

# ENV-EMS-STR-001

## Environmental Management Strategy



# Document details and history

## Document details

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## 1.0 INTRODUCTION

This Environmental Management Strategy (EMS) has been developed for the Boggabri Coal Mine (BCM), an open cut coal mine located 15 km north-east of the township of Boggabri in north-western New South Wales (NSW). BCM is managed by Boggabri Coal Operations Pty Ltd (BCOPL) which is owned by Idemitsu Australia (IA) (80%), Chugoku Electric Power Australia Resources Pty Ltd (10%) and NS Boggabri Pty Limited (10%).

State Significant Development (SSD 09\_0182) allows BCM to continue mining operations until 2036, undertake mining operations 24 hours a day, seven days a week and increase its production rate to 8.6 Mtpa of product coal.

### 1.1 Purpose of Environmental Management Strategy

Schedule 5, Condition 1 of the Project Approval requires the preparation of an Environmental Management Strategy (EMS). This plan has been prepared in fulfilment of this approval requirement. The specific requirements of the EMS are listed in Table 2-2.

This strategy also outlines the document management system and how the EMS is planned, implemented, monitored and is aligned to ISO 14001 Environment management systems – Requirements with guidance for use.

### 1.2 Environmental Management Policy

BCOPL's parent company, IA, has developed an environmental management policy for all group companies including BCM. This EMS was developed to support the IA Environment Management Policy. The intent of the policy is to ensure all group companies including BCOPL are committed to:

- As a minimum comply with all environment legislation applicable to the regions in which we operate.
- establishing and maintaining constructive communications with our stakeholders so we clearly understand the environmental impacts from our operations and projects.
- using this information to create a holistic picture of the environment in which we operate and to eliminate, minimise, or mitigate our impacts.
- develop, implement and maintain a fit for purpose Environment Management System aligned with ISO14001.
- Manage carbon emissions at all IA sites and in business planning to support the overall strategic targets set by Idemitsu Kosan Co. Ltd's (IKC).

### 1.3 Elements Covered by the Environment Management Strategy

This EMS applies to all employees and contractors at the BCM and covers all areas under the direct management of BCOPL. A figure showing the extent of the Project Approval boundary for the BCM and environmental monitoring sites is provided in Appendix A.

## 2.0 STATUTORY REQUIREMENTS

### 2.1 Leases, Licences and Approvals

The leases, licences and approvals under which the BCM operates are summarised in Table 2-1.

**Table 2-1 Lease, Licences and approvals**

Description	Date granted/ commencement date	Expiry/duration
<b>Project Approvals</b>		
Project Approval 09_0182 (as modified)	18 July 2012	31 December 2036
EPBC Act Approval 2009/5256 (as varied)	11 February 2013	31 December 2053
EPBC Referral 2021/8875 (Regarding SSD 09_0182 (MOD 8))	Under Assessment.	
<b>Coal Leases</b>		
Coal Lease CL 368	15 November 1990	14 November 2032
<b>Mining Leases/Authorisations</b>		
Authorisation A 355	19 July 1984	11 April 2028
Authorisation A 339	11 April 1984	11 April 2025
Mining Lease ML1755	30 June 2017	30 June 2038
Mining Lease Application MLA 586	Lodged 5 May 2020 – Under Assessment	
<b>Environmental Protection Licences</b>		
Environmental Protection Licence (EPL) 12407	11 January 2006	In perpetuity (Anniversary 11 January) until surrendered
<b>Water Licences</b>		
WAL 12691	1 Nov 2006	In perpetuity
WAL12767	1 Nov 2006	In perpetuity
WAL15037	1 Nov 2006	In perpetuity
WAL24103	29 Jun 2011	In perpetuity
WAL29473	16 Jan 2012	In perpetuity

