (d) Particulars of exploration proposed to be conducted in the next twelve months period; (e) All plans, maps, sections and other data necessary to satisfactorily interpret the report.	N/A	No exploration activities undertaken within ML1580 during audit period	Not triggered	
Licence to Use Reports					
12	(a) The lease holder grants to the Minister, by way of a non-exclusive licence, the right in copyright lo publish, print, adapt and reproduce all exploration reports lodged in any form and for the full duration of copyright. (b) The non-exclusive licence will operate as a consent for the purposes of section 365 of the Mining Act 1992.	N/A	Not triggered during the IEA period.	Not triggered	
Confidentiality					
13	(a) All exploration reports submitted in accordance with the conditions of this lease will be kepi confidential while the lease is in force, except in cases where: (i) the lease holder has agreed that specified reports may be made nonconfidential (ii) reports deal wrth exploration conducted exclusively on areas that have ceased to be part of the lease. (b) Confident1ality will be continued beyond the termination of a lease where an application for a flow-on title was lodged during the currency of the lease. The confidentiality will last until that flow-on title or any subsequent flow-on title, has terminated. (c) The Director-General may extend the period of confidentiality.	N/A	Not triggered during the IEA period.	Not triggered	
Terms of the non-exclusive licence					
14	The terms of the non-exclusive copyright licence granted under condition 12 are: (a) the Minister may sub-licence others to publish, print, adapt and reproduce but not on-licence reports (b) the Minister and any sub licensee will acknowledge the lease holder's and any identifiable consultants ownership of copyright in any reproduction of the reports, including storage of reports onto an electronic database (c) the lease holder does not warrant ownership of all copyright works in any report and, the lease holder will use best endeavours to identify those parts of the report for which the lease holder owns the copyright (d) there is no royally payable by the Minister for the licence (e) if the lease holder has reasonable grounds to believe that the Minister has exercised his rights under the non-exclusive copyright licence in a manner which adversely affects the operations of the lease holder, that licence is revocable on the giving of a period of not less than three months notice.	N/A	Not triggered during the IEA period.	Not triggered	
Safety					
16	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Site inspection Incident register	Site inspection identified appropriate fencing/signage in place. Saftey reporting procedures in place and reported as required Shafts associated with underground workings sealed/fenced	Compliant	
Exploratory Drilling					
17	(1) At least twenty eight days prior to -commencement of drilling operations the lease holder must notify the·relevant Department of Climate Change and Environment regional hydrogeologist of the intention to drill exploratory drill holes together with information on the location of the proposed holes. (2) If the lease holder drills exploratory drill holes he must satisfy the Director-General that: (a) all cored holes are accurately surveyed and permanently marked in accordance with Departmental guidelines so that their location can be easily established; (b) all holes cored or otherwise are sealed to prevent the collapse of the surrounding surface; (c) all drill holes are permanently sealed with cement plugs to prevent surface discharge of groundwaters; (d) if any drill hole meets natural or noxious gases it is plugged or sealed to prevent their escape; (e) if any drill hole meets an artesian or sub-artesian flow it is effectively sealed to prevent contamination of aquifers; (f) once any drill hole ceased to be used the hole must be sealed in accordance with Department guidelines. Alternatively, the hole must be sealed as instructed by the Director-General; (g) once any drill hole ceases to be used the land and its immediate vicinity is left in a clean, tidy and stable condition.	N/A	No exploration activities undertaken within ML1580 during audit period	Not triggered	
Prevention of Soil Erosion and Pollution					
18	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.	Site inspection Rehabilitation Management Plan	No erosional issues identified during site inspection requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
Transmission lines, Communication lines and Pipelines					
19	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions he may stipulate.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions recieved from the Resources Regulator during the audit period	Compliant	
Roads and Tracks					
21	(a) Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior written approval of the Director-General and subject to any conditions he may stipulate. (b) The lease holder must pay to the designated authority in control of the road (generally the local council or the Roads and Traffic Authority} the cost incurred in fixing any damage to roads caused by operations carried out under the lease, less any amount paid or payable from the Mine Subsidence Compensation Fund.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
Resource Recovery					
25	(a) Notwithstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered· from the lease area, or that any such minerals which are being recovered are not being recovered to the· extent which should be economically possible or which for environmental reasons are necessary to be recovered, he may give notice in writing to the lease holder requiring the holder to recover such minerals. (b) The notice shall specify the minerals to be recovered and the extent to which they are to be recovered, or the objectives in regard to resource recovery, but shall not specify the processes the lease holder shall use to achieve the specified recovery. (c) The lease holder must, when requested by the Director-General, provide such information as the Director-General may specify about the recovery of the mineral resources of the lease area. (d) The Director-General shall issue no such notice unless the mailer has firstly been thoroughly discussed with and a report to the Director-General has incorporated the views of the lease holder. (e) The lease holder may object to the requirements of any notice issued under this condition and on receipt of such an objection the Minist!c)r shalt refer it to a Warden for inquiry and report under Section 334 of the *Mining Act* , 1992. (f) After considering the Warden's report the Minister shall decide whether to withdraw, modify or maintain the requirements specified in the original·notice and shall give the lease holder written notice of the decision. The lease holder must comply with the requirements of this notice.	NA	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1580 (2007)					
Indemnity					
26	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	N/A	Not triggered during the IEA period.	Not triggered	
Security					
28	(a) A security in the sum of $10,000 must be given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under this lease. If the lease holder fails to fulfil any one or more of such obligations the said sum may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purpose of this clause the lease holder shall be deemed to have failed to fulfil the obligations of this lease if the lease holder fails to comply with any condition or provision hereof, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision hereof or of any provision of the Act or regulations made thereunder. (b) The lease holder must provide the security required by sub-clause (a) in one of the following forms: (i) cash, (ii) a security certificate in a form approved by the Minister and issued by an authorised deposit-taking institution.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1581 (2006)					
Notice to Landholders					
1	Within a period of three months from the date of grant/renewal of this mining lease or within such further time as the Minster may allow, the lease holder must serve on each landholder a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. A adaquate plan and description of the lease area must accompany the notice. If there are ten or more landholders affected, the leaseholder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Mining, Rehabilitation, Environmental Management Process (MREMP)					
Mining Operations Plan (MOP)					
2	(1) Mining operations, including mining purposes, must be conducted in accordance with a Mining Operations Plan (the Plan) satisfactory to the Director-General. The Plan together with environmental conditions of development consent and other approvals will form the basis for: (a) ongoing mining operations and environmental management; and (b) ongoing monitoring of the project. (2) The Plan must be prepared in accordance with the Director-General's guidelines current at the time of lodgement. (3) A Plan must be lodged with the Director-General: (a) prior to the commencement of operations; (b) subsequently as appropriate prior to the expiry of any current Plan; and (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b} mining and rehabilitation method(s) to be used and their sequence; (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) areas to be used for disposal of tailings/waste; (d} existing and proposed surface infrastructure; (e) progressive rehabilitation schedules; (f) areas of particular environmental sensitivity; (g) water management systems (including erosion and sediment controls); (h) proposed resource recovery; and (i) where the mine will cease extraction during the term of the Plan, a closure plan including final rehabilitation objectives/methods and post mining land use/vegetation. (5) The Plan when lodged will be reviewed by the Department of Mineral Resources. (6) The Director-General may within two (2) months of the lodgement of a Plan, require modification and relodgement. (7) If a requirement in accordance with clause (6) is not issued within two months of the lodgement of a Plan, lease holder may proceed with implementation of the Plan submitted subject to the lodgement of the required security deposit within the specified time. (8) During the life of the Mining Operations Plan, proposed modifications to the Plan must be lodged with the Director-General and will be subject to the review process outlined in (5) - (7) above.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Annual Environmental Management Report (AEMR)					
3	(1) Within 12 month of the commencement of mining operation and therefore annually or, at such other times as may be allowed by the Director-general, the lease holder must lodge an Annual Environmental Management Report (AEMR) with the Director General. (2) The AEMR must be prepared in accordance with the Director-General's guidelines current at the time of reporting and contain a review and forecast of performance for the preceding and ensuing twelve months in terms of: (a) the accepted Mining Operations Plan; (b) development consent requirements and conditions; (c) Department of Environment and Conservation and Department of Planning Licences and approvals; (d) any other statutory environmental requirements; (e) details of any variations to environmental approvals applicable to the lease area; and (f) where relevant, progress towards final rehabilitation objectives. (3) After considering an AEMR the Director-General may, by notice in writing, direct the lease holder to undertake operations, remedial actions of supplementary studies in the manner and within the period specified in the notice to ensure that operations on the lease area are conducted in accordance with sound mining and environmental practice. (4) The lease holder shall, as and when directed by the Minister, co-operate with the director-general to conduct and facilitate review of the AEMR involving other government agencies and the local council.	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	Annual reviews submitted. All Annual Reviews were approved by the Department during the IEA period.	Compliant	
Subsidence Management					
4	(a) The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface. (b) Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gateroads, installation roads and associated main headings, etc), and pillar extractions, and are otherwise defined by the Guideline for Applications for Subsidence Management Approvals. (c) The lease holder must not commence or undertake underground mining operations that will potentially lead to subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the Coal Mines Regulation Act 1982, or the document New Subsidence Management Plan Approval Process Transitional Provisions. (d) Subsidence Management Plans are to be prepared in accordance with the Guideline for Applications for Subsidence Management Approvals. (e) Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 2 and will be subject to the Annual Environmental Management Report process as set out under Condition 3. The SMP is also subject to the requirements for subsidence monitoring and reporting set out in the document New Approval Process for Management of Coal Mining Subsidence Policy.	Extraction Plan.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Control of Operations					
6	(a) If an Environmental Officer of the Department believes that the lease holder is not complying with any provision of the Act or any condition of this lease relating to the working of the lease, he may direct the lease holder to: (i) cease working the lease; or (ii) cease that part of the operation not complying with the Act or conditions; until in the opinion of the Environmental Officer the situation is rectified. (b) The lease holder must comply with any direction given. The Director General may confirm, vary or revoke any such direction. (c) A direction referred to in this condition may be served on the Mine Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1581 (2006)					
Blasting					
11	(a) Ground Vibration The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10 mm/second and does not exceed 5 mm/second in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be, unless determined otherwise by the Department of Environment and Conservation. (b) Blast Overpressure The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling or occupied premises, as the case may be, unless determined otherwise by the Department of Environment and Conservation.	N/A	No blasting activities undertaken within ML1581 during audit period	Not triggered	
Safety					
12	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Site inspection Incident register	Appropriate fencing site access/security arrnagements in place. Saftey reporting procedures in place and reported as required.	Compliant	
Rehabilitation					
13	(a) Land disturbed must be rehabilitated to a stable and permanent form suitable for a subsequent land use acceptable to the Director-General and in accordance with the Mining Operations Plan so that: • there is no adverse environmental effect outside the disturbed area and that the land is properly drained and protected from soil erosion • the state of the land is compatible with the surrounding land and land use requirements • the landforms, soils, hydrology and flora require no greater maintenance than that in the surrounding land • in cases where revegetation is required and native vegetation has been removed or damaged, the original species must be reestablished with close reference to the flora survey included in the Mining Operations Plan. If the original vegetation was not native, any re-established vegetation must be appropriate to the area and at an acceptable density • the land does not pose a threat to public safety. (b) Any topsoil that is removed must be stored and maintained in a manner acceptable to the Director-General.	Rehabilitation Management Plan Annual Reviews (2021, 2022, 2023) Site inspection	Rehabilitation undertaken in accordance with approved Rehabilitation Management Plan with outcomes reported in the annual review. Rehabiliation monitring undertaken to monitor rehabilitation outcomes to ensure a trajectory towards achieving the Rehabilitation Management Plan completion criteria.	Compliant	
14	The lease holder must comply with any direction given by the Director-General regarding the stabilisation and revegetation of any mine residues, tailings or overburden dumps situated on the lease area.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
Prevention of Soil Erosion and Pollution					
16	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.	Site inspection Rehabilitation Management Plan	No erosional issues identified during site inspection requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
Transmission lines, Communication lines and Pipelines					
17	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions he may stipulate.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions recieved from the Resources Regulator during the audit period	Compliant	
Fences, Gates					
18	(a) Activities on the lease must not interfere with or damage fences without the prior written approval of the owner thereof or the Minister and subject to any conditions the Minister may stipulate. (b) Gates within the lease area must be closed or left open in accordance with the requirements of the landholder.	N/A	No impacts to fencing requing landowner or Miister consent during the audit period	Not triggered	
Roads and Tracks					
19	(a) Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior written approval of the Director-General and subject to any conditions he may stipulate. (b) The lease holder must pay to the designated authority in control of the road (generally the local council or the Roads and Traffic Authority) the cost incurred in fixing any damage to roads caused by operations carried out under the lease, less any amount paid or payable from the Mine Subsidence Compensation Fund.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
20	Access tracks must be kept to a minimum and be positioned so that they do not cause any unnecessary damage to the land. Temporary access tracks must be ripped, topsoiled and revegetated as soon as possible after they are no longer required for mining operations. The design and construction of access tracks must be in accordance with specifications fixed by the Department of Infrastructure, Planning and Natural Resources.	Site inspection	Minimal access tracks on site outside operational areas. Access track are maintained. No access tracks identified as causing environmental harm. Surface disturbance notice procedures implemented for establishement of any new access tracks required.	Compliant	
Trees and Timber					
21	(a) The lease holder must not fell trees, strip bark or cut timber on the lease without the consent of the landholder who is entitled to the use of the timber, or if such a landholder refuses consent or attaches unreasonable conditions to the consent, without the approval of a warden. (b) The lease holder must not cut, destroy, ringbark or remove any timber or other vegetative cover on the lease area except such as directly obstructs or prevents the carrying on of operations. Any clearing not authorised under the Mining Act 1992 must comply with the provisions of the Native Vegetation Conservation Act 1997. (c) The lease holder must obtain all necessary approvals or licences before using timber from any Crown land within the lease area.	N/A	Not triggered during the IEA period.	Not triggered	
Indemnity					
24	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	N/A	Not triggered during the IEA period.	Not triggered	
Single Security (extended)					
26	(a) The single security given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under MLs 1398, 1416, 1477, 1495, 1506 and 1564 is extended to apply to this lease. (b) If the lease holder fails to fulfil any one or more of the obligations under this lease, then the security held may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purpose of this clause the lease holder shall be deemed to have failed to fulfil the obligations of the lease if the lease holder fails to comply with any condition or provision hereof, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision hereof or of any provision of the Act or regulations made thereunder.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1591 (2007)					
Notice to Landholders					
1	Within a period of three months from the date of grant/renewal of this mining lease or within such further time as the Minster may allow, the lease holder must serve on each landholder a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. A adaquate plan and description of the lease area must accompany the notice. If there are ten or more landholders affected, the leaseholder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Mining, Rehabilitation, Environmental Management Process (MREMP)					
Mining Operations Plan (MOP)					
2	(1) Mining operations, including mining purposes, must be conducted in accordance with a Mining Operations Plan (the Plan) satisfactory to the Director-General. The Plan together with environmental conditions of development consent and other approvals will form the basis for: (a) ongoing mining operations and environmental management; and (b) ongoing monitoring of the project. (2) The Plan must be prepared in accordance with the Director-General's guidelines current at the time of lodgement. (3) A Plan must be lodged with the Director-General: (a) prior to the commencement of operations; (b) subsequently as appropriate prior to the expiry of any current Plan; and (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) areas to be used for disposal of tailings/waste; (d) existing and proposed surface infrastructure; (e) progressive rehabilitation schedules; (f) areas of particular environmental sensitivity; · (g) water management systems (including erosion and sediment controls); (h) proposed resource recovery; and (i) where the mine will cease extraction during the term of the Plan, a closure plan including final rehabilitation objectives/methods and post mining land use/vegetation. (5) The Plan when lodged will be reviewed by the Department of Mineral Resources. (6) The Director-General may within two (2) months of the lodgement of a Plan, require modification and relodgement. (7) If a requirement in accordance with clause (6) is not issued within two months of the lodgement of a Plan, lease holder may proceed with implementation of the Plan submitted subject to the lodgement of the required security deposit within the specified time. (8) During the life of the Mining Operations Plan, proposed modifications to the Plan must be lodged with the Director-General and will be subject to the review process outlined in (5) - (7) above.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Annual Environmental Management Report (AEMR)					
3	(1) Within 12 month of the commencement of mining operation and therefore annually or, at such other times as may be allowed by the Director-general, the lease holder must lodge an Annual Environmental Management Report (AEMR) with the Director General. (2) The AEMR must be prepared in accordance with the Director-General's guidelines current at the time of reporting and contain a review and forecast of performance for the preceding and ensuing twelve months in terms of: (a) the accepted Mining Operations Plan; (b) development consent requirements and conditions; (c) Department of Environment and Conservation and Department of Planning Licences and approvals; (d) any other statutory environmental requirements; (e) details of any variations to environmental approvals applicable to the lease area; and (f) where relevant, progress towards final rehabilitation objectives. (3) After considering an AEMR the Director-General may, by notice in writing, direct the lease holder to undertake operations, remedial actions of supplementary studies in the manner and within the period specified in the notice to ensure that operations on the lease area are conducted in accordance with sound mining and environmental practice. (4) The lease holder shall, as and when directed by the Minister, co-operate with the director-general to conduct and facilitate review of the AEMR involving other government agencies and the local council.	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	All Annual Reviews were approved by the Department during the audit period.	Compliant	
Control of Operations					
6	(a) If an Environmental Officer of the Department believes that the lease holder is not complying with any provision of the Act or any condition of this lease relating to the working of the lease, he may direct the lease holder to: (i) cease working the lease; or (ii) cease that part of the operation not complying with the Act or conditions; until in the opinion of the Environmental Officer the situation is rectified. (b) The lease holder must comply with any direction given. The Director General may confirm, vary or revoke any such direction. (c) A direction referred to in this condition may be served on the Mine Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
Safety					
12	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Site inspection Incident register	Site inspection identified appropriate fencing/signage in place. Saftey reporting procedures in place and reported as required Shafts associated with underground workings sealed/fenced	Compliant	
Rehabilitation					
13	(a) Land disturbed must be rehabilitated to a stable and permanent form suitable for a subsequent land use acceptable to the Director-General and in accordance with the Mining Operations Plan so that: • there is no adverse environmental effect outside the disturbed area and that the land is properly drained and protected from soil erosion • the state of the land is compatible with the surrounding land and land use requirements • the landforms, soils, hydrology and flora require no greater maintenance than that in the surrounding land • in cases where revegetation is required and native vegetation has been removed or damaged, the original species must be reestablished with close reference to the flora survey included in the Mining Operations Plan. If the original vegetation was not native, any re-established vegetation must be appropriate to the area and at an acceptable density • the land does not pose a threat to public safety. (b) Any topsoil that is removed must be stored and maintained in a manner acceptable to the Director-General.	Rehabilitation Management Plan Annual Reviews (2021, 2022, 2023) Site inspection	Rehabilitation undertaken in accordance with approved ehabilitation Management Plan with outcomes reported in the annual review. Rehabiliation monitring undertaken to monitor rehabilitation outcomes to ensure a trajectory towards achieving the Rehabilitation Management Plan completion criteria.	Compliant	
14	The lease holder must comply with any direction given by the Director-General regarding the stabilisation and revegetation of any mine residues, tailings or overburden dumps situated on the lease area.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1591 (2007)					
Prevention of Soil Erosion and Pollution					
16	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.	Site inspection Rehabilitation Management Plan	No erosion issues identified during site inspection requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
Transmission lines, Communication lines and Pipelines					
17	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions he may stipulate.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions recieved from the Resources Regulator during the audit period	Compliant	
Fences, Gates					
18	(a) Activities on the lease must not interfere with or damage fences without the prior written approval of the owner thereof or the Minister and subject to any conditions the Minister may stipulate. (b) Gates within the lease area must be closed or left open in accordance with the requirements of the landholder.	N/A	Operations did not interfere with any fencing during the audit period that required landowner or Minister	Not triggered	
Roads and Tracks					
19	(a) Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior written approval of the Director-General and subject to any conditions he may stipulate. (b) The lease holder must pay to the designated authority in control of the road (generally the local council or the Roads and Traffic Authority) the cost incurred in fixing any damage to roads caused by operations carried out under the lease, less any amount paid or payable from the Mine Subsidence Compensation Fund.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
20	Access tracks must be kept to a minimum and be positioned so that they do not cause any unnecessary damage to the land. Temporary access tracks must be ripped, topsoiled and revegetated as soon as possible after they are no longer required for mining operations. The design and construction of access tracks must be in accordance with specifications fixed by the Department of Infrastructure, Planning and Natural Resources.	Site inspection	Minimal access tracks on site outside operational areas. Access track are maintained. No access tracks identified as causing environmental harm. Surface disturbance notice procedures implemented for establishement of any new access tracks required.	Compliant	
