



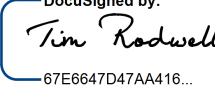
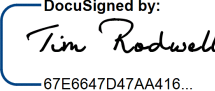


# 6BF RELINE PROJECT

## Construction Environmental Management Plan

Document No: 6BFR-PRJ-PLN-0008

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## Contents

Glossary of Terms and Acronyms .....	4
1 Introduction .....	6
1.1 Background .....	6
1.2 Context of the Construction Environment Management Plan .....	6
1.2.1 Purpose and Scope of the CEMP .....	6
1.2.2 Objectives of the CEMP .....	6
1.3 Health, Safety, Environment & Community Policy .....	7
2 Project Description .....	7
2.1 Project Overview .....	7
2.2 Site Location .....	7
2.3 Scope of Work .....	12
2.3.1 Project Work Schedule .....	13
2.3.2 Work Hours .....	14
2.4 CEMP Hold Points .....	14
3 Community and Stakeholder Engagement .....	20
3.1 Interested Parties .....	20
3.2 Community Consultation .....	20
3.3 Stakeholder Engagement .....	20
3.4 Complaints Handling .....	20
4 Environment Management Framework .....	20
4.1 Relationship to existing Environment Management System .....	20
4.2 Environmental Management Documents .....	21
4.3 Environmental Management Structure and Responsibilities .....	23
4.4 Legal and Compliance Requirements .....	26
4.5 Training and Awareness .....	27
4.5.1 Reline Team Training .....	27
4.5.2 Contractor Training .....	28
4.5.3 Toolbox Talks .....	28
4.5.4 HSEC Meetings .....	28
5 Environment Impacts, Controls, and Risk Assessment .....	28
5.1 Environmental Risk Assessment .....	28
5.2 Environmental Management Measures .....	28
6 Monitoring and Compliance .....	29
6.1 Environmental Monitoring Program .....	29



6.2	Environmental Inspections and Audits .....	29
6.3	Compliance Monitoring and Reporting .....	30
6.4	Corrective and Preventative Actions.....	30
6.5	Other Environmental Reporting .....	31
6.6	Environmental Incident and Emergency Response.....	31
6.7	CEMP Review and Revision Process.....	32
Appendix 1.	Approval Conditions Relevant to the CEMP.....	33
Appendix 2.	Environmental Risk Assessment .....	40
Appendix 3.	Environmental Management Measures .....	41
Appendix 4.	EMP Preparation Checklist.....	73

## Glossary of Terms and Acronyms

Term	Definition
5BF	No.5 Blast Furnace
6BF	No.6 Blast Furnace
Approval	Infrastructure Approval SSI-22545215
Approval Condition	Condition of Infrastructure Approval SSI-22545215
BlueScope	BlueScope Steel (AIS) Pty Ltd
BSL	BlueScope Steel Limited
CEMP	Construction Environment Management Plan
CLM Act	Contaminated Land Management Act 1997
CSSI	Critical State Significant Infrastructure
DPE	Department of Planning and Environment
EIS	No.6 Blast Furnace Reline Project Environment Impact Statement
EP&A Act	Environmental Planning and Assessment Act 1979
EPA	Environment Protection Agency
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999
EPL	Environment Protection Licence
FRNSW	Fire and Rescue New South Wales
GGBF	Green and Golden Bell Frog ( <i>Litoria Aurea</i> )
ha	Hectare
Hold Points	Certain activities that must not commence until specified obligations have been met
HSE	Health, Safety and Environment
Incident	An incident is an occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance.
ISO 14001	Australian/New Zealand International Standard for Environment Management Systems
JSEA	Job Safety and Environment Analysis
km	Kilometre
LPG	Liquefied Petroleum Gas
Material Harm	Material harm is harm that: a) Involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or b) Results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practical measures to prevent, mitigate, or make good harm to the environment.
Non-compliance	A non-compliance is an occurrence or set of circumstances that breach the conditions of the Infrastructure Approval, Environment Protection Licence and/or any other legal requirement
Non-conformance	A non-conformance is a situation or event that does not comply with the safeguards required in this CEMP
OEH	Office of Environment and Heritage
PIRMP	Pollution Incident Response Management Plan

Term	Definition
PKSW	Port Kembla Steelworks
POEO Act	Protection of the Environment Operations Act 1997
Project	No.6 Blast Furnace Reline Project
RTS	Response to Submission
SSW	Safe System of Work
SWMS	Safe Work Method Statement
t	Tonnes
T&I SEPP	State Environmental Planning Policy (Transport and Infrastructure) 2021
TfNSW	Transport for New South Wales
TRT	Top gas Recovery Turbine
WGHR	Waste Gas Heat Recovery

# 1 Introduction

## 1.1 Background

BlueScope Steel (AIS) Pty Ltd (BlueScope) is one of Australia's leading manufacturers and with its parent company, BlueScope Steel Limited (BSL), is a global leader in finished and semi-finished steel products.

BlueScope's Port Kembla Steelworks (PKSW) currently operates as an integrated iron and steel plant utilising Blast Furnace ironmaking and Basic Oxygen Furnace steelmaking operating model. The plant is co-located with hot rolling mills for plate and coil and has adjacent manufacturing facilities for cold rolling, coated products, flat products and welded beams. The site is licenced and operates in accordance with Environment Protection Licence (EPL) 6092.

This project aims to return the No.6 Blast Furnace (6BF) to service through a reline process to allow operations to continue at PKSW following the end of the current No.5 Blast Furnace (5BF) campaign with minimal disruption to production levels.

On 3 May 2021 the Minister for Planning and Public Spaces declared the Port Kembla Steelworks Blast Furnace No. 6 Reline Upgrade Project (the project) as Critical State Significant Infrastructure (CSSI) in accordance with sections 5.12(4) and 5.13 of the Environmental Planning and Assessment Act, 1979 (EP&A Act).

On 20 September 2022 the Minister for Planning approved the project under section 5.19 of the EP&A Act subject to conditions specified in Infrastructure Approval SSI-22545215 (Approval).

## 1.2 Context of the Construction Environment Management Plan

### 1.2.1 Purpose and Scope of the CEMP

The Construction Environmental Management Plan (CEMP) has been prepared to support BlueScope's Environmental Management System for the 6BF Reline Project (the project) in compliance with the Approval.

This CEMP describes the strategies and controls that will be implemented to mitigate or minimise the risks associated with the construction and commissioning activities of the project which have the potential to impact the environment or the community. It also outlines the monitoring and reporting obligations required by regulators.

The CEMP has been developed in accordance with the Approval Conditions, No.6 Blast Furnace Reline Environment Impact Statement (EIS), and EPL 6092, and with reference to the Australian/New Zealand International Standard for Environment Management Systems (ISO 14001) and NSW Department of Planning and Environment's (DPE) Environmental Management Plan Guideline, 2020.

It should be read in conjunction with the 6BF Reline Construction Management, Safety Management, and Emergency Management Plans.

The Approval Conditions relevant to this CEMP, and the sections of the CEMP to which they relate are summarised in Appendix 1.

### 1.2.2 Objectives of the CEMP

The objectives of the CEMP are to:

- Describe the measures and controls to be implemented to maintain compliance with statutory requirements and commitments made in the EIS;
- Provide an overview of the environmental management systems and practices that will be implemented for the project;
- Provide a consistent and uniform approach to ensure the required standards of environmental practices are attained and maintained for the project;
- Ensure that environmental standards, specifications, regulatory obligations, and contractual obligations are consistently and uniformly achieved; and

- Demonstrate the relationship between BlueScope's Environmental Management System, this CEMP, contract documents, project procedures, and vendor/contractor environmental management plans.

## 1.3 Health, Safety, Environment & Community Policy

BlueScope highly values the health and safety of employees, the environment and its' communities. The BlueScope Health, Safety, Environment and Community Policy ([BSL-MS-P-01](#)) establishes the principles and actions expected of all employees to fulfil BlueScope's commitment to people and the environment and is integral to business. It is supported by the BlueScope Steel Health, Safety and Environmental Standards and forms the foundation of BlueScope's Environmental Management System. The policy applies to all personnel working on BlueScope sites, including the project.

It has been ratified by the BlueScope Steel Limited executive officers, and copies are on display in all Project and site offices. Copies are also freely available on request. This CEMP supports these aspirations and incorporates detail around the high-level action framework.

The 6BFR Project will be undertaken in accordance with the BlueScope Steel HSEC Policy. Fundamental standards are defined by BlueScope Steel Limited policies, and should any 6BFR Project policy be considered by the 6BFR Project Management Team to be of a higher standard than the analogous BlueScope Steel Limited policy, the 6BFR Project policy will take precedence.

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## 2 Project Description

### 2.1 Project Overview

The project involves the reline of 6BF over a period of approximately 3 years to return it to service and commence ironmaking after 5BF ceases operation. Major construction work will be required within the blast furnace and surrounding facilities to deliver the project.

The reline of the furnace initially involves removal of remaining burden material and iron skull, followed by stripping of the staves, refractories and hearth from inside the shell. In places, repairs to the furnace shell will be required. Once stripped, installation of the new hearth, sidewall refractories and staves will be completed, together with repairs/replacement of the tuyeres, tapholes, furnace cooling systems and instrumentation. Significant work will also be required to prepare each of the 6BF ancillary systems for continuous operation across the length of the new campaign.

Following construction and equipment commissioning, 5BF will be ramped down and decommissioned. 6BF will then be hot-commissioned and ramped up for operation. 5BF and 6BF will not operate concurrently.

### 2.2 Site Location

The project is located in Port Kembla in the Wollongong Local Government area and Illawarra region of NSW. Sydney is approximately 80 km to the north of Port Kembla, while the Wollongong Central Business District is approximately 2.5 km to the north, and Lake Illawarra is approximately 3 km to the south. Port Kembla is the main industrial centre of the Illawarra region.

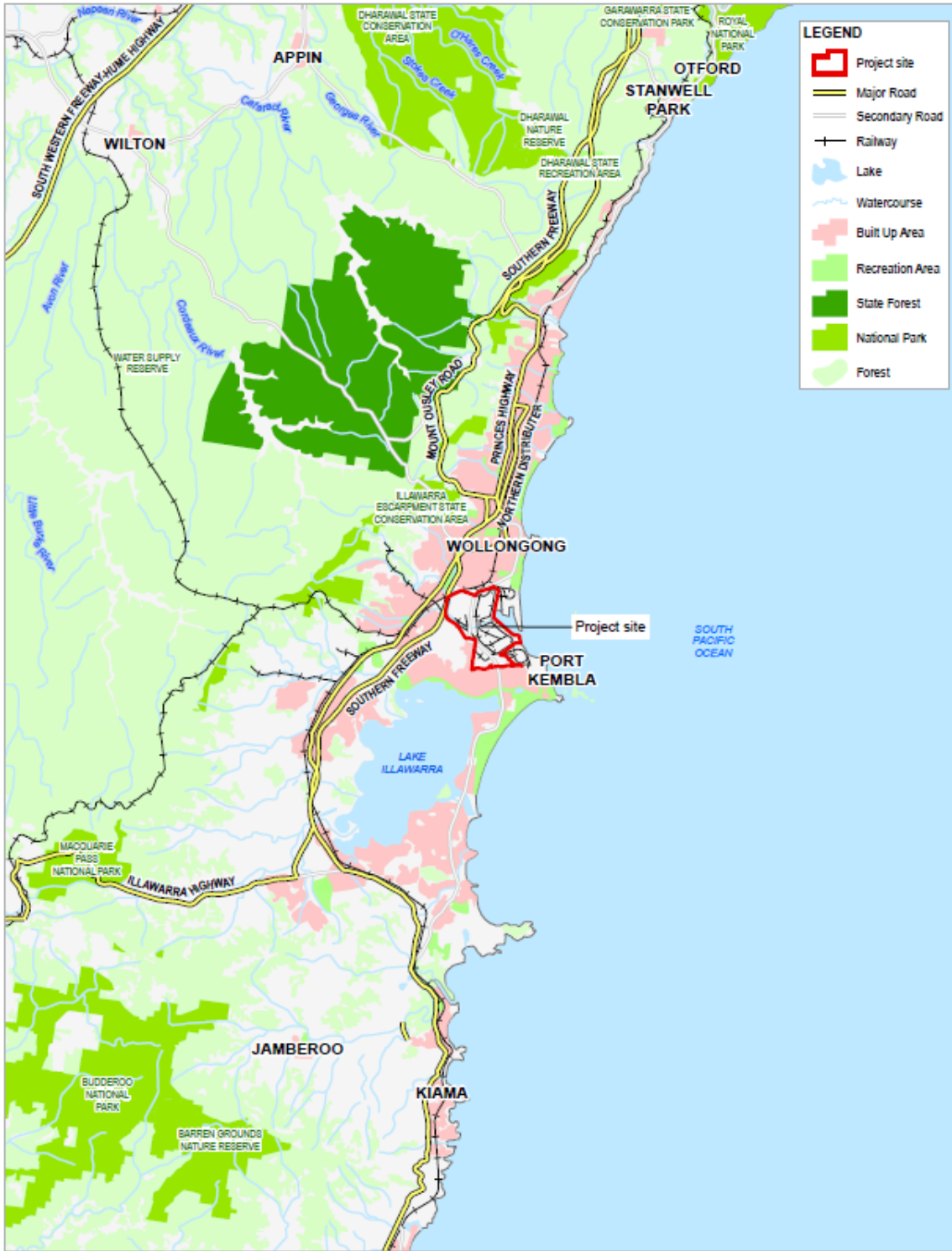
The PKSW site is zoned IN3 – Heavy Industrial under State Environmental Planning Policy (Transport and Infrastructure) 2021 (T&I SEPP). PKSW and the adjacent Springhill Works together comprise the largest site in the Port Kembla industrial area, occupying approximately 750 ha, and are mostly built around the western and southern side of Port Kembla's Inner Harbour. The PKSW site is a multi-use industrial area which includes storage, manufacturing, port berths, private internal roads and offices. Access to PKSW is provided by Springhill Road, Five Islands Road and Flinders Street, and then private internal roads within PKSW.

The project site is an established (brown-field) site located within the No.2 Works at the PKSW. The land to which this project applies, including all connecting infrastructure and materials handling elements that require upgrades as part of the project, is within the southern section of the No.2 Works, and is part of the ironmaking facilities, located

within Lot 1 DP 606434. Ancillary construction facilities will also be required and will be located within the broader PKSW site as shown on Figure 2.

The area surrounding the Port Kembla industrial area is primarily occupied by residential development. These urban areas provide small and large-scale retail outlets, community services (e.g. medical facilities, hospital, schools and sporting facilities) and commercial facilities (e.g. banking and post office). The closest urban developments to PKSW are the suburbs of Cringila, Berkeley, Lake Heights, Warramong and Port Kembla to the south, Unanderra, Cobblers Hill, Mount St Thomas, Coniston and Figtree to the north and west. The urban areas of Cringila are located adjacent to the No.1 Works and No.2 Works areas and are the nearest to the project site, being approximately 1.2 km to the southwest as shown on Figure 3.





<p>Paper Size ISO A4 0 1.5 3 4.5 6 Kilometres</p> <p>Map Projection: Transverse Mercator Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 56</p>	<p>BlueScope Steel Ltd No.6 Blast Furnace Reline and Operations Environmental Impact Statement</p> <p><b>Regional Location</b></p>	<p>Project No. 12541101 Revision No. 0 Date 21/10/2021</p> <p><b>FIGURE 2-1</b></p>
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Figure 1: Project Regional Location. Extracted from *Blast Furnace No.6 Reline Project Environmental Impact Statement* (p. 5) GHD, 2022.