Description	Date granted/ commencement date	Expiry/duration
WAL29562	16 Jan 2012	In perpetuity
WAL2571	12 December 2013	In perpetuity
WAL2572	25 December 2013	In perpetuity
WAL2595	12 December 2013	In perpetuity
WAL2596	25 September 2013	In perpetuity
WAL36547	6 February 2014	In perpetuity
WAL357519	16 February 2016	In perpetuity
WAL42234	9 January 2019	In perpetuity
WAL31084	22 August 2013	In perpetuity
WAL37067	26 April 2016	In perpetuity
WAL44134	21 April 2022	In perpetuity
90FW833717	21 September 2015	4 April 2030
90FW834023	21 September 2015	4 June 2029
Rehabilitation Reforms		
Forward Program	31 March 2023	31 December 2025
Radiation Licences		
Licence No. 5083602	14 June 2017	14 June 2024
Council Approvals		
CC 04-04-2012 Mod1	22 October 2012	In perpetuity
CC 02-03-2012	6 June 2012	In perpetuity
CC 10-01-2012 Mod1	1 June 2012	In perpetuity
OC 09-10-2013	19 November 2013	In perpetuity
OC 02-04-2013	9 April 2013	In perpetuity
OC 01-03-2013	28 March 2013	In perpetuity

Description	Date granted/ commencement date	Expiry/duration
C6 – Approval to Operate a System of Sewage Management	20 February 2012	13 May 2024
Part 5 Determination – Goonbri Road Upgrade	28 March 2014	In perpetuity
Forestry Corporation Permits		
Forestry Compensation Agreement	23 January 2006	14 November 2032
Land Access and Compensation Arrangement	5 June 2009	14 November 2032
Crown Lands Licences		
RI 507102	12 November 2012	14 November 2032
RI 533986	5 June 2014	14 November 2032

Schedule 5, Condition 1 of the Project Approval requires the preparation of an EMS. The specific requirements of the EMS are listed in Table 2-2.

**Table 2-2 Approval Requirements**

Project Approval requirement	Where addressed in this document
<b>The Proponent shall prepare and implement an Environment Management Strategy for the project to the satisfaction of the Secretary. The strategy must:</b>	Entire document
<b>(a) be submitted to the Secretary for approval within 6 months of the date of this approval</b>	N/A (Refer to revision history)
<b>(b) provide the strategic framework for environmental management of the project</b>	Entire document
<b>(c) identify the statutory approvals that apply to the project;</b>	Section 2.1
<b>(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project</b>	Section 3.1
<b>e) describe the procedures that would be implemented to:</b>	

Project Approval requirement	Where addressed in this document
keep the local community and relevant agencies informed about the operation and environmental performance of the project;	Section 3.4
receive, handle, respond to, and record complaints;	Section 3.6
resolve any disputes that may arise during the course of the project;	Section 3.7
respond to any non-compliance	Section 3.5
respond to emergencies; and	Section 3.5
(f) include:	
copies of any strategies, plans and programs approved under the conditions of this consent; and	Section 3.2 (refer to Figure 1 for structure and MOP for copies)
a clear plan depicting all the monitoring to be carried out in relation to the project.	Appendix A

### 3.0 IMPLEMENTATION

#### 3.1 Roles and Responsibilities

The management of activities with potential to impact the environment and the community will be the responsibility of all BCOPL employees and contractors. All employees and contractors are responsible to comply with the documents referred to in this environment management strategy.

Key management personnel and their relevant roles and responsibilities with regard to environment management and community relations are outlined in Table 3-1.