Trees and Timber					
21	(a) The lease holder must not fell trees, strip bark or cut timber on the lease without the consent of the landholder who is entitled to the use of the timber, or if such a landholder refuses consent or attaches unreasonable conditions to the consent, without the approval of a warden. (b) The lease holder must not cut, destroy, ringbark or remove any timber or other vegetative cover on the lease area except such as directly obstructs or prevents the carrying on of operations. Any clearing not authorised under the Mining Act 1992 must comply with the provisions of the Native Vegetation Conservation Act 1997. (c) The lease holder must obtain all necessary approvals or licences before using timber from any Crown land within the lease area.	N/A	Not triggered during the IEA period.	Not triggered	
Indemnity					
24	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	N/A	Not triggered during the IEA period.	Not triggered	
Security					
Single Security (extended)					
26	(a) The single security given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under Mining Leases 1477, 1506, 1416, 1398, 1495, 1564 and 1581 (Act 1992) is extended to apply to this lease. (b) If the lease holder fails to fulfil any one or more of the obligations under this lease, then the security held may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purpose of this clause the lease holder shall be deemed to have failed to fulfil the obligations of the lease if the lease holder fails to comply with any condition or provision hereof, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision hereof or of any provision of the Act or regulations made thereunder.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1595 (2007)					
Notice to Landholders					
1	Within a period of three months from the date of grant/renewal of this mining lease or within such further time as the Minster may allow, the lease holder must serve on each landholder a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. A adaquate plan and description of the lease area must accompany the notice. If there are ten or more landholders affected, the leaseholder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Mining, Rehabilitation, Environmental Management Process (MREMP)					
Mining Operations Plan (MOP)					
2	(1) Mining operations, including mining purposes, must be conducted in accordance with a Mining Operations Plan (the Plan) satisfactory to the Director-General. The Plan together with environmental conditions of development consent and other approvals will form the basis for: (a) ongoing mining operations and environmental management; and (b) ongoing monitoring of the project. (2) The Plan must be prepared in accordance with the Director-General's guidelines current at the time of lodgement. (3) A Plan must be lodged with the Director-General: (a) prior to the commencement of operations; (b) subsequently as appropriate prior to the expiry of any current Plan; and (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) in accordance with any direction issued by the Director-General. (4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify: (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) areas to be used for disposal of tailings/waste; (d) existing and proposed surface infrastructure; (e) progressive rehabilitation schedules; (f) areas of particular environmental sensitivity; · (g) water management systems (including erosion and sediment controls); (h) proposed resource recovery; and (i) where the mine will cease extraction during the term of the Plan, a closure plan including final rehabilitation objectives/methods and post mining land use/vegetation. (5) The Plan when lodged will be reviewed by the Department of Mineral Resources. (6) The Director-General may within two (2) months of the lodgement of a Plan, require modification and relodgement. (7) If a requirement in accordance with clause (6) is not issued within two months of the lodgement of a Plan, lease holder may proceed with implementation of the Plan submitted subject to the lodgement of the required security deposit within the specified time. (8) During the life of the Mining Operations Plan, proposed modifications to the Plan must be lodged with the Director-General and will be subject to the review process outlined in (5) - (7) above.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Annual Environmental Management Report (AEMR)					
3	(1) Within 12 month of the commencement of mining operation and therefore annually or, at such other times as may be allowed by the Director-general, the lease holder must lodge an Annual Environmental Management Report (AEMR) with the Director General. (2) The AEMR must be prepared in accordance with the Director-General's guidelines current at the time of reporting and contain a review and forecast of performance for the preceding and ensuing twelve months in terms of: (a) the accepted Mining Operations Plan; (b) development consent requirements and conditions; (c) Department of Environment and Conservation and Department of Planning Licences and approvals; (d) any other statutory environmental requirements; (e) details of any variations to environmental approvals applicable to the lease area; and (f) where relevant, progress towards final rehabilitation objectives. (3) After considering an AEMR the Director-General may, by notice in writing, direct the lease holder to undertake operations, remedial actions of supplementary studies in the manner and within the period specified in the notice to ensure that operations on the lease area are conducted in accordance with sound mining and environmental practice. (4) The lease holder shall, as and when directed by the Minister, co-operate with the director-general to conduct and facilitate review of the AEMR involving other government agencies and the local council.	Annual Reviews for 2021, 2022 and 2023. Annual Returns.	Annual Reviews prepared. All Annual Reviews were approved by the Department during the IEA period.	Compliant	
Control of Operations					
6	(a) If an Environmental Officer of the Department believes that the lease holder is not complying with any provision of the Act or any condition of this lease relating to the working of the lease, he may direct the lease holder to: (i) cease working the lease; or (ii) cease that part of the operation not complying with the Act or conditions; until in the opinion of the Environmental Officer the situation is rectified. (b) The lease holder must comply with any direction given. The Director General may confirm, vary or revoke any such direction. (c) A direction referred to in this condition may be served on the Mine Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
Blasting					
11	(a) <u>Ground Vibration</u> The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10 mm/second and does not exceed 5 mm/second in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be, unless determined otherwise by the Department of Environment and Co Conservation. (b) <u>Blast Overpressure</u> The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling or occupied premises, as the case may be, unless determined otherwise by the Department of Environment and Conservation.	N/A	No blasting within ML1595 during audit period	Not triggered	
Safety					
12	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Site inspection Incident register	Appropriate fencing/signage security and access restircition in place. Saftey reporting procedures in place and reported as required	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1595 (2007)					
Rehabilitation					
13	(a) Land disturbed must be rehabilitated to a stable and permanent form suitable for a subsequent land use acceptable to the Director-General and in accordance with the Mining Operations Plan so that: • there is no adverse environmental effect outside the disturbed area and that the land is properly drained and protected from soil erosion • the state of the land is compatible with the surrounding land and land use requirements • the landforms, soils, hydrology and flora require no greater maintenance than that in the surrounding land • in cases where revegetation is required and native vegetation has been removed or damaged, the original species must be reestablished with close reference to the flora survey included in the Mining Operations Plan. If the original vegetation was not native, any re-established vegetation must be appropriate to the area and at an acceptable density • the land does not pose a threat to public safety. (b) Any topsoil that is removed must be stored and maintained in a manner acceptable to the Director-General.	Rehabilitation Management Plan Annual Reviews (2021, 2022, 2023) Site inspection	Rehabilitation undertaken in accordance with approved Rehabilitation Management Plan with outcomes reported in the annual review. Rehabiliation monitring undertaken to monitor rehabilitation outcomes to ensure a trajectory towards achieving the Rehabilitation Management Plan completion criteria.	Compliant	
14	The lease holder must comply with any direction given by the Director-General regarding the stabilisation and revegetation of any mine residues, tailings or overburden dumps situated on the lease area.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
Prevention of Soil Erosion and Pollution					
16	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.	Site inspection Rehabilitation Management Plan	No erosional issues identified during site inspection requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
Transmission lines, Communication lines and Pipelines					
17	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions he may stipulate.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions recieved from the Resources Regulator during the audit period	Compliant	
Fences, Gates					
18	(a) Activities on the lease must not interfere with or damage fences without the prior written approval of the owner thereof or the Minister and subject to any conditions the Minister may stipulate. (b) Gates within the lease area must be closed or left open in accordance with the requirements of the landholder.	N/A	Bi impacts to fencing requiring landowner Minister approval during audit period.	Not triggered	
Roads and Tracks					
19	(a) Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior written approval of the Director-General and subject to any conditions he may stipulate. (b) The lease holder must pay to the designated authority in control of the road (generally the local council or the Roads and Traffic Authority) the cost incurred in fixing any damage to roads caused by operations carried out under the lease, less any amount paid or payable from the Mine Subsidence Compensation Fund.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
20	Access tracks must be kept to a minimum and be positioned so that they do not cause any unnecessary damage to the land. Temporary access tracks must be ripped, topsoiled and revegetated as soon as possible after they are no longer required for mining operations. The design and construction of access tracks must be in accordance with specifications fixed by the Department of Infrastructure, Planning and Natural Resources.	Site inspection	Minimal access tracks. Access track are maintained. No access tracks identified as causing environmental harm. Surface disturbance notice procedures implemented for establishement of any new access tracks required.	Compliant	
Trees and Timber					
21	(a) The lease holder must not fell trees, strip bark or cut timber on the lease without the consent of the landholder who is entitled to the use of the timber, or if such a landholder refuses consent or attaches unreasonable conditions to the consent, without the approval of a warden. (b) The lease holder must not cut, destroy, ringbark or remove any timber or other vegetative cover on the lease area except such as directly obstructs or prevents the carrying on of operations. Any clearing not authorised under the Mining Act 1992 must comply with the provisions of the Native Vegetation Conservation Act 1997. (c) The lease holder must obtain all necessary approvals or licences before using timber from any Crown land within the lease area.	N/A	Not triggered during the IEA period.	Not triggered	
Indemnity					
24	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	N/A	Not triggered during the IEA period.	Not triggered	
Single Security (extended)					
26	(a) The single security given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under Mining Lease 1398 (Act 1992), Mining Lease 1416 (Act 1992), Mining Lease 1477 (Act 1992), Mining Lease 1495 (Act 1992), Mining Lease 1506 (Act 1992), Mining Lease 1564 (Act 1992) and Mining Lease 1581 (Act 1992) is extended to apply to this lease. (b) If the lease holder fails to fulfil any one or more of the obligations under this lease, then the security held may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purpose of this clause the lease holder shall be deemed to have failed to fulfil the obligations of the lease if the lease holder fails to comply with any condition or provision hereof, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision hereof or of any provision of the Act or regulations made thereunder.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1625 (2008)					
Notice to Landholders					
1	Within a period of three months from the date of grant/renewal of this mining lease or within such further time as the Minster may allow, the lease holder must serve on each landholder a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. A adaquate plan and description of the lease area must accompany the notice. If there are ten or more landholders affected, the leaseholder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Environmental Harm					
2	The proponent shall implement all practicable measure to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of the development.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Various environmental management plans	Activities carried out in accordance with various management plans designed to mitigate, monitor and manage environmental risks.	Compliant	
Mining Operations Plan					
3	(a) Mining operations must not be carried out otherwise than in accordance with: a Mining Operation Plan (MOP) which has been approved by the Director-General of the Department of Primary Industries. (b) The MOP must: (i) identify areas that will be disturbed by mining operations; (ii) detail the staging of specific mining operations; (iii) identify how the mine will be managed to allow mine closure; (iv) identify how mining operations will be carried out on site in order to prevent and or minimise harm to the environment; (v) reflect the conditions of approval under - the Environmental Planning and Assessment Act 1979 - the Protection of the Environment Operations Act 1997 - and any other approvals relevant to the development including the conditions of this lease; and (vi) have regard to any relevant guidelines adopted by the Director-General. (c) The titleholder may apply to the Director-General to amend an approved MOP at any time. (d) It is not a breach of this condition if: (i) the operations constituting the breach were necessary to comply with a lawful order of direction given under the Mining Act 1992, the Environmental Planning and Assessment Act 1979, Protection Operations Act 1997 or the Occupational Health and Safety Act 2000; and (ii) the Director-General had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out. (e) A MOP ceases to have affect 7 years after date of approval or other such period as identified by the Director-General. An approved amendment to the MOP under condition 5 does not constitute an approval for the purpose of this paragraph unless otherwise identified by the Director-General.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Environment Management Reporting					
4	The lease holder must lodge Environmental Management Reports (EMR) with the Director-General annually or at dates otherwise directed by the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
5	The EMR must: (a) report against compliance with the MOP; (b) report on progress in respect of rehabilitation completion criteria; (c) report on the extent of compliance with regulatory requirements; and (d) have regard to any relevant guidelines adopted by the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
6	Additional environmental reports may be required on specific surface disturbing operations or environmental incidents from time to time as directed in writing by the Director-General and must be lodged as instructed.	N/A	Not triggered during the IEA period.	Not triggered	
Rehabilitation					
7	Disturbed land must be rehabilitated to a sustainable/agreed end land use to the satisfaction of the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews. All Annual Reviews during the reporting period have been approved. No areas of rehabilitation were approved/signed off by the Department during the IEA period.	Compliant	
Conrol of Operations					
10	(a) If an Environmental Officer of the Department believes that the lease holder is not complying with any provision of the Act or any condition of this lease relating to the working of the lease, he may direct the lease holder to: (i) cease working the lease; or (ii) cease that part of the operation not complying with the Act or conditions; until in the opinion of the Environmental Officer the situation is rectified. (b) The lease holder must comply with any direction given. The Director-General may confirm, vary or revoke any such direction. (c) A direction referred to in this condition may be served on the Mine Manager.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
Blasting					
15	(a) <u>Ground Vibration</u> The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10 mm/second and does not exceed 5 mm/second in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be, unless determined otherwise by the Department of Environment and Conservation. (b) <u>Blast Overpressure</u> The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling or occupied premises, as the case may be, unless determined otherwise by the Department of Environment and Conservation.	N/A	No blasting activities within ML1625 during audit period	Not triggered	
Safety					
16	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Site inspection Incident register	Appropriate fencing/signage/site access restrictions in place. Safety reporting procedures in place and incidents reported as required	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1625 (2008)					
Exploratory Drilling					
17	(a) At least twenty eight days prior to commencement of drilling operations the lease holder must notify the relevant Department of Climate Change and Environment regional hydrologist of the intention to drill exploratory drill holes together with information on the location of the proposed holes. (b) If the lease holder drills exploratory drill holes he must satisfy the Director-General that: (i) all cored holes are accurately surveyed and permanently marked in accordance with Departmental guidelines so that their location can be easily established; (ii) all holes cored or otherwise are sealed to prevent the collapse of the surrounding surface; (iii) all drill holes are permanently sealed with cement plugs to prevent surface discharge of groundwaters; (iv) if any drill hole meets natural or noxious gases it is plugged or sealed to prevent their escape; (v) if any drill hole meets an artesian or sub-artesian flow it is effectively sealed to prevent contamination of aquifers; (vi) once any drill hole ceased to be used the hole must be sealed in accordance with Department guidelines. Alternatively, the hole must be sealed as instructed by the Director-General; (vii) once any drill hole ceases to be used the land and its immediate vicinity is left in a clean, tidy and stable condition.	N/A	No exploration activities undertaken within ML1625 during audit period	Not triggered	
Prevention of Soil Erosion and Pollution					
18	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.	Site inspection Rehabilitation Management Plan	Erosion contols sighted. No issues identified requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
Transmission lines, Communication lines and Pipelines					
19	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions he may stipulate.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions recieved from the Resources Regulator during the audit period	Compliant	
Fences, gates					
20	(a) Activities on the lease must not interfere with or damage fences without the prior written approval of the owner thereof or the Minister and subject to any conditions the Minister may stipulate. (b) Gates within the lease area must be closed or left open in accordance with the requirements of the landholder.	N/A		Not triggered	
Roads and Tracks					
21	(a) Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior written approval of the Director-General and subject to any conditions he may stipulate. (b) The lease holder must pay to the designated authority in control of the road (generally the local council or the Roads and Traffic Authority) the cost incurred in fixing any damage to roads caused by operations carried out under the lease, less any amount paid or payable from the Mine Subsidence Compensation Fund.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
22	Access tracks must be kept to a minimum and be positioned so that they do not cause any unnecessary damage to the land. Temporary access tracks must be ripped, topsoiled and revegetated as soon as possible after they are no longer required for mining operations. The design and construction of access tracks must be in accordance with specifications fixed by the Department of Environment and Climate Change.	Site inspection	Minimal access tracks on site outside operational areas. Access track are maintained. No access tracks identified as causing environmental harm. Surface disturbance notice procedures implemented for establishement of any new access tracks required.	Compliant	
Trees and Timber					
23	(a) The lease holder must not fell trees, strip bark or cut timber on the lease without the consent of the landholder who is entitled to the use of the timber, or if such a landholder refuses consent or attaches unreasonable conditions to the consent, without the approval of a warden. (b) The lease holder must not cut, destroy, ringbark or remove any timber or other vegetative cover on the lease area except such as directly obstructs or prevents the carrying on of operations. Any clearing not authorised under the Mining Act 1992 must comply with the provisions of the Native Vegetation Conservation Act 1997. (c) The lease holder must obtain all necessary approvals or licences before using timber from any Crown land within the lease area.	N/A	Not triggered during the IEA period.	Not triggered	
Indemnity					
26	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	N/A	Not triggered during the IEA period.	Not triggered	
Security					
27	(a) A security in the sum of $160,000 must be given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under this lease. If the lease holder fails to fulfil any one or more of such obligations the said sum may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purpose of this clause the lease holder shall be deemed to have failed to fulfil the obligations of this lease if the lease holder fails to comply with any condition or provision hereof, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision hereof or of any provision of the Act or regulations made thereunder. (b) The lease holder must provide the security required by sub-clause (a) in one of the following forms: (i) cash, (ii) a security certificate in a form approved by the Minister and issued by an authorised deposit-taking institution.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1667 (2012)					
Notice to Landholders					
1	(a) Within a period of three months from the date of grant/renewal of this mining lease or within such further time as the Minster may allow, the lease holder must serve on each landholder a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. A adaquate plan and description of the lease area must accompany the notice. (b) If there are ten or more landholders affected, the leaseholder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area.	ML 1667 renewal on 18 July 2023.	ML 1667 was renewed on 18 July 2023. EMM sighted letters to landowners on 20 September 2023 which was within 3 months of the renewal date.	Compliant	
Environmental Harm					
2	(a) The lease holder must implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of any activities under this lease. (b) For the purposes of this condition: (i) environment means components of the earth, including: (A) land, air and water, and (B) any layer of the atmosphere, and (C) any organic or inorganic matter and any living organism, and (D) human-made or modified structures and areas, and includes interacting natural ecosystems that include components referred to in paragraphs(A)-(C). (ii) harm to the environment includes any direct or indirect alteration of the environment that has the effect of degrading the environment and, without limiting the generality of the above, includes any act or omission that results in pollution, contributes to the extinction or degradation of any threatened species, populations or ecological communities and their habitats and causes impacts to places, objects and features of significance to Aboriginal people.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Various environmental management plans	Activities carried out in accordance with various management plans designed to mitigate, monitor and manage environmental risks.	Compliant	
Mining Operations Plan					
3	(a) Mining operations must not be carried out otherwise than in accordance with: a Mining Operation Plan (MOP) which has been approved by the Director-General. (b) The MOP must: (i) identify areas that will be disturbed by mining operations; (ii) detail the staging of specific mining operations; (iii) identify how the mine will be managed to allow mine closure; (iv) identify how mining operations will be carried out on site in order to prevent and or minimise harm to the environment; (v) reflect the conditions of approval under - the Environmental Planning and Assessment Act 1979 - the Protection of the Environment Operations Act 1997 - and any other approvals relevant to the development including the conditions of this lease; and - have regard to any relevant guidelines adopted by the Director-General. (c) The leaseholder may apply to the Director-General to amend an approved MOP at any time. (d) It is not a breach of this condition if: (i) the operations constituting the breach were necessary to comply with a lawful order or direction given under the Mining Act 1992, the Environmental Planning and Assessment Act 1979, Protection of the Environment Operations Act 1997, Mine Health and Safety Act 2004 / Coal Mine Health and Safety Act 2002 and Mine Health and Safety Regulation 2007 / Coal Mine Health and Safety Regulation 2006 or the Occupational Health and Safety Act 2000; and (ii) the Director-General had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out (e) A MOP ceases to have effect 7 years after date of approval or other such period as identified by the Director-General.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Environment Management Report					
4	(a)The lease holder must lodge Environmental Management Reports (EMR) with theDirector-General annually or at dates otherwise directed by the Director-General. (b) The EMR must: (i) report against compliance with the MOP; (ii) report on progress in respect of rehabilitation completion criteria; (iii) report on the extent of compliance with regulatory requirements; and (iv) have regard to any relevant guidelines adopted by the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Environmental Incident Report					
5	(a) The lease holder must report any environmental incidents. The report must: (i) be prepared according to any relevant Departmental guidelines; (ii) be submitted within 24 hours of the environmental incident occurring. (b) For the purposes of this condition, environmental incident includes: (i) any incident causing or threatening material harm to the environment; (ii) any breach of Conditions 1 to 9 and 11 to 24; (iii) any breach of environment protection legislation; or (iv) a serious complaint from landholders or the public. (c) For the purposes of this condition, harm to the environment is material if: (i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial; or (ii) it results in actual or potential loss or property damage of an amount; or (iii) amounts in aggregate, exceeding $10,000, where loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.	NA	During the site interviews, Ravensworth Operations confirmed that they had immediately notified DPHI (and any other relevant agencies) after becoming aware of an incident via the Major Projects Website.	Compliant	
Additional Environmental Reports					
6	Additional environmental reports may be required from time to time as directed in writing by the Director-General and must be lodged as instructed.	N/A	Not triggered during the IEA period.	Not triggered	