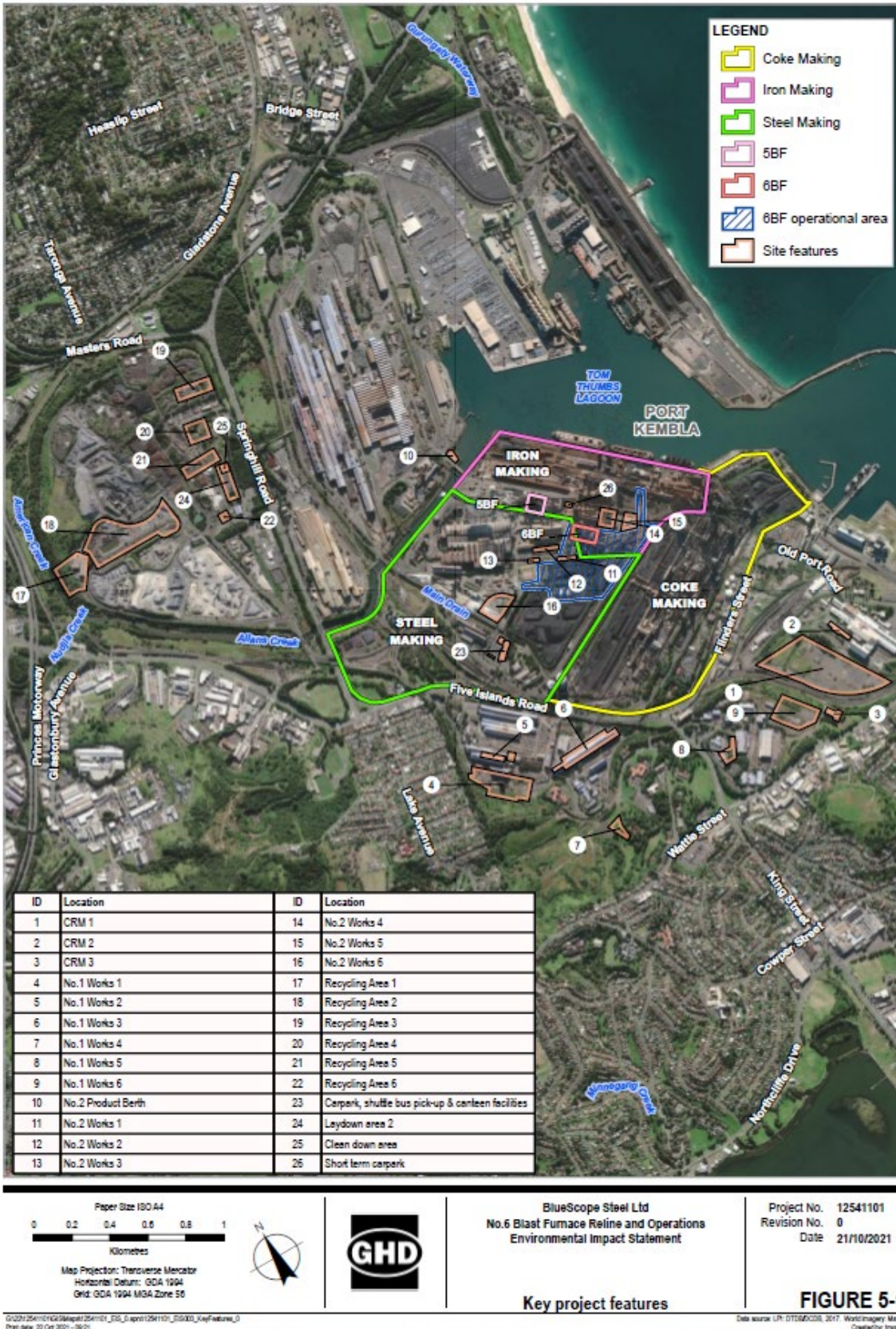
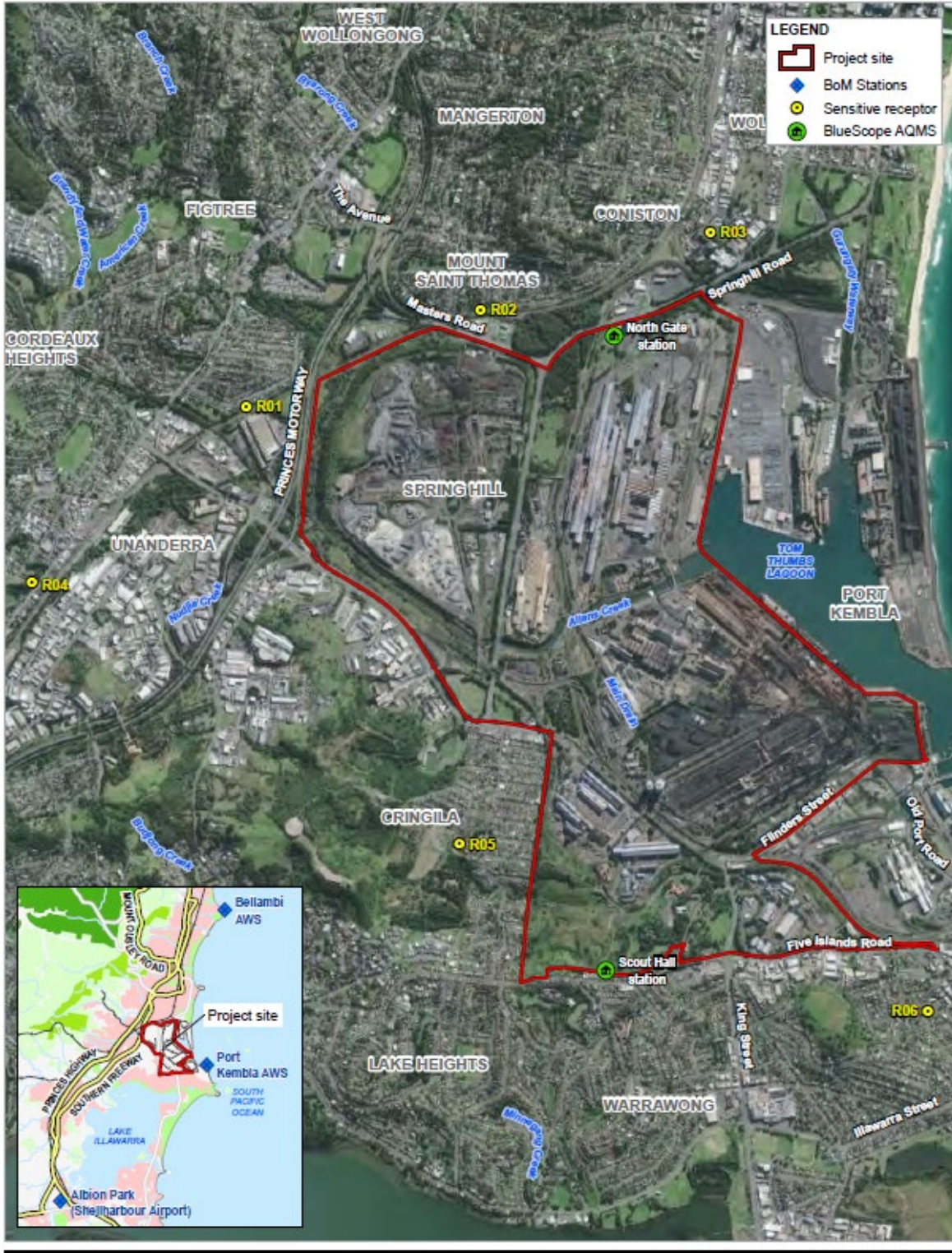


Figure 2: Project site and laydown areas. Extracted from *Blast Furnace No.6 Reline Project Environmental Impact Statement* (p. 28) GHD, 2022.





Springhill/No.6 Blast Furnace Reline Project/2021/2541101/3/2541101\_AQI\_Assessment\_April/2541101\_AQAI00\_SensitiveReceptors\_A  
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**Figure 3: Location of Sensitive Receivers. Extracted from *Blast Furnace No.6 Reline Project Air Quality Impact Assessment* (p. 19) GHD, 2022.**

## 2.3 Scope of Work

Construction activities will involve the following tasks:

- Removal of the remaining burden materials
- Removal of the iron skull
- Removal of worn carbon block refractories in the hearth
- Removal of worn refractories in the remainder of the vessel
- Demolition of other equipment including:
  - Cooling staves which protect the blast furnace shell.
  - Hot Blast Main refractory lining, including the expansion joints.
  - Clarifier tank and associated equipment where required.
- Repairs to the blast furnace shell where required
- Installation of a new clarifier tank and associated equipment
- Installation of the new hearth, sidewall refractories and staves
- Repair/replacement of tuyeres, tapholes and instrumentation
- Repair, maintenance and/or upgrade of ancillary equipment including:
  - Furnace cooling systems
  - Hot Blast system including the stoves, with the addition of a stove Waste Gas Heat Recovery (WGHR) system
  - Gas system, with addition of a Top Gas Recovery Turbine (TRT)
  - Furnace Top, including the charging equipment, bleeder valves and outrigger crane
  - Casthouse Floors and associated equipment
  - Stockhouse (raw materials feed system)
  - Automation and power systems
  - Services
- Installation of a new slag granulation system.
- Installation of primary ferrous feed system.

An indicative list of the equipment likely to be required for the project is as follows:

- Excavators ranging from 5t to 40t
- Bobcats (skid steer loaders)
- Water blasters
- Rail tamper
- Cranes of various capacity ranging from 15t to 800t
- Rock breaker
- Grit blasters
- Various brick saws and mixers
- Dump trucks
- Explosives equipment

- Semi-trailers
- Material hoists and winches
- Front end loaders
- Air compressors
- Abbey hoists
- Refractory gunning machine
- Telescopic boom excavator
- Diesel welders
- Forklifts
- Temporary stove burners, fuel pipe and fans
- Liquids tankers
- Welding Machines
- Sykes pumps
- Alimak passenger and goods lifts
- Tear-Out machine
- Temporary conveyors
- Temporary Oxygen, Acetylene, LPG, Argon, Nitrogen welding and cutting gases
- Scaffolding Boom and scissor lifts
- Vacuum loading (suck) trucks
- Concrete mixers
- Concrete pumps
- Fuel trucks
- Flat Bed Trucks
- Road Rollers
- Piling Rigs.

### 2.3.1 Project Work Schedule

Current planning aims for a transition to a relined No.6 Blast Furnace in 2026, with execution of site works commencing in late 2023. The estimated duration and planned start times for construction activities are outlined in Table 1.

**Table 1: Works Schedule**

Project Stage	Activities	Estimated Duration	Planned Start
1	Progress with refurbishment activities that do not require long-lead items Early works commences for enabling activities. Includes cranes, lifts, Casthouse roof replacement, drainage, construction facilities	12 months	2023
2	Construction activities including demolition, civils, Stockhouse, Slag Handling, Hot Blast System, gas system, cooling system, wreck out of furnace, Furnace Top Control system and automation upgrade	24 months	2024



Project Stage	Activities	Estimated Duration	Planned Start
3	Initiated with twelve months advance notice of end of 5BF operations Construction activities including relining of furnace Pre-commissioning and commissioning of 6BF	12 months	2025
4	Managed transition of operations from 5BF to 6BF with ramp-down of 5BF followed by ramp-up production of 6BF 5BF decommissioned and made safe on ceasing operation	6-8 weeks	2026

### 2.3.2 Work Hours

Where practical, work will be carried out during the following hours:

**Table 2: Hours of Work**

Activity	Day	Time
Construction	Monday – Friday	07:00 – 18:00
	Saturday	08:00 – 13:00
Blasting	Monday – Saturday	09:00 – 17:00
Commissioning	Monday – Sunday	24 hours

In accordance with Condition B34, construction work outside of these hours is permissible provided they are:

- inaudible at the nearest sensitive receivers;
- agreed to in writing by the Planning Secretary;
- for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or
- where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.

Some construction activities will be scheduled outside of these hours to manage interaction with the remainder of the PKSW operations and the higher day shift workforce. The hours of work are based on ten hour days, five days per week, Monday to Friday, with an eight hour day on Saturday for critical path activities.

Final installation of components inside the blast furnace and other residual construction activities will require 24-hour construction. Further, 24-hour construction may be required for an extended period to bring forward the completion of construction if 6BF is required online earlier than 2026.

Where practical, noise generating activities with potential to impact any nearby receivers will be scheduled during standard hours. In accordance with EPL 6092, written consent from the EPA will be obtained for works scheduled outside of the approved hours with the potential to be audible at sensitive receivers. Where monitoring has determined that blast impacts are not discernible outside of the site, blasting may be conducted outside these hours, as agreed with the EPA.

## 2.4 CEMP Hold Points

Hold Points are certain activities that must not commence until specified obligations have been met. Construction and commissioning Hold Points relevant to this project as specified by the Infrastructure Approval are listed in Table 3.

**Table 3: Construction and Commissioning Hold Points**

Condition	Description	Sign Off Authority
<b>Notification of Commencement</b>		
A8	The date of commencement of each of the following phases of the project must be notified to the Department in writing, at least one month before that date: (a) construction; (b) commissioning; (c) operation; and (d) decommissioning.	DPE
A9	If the construction, commissioning, operation or decommissioning of the project is to be staged, the Department must be notified in writing at least one month before the commencement of each stage, of the date of commencement and the development to be carried out in that stage.	DPE
<b>Protection of Public Infrastructure</b>		
A16	Before the commencement of construction, the Proponent must consult with the relevant owner and provider of services that are likely to be affected by the project to make suitable arrangements for access to, diversion, protection and support of the affected infrastructure.	As required
<b>Utilities and Services</b>		
A23	Before the construction of any utility works associated with the project, the Proponent must obtain relevant approvals from service providers.	As required
A24	Before the commencement of operation of the project, the Proponent must obtain a Compliance Certificate for water and sewerage infrastructure servicing of the site under section 73 of the Sydney Water Act 1994.	Sydney Water
<b>Water Quality</b>		
B1	Prior to the commencement of any construction or other surface disturbance for the project, the Proponent must install and maintain suitable erosion and sediment control measures on-site, in accordance with the relevant requirements of the Managing Urban Stormwater: Soils and Construction – Volume 1: Blue Book (Landcom, 2004) guideline and the Erosion and Sediment Control Plan included in the CEMP required by Condition C2.	DPE



Condition	Description	Sign Off Authority
B5	<p>Prior to the commencement of construction of the 6BF wastewater treatment system, the Proponent must design the wastewater treatment system/s to manage discharges directly from 6BF, in consultation with the EPA and to the satisfaction of the Planning Secretary. The wastewater treatment system design must:</p> <ul style="list-style-type: none"> <li>(a) incorporate the outcomes of Pollution Reduction Program 182 (PRP 182) and other current environmental improvement projects relevant at 5BF, prescribed by EPL 6092;</li> <li>(b) target achieving the NSW Water Quality Objectives and/or best available management practices for discharges directly from 6BF;</li> <li>(c) be consistent with the wastewater treatment options in Table 5.9 of the RTS;</li> <li>(d) include a cyanide monitoring and treatment system;</li> <li>(e) exclude wastewater dilution as a mitigation measure;</li> <li>(f) include discharge guarantees and/or calculations that detail the performance of the system, including details of the discharge reductions and performance criteria that would be achieved;</li> <li>(g) compare the system performance with the current performance of 5BF and the previous operation of 6BF.</li> </ul>	EPA DPE
B6	<p>The Proponent must:</p> <ul style="list-style-type: none"> <li>(a) not commence construction of the wastewater treatment system until the design required by condition B5 is approved by the Planning Secretary; and</li> <li>(b) implement the wastewater treatment system approved by the Planning Secretary prior to the commencement of operation.</li> </ul>	DPE
<b>Air Quality</b>		
B15	<p>Prior to the commencement of construction of the Stove Waste Gas Heat Recovery System and the Slag Granulation Condensing Unit, the Proponent must prepare an Air Emissions Verification Report (AEVR) to verify the emission performances of the stove waste gas stack and Slag Granulator condensing unit. The AEVR must:</p> <ul style="list-style-type: none"> <li>(a) for the stove Waste Gas Heat Recovery system, include: <ul style="list-style-type: none"> <li>(i) a detailed description of the final design of the waste gas heat recovery system and the redesigned burners for 6BF;</li> <li>(ii) emission guarantees and/or emission calculations that detail the emission performance for nitrogen dioxide (NO<sub>2</sub>) and sulphur dioxide (SO<sub>2</sub>) associated with implementation of the heat recovery system and redesigned burners;</li> <li>(iii) a comparison of the emissions performance with the previous operation of 6BF and prescribed concentrations in the Protection of the Environment Operations (Clean Air) Regulation 2021; and</li> <li>(iv) details of the emission reductions that would be achieved with implementation of the heat recovery system and redesigned burners.</li> </ul> </li> <li>(b) for the condensing unit on the Slag Granulator, include: <ul style="list-style-type: none"> <li>(i) a detailed description of the final design of the condensing sprays for the slag granulator;</li> <li>(ii) emission guarantees and/or emission calculations that detail the emission performance for hydrogen sulfide (H<sub>2</sub>S) associated with the implementation of the condensing unit;</li> <li>(iii) a comparison of the emissions performance with the previous operation of 6BF slag granulator and prescribed concentrations in the Protection of the Environment Operations (Clean Air) Regulation 2021; and</li> <li>(iv) details of the emission reductions that would be achieved with the implementation of the condensing unit.</li> </ul> </li> </ul>	DPE