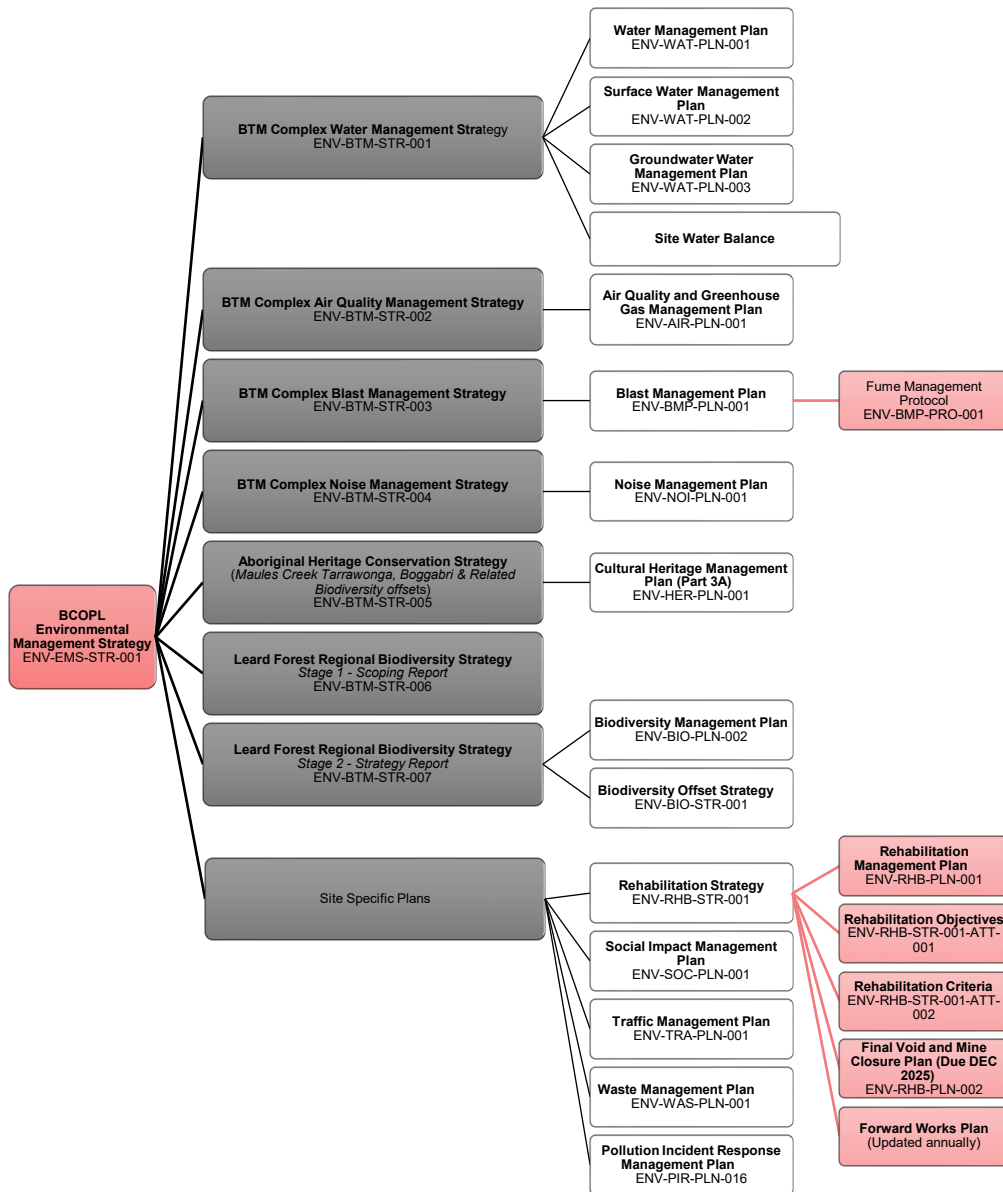
**Table 3-1 BCOPL Personnel Responsibility**

Role	Responsibility
<b>BCOPL General Manager</b>	Maintain a working knowledge of this EMS and the applicable environmental legislative requirements associated with the operation; and providing sufficient resources for the effective implementation of environment management requirements, as outlined in this environment management strategy.
<b>BCOPL Deputy General Manager/ Environment and Community Manager</b>	Providing sufficient resources for the effective implementation of environment management requirements, as outlined in this environment management strategy; and Liaising with regulatory authorities regarding environment management, regulatory conditions and compliance, and community relations
<b>BCOPL Environmental Operations Superintendent</b>	Implement and maintain the EMS; Raising environment awareness among mine personnel and contractors via environmental induction presentations, environmental training packages and tool box talks; Respond to community complaints; Liaising with regulatory authorities regarding environment management and community relations; Reviewing and updating the environment management documents referred to in this environment management strategy; Coordinate training for relevant employees and contractors of the requirements of the environmental management strategy
<b>Operations Managers / Superintendents and Supervisors and</b>	Implement environmental management obligations in accordance with the documents referred to in this environment management strategy; Ensure environmental controls within their responsibilities are operated and maintained in an effective and efficient manner; Report all environment and/or community issues as they arise.
<b>Environmental Advisors</b>	Coordinate and conduct environmental monitoring and inspections in accordance with management plans to determine compliance with legislation, standards, codes and other external requirements;