Rehabilitation					
7	Any disturbance as a result of activities under this lease must be rehabilitated to the satisfaction of the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews. All Annual Reviews during the reporting period have been approved. No areas of rehabilitation were approved/signed off by the Department during the IEA period.	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1667 (2012)					
Subidence Management					
8	(a) The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface. (b) Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gateroads, installation roads and associated main headings, etc), and pillar extractions, and are otherwise defined by the Applications for Subsidence Management Approvals guidelines (EOG 17). (c) The lease holder must not commence or undertake underground mining operations that will potentially lead to subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the Coal Mine Health & Safety Act 2002, or the document New Subsidence Management Plan Approval Process - Transitional Provisions (EDP09). (d) Subsidence Management Plans are to be prepared in accordance with the Guideline for Applications for Subsidence Management Approvals. (e) Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 3 and will be subject to the Environmental Management Report process as set out under Condition 4. The SMP is also subject to the requirements for subsidence monitoring and reporting set out in the document New Approval Process for Management of Coal Mining Subsidence Policy.	Extraction Plan.	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Working Requirement					
9	The lease holder must: (a) ensure that at least three (3) competent people are efficiently employed in relation to the mining process or mining operations on the lease area; OR (b) expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than $52,500 per annum whilst the lease is in force. The Minister may at any time or times, by instrument in writing served on the lease holder, increase or decrease the expenditure required or the number of people to be employed.	Annual Reviews for 2021, 2022 and 2023.	At least 3 persons employed on subject area during audit period	Compliant	
Safety					
11	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be notified in writing to the Department and filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Site inspection Incident register	Site inspection identified appropriate fencing/signage in place. Saftey reporting procedures in place and reported as required Shafts associated with underground workings sealed/fenced	Compliant	
Prevention of soil erosion and pollution					
12	Prospecting operations must be carried out in a manner that does not cause or aggravate air pollution, water (including groundwater) pollution, soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan.	Site inspection Rehabilitation Management Plan	No erosion issues identified during site inspection requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan.	Compliant	
Transmission lines, Communication lines and Pipelines					
13	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions stipulated.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions recieved from the Resources Regulator during the audit period	Compliant	
Roads and Tracks					
14	(a) The lease holder must pay to the relevant roads authority in control of the road or track the reasonable costs incurred by the roads authority in making good any damage to roads or tracks caused by operations carried out under this lease less any amount paid or payable from the Mine Subsidence Compensation Fund. (b) During wet weather the use of any road or track must be restricted so as to prevent damage to the road or track. (c) Existing access tracks should be used for all operations where reasonably practicable. New access tracks must be kept to a minimum and be positioned in order to minimise damage to the land, watercourses or vegetation. (d) Temporary access tracks must be rehabilitated and revegetated to the satisfaction of the Director-General as soon as reasonably practicable after they are no longer required under this lease.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
Resource Recovery					
17	(a) Notwithstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered from the lease area, or that any such minerals which are being recovered are not being recovered to the extent which should be economically possible or which for environmental reasons are necessary to be recovered, notice in writing to the lease holder may be given requiring the holder to recover such minerals. (b) The notice shall specify the minerals to be recovered and the extent to which they are to be recovered, or the objectives in regard to resource recovery, but shall not specify the processes the lease holder shall use to achieve the specified recovery. (c) The lease holder must, when requested by the Director-General, provide such information as the Director-General may specify about the recovery of the mineral resources of the lease area.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
Indemnity					
18	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	N/A	Not triggered during the IEA period.	Not triggered	
Suspension of Mining Operations					
23	The holder of a mining lease may not suspend mining operations in the mining area other than in accordance with the consent of the Minister.	N/A	Mining was not suspended during the IEA period.	Not triggered	
Cooperation Agreement					
24	The lease holder must make every reasonable attempt, and be able to demonstrate their attempts, to enter into a cooperation agreement with the holder(s) of any overlapping title(s). The cooperation agreement should address but not be limited to issues such as: • access arrangements • operational interaction procedures • dispute resolution • information exchange • well location • timing of drilling • potential resource extraction conflicts and • rehabilitation issues.	Cooperation agreement	Cooperation agreements were already in place prior to the IEA period.	Not triggered	
	Note: Exploration Reports (Geological and Geophysical) *The lease holder must lodge reports to the satisfaction of the Director-General in accordance with section 163C of the Mining Act 1992 and in accordance with clause 57 of the Mining Regulation 2010.* *Reports must be prepared in accordance with Exploration Reporting: A guide for reporting on exploration and prospecting in New South Wales (Department of Trade and Investment; Regional Infrastructure and Services 2010).*	N/A	Not triggered during the IEA period.	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1668 (2012)					
Notice to Landholders					
1	(a) Within a period of three months from the date of grant/renewal of this mining lease or within such further time as the Minster may allow, the lease holder must serve on each landholder a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. A adaquate plan and description of the lease area must accompany the notice. (b) If there are ten or more landholders affected, the leaseholder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area.	Notification letter and email	EMM sighted an email and notification letter to AGL on 23/24 November 2022 following the renewal of ML 1668 on 30 August 2022.	Compliant	
Environmental Harm					
2	(a) The lease holder must implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of any activities under this lease. (b) For the purposes of this condition: (i) environment means components of the earth, including: (A) land, air and water, and (B) any layer of the atmosphere, and (C) any organic or inorganic matter and any living organism, and (D) human-made or modified structures and areas, and includes interacting natural ecosystems that include components referred to in paragraphs(A)-(C). (ii) harm to the environment includes any direct or indirect alteration of the environment that has the effect of degrading the environment and, without limiting the generality of the above, includes any act or omission that results in pollution, contributes to the extinction or degradation of any threatened species, populations or ecological communities and their habitats and causes impacts to places, objects and features of significance to Aboriginal people.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Various environmental management plans	Activities carried out in accordance with various management plans designed to mitigate, monitor and manage environmental risks.	Compliant	
Mining Operations Plan					
3	(a) Mining operations must not be carried out otherwise than in accordance with: a Mining Operation Plan (MOP) which has been approved by the Director-General. (b) The MOP must: (i) identify areas that will be disturbed by mining operations; (ii) detail the staging of specific mining operations; (iii) identify how the mine will be managed to allow mine closure; (iv) identify how mining operations will be carried out on site in order to prevent and or minimise harm to the environment; (v) reflect the conditions of approval under - the Environmental Planning and Assessment Act 1979 - the Protection of the Environment Operations Act 1997 - and any other approvals relevant to the development including the conditions of this lease; and - have regard to any relevant guidelines adopted by the Director-General. (c) The leaseholder may apply to the Director-General to amend an approved MOP at any time. (d) It is not a breach of this condition if: (i) the operations constituting the breach were necessary to comply with a lawful order or direction given under the Mining Act 1992, the Environmental Planning and Assessment Act 1979, Protection of the Environment Operations Act 1997, Mine Health and Safety Act 2004 / Coal Mine Health and Safety Act 2002 and Mine Health and Safety Regulation 2007 / Coal Mine Health and Safety Regulation 2006 or the Occupational Health and Safety Act 2000; and (ii) the Director-General had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out (e) A MOP ceases to have effect 7 years after date of approval or other such period as identified by the Director-General.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Environment Management Report					
4	(a)The lease holder must lodge Environmental Management Reports (EMR) with the Director-General annually or at dates otherwise directed by the Director-General. (b) The EMR must: (i) report against compliance with the MOP; (ii) report on progress in respect of rehabilitation completion criteria; (iii) report on the extent of compliance with regulatory requirements; and (iv) have regard to any relevant guidelines adopted by the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Environmental Incident Report					
5	(a) The lease holder must report any environmental incidents. The report must: (i) be prepared according to any relevant Departmental guidelines; (ii) be submitted within 24 hours of the environmental incident occurring. (b) For the purposes of this condition, environmental incident includes: (i) any incident causing or threatening material harm to the environment; (ii) any breach of Conditions 1 to 9 and 11 to 24; (iii) any breach of environment protection legislation; or (iv) a serious complaint from landholders or the public. (c) For the purposes of this condition, harm to the environment is material if: (i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial; or (ii) it results in actual or potential loss or property damage of an amount; or (iii) amounts in aggregate, exceeding $10,000, where loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.	Site interviews. Incident reports	During the site interviews, Ravensworth Operations confirmed that they had immediately notified DPHI (and any other relevant agencies) after becoming aware of an incident via the Major Projects Website.	Compliant	
Additional Environmental Reports					
6	Additional environmental reports may be required from time to time as directed in writing by the Director-General and must be lodged as instructed.	N/A	Not triggered during the IEA period.	Not triggered	
Rehabilitation					
7	Any disturbance as a result of activities under this lease must be rehabilitated to the satisfaction of the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews. All Annual Reviews during the reporting period have been approved. No areas of rehabilitation were approved/signed off by the Department during the IEA period.	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1668 (2012)					
Subidence Management					
8	(a) The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface. (b) Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gateroads, installation roads and associated main headings, etc), and pillar extractions, and are otherwise defined by the Applications for Subsidence Management Approvals guidelines (EOG 17). (c) The lease holder must not commence or undertake underground mining operations that will potentially lead to subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the Coal Mine Health & Safety Act 2002, or the document New Subsidence Management Plan Approval Process - Transitional Provisions (EDP09). (d) Subsidence Management Plans are to be prepared in accordance with the Guideline for Applications for Subsidence Management Approvals. (e) Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 3 and will be subject to the Environmental Management Report process as set out under Condition 4. The SMP is also subject to the requirements for subsidence monitoring and reporting set out in the document New Approval Process for Management of Coal Mining Subsidence Policy.	Extraction Plan	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Working Requirement					
9	The lease holder must: (a) ensure that at least 10 competent people are efficiently employed in relation to the mining process or mining operations on the lease area; OR (b) expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than $175,000 per annum whilst the lease is in force. The Minister may at any time or times, by instrument in writing served on the lease holder, increase or decrease the expenditure required or the number of people to be employed.	Annual Reviews for 2021, 2022 and 2023.	At least 10 persons employed on subject area during audit period	Compliant	
Safety					
11	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be notified in writing to the Department and filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Site inspection Incident register	Site inspection identified appropriate fencing/signage in place. Saftey reporting procedures in place and reported as required Shafts associated with underground workings sealed/fenced	Compliant	
Prevention of soil erosion and pollution					
12	Prospecting operations must be carried out in a manner that does not cause or aggravate air pollution, water (including groundwater) pollution, soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan.	Site inspection Rehabilitation Management Plan	Erosion contols sighted. No issues identified requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
Transmission lines, Communication lines and Pipelines					
13	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions stipulated.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions recieved from the Resources Regulator during the audit period	Compliant	
Roads and Tracks					
14	(a) The lease holder must pay to the relevant roads authority in control of the road or track the reasonable costs incurred by the roads authority in making good any damage to roads or tracks caused by operations carried out under this lease less any amount paid or payable from the Mine Subsidence Compensation Fund. (b) During wet weather the use of any road or track must be restricted so as to prevent damage to the road or track. (c) Existing access tracks should be used for all operations where reasonably practicable. New access tracks must be kept to a minimum and be positioned in order to minimise damage to the land, watercourses or vegetation. (d) Temporary access tracks must be rehabilitated and revegetated to the satisfaction of the Director-General as soon as reasonably practicable after they are no longer required under this lease.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
Resource Recovery					
17	(a) Notwithstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered from the lease area, or that any such minerals which are being recovered are not being recovered to the extent which should be economically possible or which for environmental reasons are necessary to be recovered, notice in writing to the lease holder may be given requiring the holder to recover such minerals. (b) The notice shall specify the minerals to be recovered and the extent to which they are to be recovered, or the objectives in regard to resource recovery, but shall not specify the processes the lease holder shall use to achieve the specified recovery. (c) The lease holder must, when requested by the Director-General, provide such information as the Director-General may specify about the recovery of the mineral resources of the lease area.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
Indemnity					
18	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	N/A	Not triggered during the IEA period.	Not triggered	
Prescribed Dam					
22	(a) Notwithstanding any Mining Operations Plan, the lease holder must not mine within any part of the lease area which is within the notification area of the Ravensworth Inpit Storage Dam and the Ravensworth Void 4 East Saddle Dam without the prior written approval of the Minister and subject to any conditions stipulated. (b) Where the lease holder desires to mine within the notification area he or she must: (i) at least twelve (12) months before mining is to commence or such lesser time as the Minister may permit, notify the Minister of the desire to do so. A plan of the mining system to be implemented must accompany the notice; and (ii) provide such information as the Minister may direct. (c) The Minister must not, except in the circumstances set out in sub-paragraph (ii), grant approval unless sub-paragraph (i) of this paragraph has been complied with. This sub-paragraph is complied with if: (i) the Dams Safety Committee as constituted by Section 7 of the Dams Safety Act 1978 and the owner of the dam have been notified in writing of the desire to mine referred to in paragraph (b); (ii) the notifications referred to in clause (a) are accompanied by a description or plan of the area to be mined; (iii) the Director-General has complied with any reasonable request made by the Dams Safety Committee or the owner of the dam for further information in connection with the mining proposal; (iv) the Dams Safety Committee has made its recommendations concerning the mining proposal or has informed the Minister in writing that it does not propose to make any such recommendations; and (v) where the Dams Safety Committee has made recommendations the approval is in terms that are: - in accordance with those recommendations; or - where the Minister does not accept those recommendations or any of them - in accordance with a determination under subparagraph (ii) of this paragraph. (vi) Where the Minister does not accept the recommendations of the Dams Safety Committee or where the Dams Safety Committee has failed to make any recommendations and has not informed the Minister in writing that it does not propose to make any recommendations, the approval shall be in terms that are, in relation to matters dealing with the safety of the dam: - as determined by agreement between the Minister and the Minister administering the Dams Safety Act 1978; or - in the event of failure to reach such agreement - as determined by the Premier. (d) The Minister, on notice from the Dams Safety Committee, may at any time or times: (i) cancel any approval given where a notice pursuant to Section 18 of the Dams Safety Act 1978 is given; (ii) suspend for a period of time, alter, omit from or add to any approval given or conditions imposed.	N/A	Ravensworth Operation did not mine through the Ravensworth Inpit Storage Dam and the Ravensworth Void 4 East Saddle Dam during the IEA period.	Not triggered	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1668 (2012)					
Suspension of Mining Operations					
23	The holder of a mining lease may not suspend mining operations in the mining area other than in accordance with the consent of the Minister.	N/A	Mining was not suspended during the IEA period.	Not triggered	
Cooperation Agreement					
24	The lease holder must make every reasonable attempt, and be able to demonstrate their attempts, to enter into a cooperation agreement with the holder(s) of any overlapping title(s). The cooperation agreement should address but not be limited to issues such as: • access arrangements; • operational interaction procedures; • dispute resolution; • information exchange; • well location; • timing of drilling; • potential resource extraction conflicts; and • rehabilitation issues.	Cooperation agreement	Cooperation agreements were already in place prior to the IEA period.	Not triggered	
	Note: Exploration Reports (Geological and Geophvsical). *The lease holder must lodge reports to the satisfaction of the Director-General in accordance with section 163C of the Mining Act 1992 and in accordance with clause 57 of the Mining Regulation 2010.* *Reports must be prepared in accordance with Exploration Reporting: A guide for reporting on exploration and prospecting in New South Wales (Department of Trade and Investment; Regional Infrastructure and Services 2010).*	Exploration reports Regulator lodgement details	Exploration was undertaken in the tenement of EL 7799 which is almost entirely underlain by ML 1668. EMM sighted evidence of the lodgement of these report to the regulator.	Compliant	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1669 (2012)					
Notice to Landholders					
1	(a) Within a period of three months from the date of grant/renewal of this mining lease or within such further time as the Minster may allow, the lease holder must serve on each landholder a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. A adequate plan and description of the lease area must accompany the notice. (b) If there are ten or more landholders affected, the leaseholder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Environmental Harm					
2	(a) The lease holder must implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of any activities under this lease. (b) For the purposes of this condition: (i) environment means components of the earth, including: (A) land, air and water, and (B) any layer of the atmosphere, and (C) any organic or inorganic matter and any living organism, and (D) human-made or modified structures and areas, and includes interacting natural ecosystems that include components referred to in paragraphs(A)-(C). (ii) harm to the environment includes any direct or indirect alteration of the environment that has the effect of degrading the environment and, without limiting the generality of the above, includes any act or omission that results in pollution, contributes to the extinction or degradation of any threatened species, populations or ecological communities and their habitats and causes impacts to places, objects and features of significance to Aboriginal people.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Various environmental management plans	Activities carried out in accordance with various management plans designed to mitigate, monitor and manage environmental risks.	Compliant	
Mining Operations Plan					
3	(a) Mining operations must not be carried out otherwise than in accordance with: a Mining Operation Plan (MOP) which has been approved by the Director-General. (b) The MOP must: (i) identify areas that will be disturbed by mining operations; (ii) detail the staging of specific mining operations; (iii) identify how the mine will be managed to allow mine closure; (iv) identify how mining operations will be carried out on site in order to prevent and or minimise harm to the environment; (v) reflect the conditions of approval under - the Environmental Planning and Assessment Act 1979 - the Protection of the Environment Operations Act 1997 - and any other approvals relevant to the development including the conditions of this lease; and - have regard to any relevant guidelines adopted by the Director-General. (c) The leaseholder may apply to the Director-General to amend an approved MOP at any time. (d) It is not a breach of this condition if: (i) the operations constituting the breach were necessary to comply with a lawful order or direction given under the Mining Act 1992, the Environmental Planning and Assessment Act 1979, Protection of the Environment Operations Act 1997, Mine Health and Safety Act 2004 / Coal Mine Health and Safety Act 2002 and Mine Health and Safety Regulation 2007 I/Coal Mine Health and Safety Regulation 2006 or the Occupational Health and Safety Act 2000; and (ii) the Director-General had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out. (e) A MOP ceases to have effect 7 years after date of approval or other such period as identified by the Director-General.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Environment Management Report					
4	(a)The lease holder must lodge Environmental Management Reports (EMR) with the Director-General annually or at dates otherwise directed by the Director-General. (b) The EMR must: (i) report against compliance with the MOP; (ii) report on progress in respect of rehabilitation completion criteria; (iii) report on the extent of compliance with regulatory requirements; and (iv) have regard to any relevant guidelines adopted by the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Environmental Incident Report					
5	(a) The lease holder must report any environmental incidents. The report must: (i) be prepared according to any relevant Departmental guidelines; (ii) be submitted within 24 hours of the environmental incident occurring. (b) For the purposes of this condition, environmental incident includes: (i) any incident causing or threatening material harm to the environment; (ii) any breach of Conditions 1 to 9 and 11 to 24; (iii) any breach of environment protection legislation; or (iv) a serious complaint from landholders or the public. (c) For the purposes of this condition, harm to the environment is material if: (i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or (ii) it results in actual or potential loss or property damage of an amount, or (iii) amounts in aggregate, exceeding $10,000, where loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.	Site interviews. Incident reports	During the site interviews, Ravensworth Operations confirmed that they had immediately notified DPHI (and any other relevant agencies) after becoming aware of an incident via the Major Projects Website.	Compliant	
Additional Environmental Reports					
6	Additional environmental reports may be required from time to time as directed in writing by the Director-General and must be lodged as instructed.	N/A	Not triggered during the IEA period.	Not triggered	
Rehabilitation					
7	Any disturbance as a result of activities under this lease must be rehabilitated to the satisfaction of the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews. All Annual Reviews during the reporting period have been approved. No areas of rehabilitation were approved/signed off by the Department during the IEA period.	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1669 (2012)					
Subsidence Management					
8	(a) The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface. (b) Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gateroads, installation roads and associated main headings, etc), and pillar extractions, and are otherwise defined by the Applications for Subsidence Management Approvals guidelines (EOG 17). (c) The lease holder must not commence or undertake underground mining operations that will potentially lead to subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the Coal Mine Health & Safety Act 2002, or the document New Subsidence Management Plan Approval Process - Transitional Provisions (EDP09). (d) Subsidence Management Plans are to be prepared in accordance with the Guideline for Applications for Subsidence Management Approvals. (e) Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 3 and will be subject to the Environmental Management Report process as set out under Condition 4. The SMP is also subject to the requirements for subsidence monitoring and reporting set out in the document New Approval Process for Management of Coal Mining Subsidence Policy.	Extraction Plan	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Working Requirement					
9	The lease holder must: (a) ensure that at least 107 competent people are efficiently employed in relation to the mining process or mining operations on the lease area; OR (b) expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than $1,872,500 per annum whilst the lease is in force. The Minister may at any time or times, by instrument in writing served on the lease holder, increase or decrease the expenditure required or the number of people to be employed.	Annual Reviews for 2021, 2022 and 2023.	At least 107 persons employed on subject area during audit period	Compliant	
Blasting					