Condition	Description	Sign Off Authority
B16	The Proponent must provide the AEVR to the Planning Secretary at least two months prior to the commencement of construction of the Stove Waste Gas Heat Recovery System and the Slag Granulation Condensing Unit.	DPE
<b>Hazard and Risk</b>		
B24	<p>At least one month prior to the commencement of construction of the project (except for construction of those preliminary works that are outside the scope of the hazard studies), or within such further period as the Planning Secretary may agree, the Proponent must prepare and submit for the approval of the Planning Secretary the studies set out under subsections (a) to (d) below (the pre-construction studies). Construction, other than of preliminary works, must not commence until approval has been given by the Planning Secretary and, with respect to the Fire Safety Study, approval has also been given by Fire and Rescue NSW.</p> <p>(a) A Fire Safety Study for the project. This study must cover the relevant aspects of the Department's Hazardous Industry Planning Advisory Paper No. 2, 'Fire Safety Study Guidelines' and the New South Wales Government's Best Practice Guidelines for Contaminated Water Retention and Treatment Systems (NSW HMPCC, 1994). The study must also be submitted to Fire and Rescue NSW.</p> <p>(b) A Hazard and Operability Study for the project, chaired by a qualified person, independent of the project, approved by the Planning Secretary prior to the commencement of the study. The study must be carried out in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 8, 'HAZOP Guidelines'. The study report must be accompanied by a program for the implementation of all recommendations made in the report. If the Proponent intends to defer the implementation of a recommendation, reasons must be documented.</p> <p>(c) A Final Hazard Analysis of the project, prepared in accordance with the Department's Hazardous Industry Planning Advisory Paper No.6, 'Hazard Analysis'.</p> <p>(d) A Construction Safety Study for the project prepared in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 7 'Construction Safety'. For projects in which the construction period exceeds six months, the commissioning portion of the Construction Safety Study may be submitted two months prior to commencement of commissioning.</p>	DPE FRNSW
B25	<p>The Proponent must develop and implement the plans and systems set out under subsections (a) to (b) below. No later than two months prior to the commencement of commissioning of the project, or within such further period as the Planning Secretary may agree, the Proponent must submit for the approval of the Planning Secretary documentation describing those plans and systems. Commissioning must not commence until approval has been given by the Planning Secretary.</p> <p>(a) a comprehensive Emergency Plan and detailed emergency procedures for the project. The Emergency Plan must include consideration of the safety of all people outside of the project who may be at risk from the project. The plan must be prepared in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 1, 'Emergency Planning'.</p> <p>(b) a document setting out a comprehensive Safety Management System for the project, covering all on-site operations and associated transport activities involving hazardous materials. The document must clearly specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to the procedures. Records must be kept on-site and must be available for inspection by Planning Secretary upon request. The Safety Management System must be developed in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 9, 'Safety Management'.</p>	DPE



Condition	Description	Sign Off Authority
<b>Traffic and Access</b>		
B41	<p>Prior to the commencement of construction, the Proponent must prepare a Construction Traffic Management Plan for the project. The plan must form part of the CEMP required by condition C2 and must:</p> <ul style="list-style-type: none"> <li>(a) be prepared by a suitably qualified and experienced person(s);</li> <li>(b) detail the measures that are to be implemented to ensure road safety and network efficiency during construction;</li> <li>(c) detail heavy vehicle routes, access and parking arrangements;</li> <li>(d) include a Driver Code of Conduct to minimise the impacts of construction traffic, ensure drivers adhere to designated routes and on site speed limits and minimise road traffic noise;</li> <li>(e) include a program to monitor the effectiveness of these measures; and</li> <li>(f) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.</li> </ul>	DPE
B42	<p>The Proponent must:</p> <ul style="list-style-type: none"> <li>(a) not commence construction until the Construction Traffic Management Plan required by Condition B41 is approved by the Planning Secretary; and</li> <li>(b) implement the most recent version of the Construction Traffic Management Plan approved by the Planning Secretary.</li> </ul>	DPE
B44	The Proponent must obtain permits under the Heavy Vehicle National Law (NSW) for each OSOM load on the public road network.	TfNSW
<b>Soils and Contamination</b>		
B47	Prior to the commencement of construction, the Proponent must prepare an unexpected contamination procedure to ensure that potentially contaminated material is appropriately managed. The procedure must form part of the CEMP in accordance with condition C2 and must ensure any material identified as contaminated is classified under the EPA's Waste Classification Guidelines and if required, disposed off-site, with the disposal location and results of testing submitted to the Planning Secretary, prior to its removal from the site.	DPE
<b>Heritage</b>		
B52	<p>If any item or object of Aboriginal heritage significance is identified on site:</p> <ul style="list-style-type: none"> <li>(a) all work in the immediate vicinity of the suspected Aboriginal item or object must cease immediately;</li> <li>(b) a 10 m wide buffer area around the suspected item or object must be cordoned off; and</li> <li>(c) the Heritage NSW must be contacted immediately.</li> </ul>	Heritage NSW
B53	Work in the immediate vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the National Parks and Wildlife Act 1974.	Heritage NSW
B54	If any archaeological relics are uncovered during the course of the work, then all works must cease immediately in that area. Unexpected finds must be evaluated and recorded in accordance with the requirements of Heritage NSW.	Heritage NSW



Condition	Description	Sign Off Authority
<b>Environmental Management</b>		
C2	The Proponent must prepare a Construction Environmental Management Plan (CEMP) in accordance with the requirements of condition C1 and to the satisfaction of the Planning Secretary.	DPE
C4	The Proponent must: (a) not commence construction of the project until the CEMP is approved by the Planning Secretary; and (b) carry out the construction of the project in accordance with the CEMP approved by the Planning Secretary and as revised and approved by the Planning Secretary from time to time.	DPE
C17	At least 48 hours before the commencement of construction until the completion of all works under this approval, including decommissioning, the Proponent must: (a) make the following information and documents (as they are obtained or approved) publicly available on its website: (i) the documents referred to in condition A2 of this approval; (ii) all current statutory approvals for the project; (iii) all approved strategies, plans and programs required under the conditions of this approval; (iv) minutes of CCC meetings; (v) regular reporting on the environmental performance of the project in accordance with the reporting requirements in any plans or programs approved under the conditions of this approval; (vi) a comprehensive summary of the monitoring results of the project, reported in accordance with the specifications in any conditions of this approval, or any approved plans and programs; (vii) a summary of the current stage and progress of the project; (viii) contact details to enquire about the project or to make a complaint; (ix) a summary of complaints related to the project, updated within 1 month of receiving a complaint associated with the project; (x) the Compliance Report of the project; (xi) audit reports prepared as part of any Independent Audit of the project and the Proponent's response to the recommendations in any audit report; (xii) any other matter required by the Planning Secretary; and (b) keep such information up to date, to the satisfaction of the Planning Secretary.	Project Manager

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## 3 Community and Stakeholder Engagement

### 3.1 Interested Parties

Interested parties relevant to the project include BlueScope inter-departments, service providers, Environment Protection Agency, Sydney Water, Wollongong City Council, Department of Planning & Environment, and the neighbouring community.

Policies and procedures are in place at BlueScope and will apply to the project to ensure compliance to the needs and expectations of interested parties is achieved through a range of activities including the effective management of legal obligations, reporting of environmental requirements and performance, communication with regulatory authorities where applicable, employee/contractor engagement activities, and community consultation.

### 3.2 Community Consultation

Per Condition A22 of the Infrastructure Approval, the community will be regularly informed about the construction, commissioning, and operation of the project through the existing Bluescope Community Consultative Committee. Further, in accordance with Condition C17, information about the project will be made publicly available on the BlueScope Illawarra website (<https://www.bluescopeillawarra.com.au/pksw-no6-blast-furnace-reline/>).

### 3.3 Stakeholder Engagement

A communications plan has been developed for the project (6BFR-PRJ-PLN-0004). This plan aims to ensure that stakeholders are informed of the project status and environmental performance. It details internal and external stakeholders, the forum through which engagements occur, the purpose and frequency of communications, and the roles responsible for conducting the engagement.

### 3.4 Complaints Handling

BlueScope has an established complaints handling procedure, Contact Procedure for Complaints and Enquiries (SP-ENV-07-03), that is applicable to the project. The procedure addresses external complaints and enquiries as well as internal complaints, enquiries or self-reports and defines the key contacts and actions to be taken following a complaint or enquiry.

Any complaints or enquiries that relate to the project will be recorded in accordance with the established procedure and the Project Manager will be notified.

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## 4 Environment Management Framework

### 4.1 Relationship to existing Environment Management System

BlueScope's ASP Manufacturing Management System Manual (MM.BZ-MS-M-01-01) describes the Company's established environment management system that meets the requirements of and is certified to ISO 14001. The management system utilises BlueScope's Safety, Environment, and Quality system (SEQ System) which is aligned with the BlueScope 14 Health, Safety and Environment (HSE) Standards and provides information related to managing risks, monitoring legal compliance, and maintaining the systems and documentation associated with health, safety, environment, and quality.

The SEQ system fits into the hierarchy of BlueScope's HSE documents as depicted in Figure 4. This CEMP fits into the *Sub-Business Policies, Procedures and Guidelines* section of the hierarchy.



Figure 4: BlueScope's HSE Document Hierarchy

## 4.2 Environmental Management Documents

BlueScope's existing environmental management procedures and systems apply to the project activities. These include but are not limited to the procedures and systems listed in Table 4.

Table 4 - BlueScope Environmental Management Procedures and Systems

Document/System	Reference	Purpose
BlueScope's HSEC Policy	<a href="#">BSL-MS-P-01</a>	Identifies BlueScope's commitment to Health, Safety, Environment, and Community
ASP Manufacturing Management Systems Manual	<a href="#">MM.BZ-MS-M-01-01</a>	Describes at the highest level, those systems and processes used by BlueScope Australian Steel Products Manufacturing Businesses to effectively manage its operations
BlueScope's Safety, Environment, and Quality system	<a href="#">SEQ System</a>	A management system for Safety, Environment and Quality that provides access to the SEQ procedures, tools and other resources.
HSE Risk Management	<a href="#">BSL-HSE-SD-03-01</a>	Sets the requirements and mechanisms for implementing the BlueScope Risk Management Standard within a Health, Safety and Environmental (HSE) context.
HSE Incident Management	<a href="#">BSL-HSE-SD-12-01</a>	Sets the requirements for incident management across BlueScope in order to meet the expectations of the BlueScope Health, Safety & Environment (HSE) Management System
Management of Excavated Soil at PKSW	<a href="#">MA-ENV-02-02</a>	Outlines how excavated soil, arising during construction, demolition or maintenance activity, is managed to minimise harm to human health and the environment
Fugitive Dust Management System	<a href="#">MA-ENV-02-02</a>	Describes the system used to monitor and report both fugitive dust emissions and the conditions contributing to the dust emissions from the BlueScope PKSW site
Vegetation Management Plan	<a href="#">MA-ENV-02-08</a>	Identifies the requirements of tree planting, pruning, removal, weed management and disposal

Document/System	Reference	Purpose
Management of Threatened Species, The Green and Golden Bell Frog, <i>Litoria Aurea</i>	<a href="#">MA-ENV-03-03</a>	Identifies the actions and requirements necessary to promote the development and maintenance of existing sub-populations of the Green and Gold Bell Frogs on the PKSW site.
Stockpile Environment Management Plan	<a href="#">MA-ENV-03-08</a>	Details the how stockpiles and fugitive dust emissions are to be managed at BlueScope's PKSW site
Biodiversity Management Plan	<a href="#">MA-ENV-03-09</a>	Assists with the identification, protection and management of native vegetation and fauna habitats across BlueScope's Illawarra sites
Unexpected Finds Procedure	<a href="#">MA-ENV-03-11</a>	Provides guidance for the management of any unexpected finds including contamination and heritage items on BlueScope Steel licenced sites in New South Wales
Spill Response Guidelines	<a href="#">MA-ENV-11-02</a>	Outlines the necessary steps to be taken by Plant Departments to prepare for or respond to spills reported within their area.
Pollution Incident Response Management Plan for NSW Licenced Premises	<a href="#">MA-ENV-11-04</a>	Details the procedure for the notification of pollution incidents that result in or have the potential to cause material harm to the environment in BlueScope licenced sites across NSW
Contact Procedure for Complaints and Enquiries	<a href="#">SP-ENV-07-03</a>	Define actions to be followed by the Environment Department personnel, External Affairs personnel and the PKSW Switchboard in relation to handling complaints and enquiries
Management of Waste Material	<a href="#">DIV-AR-RS-01</a>	Describes the system for waste management within PKSW and for movement of waste materials to and from the PKSW site
SAP Learning Centre	<a href="#">SAP Learning Centre</a>	A repository of training and support materials to assist in the use of the BlueScope SAP systems and processes
Job Safety/ Environment Analyses	<a href="#">F.BZ-SEQ-S-03-02.02</a>	A tool used to identify task related hazards and controls based on the sequential job steps or unplanned changes to the job
Safe System of Work	<a href="#">BZ-OHS-S-03-01</a>	Processes that may include procedures, risk assessments, permits, inductions and training, that collectively form a system for undertaking work in a safe manner
Safe Work Method Statement	<a href="#">F.BZ-SEQ-S-09-10.21</a>	A tool used to identify task related hazards and controls based on the sequential job steps or unplanned changes to the job

Specific Environment Management Documents relevant to the construction and commissioning phases of the are required in accordance with the conditions of Approval and commitments made in the EIS. Some of the requirements are adequately covered by existing BlueScope procedures, while others have been prepared specifically for the project as outlined in Table 5.

**Table 5: Specific Environment Management Plans**

6BFR Management Plan	Requirement	Reference
Erosion and Sediment Control Plan	Approval Condition C3, EIS Commitment	6BFR-PRJ-PLN-0033
Construction Traffic Management Plan	Approval Conditions B41, C3, EIS Commitment	6BFR-PRJ-PLN-0020
Unexpected Contamination Procedure	Approval Conditions B47, C3	MA-ENV-03-11
Noise and Vibration Management Measures	Approval Condition C3, EIS Commitment	6BFR-PRJ-PLN-0032



6BFR Management Plan	Requirement	Reference
Community Consultation and Complaints Handling	Approval Condition C3	Section 3 6BFR-PRJ-PLN-0004 SP-ENV-07-03
Soil and Water Management Plan	EIS Commitment	6BFR-PRJ-PLN-0033
Dust Management Plan	EIS Commitment	6BFR-PRJ-PLN-0034
6BF Reline Environmental Induction	EIS Commitment	6BF-GEN-PRE-0031
6BF Emergency Response Plan	EIS Commitment	MA-BF6-EMG-01
6BFR Risk Management Plan	Nil	6BFR-PRJ-PLN-0011

### 4.3 Environmental Management Structure and Responsibilities

All personnel working on the 6BF Reline project must comply with regulatory and BlueScope requirements and must conduct work in a proper and efficient manner to protect the environment.

The Project Director takes primary responsibility for environmental issues and compliance with this CEMP. Environmental advisors within the BlueScope Environment Department will support the Project Director and will assist managers and supervisors fulfill their accountabilities.

Each position in the 6BF Reline management team has defined responsibilities for the management of environmental aspects and issues. All members of the 6BF Reline management team should contribute to and participate in environmental management and improvement initiatives, contribute to a positive environmental culture, and participate in incident investigations.

Contractor managers and supervisors working on the project also have defined responsibilities for environmental management.

The environmental responsibilities for the key management and supervision roles include (but are not limited to) those listed in Table 6.