	<p>Review environmental monitoring data and check against compliance criteria;</p> <p>Assist in the preparation and delivery of training materials;</p> <p>Provide ongoing environmental advice as required.</p>
<p><b>All BCOPL employees and contractors</b></p>	<p>Conduct all activities in accordance with this environment management strategy and associated management plans and procedures under instruction from their supervisor</p> <p>Informing the relevant supervisor immediately of any environment and/or community issues as they arise;</p> <p>Participate in relevant environmental training.</p>

### 3.2 Environment Management Plans and Procedures

Environment and community issues and impacts will be managed through the implementation of specific management plans developed to facilitate compliance with BCOPL’s relevant leases, licences, and approvals (as listed in Section 2.1). A figure illustrating the organisational structure of these environment management documents is provided in Figure 3-1.



**Figure 3-1 Environmental Management System Documents**

### 3.3 Environmental Training

BCOPL ensures all personnel at BCM are appropriately trained and have an appropriate level of experience to undertake their work in a way that minimises impacts on the environment and the community. All BCOPL employees and contractors receive general environment awareness training as a component of their site induction. Training is provided in accordance with BCOPL training procedures. The requirement for individuals to receive additional environmental training for specific tasks is identified in the BCOPL training needs analysis. Records of training and competencies for BCOPL employees and contractors is maintained in the BCOPL Training and Workforce Management System and aligned with the site training needs analysis.

### **3.4 Stakeholder Communication**

BCOPL consults with stakeholders through the established communication forums at BCM. These are described below.

The BCM Community Consultative Committee (CCC) was established in accordance with the conditions of the SSD 09\_0182 and is used to consult with community members and local representatives (i.e. councillors) on the environmental and community aspects of BCOPL's operations. Members are approved by the Secretary and represent interest groups, government representatives, businesses and residents. Meetings of the CCC are held quarterly to inform the community and relevant agencies of operations and environmental performance at BCM.

Ongoing consultation with Aboriginal stakeholders is through the Aboriginal Stakeholder Consultative Forum (ASCF). The ASCF is open to all Registered Aboriginal Parties (RAPs) that registered within the prescribed timeframes and provides an avenue for continued consultation of BCOPL activities. The ASCF aims to meet bi-annually to keep the stakeholders informed of the BCOPL's progress and discuss ongoing cultural heritage measures as outlined in the Cultural Heritage Management Plan (CHMP).

BCOPL also provides information on operational, environmental and community aspects of BCM through the Boggabri Coal community webpage:

<https://www.idemitsu.com.au/operations/boggabri-coal/community>

BCOPL also aims to support wider community events or programs through sponsorship or attendance at local community events.

### **3.5 Incidents, Emergency and Non-compliances**

Environmental incidents, emergencies and non-compliances will be reported to the appropriate regulatory authorities in accordance with BCOPL approvals, leases and licences.

Environmental emergencies are defined as environmental incidents that have the potential to cause material harm to the environment. Responses to environmental emergencies at the BCM will vary depending on the statutory area within which they occur. Responsibilities and actions for responding to incidents and emergencies is provided in the BCOPL Emergency Management Plan (PC-PLN-001), BCOPL Incident Management Standard (HST-STD-006) and BCOPL Pollution Incident

Response Management Plan (PIRMP) (a requirement of Section 153A of the Protection of the Environment Operations Act 1997 (POEO Act)).

In the event of an environmental emergency, BCOP must contact 000 if the incident presents an immediate threat to human health or property. Fire and Rescue NSW, the NSW Police and the NSW Ambulance Service are the first responders, as they are responsible for controlling and containing incidents.

If the incident DOES NOT pose any threat to human health or property, all possible actions should be taken to control the pollution incident and minimise health, safety and environmental consequences. The actions to be taken must include:-

- Ensuring that all personnel are safe and not potentially endangering themselves by remaining at the location of the pollution incident.
- Immediate securing of the scene and containment of the incident (where safe to do so).
- Immediate reporting of the incident to supervisor, BCOP Environmental Compliance Superintendent and relevant authorities.
- The BCOP Environmental Compliance Superintendent or delegate will then be responsible for coordinating clean-up activities and any subsequent information collection and incident investigation. Clean-up activities may require the use of earthmoving equipment, waste disposal tankers and waste disposal facilities.