10	(a) Ground Vibration The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10 mm/second and does not exceed 5 mm/second in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be, unless determined otherwise by the Department of Environment, Climate Change and Water. (b) Blast Overpressure The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling or occupied premises, as the case may be, unless determined otherwise by the Department of Environment, Climate Change and Water.	Blast Management Plan (RAVCX-307024981-4092) Annual reviews Monthly EPL reports	As identified in the 2022 AR, a fault with the REA86 blast monitor caused a missed blast recording on 17/03/22 at 13:13:46, event code RTH615. It is noted that blast limits were NOT exceeded (for over 600 blast events) during the audit period, but rather that a single blast event was not monitored. Compliance with 95% of total blasts were achieved.	Compliant	
Safety					
11	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be notified in writing to the Department and filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Site inspection Incident register	Site inspection identified appropriate fencing/signage in place. Safety reporting procedures in place and reported as required Shafts associated with underground workings sealed/fenced	Compliant	
Prevention of soil erosion and pollution					
12	Prospecting operations must be carried out in a manner that does not cause or aggravate air pollution, water (including groundwater) pollution, soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan.	Site inspection Rehabilitation Management Plan	No erosion issues identified during site inspection requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
Transmission lines, Communication lines and Pipelines					
13	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions stipulated.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions received from the Resources Regulator during the audit period	Compliant	
Roads and Tracks					
14	(a) The lease holder must pay to the relevant roads authority in control of the road or track the reasonable costs incurred by the roads authority in making good any damage to roads or tracks caused by operations carried out under this lease less any amount paid or payable from the Mine Subsidence Compensation Fund. (b) During wet weather the use of any road or track must be restricted so as to prevent damage to the road or track. (c) Existing access tracks should be used for all operations where reasonably practicable. New access tracks must be kept to a minimum and be positioned in order to minimise damage to the land, watercourses or vegetation. (d) Temporary access tracks must be rehabilitated and revegetated to the satisfaction of the Director-General as soon as reasonably practicable after they are no longer required under this lease.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
Trees and Vegetation					
15	(a) The lease holder must not fell trees, strip bark or cut timber on any land subject of this lease without the consent of the landholder who is entitled to the use of the timber. (b) The lease holder must contact Forests NSW and obtain any required permit, licence or approval before taking timber from any Crown land within the lease area. *Note: Any clearing not authorised under the Act must comply with the requirements of the Native Vegetation Act 2003. Any clearing or taking of timber on Crown land is subject to the requirements of the Forestry Act 1916.*	N/A	Not triggered during the IEA period.	Not triggered	
Resource Recovery					
17	(a) Notwithstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered from the lease area, or that any such minerals which are being recovered are not being recovered to the extent which should be economically possible or which for environmental reasons are necessary to be recovered, notice in writing to the lease holder may be given requiring the holder to recover such minerals. (b) The notice shall specify the minerals to be recovered and the extent to which they are to be recovered, or the objectives in regard to resource recovery, but shall not specify the processes the lease holder shall use to achieve the specified recovery. (c) The lease holder must, when requested by the Director-General, provide such information as the Director-General may specify about the recovery of the mineral resources of the lease area.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
Indemnity					
18	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	N/A	Not triggered during the IEA period.	Not triggered	
Single Security (extended)					
21	The single security given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under Coal Lease No.378 (Act 1973), Mining Purposes Lease No.311 (Act 1973), Mining Lease No's 1325, 1327, 1373, 1393, 1421, 1502, 1526 and 1640 (Act 1992) are extended to apply to this lease.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1669 (2012)					
Prescribed Dam					
22	(a) Notwithstanding any Mining Operations Plan, the lease holder must not mine within any part of the lease area which is within the notification area of the Liddell Cooling Water Dam without the prior written approval of the Minister and subject to any conditions stipulated. (b) Where the lease holder desires to mine within the notification area he or she must: (i) at least twelve (12) months before mining is to commence or such lesser time as the Minister may permit, notify the Minister of the desire to do so. A plan of the mining system to be implemented must accompany the notice; and (ii) provide such information as the Minister may direct. (c) The Minister must not, except in the circumstances set out in sub-paragraph (ii), grant approval unless sub-paragraph (i) of this paragraph has been complied with. This sub-paragraph is complied with if: (i) the Dams Safety Committee as constituted by Section 7 of the Dams Safety Act 1978 and the owner of the dam have been notified in writing of the desire to mine referred to in paragraph (b). (ii) the notifications referred to in clause (a) are accompanied by a description or plan of the area to be mined. (iii) the Director-General has complied with any reasonable request made by the Dams Safety Committee or the owner of the dam for further information in connection with the mining proposal. (iv) the Dams Safety Committee has made its recommendations concerning the mining proposal or has informed the Minister in writing that it does not propose to make any such recommendations; and (v) where the Dams Safety Committee has made recommendations the approval is in terms that are: - in accordance with those recommendations; or - where the Minister does not accept those recommendations or any of them in accordance with a determination under subparagraph (ii) of this paragraph. (vi) Where the Minister does not accept the recommendations of the Dams Safety Committee or where the Dams Safety Committee has failed to make any recommendations and has not informed the Minister in writing that it does not propose to make any recommendations, the approval shall be in terms that are, in relation to matters dealing with the safety of the dam: - as determined by agreement between the Minister and the Minister administering the Dams Safety Act 1978; or - in the event of failure to reach such agreement - as determined by the Premier. (d) The Minister, on notice from the Dams Safety Committee, may at any time or times: (i) cancel any approval given where a notice pursuant to Section 18 of the Dams Safety Act 1978 is given; (ii) suspend for a period of time, alter, omit from or add to any approval given or conditions imposed.	N/A	Ravensworth Operation did not mine through the Ravensworth Inpit Storage Dam and the Liddell Cooling Water Dam during the IEA period.	Not triggered	
Suspension of Mining Operations					
23	The holder of a mining lease may not suspend mining operations in the mining area other than in accordance with the consent of the Minister.	N/A	Mining was not suspended during the IEA period.	Not triggered	
Cooperation Agreement					
24	The lease holder must make every reasonable attempt, and be able to demonstrate their attempts, to enter into a cooperation agreement with the holder(s) of any overlapping title(s). The cooperation agreement should address but not be limited to issues such as: • access arrangements • operational interaction procedures • dispute resolution • information exchange • well location • timing of drilling • potential resource extraction conflicts and • rehabilitation issues.	Cooperation agreement	Cooperation agreements were already in place prior to the IEA period.	Not triggered	
	Note: Exploration Reports (Geological and Geophysical) *The lease holder must lodge reports to the satisfaction of the Director-General in accordance with section 163C of the Mining Act 1992 and in accordance with clause 57 of the Mining Regulation 2010.* *Reports must be prepared in accordance with Exploration Reporting: A guide for reporting on exploration and prospecting in New South Wales (Department of Trade and Investment; Regional Infrastructure and Services 2010).*	Exploration reports Regulator lodgement details	Exploration was undertaken in the tenement of AUTH 385 which is almost entirely underlain by ML 1669. EMM sighted evidence of the lodgement of these report to the regulator.	Compliant	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1683 (2013)					
Notice to Landholders					
1	(a) Within a period of three months from the date of grant/renewal of this mining lease or within such further time as the Minster may allow, the lease holder must serve on each landholder a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. A adaquate plan and description of the lease area must accompany the notice. (b) If there are ten or more landholders affected, the leaseholder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this mining lease has been granted/renewed; state whether the lease includes the surface and must contain a plan and description of the lease area.	N/A	This lease was not renewed during the IEA period.	Not triggered	
Environmental Harm					
2	(a) The lease holder must implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of any activities under this lease. (b) For the purposes of this condition: (i) environment means components of the earth, including: (A) land, air and water, and (B) any layer of the atmosphere, and (C) any organic or inorganic matter and any living organism, and (D) human-made or modified structures and areas, and includes interacting natural ecosystems that include components referred to in paragraphs(A)-(C). (ii) harm to the environment includes any direct or indirect alteration of the environment that has the effect of degrading the environment and, without limiting the generality of the above, includes any act or omission that results in pollution, contributes to the extinction or degradation of any threatened species, populations or ecological communities and their habitats and causes impacts to places, objects and features of significance to Aboriginal people.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Various environmental management plans	Activities carried out in accordance with various management plans designed to mitigate, monitor and manage environmental risks.	Compliant	
Mining Operations Plan					
3	(a) Mining operations must not be carried out otherwise than in accordance with: a Mining Operation Plan (MOP) which has been approved by the Director-General. (b) The MOP must: (i) identify areas that will be disturbed by mining operations; (ii) detail the staging of specific mining operations; (iii) identify how the mine will be managed to allow mine closure; (iv) identify how mining operations will be carried out on site in order to prevent and or minimise harm to the environment; (v) reflect the conditions of approval under - the Environmental Planning and Assessment Act 1979 - the Protection of the Environment Operations Act 1997 - and any other approvals relevant to the development including the conditions of this lease; and - have regard to any relevant guidelines adopted by the Director-General. (c) The leaseholder may apply to the Director-General to amend an approved MOP at any time. (d) It is not a breach of this condition if: (i) the operations constituting the breach were necessary to comply with a lawful order or direction given under the Mining Act 1992, the Environmental Planning and Assessment Act 1979, Protection of the Environment Operations Act 1997, Mine Health and Safety Act 2004 / Coal Mine Health and Safety Act 2002 and Mine Health and Safety Regulation 2007 / Coal Mine Health and Safety Regulation 2006 or the Occupational Health and Safety Act 2000; and (ii) the Director-General had been notified in writing of the terms of the order or direction prior to the operations constituting the breach being carried out. (e) A MOP ceases to have effect 7 years after date of approval or other such period as identified by the Director-General.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Environment Management Report					
4	(a)The lease holder must lodge Environmental Management Reports (EMR) with the Director-General annually or at dates otherwise directed by the Director-General. (b) The EMR must: (i) report against compliance with the MOP; (ii) report on progress in respect of rehabilitation completion criteria; (iii) report on the extent of compliance with regulatory requirements; and (iv) have regard to any relevant guidelines adopted by the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
Environmental Incident Report					
5	(a) The lease holder must report any environmental incidents. The report must: (i) be prepared according to any relevant Departmental guidelines; (ii) be submitted within 24 hours of the environmental incident occurring. (b) For the purposes of this condition, environmental incident includes: (i) any incident causing or threatening material harm to the environment; (ii) any breach of Conditions 1 to 9 and 11 to 24; (iii) any breach of environment protection legislation; or (iv) a serious complaint from landholders or the public. (c) For the purposes of this condition, harm to the environment is material if: (i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial; or (ii) it results in actual or potential loss or property damage of an amount; or (iii) amounts in aggregate, exceeding $10,000, where loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.	Site interviews. Incident reports	During the site interviews, Ravensworth Operations confirmed that they had immediately notified DPHI (and any other relevant agencies) after becoming aware of an incident via the Major Projects Website.	Compliant	
Additional Environmental Reports					
6	Additional environmental reports may be required from time to time as directed in writing by the Director-General and must be lodged as instructed.	N/A	Not triggered during the IEA period.	Not triggered	
Rehabilitation					
7	Any disturbance as a result of activities under this lease must be rehabilitated to the satisfaction of the Director-General.	Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews. All Annual Reviews during the reporting period have been approved. No areas of rehabilitation were approved/signed off by the Department during the IEA period.	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1683 (2013)					
Subidence Management					
8	(a) The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface. (b) Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gateroads, installation roads and associated main headings, etc), and pillar extractions, and are otherwise defined by the Applications for Subsidence Management Approvals guidelines (EOG 17). (c) The lease holder must not commence or undertake underground mining operations that will potentially lead to subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the Coal Mine Health & Safety Act 2002, or the document New Subsidence Management Plan Approval Process - Transitional Provisions (EDP09). (d) Subsidence Management Plans are to be prepared in accordance with the Guideline for Applications for Subsidence Management Approvals. (e) Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 3 and will be subject to the Environmental Management Report process as set out under Condition 4. The SMP is also subject to the requirements for subsidence monitoring and reporting set out in the document New Approval Process for Management of Coal Mining Subsidence Policy.	Extraction Plan	RUM has been in care and maintenance since 2014. The RUM Closure Project commenced in 2022. No extraction was completed during the IEA period.	Not triggered	
Working Requirement					
9	The lease holder must: (a) ensure that at least 16 competent people are efficiently employed in relation to the mining process or mining operations on the lease area; OR (b) expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than $280,000 per annum whilst the lease is in force. The Minister may at any time or times, by instrument in writing served on the lease holder, increase or decrease the expenditure required or the number of people to be employed.	Annual review (2021, 2022, 2023)	At least 16 persons employed on subject area during audit period	Compliant	
Blasting					
10	(a) Ground Vibration The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10 mm/second and does not exceed 5 mm/second in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be, unless determined otherwise by the Department of Environment, Climate Change and Water. (b) Blast Overpressure The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling or occupied premises, as the case may be, unless determined otherwise by the Department of Environment, Climate Change and Water.	N/A	Not triggered during the IEA period.	Not triggered	
Safety					
11	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be notified in writing to the Department and filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Site inspection Incident register	Apropriate fencing/signage/site access restrictions in place. Saftey reporting procedures in place and reported as required Shafts associated with underground workings sealed/fenced	Compliant	
Prevention of soil erosion and pollution					
12	Prospecting operations must be carried out in a manner that does not cause or aggravate air pollution, water (including groundwater) pollution, soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan.	Site inspection Rehabilitation Management Plan	No erosion issues identified during site inspection requiring remediation. All activities undertaken in accordance with Rehabilitation Management Plan	Compliant	
Transmission lines, Communication lines and Pipelines					
13	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions stipulated.	Incident register Rehabilitation Management Plan	No issues recorded during audit period in relation to operations impacting infrastructure. No directions recieved from the Resources Regulator during the audit period	Compliant	
Roads and Tracks					
14	(a) The lease holder must pay to the relevant roads authority in control of the road or track the reasonable costs incurred by the roads authority in making good any damage to roads or tracks caused by operations carried out under this lease less any amount paid or payable from the Mine Subsidence Compensation Fund. (b) During wet weather the use of any road or track must be restricted so as to prevent damage to the road or track. (c) Existing access tracks should be used for all operations where reasonably practicable. New access tracks must be kept to a minimum and be positioned in order to minimise damage to the land, watercourses or vegetation. (d) Temporary access tracks must be rehabilitated and revegetated to the satisfaction of the Director-General as soon as reasonably practicable after they are no longer required under this lease.	Site inspection Incident register Personal communication/site interviews	No damages to roads and no make good requirements triggered during audit period	Not triggered	
Trees and Vegetation					
15	(a) The lease holder must not fell trees, strip bark or cut timber on any land subject of this lease without the consent of the landholder who is entitled to the use of the timber. (b) The lease holder must contact Forests NSW and obtain any required permit, licence or approval before taking timber from any Crown land within the lease area. *Note: Any clearing not authorised under the Act must comply with the requirements of the Native Vegetation Act 2003. Any clearing or taking of timber on Crown land is subject to the requirements of the Forestry Act 1916.*	N/A	Not triggered during the IEA period.	Not triggered	
Resource Recovery					
17	(a) Notwithstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered from the lease area, or that any such minerals which are being recovered are not being recovered to the extent which should be economically possible or which for environmental reasons are necessary to be recovered, notice in writing to the lease holder may be given requiring the holder to recover such minerals. (b) The notice shall specify the minerals to be recovered and the extent to which they are to be recovered, or the objectives in regard to resource recovery, but shall not specify the processes the lease holder shall use to achieve the specified recovery. (c) The lease holder must, when requested by the Director-General, provide such information as the Director-General may specify about the recovery of the mineral resources of the lease area.	N/A	No notices/directions given by the Resources Regulator during the audit period.	Not triggered	
Indemnity					
18	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.	N/A	Not triggered during the IEA period.	Not triggered	
Single Security (extended)					
21	The single security given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under Coal Lease No.378 (Act 1973), Mining Lease No's 1325, 1327, 1393, 1502, 1526 and 1669 (Act 1992) is extended to apply to this lease.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1683 (2013)					
Prescribed Dam					
22	(a)Notwithstanding any Mining Operations Plan, the lease holder must not mine within any part of the lease area which is within the notification area of the Ravensworth South Tailings Dam and the Ravensworth Void 3 Dam without the prior written approval of the Minister and subject to any conditions stipulated. (b) Where the lease holder desires to mine within the notification area he or she must: (i) at least twelve (12) months before mining is to commence or such lesser time as the Minister may permit, notify the Minister of the desire to do so. A plan of the mining system to be implemented must accompany the notice; and (ii) provide such information as the Minister may direct. (c) The Minister must not, except in the circumstances set out in sub-paragraph (ii), grant approval unless sub-paragraph (i) of this paragraph has been complied with. This sub-paragraph is complied with if: (i) the Dams Safety Committee as constituted by Section 7 of the Dams Safety Act 1978 and the owner of the dam have been notified in writing of the desire to mine referred to in paragraph (b); (ii) the notifications referred to in clause (a) are accompanied by a description or plan of the area to be mined; (iii) the Director-General has complied with any reasonable request made by the Dams Safety Committee or the owner of the dam for further information in connection with the mining proposal; (iv) the Dams Safety Committee has made its recommendations concerning the mining proposal or has informed the Minister in writing that it does not propose to make any such recommendations; and (v) where the Dams Safety Committee has made recommendations the approval is in terms that are: - in accordance with those recommendations; or - where the Minister does not accept those recommendations; or - any of them in accordance with a determination under subparagraph (ii) of this paragraph. (vi) Where the Minister does not accept the recommendations of the Dams Safety Committee or where the Dams Safety Committee has failed to make any recommendations and has not informed the Minister in writing that it does not propose to make any recommendations, the approval shall be in terms that are, in relation to matters dealing with the safety of the dam: - as determined by agreement between the Minister and the Minister administering the Dams Safety Act 1978; or - in the event of failure to reach such agreement - as determined by the Premier. (d) The Minister, on notice from the Dams Safety Committee, may at any time or times: (i) cancel any approval given where a notice pursuant to Section 18 of the Dams Safety Act 1978 is given; (ii) suspend for a period of time, alter, omit from or add to any approval given or conditions imposed.	N/A	Ravensworth Operation did not mine through the Ravensworth South Tailings Dam and the Ravensworth Void 3 Dam during the IEA period.	Not triggered	
Suspension of Mining Operations					
23	The holder of a mining lease may not suspend mining operations in the mining area other than in accordance with the consent of the Minister.	N/A	Mining was not suspended during the IEA period.	Not triggered	
Cooperation Agreement					
24	The lease holder must make every reasonable attempt, and be able to demonstrate their attempts, to enter into a cooperation agreement with the holder(s) of any overlapping title(s). The cooperation agreement should address but not be limited to issues such as: • access arrangements • operational interaction procedures • dispute resolution • information exchange • well location • timing of drilling • potential resource extraction conflicts and • rehabilitation issues.	Cooperation agreement	Cooperation agreements were already in place prior to the IEA period.	Not triggered	
	Note: Exploration Reports (Geological and Geophysical). *The lease holder must lodge reports to the satisfaction of the Director-General in accordance with section 163C of the Mining Act 1992 and in accordance with clause 57 of the Mining Regulation 2010.* *Reports must be prepared in accordance with Exploration Reporting: A guide for reporting on exploration and prospecting in New South Wales (Department of Trade and Investment; Regional Infrastructure and Services 2010).*	N/A	Not triggered during the IEA period.	Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
ML 1868 (2023)					
Notice to Landholders					
1	(a) The lease holder must cause written notice of the grant or renewal of this mining lease to be provided to each landholder of land over which the mining lease was granted or renewed in accordance with paragraph (b). (b) If there are: i. less than 10 landholders of the land over which the lease was granted or renewed – the notice must be provided to each landholder, ii. 10 or more landholders of the land over which the lease was granted or renewed – the notice may be provided to each landholder or published in a newspaper circulating in the area where the mining lease is situated. (c) The notice must be provided: i. for notice of the grant of the mining lease – not later than 90 days after the date on which the mining lease was granted, ii. for notice of the renewal of the mining lease – not later than 90 days after the date on which the renewal of the mining lease takes effect. (d) The notice must include the following: i. a statement that the mining lease has been granted or renewed (as relevant), ii. confirmation as to whether the mining lease includes the surface of the land, iii. a plan which identifies: 1. the area of the land subject to the mining lease, and 2. geographical and other features (such as roads, rivers, railways, towns, suburbs, or localities) that are sufficient to identify the area of the State within which the mining lease is situated.	Letters to landowners	EMM sighted letters to Cumnock No.1 Colliery Pty Ltd and AGL Macquarie Pty Ltd on 15 February 2024.	Compliant	
Group security					
2	The lease holder is required to provide and maintain a security deposit to secure funding for the fulfilment of obligations under the mining leases covered by the group security deposit, including obligations under each mining lease that may arise in the future. The amount to be provided and maintained as a group security deposit is $10,923,500. The leases covered by the group security include: Mining Lease 1398 (Act 1992) (Head lease) Mining Lease 1416 (Act 1992) Mining Lease 1477 (Act 1992) Mining Lease 1495 (Act 1992) Mining Lease 1506 (Act 1992) Mining Lease 1564 (Act 1992) Mining Lease 1581 (Act 1992) Mining Lease 1591 (Act 1992) Mining Lease 1595 (Act 1906) Mining Lease 1625 (Act 1973) Mining Lease 1868 (Act 1992) (This lease).	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
Cooperation Agreement					
3	The lease holder must make every reasonable attempt, and be able to demonstrate its attempts to the satisfaction of the Secretary, to enter into a cooperation agreement with the holder(s) of any overlapping authorisations issued under the Mining Act 1992 and petroleum titles issued under the Petroleum (Onshore) Act 1991. The cooperation agreement should address but not be limited to: • access arrangements • operational interaction procedures • dispute resolution • information exchange • well location • timing of drilling • potential resource extraction conflicts; and • rehabilitation issues.	N/A	Not triggered during the IEA period.	Not triggered	
Special conditions					
4	NIL.	NA		Not triggered	