**Table 6: Key Management Roles and Environmental Responsibilities**

Role	Responsibilities
Project Director	<ul style="list-style-type: none"> <li>Develop a culture in which environmental effects are considered at all times.</li> <li>Contribute to and participate in the environmental program</li> </ul>
Project Manager	<ul style="list-style-type: none"> <li>Develop a culture in which environmental effects are considered at all times.</li> <li>Participate in environmental audits and communication sessions.</li> <li>Set objectives, monitor, and analyse environmental performance.</li> <li>Understand and manage 6BF Reline environmental compliance for legislative requirements.</li> <li>Incorporate environmental safety goals into the roles of all team members.</li> <li>Ensure that environmental responsibility is an integral part of all management systems and processes.</li> <li>Review training needs for all employees.</li> <li>Provide resources to ensure that actions to address environmental issues are implemented.</li> <li>Ensure that adequate environmental evaluations are made of all modification designs and plant and equipment purchases.</li> <li>Ensure that systems are in place to inform employees, contractors and visitors of pertinent environmental issues.</li> <li>Ensure that meetings are held to discuss environmental issues.</li> <li>Ensure that desktop exercises are carried out to test the effectiveness of Emergency Response Plans.</li> <li>Ensure that there is responsible management of contractors on the site.</li> </ul>



Role	Responsibilities
	<ul style="list-style-type: none"> <li>Ensure that competent and trained, responsible engineers and supervisors exist to manage contractors on the works.</li> <li>Maintain a relationship with BlueScope management on environmental issues.</li> </ul>
Engineering Manager	<ul style="list-style-type: none"> <li>Ensure that management systems are in place and understood to give environmentally safe design and operation.</li> <li>Ensure that environmental hazards and risks are identified for all plant and major equipment.</li> <li>Ensure that designs are fit for purpose and that adequate consideration has been given to environmental issues.</li> <li>Ensure that all engineering staff are inducted and have received the required training to enable adequate environmental management of site.</li> <li>Contribute to and participate in the 6BF Reline management team environmental program.</li> <li>Provide engineering support as required to assist in the implementation and compliance of this CEMP.</li> <li>Promote the involvement of all employees in improving environmental management.</li> <li>Conduct environmental audits to evaluate compliance with environmental management plans and systems as per the audit/inspection schedule.</li> <li>Liaise with BlueScope's Environment Department to ensure full understanding and communication of all environmental issues impacting on BlueScope operations from 6BF Reline activities and vice versa.</li> <li>Participate in environment meetings.</li> <li>Assist in the preparation of Emergency Response Plans.</li> <li>Identify hazards and risks through analysis and inspection, including personnel, plant and environment.</li> <li>Focus on the elimination of environmentally hazardous acts, and rectify unsafe conditions quickly.</li> <li>Conduct workplace inspections.</li> </ul>
Construction Manager	<ul style="list-style-type: none"> <li>Contribute to a positive environmental culture by example.</li> <li>Ensure that management systems are in place and understood to provide an environmentally safe construction workplace.</li> <li>Ensure that environmental hazards and risks are identified on all construction activities.</li> <li>Arrange construction pre-start hazard-analysis studies for all "at risk" operations.</li> <li>Contribute to and participate in the 6BF Reline management team environment program.</li> <li>Participate in environment meetings.</li> <li>Participate in environmental inspections and serious incident investigations.</li> <li>Participate in environmental audits.</li> <li>Focus on the elimination of environmentally unsafe acts, and rectify unsafe conditions quickly.</li> <li>Ensure that there is responsible management of contractors on the site.</li> <li>Ensure that competent and trained, responsible engineers and supervisors exist to manage contractors on the works.</li> <li>Maintain a relationship with BlueScope management on environmental issues.</li> <li>Facilitate reviews of the CEMP.</li> <li>Participate in a pre-start environmental review with the vendors'/Contractor's management to facilitate an Environmental Bridging Document to remove any uncertainty/differences between this CEMP and the vendors'/Contractor's CEMP.</li> </ul>
HSE Manager	<ul style="list-style-type: none"> <li>Understand and manage 6BF Reline environmental compliance for legislative requirements.</li> <li>Participate in the 6BF Reline management team environmental programs.</li> <li>Contribute to a positive environmental culture by example.</li> <li>Ensure that meetings are held to discuss environmental issues.</li> </ul>



Role	Responsibilities
	<ul style="list-style-type: none"> <li>• Ensure that management systems are in place for environmentally safe execution of the project.</li> <li>• Report HSEC matters and performance to BlueScope.</li> <li>• Coordinate and participate in drills and exercises to test the effectiveness of Emergency Response Plans.</li> <li>• Review training needs for all employees and provide training as required.</li> <li>• Ensure that proper training is provided to enable an environmentally safe execution of the project.</li> <li>• Ensure that environmental hazards and risks are identified and control measures introduced on all project activities.</li> <li>• Maintain a relationship with BlueScope management on environmental issues.</li> </ul>
Commissioning Manager	<ul style="list-style-type: none"> <li>• Contribute to a positive environmental culture by example.</li> <li>• Ensure that management systems are in place and understood to provide an environmentally safe workplace.</li> <li>• Ensure that environmental hazards and risks are identified on all commissioning activities.</li> <li>• Arrange commissioning pre-start hazard-analysis studies for all “at risk” operations.</li> <li>• Contribute to and participate in the 6BF Reline management team environment program.</li> <li>• Participate in environment meetings.</li> <li>• Participate in environmental inspections and serious incident investigations.</li> <li>• Participate in environmental audits.</li> <li>• Focus on the elimination of environmentally unsafe acts, and rectify unsafe conditions quickly.</li> <li>• Ensure that there is responsible management of contractors on the site.</li> <li>• Ensure that competent and trained, responsible engineers and supervisors exist to manage contractors on the works.</li> <li>• Maintain a relationship with BlueScope management on environmental issues.</li> </ul>
Area Managers	<ul style="list-style-type: none"> <li>• Ensure that environmental hazards and risks are identified in design stage.</li> <li>• Ensure that management systems are followed to give environmentally safe designs.</li> <li>• Ensure self and others’ environmental awareness at all times.</li> <li>• Be aware of environmental hazards and risks in the plant area of activity.</li> <li>• Participate in and contribute to the 6BF Reline management team environmental plan.</li> <li>• Promote a culture in which environmental effects are considered at all times.</li> <li>• Define and document environmentally safe systems of work and, through consultation, ensure they are applied.</li> <li>• Ensure that all incidents are thoroughly investigated to avoid re-occurrence.</li> <li>• Ensure that there is responsible management of contractors on the site.</li> <li>• Ensure that competent and trained, responsible engineers and supervisors exist to manage contractors on the works.</li> <li>• Ensure that contractors and employees understand any environmental hazards associated with performing tasks.</li> <li>• Promote the involvement of all employees in improving environmental awareness.</li> <li>• Focus on the elimination of environmentally unsafe acts, and rectify unsafe conditions quickly.</li> <li>• Conduct environmental inspections, monitor behaviour on site and participate in audits.</li> <li>• Notify incidents and address environmentally unsafe acts and conditions in accordance with this CEMP and BlueScope’s Environment Management System, and follow-up to ensure corrective and preventative actions are timely and effective.</li> <li>• By actions, demonstrate to contractors at all times the commitment of the 6BF Reline team to the highest standards of environmental management.</li> <li>• Participate in accident /incident investigations.</li> </ul>

Role	Responsibilities
Environment Advisor	<ul style="list-style-type: none"> <li>Promote a culture in which environmental effects are considered at all times.</li> <li>Understand and manage 6BF Reline environmental compliance for legislative requirements.</li> <li>Liaise with regulatory bodies and other external agencies.</li> <li>Promote the involvement of all employees in improving environmental compliance.</li> <li>Focus on the elimination of environmentally hazardous acts, and rectify unsafe conditions quickly.</li> <li>Ensure self and others' environmental awareness at all times.</li> <li>Participate in accident/incident investigations.</li> <li>Report to the 6BF Reline Management team on environmental issues</li> <li>Participate in and contribute to the 6BF Reline management team environmental plan.</li> <li>Ensure that all incidents are thoroughly investigated to identify root causes.</li> </ul>
Construction Co-ordinators	<ul style="list-style-type: none"> <li>Compliance with the requirements of the CEMP.</li> <li>Ensuring environmental aspects are adequately addressed and mitigated during Job Safety and Environment Analyses and execution of Works.</li> <li>Arranging toolbox meetings to the defined schedule and ensuring that the meetings are of high standard with all employees attending and participating.</li> <li>Initiation and completion of environmental audits and inspections.</li> <li>Reporting all incidents, accidents and non-conformance in accordance with the CEMP.</li> <li>Participation in relevant investigations of accidents, incidents and non-conformance.</li> <li>Demonstrating to the vendor / contractor workforce, by their actions, commitment to the highest standards of environmental management.</li> <li>Provision of appropriate resources to control / mitigate environmental hazards.</li> <li>Compliance with the requirements of the CEMP.</li> <li>Attendance at team's environment meetings.</li> <li>Pro-active addressing of environmental issues, looking for improvements and looking after themselves and the environment.</li> <li>Ensuring hazards and controls are addressed and implemented prior to and during the execution of Works</li> </ul>

## 4.4 Legal and Compliance Requirements

At all times, the project must comply with relevant legal and compliance requirements including:

- legislative, regulatory and other requirements such as permits and licences;
- conditions of the Infrastructure Approval; and
- guidelines, policies, and standards.

Key legislative requirements relevant to the 6BF Reline are detailed in Table 7.

**Table 7: Key Legislative Requirements**

Requirement	Project Relevance	Reference in this CEMP
Environmental Planning and Assessment Act 1979 (EP&A Act)	<p>The project has been declared CSSI in accordance with Section 5.13 of the EP&amp;A Act and clause 26, Schedule 5 of State Environmental Planning Policy (State and Regional Development) 2011.</p> <p>The project must comply with all conditions specified in Infrastructure Approval SSI-22545215.</p>	<p>Section 1.1 This CEMP</p>

Requirement	Project Relevance	Reference in this CEMP
Protection of the Environment Operations Act 1997 (POEO Act)	<p>An objective of the POEO Act is to protect, restore and enhance the quality of the environment, in recognition of the need to maintain ecologically sustainable development. The POEO Act provides for an integrated system of licensing and contains a core list of activities in Schedule 1 which require an Environment Protection Licence (EPL).</p> <p>PKSW is operated under EPL 6092. This licence will be varied, as required, to incorporate any new and remove any discontinued scheduled activities or conditions associated with the project.</p>	This CEMP
Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)	<p>Part 9 of the EPBC Act provides that an action that has, will have or is likely to have a significant impact on MNES may not be undertaken without prior approval from the Commonwealth Minister.</p> <p>No potential significant impacts on listed threatened species and communities and any other were identified as part of the EIS.</p> <p>A known population of the Green and Golden Bell Frog (<i>Litoria Aurea</i>) (GGBF) occurs within the greater PKSW site, approximately 1.4 kilometres from the project site. All measures outlined in Management of Threatened Species, The Green and Golden Bell Frog, <i>Litoria Aurea</i> (BlueScope, 2020) will be implemented during construction of the project, and all project personnel will be trained in this procedure.</p>	Section 4.2
Environment Protection Licence 6092	All activities conducted on the PKSW site, including those relating to the project, must comply with the Environment Protection Licence.	Section 1.1
Infrastructure Approval SSI-22545215	All activities relating to the project must comply with the Infrastructure Approval conditions.	Section 1.1 Appendix 2
Contaminated Land Management Act 1997 (CLM Act)	<p>The CLM Act establishes a process for investigating and (where appropriate) remediating land that is considered to be contaminated.</p> <p>The PKSW site is listed as a contaminated site by the EPA and the EIS identified the potential for the presence of acid sulphate soil material.</p>	Unexpected Finds Procedure ( <a href="#">MA-ENV-03-11</a> )

## 4.5 Training and Awareness

All personnel involved in the construction and commissioning works (including contractors and sub-contractors) must complete the project induction program, which will advise them of the requirements of this CEMP and any other specific site requirements, prior to commencing work. A project-specific environment induction will include key environmental aspects, impacts, risks, and controls associated with the project, as well as relevant legislative responsibilities and penalties for failing to meet these responsibilities. A copy of this CEMP will be made available prior to commencement of training and throughout the life of the project.

A Training Needs Analysis will be conducted by the Project Manager and the HSE Manager for all personnel working on the project. The HSE Manager is responsible for implementing the training program which will be reviewed and approved by the 6BF Reline Management Team prior to commencement. The Training Needs Analysis will ensure all personnel have the required skills and competency to perform the relevant environmental management, reporting, monitoring, and stakeholder engagement functions of their role.

### 4.5.1 Reline Team Training

BlueScope employee training records are registered in SAP. The HSE Manager is responsible for ensuring that all members of the 6BF Reline team undertake the relevant training as outlined in the Training Matrix.

Training needs and competency records are managed in through BlueScope's training system, SAP.

## 4.5.2 Contractor Training

Vendors and Contractors will be required to undertake work-specific inductions for their employees prior to commencing work on the 6BF Reline site. Vendors and Contractors will be responsible for engaging competent and experienced supervisors and employees who hold the appropriate qualification and certification for the required tasks. The Training Needs Analysis identifies training that will be required for Vendors and Contractors, in order to perform their tasks in compliance with site requirements.

Training needs and competency records are managed in through BlueScope's Contractor management system, Comply Flow.

## 4.5.3 Toolbox Talks

Routine Toolbox Talks will be conducted to ensure project personnel are aware of project progress, planned works, incidents and near misses, and other general matters relating to the project.

Prior to the commencement of work each day, work teams are required to undertake a documented Toolbox Talk to confirm task outcomes, review the risks specific to the task, and ensure the necessary safety and environment controls for the task are understood and in place.

## 4.5.4 HSEC Meetings

Each month, a meeting will be scheduled with the project team to provide an overview of HSEC performance and discuss current and emerging issues.

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# 5 Environment Impacts, Controls, and Risk Assessment

## 5.1 Environmental Risk Assessment

BlueScope has an established HSE Risk Management standard ([BSL-HSE-SD-03-01](#)) which guides the identification, assessment, treatment and monitoring of HSE risks. In accordance with this standard, a Risk Management Plan has been developed for the Project (6BFR-PRJ-PLN-0011). The Risk Management Plan outlines the risk management processes, activities, timings, communication and responsibilities for the Project and describes how the associated risks will be identified, assessed and managed.

An environmental risk assessment was undertaken to identify the environmental aspects and impacts relevant to the Project, determine the potential likelihood and consequence of these events, and propose mitigation measures to manage and minimise the potential impacts. The results of the environmental risk assessment were recorded the project's risk register (6BFR-PRJ-REG-0001) and are presented in Appendix 2.

Additionally, all personnel must carry out a risk assessment before undertaking a specific task. A Job Safety and Environment Analysis (JSEA), Safe Systems of Work (SSW), or Safe Work Method Statements (SWMS) will be developed to identify hazards and controls of a specific task prior to commencing the job. The JSEA/SSW/SWMS must be reviewed and updated following unplanned changes to the job or in identification of unidentified hazards.

## 5.2 Environmental Management Measures

The EIS and the risk assessment process identified the environmental risks associated with the project's construction and commissioning activities. Management measures to mitigate or minimise these risks are presented in Appendix 3.

## 6 Monitoring and Compliance

### 6.1 Environmental Monitoring Program

Monitoring will be undertaken to determine the effectiveness of environmental controls and to comply with conditions of the Infrastructure Approval.

In accordance with Condition B39 of the Infrastructure Approval, should blasting be required, noise and vibration monitoring will be performed during the first two blasting events to determine compliance with Conditions B37 and B38. Details of the standards, guidelines, and methodology for this monitoring is detailed as part of the Noise and Vibration Management Plan provided in 6BFR-PRJ-PLN-0032.

In addition to this requirement, other aspects will be monitored throughout the project construction phase as specified in Table 8.

**Table 8: Monitoring during Construction and Commissioning**

Aspect	Parameter	Location	Methodology	Frequency	Responsibility	Evidence
Air	Dust emissions	All areas	Visual Assessment Ambient Monitoring Stations	During activities with dust potential or during high winds	All personnel	CCTV Ambient Station data (OSI PI) Incidents/Self-reports
Surface Water	Discharge to waterways	Discharge at Ironmaking East Drain	Sampling and Analysis	As specified in EPL 6092 at a minimum	Environment Department	Laboratory Data (Monitor Pro)
		Discharge at No.2 Blower Station Drain	Sampling and Analysis	As specified in EPL 6092 at a minimum	Environment Department	Laboratory Data (Monitor Pro)
Groundwater	Contamination	Environmental boreholes	Sampling and Analysis	Annually	Environment Department	Consultant Reports
Noise and Vibration	Emissions beyond the boundary	At most affected residences	Noise and Vibration Monitoring	As specified in the noise and vibration management plan	Noise and Vibration Consultant	Consultant Reports
Soil	Contaminated material	Excavated material	Sampling and Analysis	As required	Environment Department	Laboratory Report

### 6.2 Environmental Inspections and Audits

All personnel working on the project will be encouraged to undertake environmental audits of activities as they are performed and record the audits and any findings in BlueScope's incident and risk management database.

Inspections of environmental controls will be conducted as a monthly audit by the construction manager (or a nominated delegate) to confirm the controls are in place and working effectively, and to identify improvement opportunities. The inspections may constitute a general assessment of control conditions, targeted inspections, adequacy assessment of controls, or activity observations.

**Table 9: Inspections during Construction and Commissioning**

Environmental Controls	Aspect	Potential Impact	Performance Criteria	Frequency
Bunding	Loss of containment	Discharge to waterway	No damage Appropriate capacity	Monthly or after heavy rainfall
Chemical Storage	Loss of containment	Discharge to waterway Odour	No damage to containers or bunds Appropriate storage and bund capacity	Monthly and on use
Street Sweepers	Dragout	Dust emissions	No material on roadways Appropriate service schedule	Monthly
Water carts	Emissions from stockpiles or during excavation	Dust emissions	No emissions from stockpiles or during excavation activities	Monthly

Observations of all inspections and audits will be documented in an incident and risk management system. Any corrective actions identified must be assigned to a suitable person with an appropriate timeframe for completion.

### 6.3 Compliance Monitoring and Reporting

A Compliance Register has been developed to outline the compliance requirements for the construction and commissioning of the project as specified in the Infrastructure Approval, EPL 6092, and this CEMP. The register tabulates the condition referenced, a description of the requirement, if conditions have been met, if a non-compliance has occurred, and supporting evidence/comments where required.