Notification of an environmental incident is the responsibility of ALL site personnel. In the instance of identification of an environmental incident, the personnel will report the issue immediately to their supervisor, who in turn will immediately report it to a member of the Environment team on site.

The BCOP Environmental Compliance Superintendent in consultation with the Operations Manager must then immediately contact the agencies listed below in the order of hierarchy outlined in table 3-2.

**Table 3-2 Contact details for agencies requiring notification in an environmental emergency**

Agency	Contact Details
<b>Ambulance, Fire and Rescue NSW and/or Rural Fire Service (only if the incident presents an immediate threat to human health or property)</b>	000
<b>Secretary – Department of Planning Housing and Infrastructure</b>	Support Team: 1300 420 596 Singleton Office: 02 6575 3400
<b>Environmental Protection Authority</b>	131 555
<b>Ministry of Health via Local Public Health Unit</b>	1300 066 055
<b>SafeWork NSW</b>	131 050

Narrabri Shire Council	Phone: (02) 6799 6866 After Hours Emergency Phone: 0429 911 111
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Non-compliances will be reported to the appropriate regulatory authorities as soon as practicable upon receiving any monitoring result exceeding the criteria outlined in BCOPL's leases, licences, and approvals. It is the responsibility of the BCOPL Environmental Compliance Superintendent or delegate, to commence an investigation into the non-compliance by which, the findings will be forwarded to the regulatory authorities. The BCOPL Environmental Compliance Superintendent or delegate will notify the affected landowners or tenants of mine owned land of the exceedance and in instance of a dust exceedance, the landowner or tenant will also be provided with a copy of the NSW Health fact sheet entitled 'Mine Dust and You'.

### 3.6 Community Complaints

BCOPL maintains a 24 hour community complaints hotline: **1800 BOGGABRI** (1800 264 422 74), which is advertised on the company website: <https://www.idemitsu.com.au/operations/boggabri-coal/community>.

Community complaints will be recorded, entered into the complaints register, and uploaded to the company website along with any follow up responses and/or actions. The Environmental Compliance Superintendent will close out the complaint as soon as practicable.

The details to be collected at the time of the complaint are listed below:

- Complainant name (if provided);
- Complainant contact details (if provided);
- Date and time of the complaint;
- Method by which the complaint was made;
- Incident Location (if applicable);
- Details and nature of the complaint;

### 3.7 Dispute Resolution

Any disputes between community members and BCOPL will be referred to the BCOPL Environmental Compliance Superintendent. The BCOPL Environmental Compliance Superintendent will initiate discussions with the community member and attempt to resolve the dispute. If required and where relevant, negotiations will be initiated in accordance with the relevant conditions outlined in SSD 09\_0182.

## 4.0 MEASUREMENT AND EVALUATION

### 4.1 Monitoring System Effectiveness

Monitoring of the effectiveness of this EMS is undertaken by the BCOPL Environmental Operations Superintendent to:

- confirm the adequacy and effectiveness of all BCOPL environment management documents;
- confirm that all environment requirements have been adequately communicated to all employees and contractors;
- identify improvement opportunities;
- share good practice and lessons learnt with BCOPL employees and contractors; and
- ensure ongoing compliance with BCOPL’s leases, licences and approvals.

### 4.2 Environmental Monitoring

BCOPL monitors the environmental impacts of activities at BCM in accordance with the requirements of operation’s leases, licences and approvals (as listed in Table 2-1). Monitoring is undertaken at all site locations detailed below in Table 4-1 to ensure the project is operating in compliance with all legislative requirements. The specific monitoring requirements for each environmental aspect (e.g. noise, air quality, surface water, groundwater, etc.) are detailed in the relevant management plan (and subordinate procedure) as shown in Figure 3-1 Environmental Management System Documents. The BCOPL Environmental Operations Superintendent ensures that all environmental monitoring at the BCM is coordinated.

Monitoring results will be communicated to BCOPL employees and contractors as required to promote awareness and encourage improvements in environmental management performance. Environmental monitoring results and trends will be reported in the site’s annual review, as described below in Section 5.1.