Table A.6 - Mining Leases

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Standard Conditions - Schedule 8A of Mining Regulation 2016 (Part 2)					
Part 2 Standard conditions					
	Note— *The conditions in this Part prevail over conditions imposed under the Act by the relevant decision-maker to the extent of any inconsistency between them—see the Act, Schedule 1B, clause 7(4).*	Noted	Noted		
Division 1 Protection of the environment and rehabilitation					
4	**Must prevent or minimise harm to environment** (1) The holder of a mining lease must take all reasonable measures to prevent, or if that is not reasonably practicable, to minimise, harm to the environment caused by activities under the mining lease. (2) In this clause— harm to the environment has the same meaning as in the Protection of the Environment Operations Act 1997.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) (RAVCX-307024981-8541) Various environmental management plans Annual Reviews for 2021, 2022, 2023	Activities carried out in accordance with various management plans designed to mitigate, monitor and manage environmental risks.	Compliant	
5	**Rehabilitation to occur as soon as reasonably practicable after disturbance** The holder of a mining lease must rehabilitate land and water in the mining area that is disturbed by activities under the mining lease as soon as reasonably practicable after the disturbance occurs.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	MOP in place for Ravensworth Operation prior to July 2022. MOP was replaced by a RMP following July 2022. A Rehabilitation Report was prepared annually and submitted to the Minister. Rehabilitation results are also reported in the Annual Reviews.	Compliant	
6	**Rehabilitation must achieve final land use** (1) The holder of a mining lease must ensure that rehabilitation of the mining area achieves the final land use for the mining area. (2) The holder of the mining lease must ensure any planning approval has been obtained that is necessary to enable the holder to comply with subclause (1). (3) The holder of the mining lease must identify and record any reasonably foreseeable hazard that presents a risk to the holder's ability to comply with subclause (1). *Note—* *Clause 7 requires a rehabilitation risk assessment to be conducted whenever a hazard is identified under this subclause.* (4) In this clause— final land use for the mining area means the final landform and land uses to be achieved for the mining area— (a) as set out in the rehabilitation objectives statement and rehabilitation completion criteria statement, and (b) for a large mine—as spatially depicted in the final landform and rehabilitation plan, and (c) if the final land use for the mining area is required by a condition of development consent for activities under the mining lease—as stated in the condition. planning approval means— (a) a development consent within the meaning of the Environmental Planning and Assessment Act 1979, or (b) an approval under that Act, Division 5.1.	Mining Operations Plan (MOP) Rehabilitation Management Plan (RMP) (RAVCX-307024981-8541) Annual Reviews for 2021, 2022 and 2023. Rehabilitation Report	There have been no areas of rehabilitation at Ravensowrth Operation that have been signed off by the Minister and therefore achieve final land use.	Not triggered	
Division 2 Risk assessment					
7	**Rehabilitation risk assessment** (1) The holder of a mining lease must conduct a risk assessment (a rehabilitation risk assessment) that— (a) identifies, assesses and evaluates the risks that need to be addressed to achieve the following in relation to the mining lease— (i) the rehabilitation objectives, (ii) the rehabilitation completion criteria, (iii) for large mines—the final land use as spatially depicted in the final landform and rehabilitation plan, and (b) identifies the measures that need to be implemented to eliminate, minimise or mitigate the risks. (2) The holder of the mining lease must implement the measures identified. (3) The holder of a mining lease must conduct a rehabilitation risk assessment— (a) for a large mine—before preparing a rehabilitation management plan, and (b) for a small mine—before preparing the rehabilitation outcome documents for the mine, and (c) whenever a hazard is identified under clause 6(3)—as soon as reasonably practicable after it is identified, and (d) whenever given a written direction to do so by the Secretary.	Rehabilitation Management Plan (RMP) (RAVCX-307024981-8541)	Section 3 of the RMP completes a detailed rehabilitation risk assessment in accordance with the Rehabilitation Risk Assessment Guideline (NSW Resources Regulator, 2021) and AS/NZS ISO 31000:2018 Risk management Guidelines.	Compliant	
Division 3 Rehabilitation documents					
8	**Application of Division** This Division does not apply to a mining lease unless— (a) the security deposit required under the mining lease is greater than the minimum deposit prescribed under the Act, section 261BF in relation to that type of mining lease, or (b) the Secretary gives a written direction to the holder of the mining lease that this Division, or a provision of this Division, applies to the mining lease.	Rehabilitation cost estimate Security deposit letters	Security deposits in relation to this mining lease are held by the Resources Regulator.	Compliant	
9	**General requirements for documents** A document required to be prepared under this Division must— (a) be in a form approved by the Secretary, and *Note—* *The approved forms are available on the Department's website.* (b) include any matter required to be included by the form, and (c) if required to be given to the Secretary—be given in a way approved by the Secretary.	Rehabilitation Management Plan (RMP) (RAVCX-307024981-8541)	The RMP and relevant documents have been prepared in accordance with the form and way guidance and approved by the Secretary.	Compliant	
10	**Rehabilitation management plans for large mines** (1) The holder of a mining lease relating to a large mine must prepare a plan (a rehabilitation management plan) for the mining lease that includes the following— (a) a description of how the holder proposes to manage all aspects of the rehabilitation of the mining area, (b) a description of the steps and actions the holder proposes to take to comply with the conditions of the mining lease that relate to rehabilitation, (c) a summary of rehabilitation risk assessments conducted by the holder, (d) the risk control measures identified in the rehabilitation risk assessments, (e) the rehabilitation outcome documents for the mining lease, (f) a statement of the performance outcomes for the matters addressed by the rehabilitation outcome documents and the ways in which those outcomes are to be measured and monitored. (2) If a rehabilitation outcome document has not been approved by the Secretary, the holder of the mining lease must include a proposed version of the document. (3) A rehabilitation management plan is not required to be given to the Secretary for approval. (4) The holder of the mining lease— (a) must implement the matters set out in the rehabilitation management plan, and (b) if the forward program specifies timeframes for the implementation of the matters—must implement the matters within those timeframes.	Rehabilitation Management Plan (RMP) (RAVCX-307024981-8541)	The RMP and relevant documents have been prepared in accordance with the form and way guidance and approved by the Secretary.	Compliant	
11	**Amendment of rehabilitation management plans** The holder of a mining lease must amend the rehabilitation management plan for the mining lease as follows— (a) to substitute the proposed version of a rehabilitation outcome document with the version approved by the Secretary—within 30 days after the document is approved, (b) as a consequence of an amendment made under clause 14 to a rehabilitation outcome document—within 30 days after the amendment is made, (c) to reflect any changes to the risk control measures in the prepared plan that are identified in a rehabilitation risk assessment—as soon as practicable after the rehabilitation risk assessment is conducted, (d) whenever given a written direction to do so by the Secretary—in accordance with the direction.	Rehabilitation Management Plan (RMP) (RAVCX-307024981-8541)	The RMP was amended in 2022 and approved by the Secretary.	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Standard Conditions - Schedule 8A of Mining Regulation 2016 (Part 2)					
12	**Rehabilitation outcome documents** (1) The holder of a mining lease must prepare the following documents (the rehabilitation outcome documents) for the mining lease and give them to the Secretary for approval— (a) the rehabilitation objectives statement, which sets out the rehabilitation objectives required to achieve the final land use for the mining area, (b) the rehabilitation completion criteria statement, which sets out criteria, the completion of which will demonstrate the achievement of the rehabilitation objectives, (c) for a large mine, the final landform and rehabilitation plan, showing a spatial depiction of the final land use. (2) If the final land use for the mining area is required by a condition of development consent for activities under the mining lease, the holder of the mining lease must ensure the rehabilitation outcome documents are consistent with that condition.	Rehabilitation Management Plan (RMP) (RAVCX-307024981-8541) Annual Reviews for 2021, 2022, 2023 Annual Rehabiltation Reports.	The rehabiltation objectives and completion criteria are outlined in the RMP. The outcomes of rehabiltation are reprted on in the Annual Reviews and Annual Rehabiltation Reports.	Compliant	
13	**Forward program and annual rehabilitation report** (1) The holder of a mining lease must prepare a program (a forward program) for the mining lease that includes the following— (a) a schedule of mining activities for the mining area for the next 3 years, (b) a summary of the spatial progression of rehabilitation through its various phases for the next 3 years, (c) a requirement that the rehabilitation of land and water disturbed by mining activities under the mining lease must occur as soon as reasonably practicable after the disturbance occurs. (2) The holder of a mining lease must prepare a report (an annual rehabilitation report) for the mining lease that includes— (a) a description of the rehabilitation undertaken over the annual reporting period, (b) a report demonstrating the progress made through the phases of rehabilitation provided for in the forward program applying to the reporting period, (c) a report demonstrating progress made towards the achievement of the following— (i) the objectives set out in the rehabilitation objectives statement, (ii) the criteria set out in the rehabilitation completion criteria statement, (iii) for large mines—the final land use as spatially depicted in the final landform and rehabilitation plan. (3) If a rehabilitation outcome document has not been approved by the Secretary, the holder of the mining lease must rely on a proposed version of the document. (4) The holder of the mining lease must give the forward program and annual rehabilitation report to the Secretary. (5) In this clause— annual reporting period means each period of 12 months commencing on— (a) the date on which the mining lease is granted, or (b) if the Secretary approves another date in relation to the mining lease—the other date.	Forward Programs Annual Rehabiltation Reports.	EMM sighted the Forward Programs and Annual Rehabiltation Reports for both ROC and RUM on the Ravensworth Operations website.	Compliant	
14	**Amendment of rehabilitation outcome documents and forward program** (1) This clause applies to— (a) a rehabilitation outcome document if it has been approved by the Secretary, and (b) a forward program if it has been given to the Secretary. (2) The holder of a mining lease must not amend a document to which this clause applies that relates to the mining lease unless— (a) the Secretary gives the holder a written direction to do so, or (b) the Secretary, on written application by the holder, gives a written approval of the amendment. (3) The holder of the mining lease must amend the document in accordance with the Secretary's direction or approval. (4) Nothing in this clause prevents the holder of a mining lease preparing a draft amendment for submission to the Secretary for approval.	Forward Programs Annual Rehabiltation Reports.	EMM sighted the Forward Programs and Annual Rehabiltation Reports for both ROC and RUM on the Ravensworth Operations website.	Compliant	
15	**Times at which documents must be prepared and given** (1) The holder of a mining lease must do the following before the end of the initial period— (a) prepare a rehabilitation management plan, and (b) prepare rehabilitation outcome documents and give them, other than the rehabilitation completion criteria statement, to the Secretary for approval, and (c) prepare a forward program and give it to the Secretary. (2) The holder of the mining lease must prepare a forward program and annual rehabilitation report and give them to the Secretary before— (a) 60 days after the last day of each annual reporting period, commencing with the annual reporting period in which the forward program was given to Secretary under subclause (1)(c), or (b) a later date approved by the Secretary. (3) A rehabilitation completion criteria statement relating to completion of rehabilitation during a period covered by a forward program must be given to the Secretary for approval when the forward program is required to be given to the Secretary. (4) The holder of the mining lease must prepare updated rehabilitation outcome documents for the mining lease and give them to the Secretary for approval before— (a) 60 days after a development consent is modified following an application referred to in clause 20(1)(b), or (b) a later date approved by the Secretary. (5) A rehabilitation completion criteria statement is not required to be given to the Secretary under subclause (4) unless a rehabilitation completion criteria statement has already been given to the Secretary under subclause (3). (6) The Secretary may, by written notice, direct the holder of a mining lease to prepare, or give to the Secretary, a document required to be prepared under this Division at a time other than that specified in this clause. (7) The holder of the mining lease must comply with the direction. (8) In this clause— initial period means the period commencing when the mining lease is granted and ending— (a) 30 days, or other period approved by the Secretary, after this Division first applies to the mining lease, or (b) if this Division applies to the mining lease because of an increase in the required security deposit— (i) when the surface of the mining area is disturbed by activities under the mining lease, or (ii) at a later date approved by the Secretary.	Rehabilitation Management Plan (RMP) (RAVCX-307024981-8541) Forward Programs Annual Rehabiltation Reports.	EMM sighted the RMP, Forward Programs and Annual Rehabiltation Reports for both ROC and RUM on the Ravensworth Operations website. These were all submitted within the required timeframe.	Compliant	
16	**Certain documents to be publicly available** (1) This clause applies to the following documents— (a) a rehabilitation management plan, (b) a forward program, (c) an annual rehabilitation report. (2) The holder of a mining lease must make a document to which this clause applies publicly available by— (a) publishing it on its website in a prominent position, or (b) if the holder does not have a website— providing a copy of it to a person— (i) on the written request of a person, and (ii) without charge, and (iii) within 14 days after the request is received. (3) If a document is published on the website of the holder of the mining lease, the holder must ensure that it is published— (a) for a rehabilitation management plan—within 14 days after it is prepared or amended, or (b) for a forward program or an annual rehabilitation report—within 14 days after it is given to the Secretary or amended, (4) Personal information within the meaning of the Privacy and Personal Information Protection Act 1998 is not required to be included in a document made available to a person under this clause.	Rehabilitation Management Plan (RMP) (RAVCX-307024981-8541) Forward Programs Annual Rehabiltation Reports.	EMM sighted the RMP, Forward Programs and Annual Rehabiltation Reports for both ROC and RUM on the Ravensworth Operations website https://www.glencore.com.au/operations-and-projects/coal/current-operations/ravensworth-operations.	Compliant	