Each quarter, the Project Manager and the Environment Advisor will review and update the Compliance Register. The HSE Manager will periodically audit the construction activities to verify compliance with this CEMP.

In accordance with condition C14, within one year of the commencement of construction of the project, and every five years after, unless the Planning Secretary directs otherwise, an Independent Environmental Audit will be undertaken in accordance with the Independent Audit Post Approval Requirements (Department 2020) by an independent expert who is endorsed by the Planning Secretary. BlueScope will respond to each Independent Audit Report and will publish it on the public website no later than 60 days after submission to the Planning Secretary, per condition C15.

### 6.4 Corrective and Preventative Actions

A non-conformance is a situation or event that does not comply with the safeguards required in this CEMP. All personnel working on the project may raise any non-conformances or improvement opportunities as they are identified.

A non-compliance is an occurrence or set of circumstances that breach the conditions of the Infrastructure Approval, Environment Protection Licence and/or any other legal requirement. In accordance with Condition C11 of the infrastructure Approval, non-compliances will be reported to the DPE via the Major Projects website within seven days of becoming aware of any non-compliance. Non-compliances to the EPL will be reported to the EPA.

Non-conformances and non-compliances will be recorded in BlueScope's incident and risk management database and managed in accordance with BlueScope's HSE Incident Management procedure (BSL-HSE-SD-12-01). Corrective and preventative actions addressing any non-conformances or non-compliances will be assigned to relevant personnel with an appropriate completion date. These actions will be recorded in the incident and risk management database entry.



## 6.5 Other Environmental Reporting

Prior to, during, and after construction and commissioning, several reports are required to be prepared and submitted in accordance with Table 10.

**Table 10: Reporting Requirements**

Report	Scope	Timing	Recipient	Responsibility
Wastewater Treatment Design Report	The wastewater treatment system/s to manage discharges directly from 6BF must be designed in consultation with the EPA and to the satisfaction of the Planning Secretary.	Prior to the commencement of construction of the 6BF wastewater treatment system	EPA DPE	Area 2 Manager Project Manager Environment Advisor
Air Emissions Verification Report	The report aims to verify the emission performances of the stove waste gas stack and slag granulator condensing unit.	At least 2 months prior to the commencement of construction of the Stove Waste Gas Heat Recovery System and the Slag Granulation Condensing Unit	DPE	Area 2 Manager Area 3 Manager Project Manager Environment Advisor
Blast Monitoring Report	Report detailing results of monitoring of the first two blasting events	During Construction	EPA	Project Manager Environment Advisor

## 6.6 Environmental Incident and Emergency Response

An incident is an occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance. Material harm is harm that:

- (a) Involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or
- (b) Results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practical measures to prevent, mitigate, or make good harm to the environment).

A project-specific 6BFR Emergency Response Plan (MA-6BF-EMG-01) has been developed to ensure that effective systems and appropriately trained personnel are in place to detect and respond to an emergency. This plan identifies potential emergency scenarios and their safety and environmental impacts, describes the response process, specifies personnel who are responsible and others that must be notified, and details the locations of emergency assembly areas, emergency shower and eyewash stations, spill kits, and fire suppression equipment.

All incidents must be reported and managed in accordance with BlueScope's HSE Incident Management procedure (BSL-HSE-SD-12-01) and documented in an incident and risk management system. Corrective and preventative actions relating to incidents will be included in the incident report. Contractor incident reports must be provided to the plant or work owner (as identified in the relevant JSEA/SSW/SWMS) such that they can be documented in the project's incident and risk management system.

A BlueScope Environment Officer on call is available 24 hours 7 days per week on 1800 640 252 or (02) 4275 7522. The Environment Officer will receive and respond to incident reports, provide clean up assistance where required, and will notify appropriate government agencies, such as the EPA and DPE in accordance with relevant statutory requirements. In accordance with Condition C10 of the Infrastructure Approval, incidents relating to the project will be reported to the DPE via the Major Projects website.

BlueScope has an existing Pollution Incident Response Management Plan (PIRMP) for the Port Kembla Steelworks as required by the Protection of the Environment Operations Act 1997 (POEO). The existing PIRMP (MA-ENV-11-04) applies to all activities on the PKSW premises, including those associated with the project.

## 6.7 CEMP Review and Revision Process

As specified in Condition C8 and C9 of the Infrastructure Approval, this CEMP will be reviewed within three months of:

- the submission of an incident report under condition C10;
- the approval of any modification of the conditions of this approval; or
- the issue of a direction of the Planning Secretary under condition A2(b) which requires a review, the strategies, plans and programs required under this approval must be reviewed.

Where the CEMP is revised as a result of the review, the revised document must be submitted to the Planning Secretary for approval within six weeks of the review in accordance with C9 of the Approval.



## Appendix 1. Approval Conditions Relevant to the CEMP

Table 11: Ongoing Conditions of Approval

Requirement	Details	Reference in this CEMP
<b>Terms of Approval</b>		
A2	The project may only be carried out: (a) in compliance with the conditions of this approval; (b) in accordance with all written directions of the Planning Secretary; (c) in accordance with the EIS and RTS; (d) in accordance with the Project Plans in Appendix 1.	This CEMP
<b>Limits of Approval</b>		
A6	The Proponent must not operate 5BF and 6BF concurrently.	Section 1.1 Section 2.1
<b>Evidence of Consultation</b>		
A12	Where conditions of this approval require consultation with an identified party, the Proponent must: (a) consult with the relevant party prior to submitting the subject document to the Planning Secretary for approval; and (b) provide details of the consultation undertaken including: (i) the outcome of that consultation, matters resolved and unresolved; and (ii) details of any disagreement remaining between the party consulted and the Proponent and how the Proponent has addressed the matters not resolved.	Section 3 Section 6.5
<b>Staging, Combining and Updating Strategies, Plans, or Programs</b>		
A13	With the approval of the Planning Secretary, the Proponent may: (a) prepare and submit any strategy, plan or program required by this approval on a staged basis (if a clear description is provided as to the specific stage and scope of the project to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program); (b) combine any strategy, plan or program required by this approval (if a clear relationship is demonstrated between the strategies, plans or programs that are proposed to be combined); and (c) update any strategy, plan or program required by this approval (to ensure the strategies, plans and programs required under this approval are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the project).	This CEMP

Requirement	Details	Reference in this CEMP
<b>Compliance</b>		
A20	The Proponent must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this approval relevant to activities they carry out in respect of the project.	Section 1.1
<b>Water Quality</b>		
B1	Prior to the commencement of any construction or other surface disturbance for the project, the Proponent must install and maintain suitable erosion and sediment control measures on-site, in accordance with the relevant requirements of the Managing Urban Stormwater: Soils and Construction - Volume 1: Blue Book (Landcom, 2004) guideline and the Erosion and Sediment Control Plan included in the CEMP required by Condition C2.	Soil and Water Management Plan (6BFR-PRJ-PLN-0033)
B6	The Proponent must: (a) not commence construction of the wastewater treatment system until the design required by condition B5 is approved by the Planning Secretary; and (b) implement the wastewater treatment system approved by the Planning Secretary prior to the commencement of operation.	Section 2.4
<b>Air Quality</b>		
B11	The Proponent must take all reasonable steps to minimise dust generated during all works authorised by this approval.	Dust Management Plan (6BFR-PRJ-PLN-0034)
B12	During construction, the Proponent must ensure that: (a) exposed surfaces and stockpiles are suppressed by regular watering; (b) all trucks entering or leaving the site with loads have their loads covered; (c) trucks associated with the project do not track dirt onto the public road network; (d) public roads used by these trucks are kept clean; and (e) land stabilisation works are carried out progressively on site to minimise exposed surfaces.	Dust Management Plan (6BFR-PRJ-PLN-0034)
B14	The Proponent must implement measures to minimise air emissions for each component of the commissioning phase.	Dust Management Plan (6BFR-PRJ-PLN-0034)

Requirement	Details	Reference in this CEMP
B15	<p>Prior to the commencement of construction of the Stove Waste Gas Heat Recovery System and the Slag Granulation Condensing Unit, the Proponent must prepare an AEVR to verify the emission performances of the stove Waste Gas stack and Slag Granulator condensing unit. The AEVR must:</p> <p>(a) for the stove Waste Gas Heat Recovery system, include:</p> <ul style="list-style-type: none"> <li>(i) a detailed description of the final design of the waste gas heat recovery system and the redesigned burners for 6BF;</li> <li>(ii) emission guarantees and/or emission calculations that detail the emission performance for nitrogen dioxide (NO<sub>2</sub>) and sulphur dioxide (SO<sub>2</sub>) associated with implementation of the heat recovery system and redesigned burners;</li> <li>(iii) a comparison of the emissions performance with the previous operation of 6BF and prescribed concentrations in the Protection of the Environment Operations (Clean Air) Regulation 2021; and</li> <li>(iv) details of the emission reductions that would be achieved with implementation of the heat recovery system and redesigned burners.</li> </ul> <p>(b) for the condensing unit on the slag granulator, include:</p> <ul style="list-style-type: none"> <li>(i) a detailed description of the final design of the condensing sprays for the slag granulator;</li> <li>(ii) emission guarantees and/or emission calculations that detail the emission performance for hydrogen sulphide (H<sub>2</sub>S) associated with the implementation of the condensing unit;</li> <li>(iii) a comparison of the emissions performance with the previous operation of 6BF slag granulator and prescribed concentrations in the Protection of the Environment Operations (Clean Air) Regulation 2021; and</li> <li>(iv) details of the emission reductions that would be achieved with the implementation of the condensing unit.</li> </ul>	Section 6.5
B16	The Proponent must provide the AEVR to the Planning Secretary at least two months prior to the commencement of construction of the Stove Waste Gas Heat Recovery System and the Slag Granulation Condensing Unit.	Section 2.4 Section 6.5

### Greenhouse Gas Measures

B22	The Proponent must implement best practice measures to minimise the Scope 1 and Scope 2 greenhouse gas emissions generated by the project which are feasible and reasonable, including in the context of any concurrent programs for the steelworks.
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### Noise

B33	The project must comply with the hours detailed in Table 1, unless otherwise agreed in writing by the Planning Secretary.	Section 2.3.2
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**Table 1** Hours of Work

Activity	Day	Time
Construction	Monday – Friday	7 am to 6 pm
	Saturday	8 am to 1 pm
Blasting <sup>1</sup>	Monday – Saturday	9 am to 5 pm
Commissioning	Monday – Sunday	24 hours
Operation	Monday – Sunday	24 hours

<sup>1</sup> Blasting carried out inside the blast furnace structure to remove iron skull, refractories and burden material.

Requirement	Details	Reference in this CEMP
B34	Construction works outside of the hours identified in condition Table 1 may be undertaken in the following circumstances: <ul style="list-style-type: none"> <li>(a) works that are inaudible at the nearest sensitive receivers;</li> <li>(b) works agreed to in writing by the Planning Secretary;</li> <li>(c) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or</li> <li>(d) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.</li> </ul>	Section 2.3.2
B35	The project must be constructed to achieve the construction noise management levels detailed in the Interim Construction Noise Guideline (DECC, 2009) (as may be updated or replaced from time to time). All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and managed in accordance with the Construction Environmental Management Plan required by Condition C2.	Noise and Vibration Management Plan (6BFR-PRJ-PLN-0032)
<b>Traffic and Access</b>		
B41	Prior to the commencement of construction, the Proponent must prepare a Construction Traffic Management Plan for the project. The plan must form part of the CEMP required by condition C2 and must: <ul style="list-style-type: none"> <li>(a) be prepared by a suitably qualified and experienced person(s);</li> <li>(b) detail the measures that are to be implemented to ensure road safety and network efficiency during</li> <li>(c) construction;</li> <li>(d) detail heavy vehicle routes, access and parking arrangements;</li> <li>(e) include a Driver Code of Conduct to minimise the impacts of construction traffic, ensure drivers adhere to designated routes and on site speed limits and minimise road traffic noise;</li> <li>(f) include a program to monitor the effectiveness of these measures; and</li> <li>(g) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.</li> </ul>	Construction Traffic Management Plan (6BFR-PRJ-PLN-0020)
<b>Soils and Contamination</b>		
B47	Prior to the commencement of construction, the Proponent must prepare an unexpected contamination procedure to ensure that potentially contaminated material is appropriately managed. The procedure must form part of the CEMP in accordance with condition C2 and must ensure any material identified as contaminated is classified under the EPA's Waste Classification Guidelines and if required, disposed off-site, with the disposal location and results of testing submitted to the Planning Secretary, prior to its removal from the site.	Section 4.2 Unexpected Find Procedure ( <a href="#">MA-ENV-03-11</a> )
<b>Environmental Management</b>		
C2	The Proponent must prepare a Construction Environmental Management Plan (CEMP) in accordance with the requirements of condition C1 and to the satisfaction of the Planning Secretary.	This CEMP



Requirement	Details	Reference in this CEMP
C3	As part of the CEMP required under Condition C2 of this approval, the Proponent must include the following: (a) Erosion and Sediment Control Plan; (b) Construction Traffic Management Plan (see Condition B41); (c) Noise and vibration management measures; (d) Unexpected Contamination Procedure (see Condition B47); and (e) Community Consultation and Complaints Handling.	Soil and Water Management Plan (6BFR-PRJ-PLN-0033) Construction Traffic Management Plan (6BFR-PRJ-PLN-0020) Noise and Vibration Management Plan (6BFR-PRJ-PLN-0033) Unexpected Find Procedure (MA-ENV-03-11) Section 3
C4	The Proponent must: (a) not commence construction of the project until the CEMP is approved by the Planning Secretary; and (b) carry out the construction of the project in accordance with the CEMP approved by the Planning Secretary and as revised and approved by the Planning Secretary from time to time.	Section 2.4
C8	Within three months of: (a) the submission of an incident report under condition C10; (b) the approval of any modification of the conditions of this approval; or (c) the issue of a direction of the Planning Secretary under condition A2(b) which requires a review, the strategies, plans and programs required under this approval must be reviewed.	Section 6.7
<b>Reporting and Auditing</b>		
C10	The Planning Secretary must be notified in writing via the Major Projects website immediately after the Proponent becomes aware of an incident related to the project. The notification must identify the project (including the application number and the name of the project if it has one) and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 3.	Section 6.6
C11	The Planning Secretary must be notified in writing to the Major Projects website within seven days after the Proponent becomes aware of any non-compliance.	Section 6.4
C12	A non-compliance notification must identify the project and the application number for it, set out the condition of approval that the project is non-compliant with, the way in which 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.	Section 6.4