**Table 4-1 Environmental Monitoring undertaken by BCOPL**

Site ID	To be used for compliance monitoring?	Type	Frequency
<b>Meteorology</b>			
MET Station	Yes	Weather Parameters	Continuous
<b>Air Quality</b>			
D4-Greenhills	Yes	Deposited dust gauge	Monthly
D5-Goonbri	Yes	Deposited dust gauge	Monthly

Site ID	To be used for compliance monitoring?	Type	Frequency
D6-Onavale	Yes	Deposited dust gauge	Monthly
Glenhope	Yes	HVAS (PM <sub>10</sub> )	Every 6 days
Merriown	No	HVAS (PM <sub>10</sub> )	Every 6 days
Tarrowonga	No	TEOM (PM <sub>10</sub> )	Continuous
Wilberoi East	Yes	TEOM (PM <sub>10</sub> and PM <sub>2.5</sub> )	Continuous
Velyama	No	TEOM (PM <sub>10</sub> and PM <sub>2.5</sub> )	Continuous
Goonbri	No	TEOM (PM <sub>10</sub> and PM <sub>2.5</sub> )	Continuous
BTM Complex Portable Samplers (x4)	No	TEOM (PM <sub>10</sub> and PM <sub>2.5</sub> )	Continuous
<b>Noise</b>			
N2 (Sylvania, Dripping Rock Road)	Yes	Attended Noise	Monthly
N3 (Picton, Dripping Rock Road)	Yes	Attended Noise	Monthly
N4 (Barbers Lagoon, Boggabri-Manilla Road)	Yes	Attended Noise	Monthly
Wilberoi East	No	Real Time	Continuous
Glenhope	No	Real Time	Continuous
<b>Blasting</b>			
Wilberoi East	Yes	Blast Monitor	Continuous
Goonbri	Yes	Blast Monitor	Continuous
<b>Groundwater</b>			
GW3115	Yes	Water quality and depth to water	Quarterly and Biannually
IBC2110	Yes	Water quality and depth to water	Quarterly and Biannually

Site ID	To be used for compliance monitoring?	Type	Frequency
IBC2111	Yes	Water quality and depth to water	Quarterly and Biannually
BC2181	No	Water quality and depth to water	Quarterly and Biannually
MW6	Yes	Water quality and depth to water	Quarterly and Biannually
<b>Surface Water - Ambient and Event Based Monitoring</b>			
SD6	Yes	Wet weather discharge or controlled discharge water quality	As soon as practicable at the commencement of a wet weather discharge
SD3	Yes	Wet weather discharge or controlled discharge water quality	As soon as practicable at the commencement of a wet weather discharge
SD4	Yes	Wet weather discharge or controlled discharge water quality	As soon as practicable at the commencement of a wet weather discharge
SW1 'Nagero Creek'	Yes	Wet weather discharge or controlled discharge water quality	As soon as practicable during or following a rainfall event sufficient to generate flow in 'Nagero Creek' OR As soon as practicable during a discharge event from EPL discharge points 1, 3 & 4
SW2 'Nagero Creek'	Yes	Wet weather discharge or controlled discharge water quality	As soon as practicable during or following a rainfall event sufficient to generate flow in 'Nagero Creek' OR As soon as practicable during a discharge event from EPL discharge points 1, 3 & 4
<b>Surface Water - Frequency Based Monitoring</b>			
SD6	Yes	Surface water quality	Quarterly
SD10	No	Surface water quality	Quarterly
SD12	Yes	Surface water quality	Quarterly

Site ID	To be used for compliance monitoring?	Type	Frequency
SD3	Yes	Surface water quality	Quarterly
MW3	Yes	Surface water quality	Quarterly

### 4.3 Environmental Inspections

Environmental inspections are undertaken by the BCOPL Environmental Superintendents (or delegates) in accordance with the requirements of various environmental management plans. The objectives of inspections are to:

- Identify any general housekeeping issues;
- identify any potential non-compliances or environment incidents not previously identified and/or reported;
- maintain a visual presence around the site to promote awareness of environment issues among BCOPL employees and contractors; and
- ensure personnel are aware of any physical changes to operations or processes at the site.