Section	Requirement	Evidence collected	Independent Audit Findings and Recommendations	Compliance status	Unique Identification Non-compliance
Standard Conditions - Schedule 8A of Mining Regulation 2016 (Part 2)					
Division 4 Records, reporting and notification					
17	**Records demonstrating compliance** The holder of a mining lease must create and maintain records of all actions taken that demonstrate compliance with each of the conditions set out in this Part. *Note—* *The Act, sections 163D and 163E provide for the form in which records must be kept and the period for which they must be retained.*	CMO records Site inspection and interviews	Ravensworth Operations store all records withing the GCAA CMO system.	Compliant	
18	**Report on non-compliance** (1) The holder of a mining lease must provide the Minister with a written report detailing any non-compliance with— (a) a condition of the mining lease, or *Note—* *The Act, section 364A contains provisions relating to the use and disclosure of information provided under this condition.* (b) a requirement of the Act or this Regulation relating to activities under the mining lease. (2) The holder of the mining lease must provide the report within 7 days after becoming aware of the non-compliance. (3) The holder of the mining lease must ensure the report— (a) identifies the condition of the mining lease, or the requirement of the Act or this Regulation, to which the non-compliance relates, and (b) describes the non-compliance and specifies the date or dates on which, or the period during which, the non-compliance occurred, and (c) describes the causes or likely causes of the non-compliance, and (d) describes the action that has been taken, or will be taken, to mitigate the effects, and to prevent any recurrence, of the non-compliance.	Letter to DPHI following incidents.	EMM sighted letter to DPHI that were prepared within 7 days following reportable incidents including air quality exceedances and water discharge events.	Compliant	
19	**Nominated contact person** (1) The holder of a mining lease must nominate a natural person to be the contact person with whom the Secretary can communicate in relation to the mining lease for the purposes of the Act. *Note—* *The Act, section 383 sets out the ways in which notices or other documents may be issued or given to, or served on, a person for the purposes of the Act.* (2) The holder of the mining lease must give written notice to the Secretary of— (a) the full name and contact details of the nominated person—within 28 days after the date on which the standard conditions apply to the mining lease under clause 31A of this Regulation, and (b) any change in nomination or in the nominated person's contact details—within 28 days after the change occurs. (3) The holder of the mining lease must ensure that the contact details for the nominated person include the person's phone number and postal and email addresses.	ML 1868 Letter to the Resources Regulator on 30 May 2024. All other mining leases and coal leases.	ML 1868 was granted to Resource Pacific Pty Ltd (RUM) on 23 Nov 2023, with the nomination due to the Resource Regulator by 21 Dec 2023. The Resource Regulator was notified in writing on the 30 May 2024 and a contact person was nominated for ML 1868.	Non-compliant	NC12
Division 5 Applications relating to development consent					
20	Additional requirements—application for or to modify development consent (1) The holder of a mining lease must give written notice to the Secretary within 10 days after— (a) making an application for development consent that relates to the mining area, or (b) making an application for modification of a development consent— (i) under the Environmental Planning and Assessment Act 1979, section 4.55(2), and (ii) that proposes to modify a condition of the consent that relates to rehabilitation of the mining area in a way that may affect an obligation under the mining lease relating to rehabilitation of the mining area. (2) This clause does not apply if the development is State significant development.	N/A	This condition is not triggered as Ravensworth Operations is State significant development.	Not triggered	

Appendix B

Planning secretary audit team agreement

EMM
creating opportunities

Department of Planning, Housing and Infrastructure

NSW Planning ref: MP09_0176-PA-138

Klay Marchant
Environment & Community Manager
Ravensworth Coal Operations
Wonnarua Country
Lemington Rd
Ravensworth New South Wales 2330
15/03/2024

Sent via the Major Projects Portal only

Subject: Ravensworth Coal – 2024 Independent Environmental Audit Team Endorsement Request

Dear Mr Marchant

Reference is made to your post approval matter, MP09_0176-PA-138, request for the Planning Secretary's approval of suitably qualified, experienced, and independent person/s to conduct an Independent Environmental Audit (IEA) of the Ravensworth Operations, submitted as required by Schedule 5 Condition 8 of project approval MP09_0176 as modified and Schedule 4 Condition 7 of development consent DA104/96, as modified (the approvals) to NSW Department of Planning, Housing and Infrastructure (NSW Planning) on 11 March 2024.

NSW Planning has reviewed the independent auditor nominations and based on the information you have provided is satisfied that the proposed persons are suitably qualified, experienced, and independent.

Consequently, as nominee of the Planning Secretary, I endorse the following independent audit team:

- Michelle Frankham – lead auditor
- Thomas Frankham – alternate lead auditor
- Francine Manansala – air quality and greenhouse gas specialist
- Katie Teyhan – acoustic specialist
- Jesse Tribby – assistant acoustic specialist
- Clayton Richards – rehabilitation specialist
- Paul Gibbons – project director

Please ensure this correspondence is appended to the IEA Report.

Under the provision of Schedule 2 condition 4 of the approvals, as nominee of the Planning Secretary, I also require the IEA to be prepared, undertaken, and finalised in accordance with the conditions of the approvals and the *Independent Audit Post Approval Requirements* (2020). Failure to meet these requirements will require revision and resubmission.

Further, under the provisions of Schedule 5 condition 9 of project approval MP09_0176 as modified and Schedule 4 Condition 8 of development consent DA104/96, as modified, the final IEA report and proponent response to recommendations is to be submitted within 2 months of the IEA site inspection, in accordance with Section 4.5 of the *Independent Audit Post Approval Requirements* (2020) (in lieu of the 6 weeks referenced in the approvals).

Should you wish to discuss the matter further, please contact Laura Gothard, Senior Compliance Officer on 0484 269 988 or email compliance@planning.nsw.gov.au

Yours sincerely

Heidi Watters
Team Leader Northern
Compliance

As nominee of the Planning Secretary

NSW Planning ref: MP09_0176-PA-138 FLP-72230707

Klay Marchant
Environment & Community Manager
Ravensworth Coal Operations
Wonnarua Country
Lemington Rd
Ravensworth New South Wales 2330
20/06/2024

Sent via email only

Subject: Ravensworth Coal – 2024 Independent Environmental Audit – replacement audit team members

Dear Mr Marchant

I refer to your request for the Planning Secretary's approval of a replacement audit team members for the upcoming Independent Environmental Audit (IEA) of Ravensworth Operations, as required by Schedule 5 Condition 8 of project approval MP09_0176 as modified and Schedule 4 Condition 7 of development consent DA104/96, as modified (the approvals), and submitted to NSW Department of Planning, Housing and Infrastructure (NSW Planning) on 20 June 2024.

NSW Planning has reviewed the independent auditor nominations and based on the information you have provided is satisfied that the proposed persons are suitably qualified, experienced, and independent.

Consequently, as nominee of the Planning Secretary, I endorse James Wearne as the lead auditor and Paul Freeman as the assistant to the lead auditor.

Please ensure this correspondence is appended to the IEA Report.

Should you wish to discuss the matter further, please contact Laura Gothard, Senior Compliance Officer on 0484 269 988 or email compliance@planning.nsw.gov.au

Yours sincerely

Heidi Watters
Team Leader Compliance

As nominee of the Planning Secretary

Appendix C
Consultation

EMM
creating opportunities

C.1 Department of Planning, Housing and Infrastructure

From: Paul Freeman <pfreeman@emmconsulting.com.au>
Sent: Wednesday, 22 May 2024 3:54 PM
To: DPE PSVC Compliance Mailbox <compliance@planning.nsw.gov.au>
Cc: Thomas Frankham <tfrankham@emmconsulting.com.au>
Subject: E240084 - Ravensworth Operations 2024 Independent Environmental Audit

Attention Heidi Watters

Dear Ms Watters

Please find attached a request to the Department to nominate agencies and parties to be consulted on the 2024 Ravensworth Operations Independent Environmental Audit.

If you wish to discuss the matter further, feel free to contact me on 0407 102 898.

Kind regards

Paul Freeman RPIA
Associate Director
Energy Sector Lead

EMM creating opportunities

T 07 3648 1200
M 0407 102 898
LI Connect on LinkedIn
emmconsulting.com.au

BRISBANE | Yuggera/Turrbal Country, Level 1, 87 Wickham Terrace, Spring Hill QLD 4000

From: Heidi Watters <Heidi.Watters@Planning.nsw.gov.au> on behalf of DPE PSVC Compliance Mailbox <compliance@planning.nsw.gov.au>
Sent: Monday, 27 May 2024 11:48 AM
To: Paul Freeman
Cc: Thomas Frankham
Subject: Re: E240084 - Ravensworth Operations 2024 Independent Environmental Audit

CAUTION: This email originated outside of the Organisation.

Dear Paul

Thank you for your email regarding consultation and areas of focus for the 2024 Independent Environmental Audit (IEA).

The 2024 IEA should include consultation with:

- Department of Planning, Housing and Infrastructure
  - Assessment, Post-approvals and Compliance branches
- Department of Climate Change, Energy, the Environment and Water
  - Environment & Heritage
    - Biodiversity and Conservation Division
    - Heritage NSW
  - Water
- Department of Regional NSW
  - Mining, Exploration & Geoscience
  - NSW Resources Regulator (Compliance)
- NSW Environment Protection Authority
- NSW Natural Resources Access Regulator
- Ravensworth Community Consultative Committee
- Singleton Council

In regards to focus areas for the 2024 IEA, in addition to the conditions of the project approval, the IEA scope should include:

- Adequacy of environmental management plans and programs, including location of monitoring sites
- Implementation of environmental management plans and programs
- Status of long-term security for biodiversity offsets
- Greenhouse gas emissions - calculated emissions versus predicted emissions
- Measures undertaken to minimise greenhouse gas emissions
- Management of Aboriginal heritage and other historic heritage

Regards

Heidi Watters
Team Leader
Compliance | Development Assessment and Infrastructure
Department of Planning, Housing and Infrastructure

T 02 6575 3401 | **M** 0472 820 374 | **E** heidi.watters@planning.nsw.gov.au

Department of Planning, Housing and Infrastructure

NSW Planning ref: MP09_0176-PA-135

Klay Marchant
Environment & Community Manager
Wonnarua Country
Lemington Rd
Ravensworth NSW 2330

17/01/2024

Sent via the Major Projects Portal only

Subject: Ravensworth Coal - 2024 Independent Environmental Audit- request for experts

Dear Mr Marchant

Reference is made to your post approval matter, MP09_0176-PA-135, request for the Planning Secretary's requirements for experts to be included in the audit team for the 2024 Independent Audit (IEA) of the Ravensworth Complex, submitted to NSW Department of Planning, Housing and Infrastructure (NSW Planning) on 12 January 2024.

In accordance with Schedule 5, Condition 8 of project approval MP09_0176 as modified and Schedule 4, Condition 7 of development consent 104/96 as modified, the audit team must include experts in the following fields:

- Air Quality
- Noise
- Rehabilitation – including subsidence management, landform establishment and revegetation)

Please ensure this correspondence is appended to the IEA Report.

Please submit the proposed audit team for review and endorsement by the Planning Secretary prior to commissioning the IEA.

Should you wish to discuss the matter further, please contact me on 02 65753401 or email compliance@planning.nsw.gov.au

Yours sincerely

Heidi Watters
Team Leader Northern
Compliance

As nominee of the Planning Secretary

C.2 Department of Planning, Housing and Infrastructure – Compliance

FW: E240084 - Ravensworth Operations 2024 Independent Environmental Audit

Reply | Reply All | Forward | ...

Paul Freeman
To DPE PSVC Compliance Mailbox

Fri 31/05/2024 1:51 PM

E240084 Ravensworth IEA DPHI Compliance consultation 20240531.pdf
.pdf File

Dear Heidi

I hope you are well.

Please find attached a letter requesting advice ahead of the forthcoming independent environmental audit for the Ravensworth Coal Operations.

I note you have already provided commentary on IEA scope (email dated 27 May 2024). So please accept this letter as a consultation letter for any residual commentary you may wish to provide.

If you wish to discuss the matter further, feel free to contact me on 0407 102 898.

Kind regards

Paul

Paul Freeman RPIA
Associate Director
Energy Sector Lead

T 07 3648 1200
M 0407 102 898
LI Connect on LinkedIn
emmconsulting.com.au

C.3 Department of Planning, Housing and Infrastructure – Post Approvals

E240084 - Ravensworth Operations 2024 Independent Environmental Audit

Paul Freeman
To wayne.jones@planning.nsw.gov.au

Reply | Reply All | Forward | ...

Fri 31/05/2024 1:40 PM

E240084 Ravensworth IEA DPHI Post Approvals consultation 20240531.pdf
.pdf File

Dear Wayne

I hope you are well.

Please find attached a letter requesting advice ahead of the forthcoming independent environmental audit for the Ravensworth Coal Operations.

If you wish to discuss the matter further, feel free to contact me on 0407 102 898.

Kind regards

Paul

Paul Freeman RPIA
Associate Director
Energy Sector Lead

EMM
Creating opportunities

T 07 3648 1200
M 0407 102 898
LI Connect on LinkedIn
emmconsulting.com.au

C.4 Department of Planning, Housing and Infrastructure – Resource Assessments

FW: E240084 - Ravensworth Operations 2024 Independent Environmental Audit

Reply | Reply All | Forward | ...

Paul Freeman
To Steve O'Donoghue

Fri 31/05/2024 1:44 PM

You forwarded this message on 31/05/2024 1:51 PM.

E240084 Ravensworth IEA DPHI Assessments consultation 20240531.pdf
.pdf File

Dear Steve

I hope you are well.

Please find attached a letter requesting advice ahead of the forthcoming independent environmental audit for the Ravensworth Coal Operations.

If you wish to discuss the matter further, feel free to contact me on 0407 102 898.

Kind regards

Paul

Paul Freeman RPIA
Associate Director
Energy Sector Lead
EMM
T 07 3648 1200
M 0407 102 898
LI Connect on LinkedIn
emmconsulting.com.au

C.5 Biodiversity Conservation Division

FW: E240084 - Ravensworth Operations 2024 Independent Environmental Audit

Reply | Reply All | Forward | ...

Paul Freeman
To info@environment.nsw.gov.au

Fri 31/05/2024 1:35 PM

E240084 Ravensworth IEA BCS consultation 20240531.pdf
.pdf File

Dear Sir/Madam

Please find attached a letter requesting advice ahead of the forthcoming independent environmental audit for the Ravensworth Coal Operations.

If you wish to discuss the matter further, feel free to contact me on 0407 102 898.

Kind regards

Paul Freeman RPIA
Associate Director
Energy Sector Lead

EMM
creating opportunities

T 07 3648 1200
M 0407 102 898
LI Connect on LinkedIn
emmconsulting.com.au

C.6 Heritage NSW

FW: E240084 - Ravensworth Operations 2024 Independent Environmental Audit

Reply | Reply All | Forward | ...

Paul Freeman
To heritagemailbox@environment.nsw.gov.au

Fri 31/05/2024 1:30 PM

E240084 Ravensworth IEA Heritage NSW consultation 20240531.pdf
.pdf File

Dear Sir/Madam

Please find attached a letter requesting advice ahead of the forthcoming independent environmental audit for the Ravensworth Coal Operations.

If you wish to discuss the matter further, feel free to contact me on 0407 102 898.

Kind regards

Paul Freeman RPIA
Associate Director
Energy Sector Lead

EMM
creating opportunities

T 07 3648 1200
M 0407 102 898
LI Connect on LinkedIn
emmconsulting.com.au

Department of Climate Change,
Energy, the Environment and Water

Our ref: DOC24/429824

Your ref: MP09_0176

Thomas Frankham

EMM Consulting

pfreeman@emmconsulting.com.au

Independent Environmental Audit – State Significant Development

Proposal: Ravensworth Coal Operations

Major Project reference: MP09_0176

Received: 31 May 2024

Dear Thomas,

Thank you for your referral seeking comment from Heritage NSW on the scope for the Independent Environmental Audit for the above State Significant Development. Thank you for the continued opportunity to comment on the project.

In respect to the scope of the audit for Aboriginal cultural heritage, Heritage NSW notes the requirements for ongoing management as per the Aboriginal Cultural heritage Management Plan.

It is recommended that the Department of Climate Change, Energy, the Environment and Water Compliance Team be contacted via info@environment.nsw.gov.au to determine if there is any non-compliance with Conditions of Consent for the project.

Please note that the above comments relate only to Aboriginal cultural heritage regulation matters. If you have any questions regarding these comments, please contact Alison Lamond, Senior Assessments Officer, at Heritage NSW on 0419 762 918 or alison.lamond@evironment.nsw.gov.au.

Yours sincerely

Alison Lamond
Principal Assessments Officer (Acting)
Heritage NSW
Department of Climate Change, Energy, the Environment and Water
As Delegate under *National Parks and Wildlife Act 1974*

6 June 2024

C.7 DCCEEW – Water

FW: E240084 - Ravensworth Operations 2024 Independent Environmental Audit

Reply | Reply All | Forward | ...

Paul Freeman
To water.enquiries@dpie.nsw.gov.au

Fri 31/05/2024 1:27 PM

You forwarded this message on 31/05/2024 1:29 PM.

E240084 Ravensworth IEA DCCEEW Water consultation 20240531.pdf
.pdf File

Dear Sir/Madam

Please find attached a letter requesting advice ahead of the forthcoming independent environmental audit for the Ravensworth Coal Operations.

If you wish to discuss the matter further, feel free to contact me on 0407 102 898.