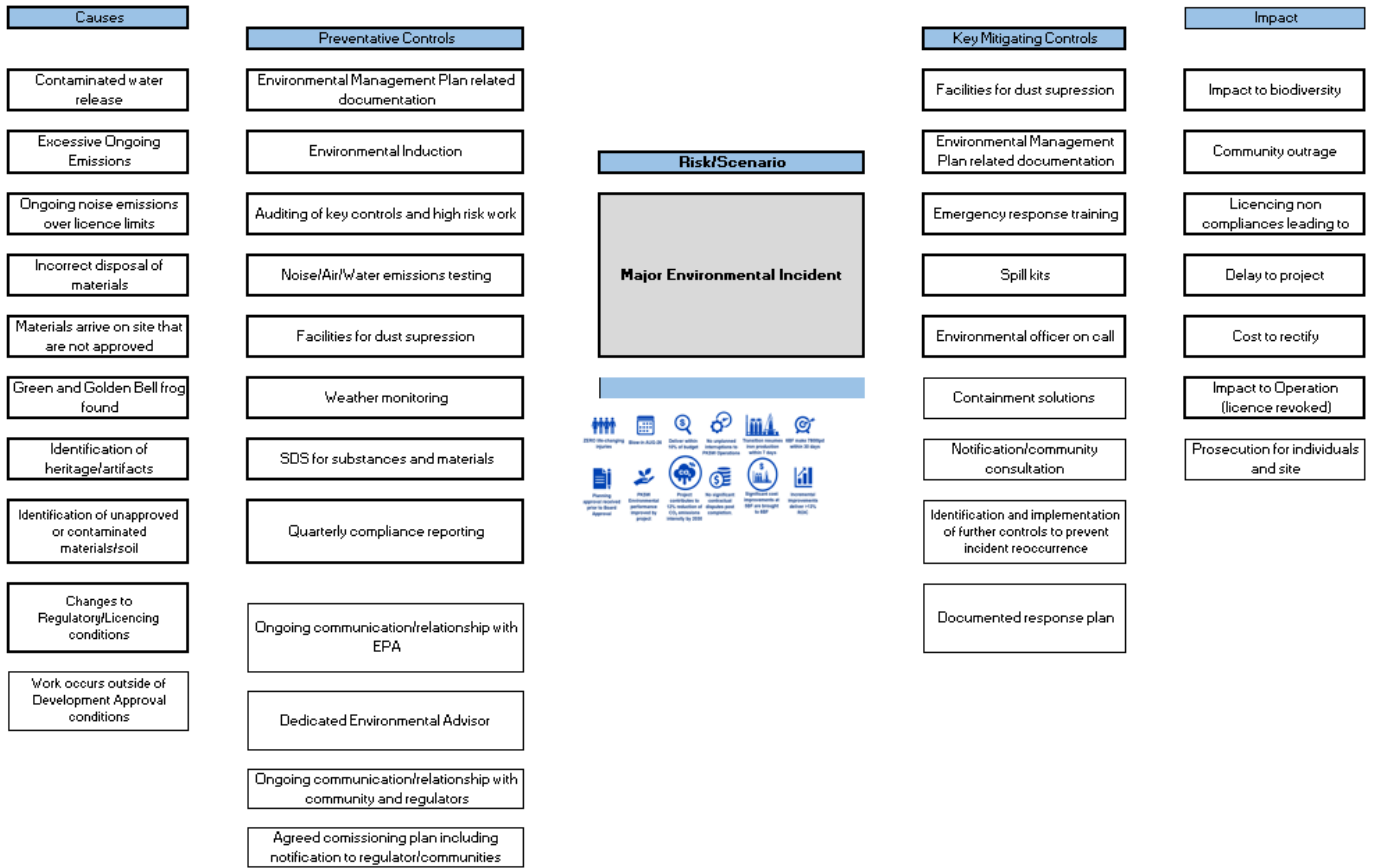
Requirement	Details	Reference in this CEMP
C14	<p>Within one year of the commencement of construction of the project, and every five years after, unless the Planning Secretary directs otherwise, the Proponent must commission and pay the full cost of an Independent Environmental Audit (Audit) of the project. Audits must:</p> <ul style="list-style-type: none"> <li>(a) be prepared in accordance with the Independent Audit Post Approval Requirements (Department 2020)</li> <li>(b) be led and conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Planning Secretary; and</li> <li>(c) be submitted to the satisfaction of the Planning Secretary within three months of commissioning the Audit (or within another timeframe agreed by the Planning Secretary).</li> </ul>	Section 6.3
C15	<p>In accordance with the specific requirements in the Independent Audit Post Approval Requirements (Department 2020), the Applicant must:</p> <ul style="list-style-type: none"> <li>(a) review and respond to each Independent Audit Report prepared under condition C14 of this approval;</li> <li>(b) submit the response to the Planning Secretary and any other NSW agency that requests it, together with a timetable for the implementation of the recommendations;</li> <li>(c) implement the recommendations to the satisfaction of the Planning Secretary; and</li> <li>(d) make each Independent Audit Report and response to it publicly available no later than 60 days after submission to the Planning Secretary and notify the Planning Secretary in writing at least 7 days before this is done.</li> </ul>	Section 6.3
C16	<p>Any condition of this approval that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&amp;A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, compliance reporting and independent auditing.</p> <p><i>Note: For the purposes of this condition, as set out in the EP&amp;A Act, "monitoring" is monitoring of the project to provide data on compliance with the approval or on the environmental impact of the project, and an "environmental audit" is a periodic or particular documented evaluation of the project to provide information on compliance with the approval or the environmental management or impact of the project.</i></p>	Section 6



Requirement	Details	Reference in this CEMP
C17	<p>At least 48 hours before the commencement of construction until the completion of all works under this approval, including decommissioning, the Proponent must:</p> <ul style="list-style-type: none"> <li>(a) make the following information and documents (as they are obtained or approved) publicly available on its website: <ul style="list-style-type: none"> <li>(i) the documents referred to in condition A2 of this approval;</li> <li>(ii) all current statutory approvals for the project;</li> <li>(iii) all approved strategies, plans and programs required under the conditions of this approval;</li> <li>(iv) minutes of CCC meetings;</li> <li>(v) regular reporting on the environmental performance of the project in accordance with the reporting requirements in any plans or programs approved under the conditions of this approval;</li> <li>(vi) a comprehensive summary of the monitoring results of the project, reported in accordance with the specifications in any conditions of this approval, or any approved plans and programs;</li> <li>(vii) a summary of the current stage and progress of the project;</li> <li>(viii) contact details to enquire about the project or to make a complaint;</li> <li>(ix) a summary of complaints related to the project, updated within 1 month of receiving a complaint associated with the project;</li> <li>(x) the Compliance Report of the project;</li> <li>(xi) audit reports prepared as part of any Independent Audit of the project and the Proponent's response to the recommendations in any audit report;</li> <li>(xii) any other matter required by the Planning Secretary; and</li> </ul> </li> <li>(b) keep such information up to date, to the satisfaction of the Planning Secretary.</li> </ul>	Section 3.2

## Appendix 2. Environmental Risk Assessment

Risk Owner	Risk Category	RAW Likelihood	RAW Impact	Inherent Risk	Estimate Area	Control Effectiveness	Residual I	Residual Impact	Residual Risk	Review Period	Review Date
Environmental Advisor	Health/ Safety/ Environment	3	3	6	Project Management	Mostly Effective	2	2	4	3m	23/05/2023



Action Required	Responsible	Due	Comments
Establish Ongoing communication/relationship with EPA, DPE, Project Manager, and project Environmental Advisor	AR	30/03/2022	Ongoing
Issue the Environment Induction and train the team	AR	30/06/2023	In progress

Figure 5: 6BF Reline Environmental Risk Assessment



### Appendix 3. Environmental Management Measures

The Environmental Management Measures identified in the EIS and in response to Approval Conditions are detailed in Table 12. Where measures identified in the EIS have been updated, they are shown as:

- Strikethrough = deleted measures or text.
- Bold = new text or edit to existing measures.

**Table 12: Environmental Management Measures during Construction and Commissioning**

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
<b>Air Quality</b>							
AQ1	A dust management plan for use during construction activities will be prepared prior to works commencing.	Construction	Prior to Construction	In areas with potential for dust generation	Environment Advisor	EIS Condition B11 Dust Management Plan	Approved Dust Management Plan
AQ2	Existing ambient air quality stations will be used to monitor dust generating construction activities.	Construction	At all times	North Gate and Scouts Hall AQMSs	Environment Advisor	EIS Dust Management Plan	Monitor Pro Ambient Monitoring Data Portal
AQ3	During demolition of any contaminated areas, extra measures will be implemented to prevent dust leaving the work area.	Construction	At all times	Areas identified as contaminated	Work/Plant Owner Construction Manager	EIS Condition B12	JSEA/SWMS Audits/Site Inspections
AQ4	Dust generating activities will be ceased or reduced if a visual plume of dust leaves the site or monitoring shows excessive particulate levels.	Construction	During high wind events	In areas with potential for dust generation	All personnel Construction Manager	EIS Dust Management Plan	Incident/Self Reports
AQ5	Blasting or heavy demolition which may lead to excessive dust will only be undertaken in conditions not likely to disperse dust towards sensitive receptors.	Construction	During Construction	Furnace	Construction Manager Project Manager	EIS Dust Management Plan	JSEA/SWS/SWMS



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
AQ6	Operations conducted in areas with low moisture contact material will be suspended during high-speed wind events or water sprays will be used.	Construction	During high wind events	In areas with potential for dust generation	Work/Plant Owner Construction Manager	EIS Dust Management Plan	Incident/Self Reports
AQ7	Stockpile sizes will be kept to a minimum, where practical.	Construction	At all times	Laydown areas Slag Handling Area	All personnel Construction Manager	EIS Dust Management Plan	JSEA/SWS/SWMS Audits/Site Inspections
AQ8	Limit cleared areas of land and stockpiles, and clear only when necessary to reduce fugitive dust emissions.	Construction	At all times	Laydown areas	Construction Manager	EIS CEMP	JSEA/SWS/SWMS
AQ9	Control on-site traffic by following specific routes for haulage and access in accordance with signposted speeds.	Construction	At all times	Traffic routes	Logistics Manager	EIS Construction Traffic Management Plan	Audits/Site Inspections
AQ10	All trucks hauling material will be covered on the way to the site and should maintain a reasonable amount of vertical space between the top of the load and top of the trailer.	Construction	At all times	Traffic routes	Logistics Manager	EIS Construction Traffic Management Plan	Audits/Site Inspections
AQ12	If there is potential for local residents to experience impacts, they will be notified about the proposed commissioning timetable and provide advice on what they can expect regarding emissions including smoke.	Commissioning	Prior to commissioning	Furnace	Project Director Manager Corporate Affairs	EIS Approval Communications Plan	CCC Minutes Website notification Correspondence



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
AQ13	Where practicable, any commissioning activities that may lead to excessive emissions or visible smoke (excluding blow-in) will be timed as much as possible to occur when winds are not blowing towards residential areas.	Commissioning	Prior to commissioning	Furnace	Project Manager Commissioning Manager	EIS CEMP	JSEA/SWS/SWMS Audits/Site Inspections
<b>Noise and Vibration</b>							
NV1	<p>A construction noise and vibration management plan (CNVMP) will be developed once a detailed construction methodology has been prepared. The plan will include:</p> <ul style="list-style-type: none"> <li>– details of the construction methodology</li> <li>– updated noise predictions at sensitive receivers based on finalised construction methodology</li> <li>– a noise monitoring procedure and program for the duration of works in accordance with the construction noise and vibration management plan and any approval or licence conditions. Monitoring reports will be prepared in accordance with the requirements of the noise monitoring procedures.</li> <li>– feasible and reasonable mitigation measures to be implemented to mitigated predicted impacts to sensitive receivers that may be noise affected</li> <li>– a community consultation plan to liaise with the noise affected receivers, including: <ul style="list-style-type: none"> <li>• Notification to residences a minimum of 7 calendar days prior to the start of high noise generating works, including information such as total building time, what works are expected to be noisy, their</li> </ul> </li> </ul>	Construction	Prior to construction	Areas with potential for noise generation	Environment Advisor Construction Manager	EIS Condition C3 CEMP	Noise and Vibration Management Plan

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
	<p>duration, what is being done to minimise noise and when respite periods will occur.</p> <ul style="list-style-type: none"> <li>• A procedure for complaints, including maintaining a complaints register on site.</li> </ul>						
NV2	<p>All employees, contractors and subcontractors are to receive an environmental induction. The site induction must at least include:</p> <ul style="list-style-type: none"> <li>– All project specific and relevant standard noise and vibration mitigation measures.</li> <li>– Relevant licence and approval conditions.</li> <li>– Permissible hours of work</li> <li>– Any limitations on high noise generating activities</li> <li>– Location of nearest sensitive receivers</li> <li>– Construction employee parking areas</li> <li>– Designated loading/unloading areas and procedures – Site opening/closing times (including deliveries)</li> <li>– Environmental incident procedures.</li> </ul>	Construction	Prior to commencing work on site for the first time	All areas	Environment Advisor HSE Manager	EIS CEMP	SAP Comply Flow
NV3	Quieter and less vibration emitting construction methods will be used where feasible and reasonable.	Construction	At all times	All areas	Work Owners Construction Manager	EIS	JSEA/SWS/SWMS
NV4	The noise levels of plant and equipment will have an operating sound power lower or similar to the levels presented in Table 8.19 of the EIS	Commissioning	During commissioning	All areas	Commissioning Manager Area Commissioning Coordinators	EIS Project Standards	Noise Monitoring Reports
NV5	The size of the vibratory compactor will be limited to 18 tonnes or less to maintain the safe work buffer distances.	Construction	During construction	Laydown areas	Construction Manager Work Owner	EIS	JSEA/SWS/SWMS



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
NV6	Where practical noise generating activities with potential to impact any nearby receivers would be scheduled during standard hours.	Construction	At all times	All areas	Construction Manager	EIS Condition B33	Construction Schedule
NV7	As much distance as possible will be placed between the plant or equipment and residences and other sensitive land uses.	Construction	At all times	All areas	Work Owner	EIS	JSEA/SWS/SWMS
NV8	Equipment with directional noise characteristics will be oriented away from noise sensitive receivers where possible.	Construction	At all times	All areas	All personnel Construction Manager	EIS	JSEA/SWS/SWMS No verified noise complaints
NV9	Where additional activities or plant may only result in a marginal noise increase and speed up works, the duration of impact will be limited by concentrating noisy activities at one location and moving to another as quickly as possible.	Construction	At all times	All areas	Construction Manager	EIS	Construction Schedule
NV10	Only the necessary size and power of equipment will be used.	Construction	At all times	All areas	Work Owners Construction Manager	EIS	JSEA/SWS/SWMS
NV11	Loading and unloading of materials/deliveries will occur as far as practically possible from sensitive receivers.	Construction	At all times	All areas	Logistics Manager	EIS Construction Traffic Management Plan	JSEA/SWS/SWMS
NV12	The use of engine compression brakes will be limited in proximity to residences.	Construction	At all times	All areas	Logistics Manager	EIS Construction Traffic Management Plan	JSEA/SWS/SWMS

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
NV13	Equipment will not be operated until it is maintained or repaired, where maintenance or repair would address the annoying character of noise identified	Construction	At all times	All areas	All personnel	EIS	Pre work inspections
NV14	Construction traffic travelling along Emily Road: need to ensure that traffic remains below the speed limit of 40 km/hr.	Construction	At all times	Emily Road	Logistics Manager	EIS Construction Traffic Management Plan	Traffic Management Plan
NV15	<p>All rock-breaking and pile driving activities to be confined between the hours: daytime hours of 7:00 am to 6:00 pm from Monday to Friday and 8:00 am to 1:00 pm on Saturday, with the exception of the following activities:</p> <ul style="list-style-type: none"> <li>– The delivery of oversized plant or structures</li> <li>– Emergency work to avoid the loss of life or damage to property, or to prevent environmental harm</li> </ul> <p>Removal of the salamander and staves from inside the furnace will likely be carried out 24 hours a day to minimise the hire time and maximise the utilisation of the specialised wreck out equipment sourced from overseas.</p>	Construction	During Piling	In all areas requiring piles	Work owners Construction Manager	EIS EPL 6092	Construction Schedule
NV16	Out of hours movements will be minimised where possible. The need for out of hours work will be justified in the CEMP from the project and assessed against the noise requirements of the ICNG.	Construction	At all times	All areas	Project Manager Construction Manager	EIS Construction Traffic Management Plan	CEMP



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
NV17	Approval in writing from the EPA will be sought for construction activities outside of the standard hours of construction per EPL 6092 requirements.	Construction and Commissioning	At all times	All areas	Project Manager Environment Advisor	EIS EPL 6092	EPA Correspondence
NV19	<del>Temporary site buildings and materials stockpiles will be used as noise barriers.</del>	-	-	-	-	-	Noise modelling did not identify issues requiring temporary noise barriers. A significant amount of work is being carried out above the height of temporary site buildings.
NV20	The Proponent must monitor the first two blasting events to determine compliance with conditions B37 and B38, and provide a report to the EPA. Where monitoring has determined that blast impacts are not discernible outside of the site, blasting may be conducted outside the hours listed in Table 1, as agreed with the EPA.	Construction	During Blasting	Furnace	Construction Manager Environment Advisor	Condition B39 Noise and Vibration Management Plan	Noise Monitoring Results EPA Correspondence

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
NV21	The project must be constructed to achieve the construction noise management levels detailed in the Interim Construction Noise Guideline (DECC, 2009) (as may be updated or replaced from time to time). All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and managed in accordance with the Construction Environmental Management Plan required by Condition C2.	Construction	At all times	All areas	All personnel Construction Manager	Condition B35 Noise and Vibration Management Plan	Noise Monitoring Results No verified noise complaints
NV22	Construction works outside of the hours identified in condition Table 1 may be undertaken in the following circumstances: (a) works that are inaudible at the nearest sensitive receivers; (b) works agreed to in writing by the Planning Secretary; (c) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or (d) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.	Construction	At all times	All areas	All personnel	Condition B34	No verified noise complaints



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
<b>Hazard and Risk</b>							
HR1	Explosives will be stored in a non-ferrous receptacle clearly marked 'Explosives' that is kept closed and locked (except during use by authorised personnel) and stored in the original containers which are securely sealed. The storage area will be a well-ventilated magazine licenced for Class 1.1 explosives, which protects the explosives from the weather, contamination, sources of ignition and access from unauthorised individuals. Storage will be isolated from other dangerous good stores and the area free of debris, waste and combustibles. The explosives containers will be protected against physical damage and regularly checked for spills and leaks.	Construction	If and when explosives are required to be stored on site	To be determined	Explosives Specialist	EIS	JSEA/SWMS
HR2	Explosive storage magazines will comply with the requirements of AS 2187.1 Explosives – Storage, transport and use – Storage.	Construction	If and when explosives are required to be stored on site	To be determined	Explosives Specialist	EIS	JSEA/SWMS
HR3	Where more than 2.5 kg of Class 1.1 explosives are stored onsite, every perimeter entrance to the site must be labelled with a 'Hazchem' placard in accordance with the Explosives Regulation 2013. Adequate security will be provided for the explosives storage area, and only those who are authorised for unsupervised access to the area will have means to unlock the explosive storage magazine.	Construction	If and when explosives are required to be stored on site	To be determined	Explosives Specialist	EIS	JSEA/SWMS
HR4	There will be no smoking, naked light, heat or ignition source present at the explosives storage area.	Construction	If and when explosives are required to be stored on site	To be determined	Explosives Specialist	EIS	JSEA/SWMS