Environmental inspections are undertaken using the BCOPL environmental inspection checklist. In the event a non-compliance is identified during an inspection, corrective and/or preventative actions are developed and implemented. The effectiveness of the corrective actions are assessed in a follow up inspection to ensure that the matter has been addressed effectively. Copies of all completed checklists will be forwarded to and/or stored by the BCOPL Environmental Operations Superintendent.

The BCOPL Environmental Operations Superintendent (or delegate) will inform relevant personnel of their obligations to undertake any required corrective or preventative actions arising from environmental inspections.

## 5.0 REVIEW AND IMPROVEMENT

### 5.1 Reporting

The BCOPL Environmental Operations Superintendent is responsible for the completion of all environmental reporting as required by BCOPL's leases, licences and approvals. A summary of the reporting requirements is provided in Table 5-1.

**Table 5-1 Reporting Requirements**

Report	Frequency	Recipient	Requirement
<b>Annual Return</b>	Annually	EPA	EPL 12407 (Condition 6)
<b>Annual Review</b>	Annually	DPHI	Project Approval 09_0182 (Condition 4 Schedule 5)
<b>National Pollutant Inventory Report (NPI)</b>	Annually	DCCEEW	National Environment Protection (National Pollutant Inventory) Measure 1998
<b>National Greenhouse and Energy Reporting System (NGERS)</b>	Annually	Clean Energy Regulator (Commonwealth)	National Greenhouse and Energy Reporting Act, 2007
<b>Summary of monitoring data required by Project Approval conditions</b>	Monthly	BCOPL Website	Project Approval (Schedule 5, Condition 9 and 12)
<b>Complaints register</b>	Monthly	BCOPL Website	Project Approval (Schedule 5, Condition 12)
<b>Minutes of CCC meetings</b>	Quarterly	BCOPL Website	Project Approval (Schedule 5, Condition 12)
<b>Exceedances of EPL conditions</b>	Within 7 days of the date on which the incident occurred	EPA DPHI	POEO Act 1997 and Project Approval (Schedule 5, Condition 15)
<b>Real time monitoring (noise and air quality)</b>	Monthly	BCOPL Website	Project Approval (Schedule 5, Condition 12)
<b>Condition 28 Report</b>	Annually	DCCEEW	EPBC 2009/5256 compliance report
<b>Annual Rehabilitation Report and Forward Program</b>	Annually	Resources Regulator	Clause 16 of Schedule 8A Mining Regulation 2016
<b>NRAR Quarterly Report</b>	Quarterly	NRAR	Section 336E Water Management Act 2000 Enforceable Undertaking

<b>Annual Community Consultation Reporting</b>	Annually	Resources Regulator	Exploration Code of Practice: community consultation, Mining Act 1992
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## 5.2 Incident Reporting

In accordance with Schedule 5 Condition 8 of SSD 09\_0182, the reporting of incidents where any incident that has caused, or threatens to cause material harm to the environment, the Environmental Compliance Superintendent (or delegate) will notify the Secretary at the earliest opportunity. A detailed report will be submitted to the Secretary within seven (7) days of the date of the incident.

## 5.3 Continuous improvement

BCOPL will continually improve the EMS and subordinate plans through the use of the IA Environmental Management Policy, objectives and targets, audit results, analysis of data, corrective and preventative actions and management review.

## 5.4 Document Review

Review of the EMS will be undertaken by BCOPL in accordance with Project Approval Schedule 5 Condition 5, within 3 months of submitting the following:

- annual review under Schedule 5, condition 4 of the Project Approval;
- incident report under Schedule 5, condition 8 of the Project Approval;
- independent audit under Schedule 5, condition 10 of the Project Approval; and
- any relevant modification to the Project Approval.

## 5.5 References

BCOPL Emergency Management Plan (PC-PLN-001 Emergency Management Plan).

BCOPL Incident Management (HST-STD-006 Incident Management).

BCOPL Stakeholder Communications Protocol (HST-PRO-001 Stakeholder Communications Protocol).