Kind regards

Paul Freeman RPIA
Associate Director
Energy Sector Lead

EMM
creating opportunities

T 07 3648 1200
M 0407 102 898
LI Connect on LinkedIn
emmconsulting.com.au

NSW Department of Climate Change, Energy, the Environment and Water

NSW GOVERNMENT

Our ref: OUT24/7924

Paul Freeman
EMM Consulting
Email: pfreeman@emmconsulting.com.au

3 June 2024

Subject: Ravensworth Operations 2024 - Independent Environmental Audit (DA104/96)

Dear Paul,

I refer to your request seeking advice from the NSW Department of Climate Change, Energy, the Environment and Water (DCCEEW) Water Group on an upcoming audit for the above matter. It is understood this consultation is in accordance with conditions of approval for the project.

NSW DCCEEW Water Group understands that the scope of the audit as outlined under the development consent and the reference guideline, "Independent Audit Post Approval Requirements (2020)" extends to at least the following:

- Identification of compliance requirements and documentation of any non-compliances.
- Assessment of the adequacy and implementation of management plans and sub plans.
- Assessment of compliance against relevant regulatory requirements and legislation.
- Assessment of compliance between actual and predicted impacts in the environmental assessment.
- Reporting requirements for management plans.
- Identification of strengths of the project in environmental management and opportunities for improvement.

NSW DCCEEW Water Group requests that the audit address compliance with the following specific elements of the consent conditions and related legislative requirements in a manner consistent with the above audit scope:

- The requirement to prepare and implement management plans that relate to water sources and their dependent ecosystems and users, and associated impact management and mitigation. These plans may include:
  - Water Management Plans and related sub-plans eg. Site Water Balance, Erosion and Sediment Control Plan, Stormwater Management Plan, Surface and Groundwater Management Plan.
  - Extraction Plans and related sub-plans eg. Water Management Plan, Subsidence Management Plan.

4 Parramatta Square, 12 Darcy Street, Parramatta NSW 2150
Locked Bag 5022, Parramatta NSW 2124
https://www.nsw.gov.au/departments-and-agencies/dcceew

- The requirement to prepare and implement trigger action response plans for water source impacts which set clearly defined limits and actions. This is to be reported on within annual and exceedance-based reporting.
- Water supply availability is clearly defined for the project.
- Water take at the site via storage, diversion, interception or extraction is clearly documented and is authorised by a relevant Water Access Licence or exemption under the Water Management (General) Regulation 2018.
- Water metering at the site is in accordance with the NSW Non-Urban Metering Framework where relevant.
- Water Access Licence/s used to account for water take by the project nominates the work where the water is being taken from.
- Annual reporting clearly documents; 1) water take, use and water source impacts, 2) compares results with previous years, and 3) identifies exceedances and how these are managed/mitigated.

Should you have any further queries in relation to this submission please do not hesitate to contact NSW DCCEEW - Water Assessments at water.assessments@dpie.nsw.gov.au

Yours sincerely,

Tim Baker
Senior Project Officer
Water Assessments
NSW Department of Climate Change, Energy, the Environment and Water

C.8 Department of Regional NSW – Mining, Exploration and Geoscience

FW: E240084 - Ravensworth Operations 2024 Independent Environmental Audit

Reply | Reply All | Forward | ...

Paul Freeman
To mining.explorationassessment@geoscience.nsw.gov.au

Fri 31/05/2024 1:22 PM

E240084 Ravensworth IEA MEG consultation 20240531.pdf
.pdf File

Dear Sir/Madam

Please find attached a letter requesting advice ahead of the forthcoming independent environmental audit for the Ravensworth Coal Operations.

If you wish to discuss the matter further, feel free to contact me on 0407 102 898.

Kind regards

Paul Freeman RPIA
Associate Director
Energy Sector Lead
EMM creating opportunities
T 07 3648 1200
M 0407 102 898
LI Connect on LinkedIn
emmconsulting.com.au

C.9 Department of Regional NSW – Resources Regulator

FW: E240084 - Ravensworth Operations 2024 Independent Environmental Audit

Reply | Reply All | Forward | ...

Paul Freeman
To nswresourcesregulator@service-now.com

Fri 31/05/2024 1:18 PM

You forwarded this message on 31/05/2024 1:22 PM.

E240084 Ravensworth IEA RR consultation 20240531.pdf
.pdf File

Dear Sir/Madam

Please find attached a letter requesting advice ahead of the forthcoming independent environmental audit for the Ravensworth Coal Operations.

If you wish to discuss the matter further, feel free to contact me on 0407 102 898.

Kind regards

Paul Freeman RPIA
Associate Director
Energy Sector Lead

EMM
creating opportunities

T 07 3648 1200
M 0407 102 898
LI Connect on LinkedIn
emmconsulting.com.au

Regional NSW

AREQ0054425

Mr Paul Freeman
EMM Consulting
Level 3, 175 Scott Street
Newcastle NSW 2300
By email: pfreeman@emmconsulting.com.au

Dear Mr Freeman,

Subject: Ravensworth Complex – Independent Environmental Audit

Thank you for your email and letter dated 31 May 2024 requesting consultation on the independent environmental audit to be undertaken of the Ravensworth Complex which is covered by mining leases:

- CCL723 (1973)
- CCL739 (1973)
- CL378 (1973)
- CL380 (1973)
- CL580 (1973)
- ML1325 (1992)
- ML1348 (1992)
- ML1349 (1992
- ML1357 (1992)
- ML1393 (1992)
- ML1398 (1992)
- ML1416 (1992)
- ML1477 (1992)
- ML1484 (1992)
- ML1485 (1992)
- ML1495 (1993)
- ML1502 (1992)
- ML1506 (1992)
- ML1576 (1992)
- ML1580 (1992)
- ML1581 (1992)
- ML1591 (1992)
- ML1595 (1992)
- ML1625 (1992)
- ML1667 (1992)
- ML1668 (1992)
- ML1669 (1992)
- ML1683 (1992)

The independent environmental audit is required to assess compliance against the relevant environmental management conditions of the mining leases up to 1 July 2022, including implementation of the mining operations plan for the site.

From 2 July 2022, the independent environmental audit should provide an assessment of compliance with the requirements of Schedule 8A Standard conditions of mining leases, Part 2 Standard conditions, as set out in the Mining Regulation 2016.

The audit should note observations where rehabilitation procedures, practices and outcomes represent best industry practice. It would be appreciated if a copy of the final audit report could be sent to the Regulator at nswresourcesregulator@service-now.com upon completion of the audit.

Yours sincerely

Jenny Ehmsen
Principal Compliance Auditor
7 June 2024

C.10 Environment Protection Authority

E240084 - Ravensworth Operations 2024 Independent Environmental Audit

Reply | Reply All | Forward | ...

Paul Freeman
To info@epa.nsw.gov.au

Fri 31/05/2024 1:14 PM

E240084 Ravensworth IEA EPA consultation 20240531.pdf
.pdf File

Dear Sir/Madam

Please find attached a letter requesting advice ahead of the forthcoming independent environmental audit for the Ravensworth Coal Operations.

If you wish to discuss the matter further, feel free to contact me on 0407 102 898.

Kind regards

Paul Freeman RPIA
Associate Director
Energy Sector Lead

EMM creating opportunities

T 07 3648 1200
M 0407 102 898
LI Connect on LinkedIn
emmconsulting.com.au

Thank you for your email. Your Reference Id is 01180576 (ref:!00D7F06iTix.!500GA01PW7Lf:ref)

Reply | Reply All | Forward | ...

Environment Line <info@environment.nsw.gov.au>
To Paul Freeman

Fri 31/05/2024 1:15 PM

If there are problems with how this message is displayed, click here to view it in a web browser.

You don't often get email from info@environment.nsw.gov.au. Learn why this is important

CAUTION: This email originated outside of the Organisation.

NSW GOVERNMENT | Planning, Industry & Environment

nsw epa

Thank you for your enquiry. Environment Line will process your request within 5 working days. If your matter is urgent, please call Environment Line on 131555. For enquiries or requests that are more involved or technical, a longer response time may be necessary. If you have not already visited our websites and wish to do so, please go to www.environment.nsw.gov.au or www.epa.nsw.gov.au

If you are emailing to report an urgent pollution incident, please call 131 555 (press option 1).

Where the EPA or DPE is not the appropriate authority to manage your report, it will be forwarded to the appropriate authority. For example, commercial noise complaints for smaller factories, backyard workshops, smoke from residential backyard fires or chimneys or dumping in public areas are the responsibility of Local Councils; loud music or patron noise from public venues are the responsibility of Liquor & Gaming NSW, rubbish on major roads and highways is the responsibility of Transport for NSW. Any information provided regarding this type of pollution will be forwarded to those authorities for action.

If you do not consent to your report being forwarded, please reply to this email to advise that you would like to 'opt out' of any further action. You may also request that your details remain anonymous or confidential, however in certain circumstances this may limit our ability to deal with any complaint further. Details of our Privacy information can be found here.

When sending further emails about this topic (E240084 - Ravensworth Operations 2024 Independent Environmental Audit), please ensure the following extended Reference Id appears anywhere in the email subject or body:

ref:!00D7F06iTix.!500GA01PW7Lf:ref

C.11 Natural Resources Access Regulator

FW: E240084 - Ravensworth Operations 2024 Independent Environmental Audit

Reply | Reply All | Forward | ...

Paul Freeman
To nrar.enquiries@nrar.nsw.gov.au

Fri 31/05/2024 1:12 PM

You forwarded this message on 31/05/2024 1:14 PM.

E240084 Ravensworth IEA NRAR consultation 20240531.pdf
.pdf File

Dear Sir/Madam

Please find attached a letter requesting advice ahead of the forthcoming independent environmental audit for the Ravensworth Coal Operations.

If you wish to discuss the matter further, feel free to contact me on 0407 102 898.

Kind regards

Paul Freeman RPIA
Associate Director
Energy Sector Lead

EMM creating opportunities

T 07 3648 1200
M 0407 102 898
Connect on LinkedIn
emmconsulting.com.au

NRAR: NRAR0006254 - FW: E240084 - Ravensworth Operations 2024 Independent Environmental Audit

Reply | Reply All | Forward | ...

NR Natural Resources Access Regulator <cspconnect@service-now.com>
To Paul Freeman

Mon 3/06/2024 11:19 AM

You forwarded this message on 3/06/2024 11:33 AM.
If there are problems with how this message is displayed, click here to view it in a web browser.

You don't often get email from cspconnect@service-now.com. Learn why this is important

CAUTION: This email originated outside of the Organisation.

Dear Paul,

Thank you for sending your email to Natural Resources Access Regulator (NRAR), due to a recent restructure, the Department of Climate Change, Energy, the Environment & Water- Water Licensing (DCCEEW- Water) is now responsible for controlled activity approvals, works on waterfront land and licences and approvals for large water users.

All other licences and approvals continue to be managed by WaterNSW.

Your matter will now be dealt with by Department of Climate Change, Energy, the Environment & Water- Water Licensing (DCCEEW- Water) and you will have to email your enquiry to waterlicensing.servicedesk@dpie.nsw.gov.au or contact DCCEEW Water on 1300 081 047.

For any further emails to Department of Climate Change, Energy, the Environment & Water- Water Licensing (DCCEEW- Water) please email waterlicensing.servicedesk@dpie.nsw.gov.au

This ticket will now be closed, you may receive a 'resolved ticket' email.

Kind regards,
Mandi

Regulatory Support Team

Natural Resources Access Regulator (NRAR)
Enrar.enquiries@nrar.nsw.gov.au | Wnrar.nsw.gov.au | P 1800 633 362
Postal Address: Locked Bag 5022, Parramatta NSW 2124
Working Days: Monday to Friday | 9:00am - 5:00pm

C.12 Singleton Council

E240084 - Ravensworth Operations 2024 Independent Environmental Audit

Reply | Reply All | Forward | ...

Paul Freeman
To council@singleton.nsw.gov.au

Fri 31/05/2024 1:06 PM

E240084 Ravensworth IEA SC consultation 20240531.pdf
.pdf File

Dear Sir/Madam

Please find attached a letter requesting advice ahead of the forthcoming independent environmental audit for the Ravensworth Coal Operations.

If you wish to discuss the matter further, feel free to contact me on 0407 102 898.

Kind regards

Paul Freeman RPIA
Associate Director
Energy Sector Lead

EMM
creating opportunities

T 07 3648 1200
M 0407 102 898
LI Connect on LinkedIn
emmconsulting.com.au

C.13 Community Consultative Committee

From: Paul Freeman
Sent: Wednesday, May 22, 2024 3:51 PM
To: w.paradice@icloud.com
Cc: Thomas Frankham <tfrankham@emmconsulting.com.au>
Subject: E240084 - Ravensworth Operations Independent Environmental Audit

Dear Dr Paradice

EMM Consulting (EMM) has been engaged by Glencore to undertake the 2024 Independent Environmental Audit (audit) of the Ravensworth Operations.

Please see attached letter of request to the CCC to nominate any areas of compliance or environmental management at Ravensworth Operations that warrant particular examination within the audit.

If you wish to discuss the matter further, feel free to contact me on 0407 102 898.

Kind regards

Paul Freeman RPIA
Associate Director
Energy Sector Lead

T 07 3648 1200
M 0407 102 898
LI Connect on LinkedIn
emmconsulting.com.au

Appendix D

Independent audit declaration form

EMM
creating opportunities

Table D.1 Independent Audit Report Declaration Form – James Wearne (lead auditor)

Project name	Ravensworth Operation
Consent number	PA 09_0176 and DA 104/96
Description of project	Construction and operation of the Ravensworth Operations Project and associated infrastructure
Project address	Lemington Rd, Liddell NSW 2333
Proponent	Ravensworth Operations Pty Limited
Title of Audit	Ravensworth Operations Independent Environmental Audit 2024
Date	5 August 2024

I declare that I have undertaken the Independent Audit and prepared the contents of the attached Independent Audit Report and to the best of my knowledge:

i. the audit has been undertaken in accordance with relevant condition(s) of consent and the *Independent Audit Compliance Requirements* (Department 2019)

ii. the findings of the audit are reported truthfully, accurately and completely

iii. I have exercised due diligence and professional judgement in conducting the audit

iv. I have acted professionally, objectively and in an unbiased manner

v. I am not related to any proponent, owner or operator of the project neither as an employer, business partner, employee, or by sharing a common employer, having a contractual arrangement outside the audit, or by relationship as spouse, partner, sibling, parent, or child

vi. I do not have any pecuniary interest in the audited project, including where there is a reasonable likelihood or expectation of financial gain or loss to me or spouse, partner, sibling, parent, or child

vii. neither I nor my employer have provided consultancy services for the audited project that were subject to this audit except as otherwise declared to the Department prior to the audit

viii. I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from payment for auditing services) from any proponent, owner or operator of the project, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

Note.

- Under section 10.6 of the *Environmental Planning and Assessment Act 1979* a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, $1 million and for an individual, $250,000.
- The *Crimes Act 1900* contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both).

Name of Auditor	James Wearne
Signature	
Qualification	BEnvSc, DipBus (Quality Auditing), DipLedMgnt, DipMgnt, DipBus
Company	EMM Consulting
Company address	Level 3, 175 Scott Street, Newcastle NSW 2300

Table D.2 Independent Audit Report Declaration Form – Paul Freeman (assistant auditor)

Project name	Ravensworth Operation
Consent number	PA 09_0176 and DA 104/96
Description of project	Construction and operation of the Ravensworth Operations Project and associated infrastructure
Project address	Lemington Rd, Liddell NSW 2333
Proponent	Ravensworth Operations Pty Limited
Title of Audit	Ravensworth Operations Independent Environmental Audit 2024
Date	25 September 2024

I declare that I have undertaken the Independent Audit and prepared the contents of the attached Independent Audit Report and to the best of my knowledge:

i. the audit has been undertaken in accordance with relevant condition(s) of consent and the *Independent Audit Compliance Requirements* (Department 2019)

ii. the findings of the audit are reported truthfully, accurately and completely

iii. I have exercised due diligence and professional judgement in conducting the audit

iv. I have acted professionally, objectively and in an unbiased manner

v. I am not related to any proponent, owner or operator of the project neither as an employer, business partner, employee, or by sharing a common employer, having a contractual arrangement outside the audit, or by relationship as spouse, partner, sibling, parent, or child

vi. I do not have any pecuniary interest in the audited project, including where there is a reasonable likelihood or expectation of financial gain or loss to me or spouse, partner, sibling, parent, or child

vii. neither I nor my employer have provided consultancy services for the audited project that were subject to this audit except as otherwise declared to the Department prior to the audit

viii. I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from payment for auditing services) from any proponent, owner or operator of the project, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

Note.

- Under section 10.6 of the *Environmental Planning and Assessment Act 1979* a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, $1 million and for an individual, $250,000.
- The *Crimes Act 1900* contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both).

Name of Auditor	Paul Freeman
Signature	
Qualification	MUrbRegPlan, Registered Planner, REAP
Company	EMM Consulting
Company address	Level 3, 175 Scott Street, Newcastle NSW 2300

Table D.3 Independent Audit Report Declaration Form – Samantha Hayes (assistant auditor)

Project name	Ravensworth Operation
Consent number	PA 09_0176 and DA 104/96
Description of project	Construction and operation of the Ravensworth Operations Project and associated infrastructure
Project address	Lemington Rd, Liddell NSW 2333
Proponent	Ravensworth Operations Pty Limited
Title of Audit	Ravensworth Operations Independent Environmental Audit 2024
Date	25 September 2024

I declare that I have undertaken the Independent Audit and prepared the contents of the attached Independent Audit Report and to the best of my knowledge:

i. the audit has been undertaken in accordance with relevant condition(s) of consent and the *Independent Audit Compliance Requirements* (Department 2019)

ii. the findings of the audit are reported truthfully, accurately and completely

iii. I have exercised due diligence and professional judgement in conducting the audit

iv. I have acted professionally, objectively and in an unbiased manner

v. I am not related to any proponent, owner or operator of the project neither as an employer, business partner, employee, or by sharing a common employer, having a contractual arrangement outside the audit, or by relationship as spouse, partner, sibling, parent, or child

vi. I do not have any pecuniary interest in the audited project, including where there is a reasonable likelihood or expectation of financial gain or loss to me or spouse, partner, sibling, parent, or child

vii. neither I nor my employer have provided consultancy services for the audited project that were subject to this audit except as otherwise declared to the Department prior to the audit

viii. I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from payment for auditing services) from any proponent, owner or operator of the project, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

Note.

- Under section 10.6 of the *Environmental Planning and Assessment Act 1979* a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, $1 million and for an individual, $250,000.
- The *Crimes Act 1900* contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both).