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
HR5	The explosives stock will be rotated to prevent ageing (use on first in-first out basis).	Construction	If and when explosives are required to be stored on site	To be determined	Explosives Specialist	EIS	JSEA/SWMS
HR6	Explosives will be stored at least 90 metres from the site boundary	Construction	If and when explosives are required to be stored on site	To be determined	Explosives Specialist	EIS	JSEA/SWMS
HR9	All chemicals and DGs will have appropriate labelling, be separated where necessary, contained within a bund and be disposed of in accordance with Australian Standards.	All times	All times	All locations	HSE Manager	EIS	Audits/Inspections
HR10	A copy of the Safety Data Sheet (SDS) for all chemicals present on site will be made readily accessible to emergency services.	All times	All times	All locations	Project Manager	EIS	Chem Alert
HR11	Appropriate safe work procedures will be implemented for safe handling of all chemicals and dangerous goods, including transfer, storage, spill prevention and clean up requirements.	All times	All times	All locations	Project Manager	EIS	Audits/Inspections

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
HR12	<p>The sites ERP will be updated to incorporate the use and storage of Class 1.1 explosives when the quantity required and appropriate storage location have been identified, prior to their use on site</p> <p>Two copies of the ERP will be stored in a prominent 'Emergency Information Cabinet' located in a position directly adjacent to the site's main entry point/s.</p> <p>An Emergency Services Information Package will be prepared in accordance with the FRNSW guideline for storage alongside the ERP in an Emergency Information Cabinet.</p>	Construction	If and when explosives are required to be stored on site	To be determined	MTEC Manager	EIS	6BFR Emergency Response Plan
<b>Water and Hydrology</b>							
WQ1	<p>To manage impacts to water quality during the construction phase, it is recommended that the CEMP include a site specific SWMP outlining site management requirements, specific controls, environmental inspection requirements, roles and responsibilities, health and safety, incident management and emergency response including arrangements for managing wet weather events. The SWMP will include an Erosion and Sediment Control Plan (ESCP) which will be prepared in accordance with the <i>Blue Book -Managing Urban Stormwater: Soils and Construction</i> (4th edition, Landcom, 2004).</p>	Construction	Prior to construction	All Areas	Environment Advisor Construction Manager	EIS CEMP	Soil and Water Management Plan

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
WQ2	A commissioning Water Quality Management Plan (WQMP) will be developed following investigations during detailed design to assess the likely composition of initial flushing water, the potential for foaming, the characteristics of the start-up blowdown water and commissioning of the granulator. Where required monitoring programs and corrective measures will be developed to ensure that discharges to groundwater, No.2 Blower Station (2BS) Drain and Allans Creek are in accordance with EPL 6092. The commissioning WQMP may be a standalone document or may form part of the SWMP.	Commissioning	Prior to commissioning	All Areas	Environment Advisor Commissioning Manager	EIS CEMP	Soil and Water Management Plan
WQ3	<p>Prior to the commencement of operation, the Proponent must prepare a Stormwater Management Plan (SMP) for the project. The SMP must:</p> <p>(a) be prepared by a suitably qualified and experienced person(s);</p> <p>(b) describe the stormwater management system including:</p> <p>(i) compliance with applicable Australian Standards;</p> <p>(ii) details of the system capacity that has been designed in accordance with Australian Rainfall and Runoff (Engineers Australia, 2016) and Managing Urban Stormwater: Council Handbook (EPA, 1997) guidelines;</p> <p>(iii) details of the design to contain the first 10 millimetres of a rainfall event at the 6BF process area (a first flush system);</p>	Construction	Prior to commissioning	All areas	Environment Advisor	Condition B2 EIS	Stormwater Management Plan

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
	<p>(c) detail water use, disposal and management on-site, including any licence requirements;</p> <p>(d) detail monitoring requirements; and</p> <p>(e) include a protocol for the investigation and mitigation of identified exceedances of relevant criteria.</p>						
WQ4	<p>Spill management will involve:</p> <ul style="list-style-type: none"> <li>– EPA compliant bunding of all hazardous chemicals</li> <li>– Spill kits readily available</li> <li>– High risk process areas sealed</li> <li>– All runoff, including spills, from the gas cleaning and effluent treatment plants will be collected and returned to the water treatment plant during normal operation</li> <li>– Spill containment and additional paving between effluent treatment system and road on the east side of the plant</li> <li>– No-blow seal pots installed on blast furnace gas mains reducing the chance of make-up water being left on for extended periods of time</li> <li>– Level detection and alarming on gas condensate collection tanks</li> <li>– Seal pot tanks will have bunds installed and level detection with alarming on collection tanks to avoid over fill events</li> </ul> <p>Above ground effluent treatment system clarifier with bunding underneath to capture any overflows.</p>	Construction and Commissioning	At all times	Process areas and areas where chemicals are stored	All personnel	EIS Spill Response Guidelines Emergency Response Plan	Design Reports Audits/Inspections



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
WQ5	The Proponent must install the stormwater management system detailed in Condition B2 before commencing operation.	Construction	Prior to commissioning	All areas	Project Manager Construction Manager	Condition B3	JSEA/SWS/SWMS Audits/Inspections
WQ6	<p>Prior to the commencement of construction of the 6BF wastewater treatment system, the Proponent must design the wastewater treatment system/s to manage discharges directly from 6BF, in consultation with the EPA and to the satisfaction of the Planning Secretary. The wastewater treatment system design must:</p> <p>(a) incorporate the outcomes of Pollution Reduction Program 182 (PRP 182) and other current environmental improvement projects relevant at 5BF, prescribed by EPL 6092;</p> <p>(b) target achieving the NSW Water Quality Objectives and/or best available management practices for discharges directly from 6BF;</p> <p>(c) be consistent with the wastewater treatment options in Table 5.9 of the RTS;</p> <p>(d) include a cyanide monitoring and treatment system;</p> <p>(e) exclude wastewater dilution as a mitigation measure;</p> <p>(f) include discharge guarantees and/or calculations that detail the performance of the system, including details of the discharge reductions and performance criteria that would be achieved;</p> <p>(g) compare the system performance with the current performance of 5BF and the previous operation of 6BF.</p>	Construction	Prior to construction of the wastewater treatment system	Gas Cleaning	Area 2 Manager Project Manager Environment Advisor	Condition B5	Design Report EPA and DPE Meeting minutes



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
<b>Traffic</b>							
T1	<p>Prior to the commencement of construction, the Proponent must prepare a Construction Traffic Management Plan for the project. The plan must form part of the CEMP required by condition C2 and must:</p> <p>(a) be prepared by a suitably qualified and experienced person(s);</p> <p>(b) detail the measures that are to be implemented to ensure road safety and network efficiency during construction;</p> <p>(c) detail heavy vehicle routes, access and parking arrangements;</p> <p>(d) include a Driver Code of Conduct to minimise the impacts of construction traffic, ensure drivers adhere to designated routes and on site speed limits and minimise road traffic noise;</p> <p>(e) include a program to monitor the effectiveness of these measures; and</p> <p>(f) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.</p>	Construction	Pre-construction	All areas	HSE Manager	Condition B41	Construction Traffic Management Plan
T2	<p>A Construction Traffic Management Plan (CTMP) will need to be prepared prior to the commencement of works. The CTMP will provided measures to:</p> <p>– Minimise the impact of the construction vehicle traffic on the overall operation of the road network.</p>	Construction	Pre-construction	All areas	HSE Manager	EIS	Construction Traffic Management Plan



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
	<ul style="list-style-type: none"> <li>– Provide continuous, safe, and efficient movement of traffic for both the general public and construction workers.</li> <li>– Details regarding installation of appropriate advance warning signs to inform users of the changed traffic condition.</li> <li>– A description of the construction vehicles and the volume of these construction vehicles accessing the construction site.</li> <li>– Include information regarding the changed access arrangement and a description of the proposed external routes for vehicles, including the construction vehicles, accessing the site.</li> <li>– Establishment of a safe pedestrian environment in the vicinity of the site.</li> <li>– All staff and subcontractors engaged on site should be required to undergo site induction. The induction will outline the requirements on the CTMP, including site access routes, environmental and occupational health and safety responsibilities, emergency procedures, potential carpooling opportunities and vehicle height restriction under the power lines, among others.</li> </ul> <p>Additionally, the Site Manager will discuss CTMP requirements regularly as a part of “toolbox talks”.</p>						



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
T3	Key stakeholders, including owners/operators of adjacent lands and emergency service providers, will be notified of any changes to the traffic management arrangements prior to the commencement of works.	Construction	As required	Stakeholder areas	Project Manager Construction Manager	EIS	Consultation Plan
T4	The construction site access will be reviewed during design development to consider the turn path required for the construction vehicles.	Construction	Prior to construction	All areas	HSE Manager Logistics Manager	EIS	Construction Traffic Management Plan
T5	Construction works should occur within the standard hours defined by the Interim Construction Noise Guideline (DECC, 2009) where practical. As discussed in section 5.12, some works may occur outside of these hours.	Construction	At all times	All areas	Project Manager Construction Manager	EIS	Construction Schedule
T6	Truck drivers will be directed to follow the predetermined haulage routes	Construction	As required	All areas	HSE Manager Logistics Manager	EIS Construction Traffic Management Plan	Audits/Inspections
T7	Workers required to undertake works or traffic control will be suitably trained and hold the required accreditation to carry out works on site and will also be site inducted	Construction	As required	All areas	HSE Manager Logistics Manager Project Manager	EIS	SAP Comply Flow
T8	Protection will be provided to workers and road users through advanced warning of roadworks, speed changes, safety barriers with adequate offsets and deflection allowance, where necessary	Construction	As required	All areas	HSE Manager Logistics Manager Project Manager	EIS	Internal Correspondence

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
T9	Site access should be restricted to authorised personnel only and existing employees on site. Pedestrian access to and around the site will be maintained at all times.	Construction	All times	All areas	All personnel	EIS	Project fencing with labelling
T10	Roadwork speed zones will be used with traffic control signs and devices and should not be used in place of more effective traffic controls. They will be used only while road works are in progress or the lower speed road conditions exist.	Construction	All times	All areas	Logistics Manager	EIS	Audits/Inspections
T11	A Transport Access Guide (TAG) should be prepared to identify alternate travel options for visitors and staff to encourage sustainable transport and reduce parking demand. The TAG summarises alternate transport options to access the development, outlining where and how these services can be accessed and the frequency of the service. This could include but is not limited to: <ul style="list-style-type: none"> <li>– Public transport locations (bus and train connection).</li> <li>– Active transport (cycle / walking) opportunities.</li> <li>– Bicycle infrastructure facilities.</li> <li>– Carpooling between workers (subject to COVID-19 safe practices).</li> </ul>	Construction	All times	All areas	HSE Manager Logistics Manager Project Manager	EIS	Internal Correspondence



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
T12	<p>The following environmental requirements should be adhered to:</p> <ul style="list-style-type: none"> <li>– All vehicles transporting loose materials will have the entire load covered and/or secured to prevent any large items, excess dust or debris depositing onto the roadway during travel to and from the site, including but not limited to construction rumble strips/wheels wash at the site egress location.</li> <li>– The lead contractors will monitor the roads leading to and from the site and take all necessary steps to rectify any road deposits caused by site vehicles, to maintain the safety of all road users.</li> <li>– Vehicles operating to, from and within the site shall do so in a manner, which does not create unreasonable or unnecessary noise or vibration.</li> <li>– Public roads and access points will not be obstructed by any materials, vehicles, refuse skips or the like, under any circumstances.</li> </ul>	Construction	All times	All areas	All personnel	EIS Construction Traffic Management Plan	Audits/Inspections
T13	The Proponent must obtain permits under the Heavy Vehicle National Law (NSW) for each OSOM load on the public road network.	Construction	As required	All areas	Logistics Manager	Condition B44	Permit

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
T14	<p>The Proponent must ensure:</p> <p>(a) the swept path of the longest vehicle entering and exiting the site, as well as manoeuvrability through the site, is in accordance with the relevant AUSTRROADS guidelines;</p> <p>(b) the project does not result in any vehicles queuing on the public road network;</p> <p>(c) heavy vehicles and bins associated with the project are not parked on local roads or footpaths in the vicinity of the site;</p> <p>(d) all vehicles are wholly contained on site before being required to stop;</p> <p>(e) all loading and unloading of materials is carried out on-site;</p> <p>(f) all trucks entering or leaving the site with loads have their loads covered and do not track dirt onto the public road network; and</p> <p>(g) the proposed turning areas in the car park are kept clear of any obstacles, including parked cars, at all times.</p>	Construction	As required	All areas	HSE Manager Logistics Manager	Condition B45	Construction Traffic Management Plan
T15	The Proponent must provide parking facilities on-site, including for heavy vehicles and for site personnel, to ensure that traffic associated with the project does not utilise public and residential streets for parking or public parking facilities.	Construction	All times	All areas	Project Manager Logistics Manager	Condition B43 Construction Traffic Management Plan	Audits/Inspections

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
<b>Soils, Geology, Groundwater and Contamination</b>							
S1	Prior to construction commencing, a site specific Soil and Water Management Plan (SWMP) will be prepared. The plan will include arrangements for managing wet weather events, specific controls and environmental inspection requirements. The SWMP will include an Erosion and Sediment Control Plan (ESCP) which will be prepared in accordance with the Blue Book -Managing Urban Stormwater: Soils and Construction (4th edition , Landcom, 2004) and Volume 2 (DECC, 2008a).	Construction	Pre-construction	All areas	Environment Advisor	EIS	Soil and Water Management Plan Sediment Control Plan
S2	The ESCP will detail the erosion controls used for the project and where they will be established. The ESCP will include soil specific measures to: <ul style="list-style-type: none"> <li>– Prevent sediment moving off-site and sediment laden water entering any watercourse, drainage lines, or drain inlets</li> <li>– Prevent mixing of soils</li> <li>– Ensure soils are replaced in their pre-existing configuration during rehabilitation where possible</li> <li>– Reduce water velocity overland and capture sediment on site</li> <li>– Minimise the amount of material transported from site to surrounding pavement surfaces</li> <li>– Divert clean water around the site</li> <li>– Install measures and site entry and exit points to minimise movement of material onto public roads</li> </ul>	Construction	Pre-construction	All areas	Environment Advisor	EIS	Erosions and Sediment Control Plan

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
S3	Erosion and sediment controls will be established prior to works commencing on site.	Construction	Prior to construction	All areas	Construction Manager Work Crews	EIS	Audits/Site inspections
S4	Erosion and sediment controls will be inspected on a regular basis and replaced when their function is compromised.	Construction	Quarterly?	All areas	Construction Manager Work Crews	EIS	Audits/Site inspections
S5	Erosion and sediment controls will be inspected promptly after rainfall events.	Construction	After rainfall	All areas	Construction Manager Work Crews	EIS	Audits/Site inspections
S6	If excavations are required during demolition works, soil generated will be reused where applicable. Excess spoil not required or able to be reused onsite will be disposed of appropriately as per the EPA's Waste Classification Guidelines (2014).	Construction	At all times	All areas	Construction Manager Work Owner	EIS Management of Excavated Soil at PKSW Waste Management Procedure	Laboratory results Waste Transport Certificates
S7	Vehicles will be restricted to existing access routes where practical.	Construction	At all times	All areas	HSE Manager Logistics Manager	EIS	Construction Traffic Management Plan
S8	Disturbed areas will be returned to pre-existing condition following the completion of construction.	Construction	At all times	All areas	Construction Manager Project Manager	EIS	Photographs
C1	An incident emergency spill plan will be detailed in the CEMP	Construction	Pre-construction	All areas	Environment Advisor	EIS	CEMP
C2	Spill response kits will be provided on site and be located in a clearly defined location.	Construction and commissioning	At all times	All areas	Project Manager HSE Manager	EIS Emergency Response Plan	Audits/Inspections
C3	Plant and machinery will be inspected regularly to ensure that they are in sound working order	Construction and commissioning	At all times	All areas	All personnel	EIS	Pre-start checks