BCOPL Pollution Incident Response Management Plan (ENV-PIR-PLN-001)

## 6.0 ABBREVIATIONS

Abbreviation	Definition
ARI	Average Recurrence Interval
ASCF	Aboriginal Stakeholder Consultation Forum
BCM	Boggabri Coal Mine
BCOPL	Boggabri Coal Operations Pty Ltd
BCSD	Department of Planning and Environment – Biodiversity Conservation and Science Division
BCT	Boggabri Coal Terminal
BMP	Biodiversity Management Plan
BOA	Biodiversity Offset Areas
BTM	Boggabri, Tarrawonga, Maules Creek
CBIMP	Common Boundary Integration Management Plan
CCC	Community Consultative Committee
CEC	Cation Exchange Capacity
CFMP	Clearing and Fauna Management Protocol
CHMP	Cultural Heritage Management Plan
CHPP	Coal Handling and Preparation Plant, including By-pass crusher
CL	Coal Lease
CSIRO	Commonwealth Scientific and Industrial Research Organisation
DA	Development Application
DCCEEW	Commonwealth Department of Climate Change, Energy, the Environment and Water
DECC	Former Department of Environment and Climate Change
DECCW	Former Department of Environment, Climate Change and Water
DPI	NSW Department of Primary Industries
DPE	Former Department of Planning and Environment (now Department of Planning Housing and Infrastructure (DPHI))

Abbreviation	Definition
DPHI	Department of Planning Housing and Infrastructure
DRE	Former NSW Department of Trade and Investment - Division of Resources and Energy
DRG	Former Department of Planning and Environment – Division of Resources and Geoscience
DTIRIS	Former NSW Department of Trade and Investments, Regional Infrastructure and Services
EA	Environmental Assessment
EC	Electrical Conductivity
EMPs	Environment Management Plans
EP&A Act	Environmental Planning and Assessment Act, 1979
EPBC Act	Environment Protection and Biodiversity Conservation Act, 1999
EPL	Environment Protection Licence
GMP	Groundwater Management Plan
GSC	Gunnedah Shire Council
IA	Idemitsu Australia Pty Ltd
Km	Kilometre
MCA	Minerals Council of Australia
MEG	Department of Regional NSW – Mining, Exploration and Geoscience
MIA	Mine Infrastructure Area
ML	Mining Lease
Mt	Million Tonnes
Mtpa	Million Tonnes Per Annum
NOW	Former NSW Office of Water
NRAR	Natural Resources Access Regulator
NSC	Narrabri Shire Council
NSW	New South Wales
OEH	Former NSW Office of Environment and Heritage

Abbreviation	Definition
PAC	Former NSW Planning and Assessment Commission
PAF	Potentially Acid Forming
POEO Act	Protection of the Environment (Operations) Act, 1997
Resources Regulator	Department of Regional NSW – Resources Regulator
RMP	Rehabilitation Management Plan
RL	Relative Level
RMS	NSW Roads and Maritime Services
ROM	Run of Mine
SCMP	Spontaneous Combustion Management Plan
SD	Sediment Dam
SWB	Site Water Balance
SMP	Soil Management Protocol
SWC	State Water Corporation
SWMP	Surface Water Management Plan
t	Tonne
TARP	Trigger Action Response Plan
TCPL	Tarrawonga Coal Pty Limited
TSS	Total Suspended Solids
WMP	Water Management Plan
WMS	Water Management Strategy

# Appendix A

## Environmental monitoring locations



# Appendix B

## IA Environment Management Policy

# Environment Management Policy

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## Our belief

Idemitsu Australia Pty Ltd, and its group companies (IA), are committed to providing for the responsible management of all environment aspects which could reasonably be or are directly impacted by our Operations and Projects.

## Our commitment

To ensure we deliver on our beliefs IA will:

- As a minimum comply with all environment legislation applicable to the regions in which we operate.
- Commit to establishing and maintaining constructive communications with our stakeholders so we clearly understand the environmental impacts from our operations and projects.
- Seek to use this information to create a holistic picture of the environment in which we operate and to eliminate, minimise, or mitigate our impacts.
- Develop, implement and maintain a fit for purpose Environment Management System aligned with ISO14001.
- Manage carbon emissions at all IA sites and in business planning to support the overall strategic targets set by Idemitsu Kosan Co., Ltd.'s (IKC).

Success shall be the recognition by our stakeholders of our proactive environmental management and continuous stewardship of the environment.

In achieving this goal Idemitsu Australia will conserve environmental resources and maintain our Social Licence to Operate.

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