Name of Auditor	Samantha Hayes
Signature	
Qualification	BDevStu (Environmental Sustainability), MEnvMgnt
Company	EMM Consulting
Company address	Level 3, 175 Scott Street, Newcastle NSW 2300

Table D.4 Independent Audit Report Declaration Form – Jesse Tribby (noise, blast and vibration technical expert)

Project name	Ravensworth Operation
Consent number	PA 09_0176 and DA 104/96
Description of project	Construction and operation of the Ravensworth Operations Project and associated infrastructure
Project address	Lemington Rd, Liddell NSW 2333
Proponent	Ravensworth Operations Pty Limited
Title of Audit	Ravensworth Operations Independent Environmental Audit 2024
Date	25 September 2024

I declare that I have undertaken the Independent Audit and prepared the contents of the attached Independent Audit Report and to the best of my knowledge:

i. the audit has been undertaken in accordance with relevant condition(s) of consent and the *Independent Audit Compliance Requirements* (Department 2019)

ii. the findings of the audit are reported truthfully, accurately and completely

iii. I have exercised due diligence and professional judgement in conducting the audit

iv. I have acted professionally, objectively and in an unbiased manner

v. I am not related to any proponent, owner or operator of the project neither as an employer, business partner, employee, or by sharing a common employer, having a contractual arrangement outside the audit, or by relationship as spouse, partner, sibling, parent, or child

vi. I do not have any pecuniary interest in the audited project, including where there is a reasonable likelihood or expectation of financial gain or loss to me or spouse, partner, sibling, parent, or child

vii. neither I nor my employer have provided consultancy services for the audited project that were subject to this audit except as otherwise declared to the Department prior to the audit

viii. I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from payment for auditing services) from any proponent, owner or operator of the project, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

Note.

- Under section 10.6 of the *Environmental Planning and Assessment Act 1979* a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, $1 million and for an individual, $250,000.
- The *Crimes Act 1900* contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both).

Name of Auditor	Jesse Tribby
Signature	
Qualification	BSc (Cum Laude, Interdisciplinary Studies, Music and Acoustical Engineering)
Company	EMM Consulting
Company address	Level 3, 175 Scott Street, Newcastle NSW 2300

Table D.5 Independent Audit Report Declaration Form – Francine Manansala (air quality and greenhouse gas emissions technical expert)

Project name	Ravensworth Operation
Consent number	PA 09_0176 and DA 104/96
Description of project	Construction and operation of the Ravensworth Operations Project and associated infrastructure
Project address	Lemington Rd, Liddell NSW 2333
Proponent	Ravensworth Operations Pty Limited
Title of Audit	Ravensworth Operations Independent Environmental Audit 2024
Date	25 September 2024

I declare that I have undertaken the Independent Audit and prepared the contents of the attached Independent Audit Report and to the best of my knowledge:

i. the audit has been undertaken in accordance with relevant condition(s) of consent and the *Independent Audit Compliance Requirements* (Department 2019)

ii. the findings of the audit are reported truthfully, accurately and completely

iii. I have exercised due diligence and professional judgement in conducting the audit

iv. I have acted professionally, objectively and in an unbiased manner

v. I am not related to any proponent, owner or operator of the project neither as an employer, business partner, employee, or by sharing a common employer, having a contractual arrangement outside the audit, or by relationship as spouse, partner, sibling, parent, or child

vi. I do not have any pecuniary interest in the audited project, including where there is a reasonable likelihood or expectation of financial gain or loss to me or spouse, partner, sibling, parent, or child

vii. neither I nor my employer have provided consultancy services for the audited project that were subject to this audit except as otherwise declared to the Department prior to the audit

viii. I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from payment for auditing services) from any proponent, owner or operator of the project, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

Note.

- Under section 10.6 of the *Environmental Planning and Assessment Act 1979* a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, $1 million and for an individual, $250,000.
- The *Crimes Act 1900* contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both).

Name of Auditor	Francine Manansala
Signature	
Qualification	BArts (Resource and Environmental Management), CASANZ Certified Air Quality Professional
Company	EMM Consulting
Company address	Level 3, 175 Scott Street, Newcastle NSW 2300

Table D.6 Independent Audit Report Declaration Form – Clayton Richards (rehabilitation specialist)

Project name	Ravensworth Operation
Consent number	PA 09_0176 and DA 104/96
Description of project	Construction and operation of the Ravensworth Operations Project and associated infrastructure
Project address	Lemington Rd, Liddell NSW 2333
Proponent	Ravensworth Operations Pty Limited
Title of Audit	Ravensworth Operations Independent Environmental Audit 2024
Date	25 September 2024

I declare that I have undertaken the Independent Audit and prepared the contents of the attached Independent Audit Report and to the best of my knowledge:

i. the audit has been undertaken in accordance with relevant condition(s) of consent and the *Independent Audit Compliance Requirements* (Department 2019)

ii. the findings of the audit are reported truthfully, accurately and completely

iii. I have exercised due diligence and professional judgement in conducting the audit

iv. I have acted professionally, objectively and in an unbiased manner

v. I am not related to any proponent, owner or operator of the project neither as an employer, business partner, employee, or by sharing a common employer, having a contractual arrangement outside the audit, or by relationship as spouse, partner, sibling, parent, or child

vi. I do not have any pecuniary interest in the audited project, including where there is a reasonable likelihood or expectation of financial gain or loss to me or spouse, partner, sibling, parent, or child

vii. neither I nor my employer have provided consultancy services for the audited project that were subject to this audit except as otherwise declared to the Department prior to the audit

viii. I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from payment for auditing services) from any proponent, owner or operator of the project, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

Note.

- Under section 10.6 of the *Environmental Planning and Assessment Act 1979* a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, $1 million and for an individual, $250,000.
- The *Crimes Act 1900* contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both).

Name of Auditor	Clayton Richards
Signature	C. Richards
Qualification	BNatRes (Hons), Certified Professional Soil Scientist (CPSS)
Company	Minesoils Pty Ltd
Company address	Tamworth NSW

Appendix E

Opening and closing meeting attendees

EMM
creating opportunities

Table E.1 Opening and closing meeting attendees

Name	Position
Klay Marchant	Environment and Community Manager
Brittany Morrison	Environment and Community Officer
Dylan Evans	Environment and Community Officer
Tom Hubert	Operations Manager (opening meeting only)
Pheobe Smyth	HSEC Assurance Officer
James Wearne	Associate Environmental Scientist – Lead Auditor
Paul Freeman	Associate Director
Samantha Hayes	Senior Environmental Consultant

Note: Opening and closing meeting were attended by relevant site personnel and EMM auditors who attended the site inspection on 26 June 2024.

Appendix F

Site inspection photographs

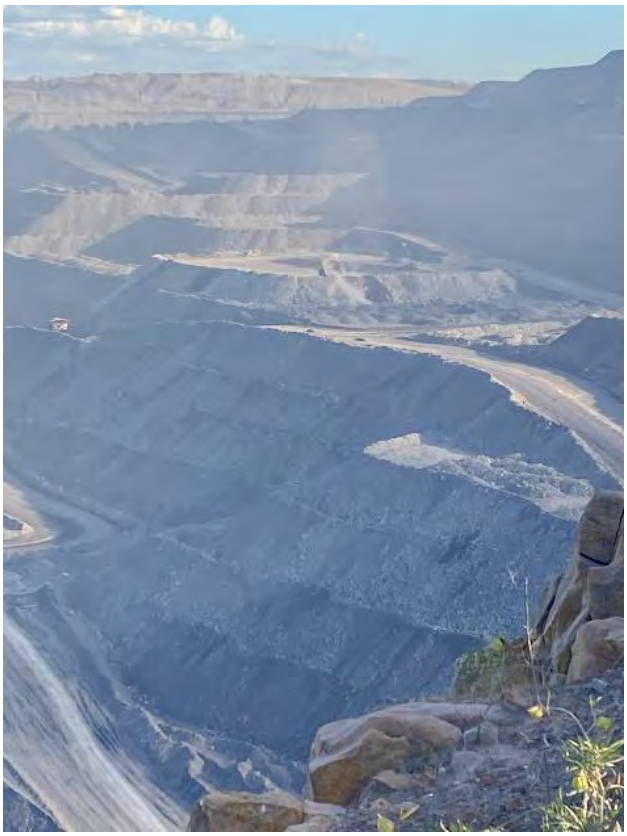
EMM
creating opportunities

Photograph F.1 **Active mining area**

Photograph F.2 **Active mining area**

Photograph F.3 **Active mining area**

Photograph F.4 **Active mining area**



Photograph F.5 **Active mining area**

Photograph F.6 **Active mining area**

Photograph F.7 **Active mining area**

Photograph F.8 **Frog wash area**

Photograph F.9 **Frog wash area**

Photograph F.10 **Ravensworth North Offset Area**

Photograph F.11 **Ravensworth North Offset Area**

Photograph F.12 **Aboriginal heritage site**

Photograph F.13 **Aboriginal heritage site**

Photograph F.14 **Surveylance camera**

Photograph F.15 **Weeds**

Photograph F.16 **Rehabilitation**

Photograph F.17 **Air quality monitoring station**

Photograph F.18 **Air quality monitoring station**

Photograph F.19 **Green and Golden Bellfrog pond**

Photograph F.20 **Green and Golden Bellfrog pond**

Photograph F.21 **Feral animal trap**

Photograph F.22 **Rehabilitation**

Photograph F.23 **Nest box**

Photograph F.24 **Nest box**

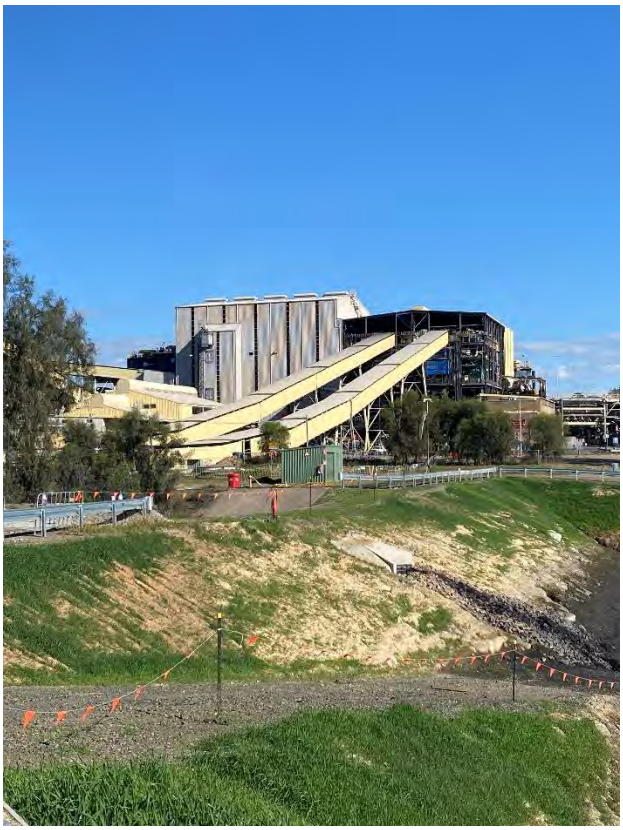
Photograph F.25 **Demolition area at RUM**

Photograph F.26 **Replacing transfer shute cladding**

Photograph F.27 **Replacing transfer chute cladding**

Photograph F.28 CHPP dam

Photograph F.29 Hydrocarbon storage



Photograph F.30 **CHPP**

Photograph F.31 **Spill kit**

Photograph F.32 **Cardboard recycling**

Photograph F.33 **Hydrocarbon storage**

Photograph F.34 **Hydrocarbon storage**

Photograph F.35 **Waste bins**

Photograph F.36 **Storage container**

Photograph F.37 **Hydrocarbon storage**

Photograph F.38 **Hydrocarbon storage**

Photograph F.39 **Hydrocarbon storage**

Photograph F.40 **Storage shed**

Photograph F.41 **Storage shed**

Photograph F.42 **Hydrocarbon storage**

Photograph F.43 **Coal storage bins**

Photograph F.44 **CHPP water runoff**

Photograph F.45 **CHPP water runoff**

Photograph F.46 **CHPP water runoff**

Photograph F.47 **Emergency shower and eye wash**

Photograph F.48 Enclosed conveyor

Photograph F.49 Metal storage

Photograph F.50 Diesel storage

Photograph F.51 Diesel storage and pump

Photograph F.52 **Emergency shower and eye wash**

Photograph F.53 **RUM shaft closure and rehabilitation**

Photograph F.54 **Highway Dam**

Photograph F.55 **Meteorological station**

Photograph F.56 **CHPP and conveyors**

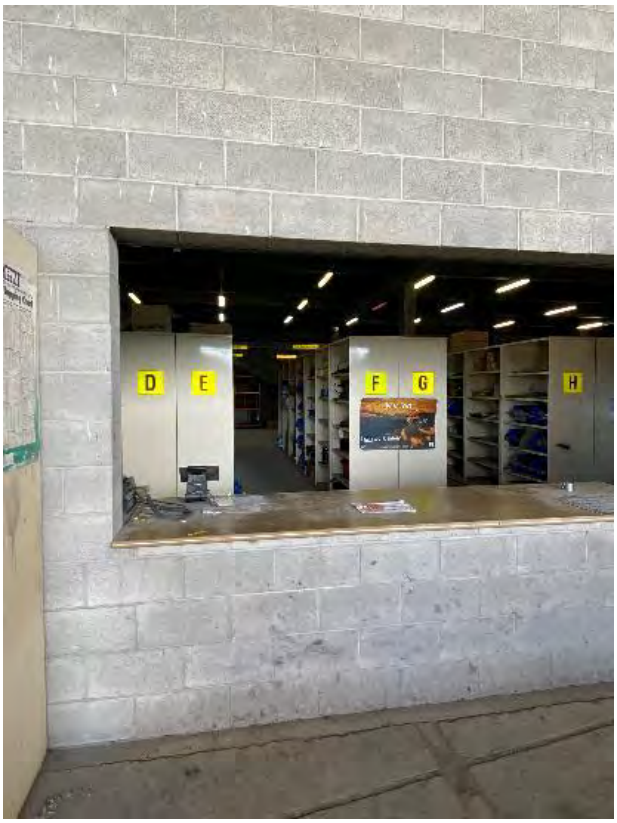
Photograph F.57 **Sewage treatment system**

Photograph F.58 **Mine infrastruacture area (MIA)**

Photograph F.59 **Emergency shower and eye wash in MIA**

Photograph F.60 **Fire extinguisher**

Photograph F.61 **MIA**



Photograph F.62 **MIA**

Photograph F.63 **MIA**

Photograph F.64 **MIA**

Photograph F.65 **MIA**

Photograph F.66 **MIA**

Photograph F.67 **MIA**

Photograph F.68 **MIA**

Photograph F.69 **MIA**

Photograph F.70 **Segregated waste storage**

Photograph F.71 **Segregated waste storage**

Photograph F.72 **Segregated waste storage**

Photograph F.73 **Hydrocarbon storage**

Photograph F.74 **Diesel storage**

Photograph F.75 **Oil storage**

Photograph F.76 **Tyre storage**

Photograph F.77 **Oil storage**

Photograph F.78 Recycling

Photograph F.79 Diesel storage

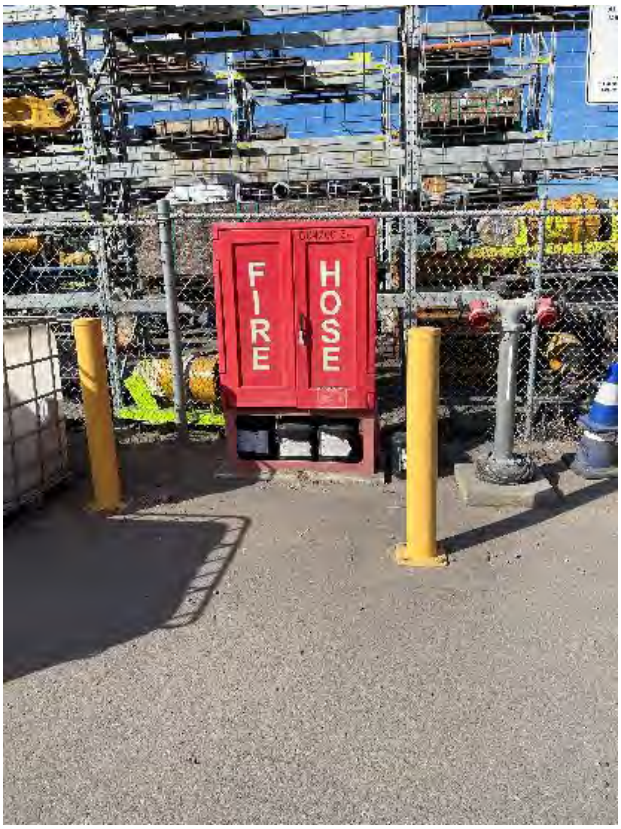
Photograph F.80 **Gas storage**

Photograph F.81 **MIA**

Photograph F.82 **Hydrocarbon storage**

Photograph F.83 **Diesel storage**

Photograph F.84 **Surface water management**



Photograph F.85 **Fire hose**

Photograph F.86 **Public notification via newspaper**

Photograph F.87 **Groundwater monitoring location**

Photograph F.88 **Western Emplacement Area (WEA) 40ha re-work area of rehabilitation**

Photograph F.89 **WEA rehabilitation progress**

Photograph F.90 **WEA rehabilitation progress**

Photograph F.91 **WEA rehabilitation progress**

Photograph F.92 **Well maintained tracks throughout rehabilitation areas**

Photograph F.93 **WEA rehabilitation (foreground) and Cumnock Rehabilitation (background)**

Photograph F.94 **Newly seeded area on the WEA (note mulch and deep ripping)**

Photograph F.95 **Active mining areas and different stages of rehabilitation on the Eastern Emplacement Area (EEA) (note rock lined geomorphic drainage lines)**

Photograph F.96 **Active mining areas plus grassland/woodland on the EEA (background)**

Photograph F.97 **Active topsoil stockpile on the EEA being used to spread over prepped landform**

Photograph F.98 **Rock RipRap being saved for use in geomorphic drainage lines**

Photograph F.99 **Newly prepared rehabilitation area with mulch and gypsum applied**

Photograph F.100 **Area of *Acacia Saligna* targeted for control and management**

Photograph F.101 **Recent re-worked area of rehabilitation on the EEA**

Photograph F.102 **Established rehabilitation on the EEA**

Photograph F.103 **Herbicide treatment underway on the rehabilitated pasture area**

Photograph F.104 **Topsoil stockpile sown with final rehab species to create seedbank in topsoil over long term**

Photograph F.105 **Recent rehabilitation with geomorphic landform and drainage, note some rill erosion to be addressed in maintenance program**

Photograph F.106 **Temporary ESC measures adjacent access road to minimise sediment laden water flowing to sedimentation pond**

Photograph F.107 **Topsoil being placed on final shaped landform with varying stages of rehabilitation adjacent**

Australia

SYDNEY
Ground floor 20 Chandos Street
St Leonards NSW 2065
T 02 9493 9500

NEWCASTLE
Level 3 175 Scott Street
Newcastle NSW 2300
T 02 4907 4800

BRISBANE
Level 1 87 Wickham Terrace
Spring Hill QLD 4000
T 07 3648 1200

CANBERRA
Suite 2.04 Level 2
15 London Circuit
Canberra City ACT 2601

ADELAIDE
Level 4 74 Pirie Street
Adelaide SA 5000
T 08 8232 2253

MELBOURNE
Suite 8.02 Level 8
454 Collins Street
Melbourne VIC 3000
T 03 9993 1900

PERTH
Suite 3.03
111 St Georges Terrace
Perth WA 6000
T 08 6430 4800

Canada

TORONTO
2345 Yonge Street Suite 300
Toronto ON M4P 2E5
T 647 467 1605

VANCOUVER
422 Richards Street Unit 170
Vancouver BC V6B 2Z4
T 604 999 8297

CALGARY
606 4th Street SW 11 Floor
Calgary Alberta T2P 1T1

linkedin.com/company/emm-consulting-pty-limited

emmconsulting.com.au