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
C4	If soils that appear to be contaminated are exposed during construction of the project, works will cease in the area until further investigation can be undertaken. The following factors are indications of potential contamination on site: – Stained or discoloured fill – Hydrocarbon or chemical odour – Construction wastes such as concrete, bricks, timber, tiles, fibre cement sheeting, fragments and pipes – Imported material such as ash, slag or coal chitter containing material. – Contaminated soils requiring disposal will be classified under the Waste Classification Guidelines (EPA,2014) prior to disposal.	Construction	At all times	All areas	All personnel	EIS Unexpected Finds Procedure	Incident/Self Reports Laboratory Analysis
C5	All chemical/fuel storage and loading areas will be bunded or otherwise contained.	Construction and commissioning	At all times	All areas	All personnel	EIS	Audits/Inspections
C6	All plant personnel that may encounter chemicals/fuels will be trained in required handling procedures.	Construction and commissioning	At all times	All areas	Project Manager HSE Manager	EIS Training Needs Analysis	SAP Comply Flow
C7	Prior to the commencement of construction, the Proponent must prepare an unexpected contamination procedure to ensure that potentially contaminated material is appropriately managed. The procedure must form part of the CEMP in accordance with condition C2 and must ensure any material identified as contaminated is classified under the EPA's Waste Classification Guidelines and if required, disposed off-site, with the disposal location and results of testing submitted to the Planning Secretary, prior to its removal from the site.	Construction	Pre-construction	All areas	Environment Advisor	Condition B47	Unexpected Finds Procedure



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
C8	The Proponent must ensure that any construction activities in identified areas of acid sulfate soil risk are undertaken in accordance with the Acid Sulfate Soil Manual (Acid Sulfate Soil Management Advisory Committee, 1998).	Construction	At all times	All areas	All personnel	Condition B48 Unexpected Finds Procedure	JSEA/SWS/SWMS
C9	The Proponent must: (a) ensure that only VENM, ENM, or other material approved in writing by EPA is brought onto the site; (b) keep accurate records of the volume and type of fill used in relation to the project; and (c) make these records available to the Planning Secretary upon request.	Construction	At all times	All areas	Area Managers Construction Manager	Condition B46	Supplier Documents



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
<b>Biodiversity</b>							
B1	<p>The following measures will be implemented to manage general biodiversity impacts:</p> <ul style="list-style-type: none"> <li>– Measures proposed in the SWMP will be implemented to ensure appropriate sediment control measures are put in place to ensure run-off during construction does not result in indirect impacts to surrounding habitats</li> <li>– Construction machinery will be cleaned prior to entering and leaving site to ensure weed propagules are not transported</li> <li>– <b>Unless approved</b>, no native flora will be cleared during the establishment of laydown areas</li> <li>– Laydown areas will be placed on existing hardstand, and where possible, as far away from drainage lines and places where surface water can pool.</li> <li>– These measures will be implemented in the CEMP and may be revised at any time to manage potential environmental impacts.</li> </ul>	Construction and commissioning	At all times	All areas	Project Manager Construction Manager	EIS Soil and Water Management Plan	Audits/Inspections
B2	All measures outlined in Management of Threatened Species, The Green and Golden Bell Frog, Litoria Aurea (BlueScope, 2020) will be implemented during construction of the project.	Construction and Commissioning	At all times	All areas	Project Manager HSE Manager Environment Advisor	Condition B55 EIS Training Needs Analysis	SAP Comply Flow



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
B3	All workers will be trained in the procedures outlined in Management of Threatened Species, The Green and Golden Bell Frog, Litoria Aurea (BlueScope, 2020) and their responsibilities under the BC Act and EPBC Act in the project induction.  This will also be discussed periodically during the toolbox talks.	Construction and Commissioning	At all times	All areas	Project Manager HSE Manager Environment Advisor	EIS Training Needs Analysis	SAP Comply Flow
B4	If a GGBF is found in the project site or laydown area, work in the vicinity will cease immediately. Work will not recommence until clearance from a qualified ecologist can be provided. Following confirmation of the sighting of GGBF either by a local ecologist or by means of identification using the GGBF Audit / Inspection Checklist, the sighting must be registered with the EPA and NSW BioNet Species sightings via the web or telephone.	Construction and Commissioning	At all times	All areas	All personnel	EIS	Incident reports EPA Correspondence
B5	If other endangered species are discovered on the project site or in laydown areas, work will cease in the vicinity and a qualified ecologist will be employed to assess the discovery. Additional mitigation measures presented by the ecologist will be incorporated into the CEMP. Work in the area will not commence unless clearance is given by the ecologist.	Construction and Commissioning	At all times	All areas	All personnel	EIS	Incident reports EPA Correspondence

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
<b>Aboriginal Heritage</b>							
A1	In the event of an unexpected find of potential Aboriginal object/s (or suspected item), work will cease in the area and DPE notified. Works will not recommence until continuation is authorised by DPE.	Construction	At all times	All areas	All personnel	EIS Unexpected Finds Procedure	DPE Correspondence
A2	If any item or object of Aboriginal heritage significance is identified on site: (a) all work in the immediate vicinity of the suspected Aboriginal item or object must cease immediately; (b) a 10m wide buffer area around the suspected item or object must be cordoned off; and (c) the OEH must be contacted immediately.	Construction	At all times	All areas	All personnel	Condition B52 Unexpected Finds Procedure	Heritage NSW Correspondence
A3	Work in the immediate vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the National Parks and Wildlife Act 1974.	Construction	At all times	All areas	All personnel	Condition B53 Unexpected Finds Procedure	Heritage NSW Correspondence
<b>Heritage</b>							
H1	In the unlikely event that unexpected historical (non-Aboriginal) archaeological remains are discovered during works they will be managed with reference to the standard protocols and procedures of Section 146 of the Heritage Act 1977.	Construction	At all times	All areas	All personnel	EIS Unexpected Finds Procedure	Heritage NSW Correspondence
H2	If any archaeological relics are uncovered during the course of the work, then all works must cease immediately in that area. Unexpected finds must be evaluated and recorded in accordance with the requirements of Heritage NSW.	Construction	At all times	All areas	All personnel	Condition B54 Unexpected Finds Procedure	Heritage NSW Correspondence



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
<b>Visual Amenity</b>							
VA1	Temporary boarding, barriers, traffic management and signage will be removed when no longer required.	Construction	At all times	All areas	Construction Manager Project Manager	EIS	Audits/Inspections
VA2	Roads providing access to the site and work areas will be maintained free of dust and mud as far as reasonably practicable	Construction	At all times	All roadways	All personnel	EIS Construction Traffic Management Plan	Audits/Inspections Street Sweeper/Water Cart schedule
VA3	Materials and machinery will be stored neatly during construction works	Construction	At all times	All areas	All personnel	EIS Construction Traffic Management Plan	Audits/Inspections
VA4	Temporary lighting required during the construction period will be sited and designed to avoid light spill into the surrounding area.	Construction and Commissioning	At all times	All areas	Construction Manager Work Owner	EIS	Audits/Inspections
VA5	Existing site features will be utilised as screening when positioning plant where practical.	Construction and Commissioning	At all times	All areas	Construction Manager	EIS	Design Reviews
VA6	The Proponent must ensure the lighting associated with the project: (a) complies with the latest version of AS 4282-1997 - Control of the obtrusive effects of outdoor lighting (Standards Australia, 1997); and (b) is mounted, screened and directed in such a manner that it does not create a nuisance to surrounding properties or the public road network.	Construction and Commissioning	At all times	All areas	Principal Electrical Engineer	Condition B56	Audits/Inspections

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
<b>Land Use and Property</b>							
LU1	Management and mitigation strategies presented in the following sections will be implemented during construction of the project: – Air quality (Section 8.1.5 of the EIS) – Noise and vibration (Section 8.2.6 of the EIS) – Traffic (Section 8.5.5 of the EIS) – Visual amenity (Section 9.5.3 of the EIS) – Waste management (Section 9.9.3 of the EIS)	Construction	At all times	All areas	Project Manager HSE Manager Environment Advisor	EIS	CEMP
LU2	BlueScope will coordinate project activities to minimise the impact to land use and services within the PKSW site	Construction and Commissioning	At all times	All areas	Project Manager Logistics Manager	EIS Logistics Management Plan Project Execution Plan	Audits/inspections
<b>Social and Economic</b>							
SE1	A contracting and procurement strategy focusing on maximising local content will be prepared to support local employment and business opportunities during construction. During operation, the project should seek to work with interested local parties to fulfil workforce requirements.	Construction and Commissioning	As required	All areas	Project Director Procurement Officer	EIS Australian Industry Participation Plan (AIPP)	Australian Industry Participation Plan reports
SE2	BlueScope will continue to invest into the local community through the continuation of the BlueScopeWIN Community Partners Program.	Construction and Commissioning	At all times	All areas	Manager Corporate Affairs	EIS Communications Plan	Communications Plan



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
SE3	The project will include a comprehensive, multi-stakeholder engagement program to inform decisions regarding the project.	Construction and Commissioning	At all times	All areas	Manager Corporate Affairs	EIS Communications Plan	Communications Plan
SE4	A Community Consultative Committee (CCC) will continue to be operated by BlueScope for the PKSW	Construction and Commissioning	Quarterly meetings	Visitors Centre	Manager Corporate Affairs	EIS	CCC Meeting Minutes
SE5	BlueScope will provide a contact number and email address for the community to make comments on throughout the project	Construction and Commissioning	At all times	All areas	Project Director	EIS Communications Plan	BlueScope Website
SE6	Ensure that measures discussed in other sections that reduce environmental impacts are implemented effectively for the duration of the project.	Construction and Commissioning	At all times	All areas	Project Manager	EIS	Audits/Inspections
<b>Greenhouse Gas and Energy</b>							
GHG1	All plant and equipment used during the construction works shall be regularly maintained to comply with the relevant exhaust emission guidelines	Construction and Commissioning	At all times	All areas	All personnel Construction Manager	EIS Equipment supplier pre-start checklists	Pre-start checklists
GHG2	Sustainable procurement practices will be adopted where feasible	Construction and Commissioning	As required	All areas	Procurement Officers	EIS Purchase Order/Contract Terms & Conditions	Audits



ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
GHG3	<p>Where reasonable and feasible, measures to be implemented by contractors may include, but not be limited to:</p> <ul style="list-style-type: none"> <li>– Construction materials sourced locally where possible</li> <li>– Construction materials that have minimal embodied energy be selected</li> <li>– Use of PVC plastic minimised</li> <li>– Construction materials that are low maintenance and durable</li> <li>– Plant and equipment will be switched off when not in constant use and not left idling</li> <li>– Plant and equipment brought onsite will be regularly serviced and energy efficient vehicles or equipment will be selected where available</li> <li>– Any plant and equipment that is not working efficiently (i.e. emitting excessive smoke) will be removed from site and replaced as soon as possible</li> <li>- Construction works will be planned to ensure minimal movement of plant and equipment.</li> </ul>	Construction and Commissioning	As required	All areas	Procurement Officer Construction Manager	EIS	Audits/inspections
GHG4	<p>Subject to confirmation of engineering suitability, the following elements will be incorporated into the operation of the project:</p> <ul style="list-style-type: none"> <li>– <del>Dual lance tuyeres.</del></li> <li>– Waste gas heat recovery unit installed on 6BF stoves</li> <li>– Top Recovery turbine installed to extract energy from gases vented from the top of the blast furnace.</li> </ul>	Pre-construction	Operation	Furnace Stoves Gas system	Project Manager Engineering Manager	EIS Engineering Design Reports	Photographs

ID	Environmental Management Measure	Phase	Timing/ Frequency	Location	Responsibility	Source/ Reference	Evidence
<b>GHG5</b>	<b>The plant will be designed to accommodate dual injection lances at the tuyeres such that a second lance can be added if the use of alternative fuels is approved for injection into the blast furnace.</b>	Pre-construction	Following approval for the injection of alternative fuels	Furnace	Project Manager Engineering Manager	EIS	Engineering Design Reports
<b>Waste</b>							
W1	<del>A waste management plan for the project will be prepared prior to construction commencing.</del> BlueScope's Waste Management Procedure will be applied to the project. The waste management procedure details: – Statutory requirements for waste in NSW – Systems to sort and track the actual types and quantities of waste generated – Measures for separating waste based on classification of management options including colour coded bins – Options for offsite reuse, reprocessing, recycling and energy recovery	Construction and commissioning	Pre-construction	All areas	Environment Advisor HSE Manager	EIS	BlueScope's Waste Management Procedure
W2	Awareness of waste minimisation practices will be included in the project induction.	Construction and commissioning	Prior to personnel commencing work on site	All areas	Environment Advisor HSE Manager	EIS Environmental Induction	SAP Comply Flow
W3	Waste will be classified, managed, and disposed of in accordance with the Waste Classification Guidelines (EPA, 2014).	Construction and commissioning	At all times	All areas	All personnel Construction Manager	Condition B49 Condition B50 EIS Waste Management Procedure	Laboratory Reports Waste transport certificates

## Appendix 4. EMP Preparation Checklist

Requirement	Plan Reference	Yes / No / Not Applicable
<b>Preparation and endorsement</b>		
Has the EMP been prepared in consultation with all relevant stakeholders as per the requirements of the conditions of consent? (Section 4.1)	-	N/A
Have the views of the relevant stakeholders been taken into consideration? Have appropriate amendments been made to the EMP and does the EMP clearly identify the location of any changes? (Section 4.1)	-	N/A
Has the EMP been internally approved by an authorised representative of the proponent or contractor? (Section 4.2)	Title Page	Yes
<b>Version and content</b>		
Does the EMP describe the proponent's Environmental Management System (EMS) (if any), and identify how the EMP relates to other documents required by the conditions of consent? (Section 3.5.1)	Section 4.1 Section 4.2	Yes
Does the EMP include the required general content and version control information? (Section 3.1)	Title Page Header & Footer	Yes
Does the EMP have an introduction that describes the project, scope of works, site location and any staging or timing considerations? (Section 3.2)	Section 2	Yes
Does the EMP reference the project description? (Section 3.3)	Section 2.1	Yes
Does the EMP reference a Community and Stakeholder Engagement Plan (or similar) or include community and stakeholder engagement actions (if required)? (Section 3.4)	Section 3	Yes
Have all other relevant approvals been identified? Has appropriate information been provided regarding how each approval is relevant? (Section 4)	Section 4.4	Yes
Has the environmental management structure and responsibilities been included? (Section 3.5.2)	Section 4.3	Yes
Does the EMP include processes for training of project personnel and identify how training and awareness needs will be identified? (Section 3.5.3)	Section 1.1	Yes
Does the EMP clearly identify the relevant legal and compliance requirements that relate to the EMP? (Section 3.5.3)	Section 4.4	Yes
Does the EMP include all the conditions of consent to be addressed by the EMP and identify where in the EMP each requirement has been addressed? (Section 3.5.13)	Appendix 1	Yes
Have all relevant guidelines, policies and standards been identified, including details of how they are relevant? (Section 3.5)	Section 4.4	Yes
Is the process that will be adopted to identify and analyse the environmental risks included? (Section 3.5.5)	Section 5.1	Yes
Have all the environmental management measures in the EIA been directly reproduced into the EMP? (Section 3.5.7)	Appendix 3	Yes
Have any additional environmental management measures been included in the EMP? (Section 3.5.7)	-	N/A

Requirement	Plan Reference	Yes / No / Not Applicable
Have environmental management measures been written in committed language? (Section 3.5.7)	Section 4.2	Yes
Have project environmental management measures, including hold points, been identified and included? (Section 3.5.6)	Section 5.2 Appendix 3 Section 2.4	Yes
Are relevant details of environmental monitoring that will be carried out included? (Section 3.5.8)	Section 6.1	Yes
Have the components of any environmental monitoring programs been incorporated? (Section 3.5.8)	-	N/A
Are environmental inspections included? (Section 3.5.9)	Section 6.2	Yes
Does the EMP document all relevant compliance monitoring and reporting requirements for the project? (Section 3.5.12 and 3.5.13)	Section 6.3	Yes
Does the EMP describe the types of plans or maps (such as environmental control maps) that will be used to assist with the management of environmental matters on site? (Section 3.5.10)	-	No
Does the EMP list environmental management documents? (Section 3.5.11)	Section 4.2	Yes
Is an auditing program referenced? (Section 3.5.13)	Section 6.3	Yes
Does the EMP include the incident notification and reporting protocols that comply with the relevant conditions of consent? (Section 3.5.15)	Section 6.6	Yes
Does the EMP identify the project role/position that is responsible for deciding whether an occurrence is an incident? (Section 3.5.15)	Section 6.6	Yes
Does the EMP describe a corrective and preventative action process that addresses the requirements? (Section 3.5.16)	Section 6.4	Yes
Does the EMP include details of a review and revision process that complies with the requirements? (Section 3.6)	Section 6.7	Yes