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Superintendent - Environment and Community



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1 | COMMITMENT AND POLICY

1.1 | BACKGROUND

Hunter Valley Operations (HVO) is an established large-scale open cut operation situated 24 kilometres (km) north-west of Singleton in New South Wales (NSW). The mine is geographically divided by the Hunter River into HVO North, and HVO South. Refer to Figure 1-2: Location of Hunter Valley Operations.

HVO is a jointly controlled operation through a Joint Venture between Glencore (49%) and Yancoal (51%).

This Environmental Management Strategy (EMS) provides an overview of environmental management at HVO (both North and South).

1.2 | PURPOSE

This EMS outlines how HVO manages environment and community aspects, impacts and performance.

It provides a framework for the standards, plans and procedures implemented so operations are aligned with Glencore Coal Assets Australia (GCAA) Environment and Community protocols and all relevant approvals and licences held by HVO.

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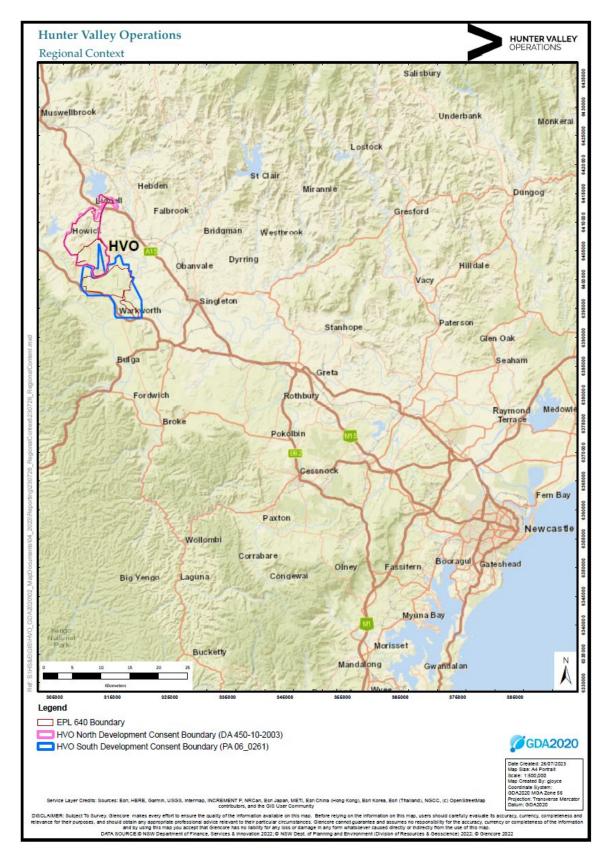


Figure 1-1: Locality Plan

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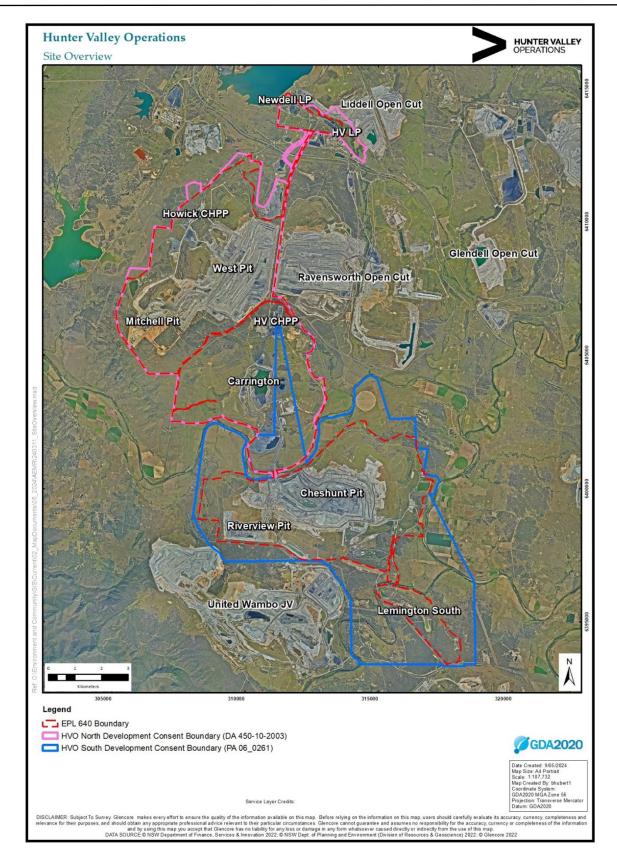


Figure 1-2: Location of Hunter Valley Operations

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1.3 | OBJECTIVES

The objectives of this Strategy are to:

- Provide the overall framework for environmental management (refer to Appendix B) at HVO utilising the principles of the Environmental Management Standard ISO14001;
- maintain compliance with:
 - HVO North and HVO South development consents;
 - environmental licences and permits; and
 - o commitments contained in environmental assessments, and other relevant legal requirements.
- Effectively integrate the requirements of the Glencore Environmental Management Framework, including 11.0 Environment GCAA-625378177-9978, and relevant legal and other requirements into a site-specific document, detailing environmental management objectives and responsibilities at HVO; and
- Provide effective mechanisms for external communications, particularly the on-going relationship with the local community.

The EMS sets out the procedures for periodic review, auditing and revision so that it is maintained to reflect current mining operations to the satisfaction of the Department of Planning, Housing and Infrastructure (DPHI).

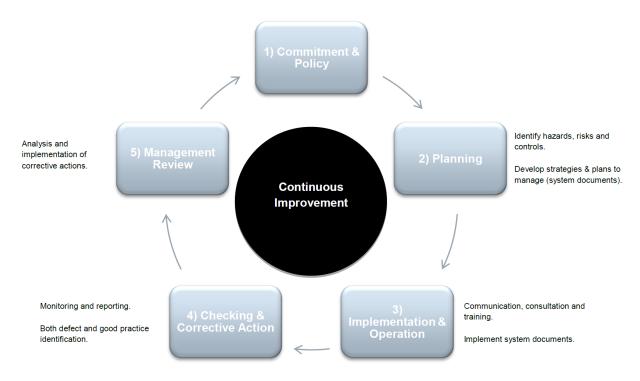


Figure 1-3: Environmental Management System model adapted from ISO 14001:2004

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1.4 | STATUTORY REQUIREMENTS

There are a number of statutory requirements under both State and Federal legislation which apply to HVO. Key legislation and regulations are listed in Appendix A.

The specific requirements of the consent conditions are also listed in Appendix A.

1.5 | GCAA REQUIREMENTS

GCAA has developed a comprehensive set of health, safety, environment and community (HSEC) standards. These standards have been developed to address the Glencore requirements as a minimum and provide guidance to operations on their effective implementation. The requirements of the Glencore HSEC Standards and Policies have been incorporated into the EMS where relevant.

2 | CONSULTATION

2.1 | INTERNAL STAKEHOLDER CONSULTATION

Internal communications are conducted in accordance with the <u>HVO HSEC Communication Procedure</u>. This document provides a protocol for achieving effective and timely internal communication.

This EMS has been reviewed by members of the HVO Environment and Community (E&C) department and comments addressed prior to submission. Change history is further outlined in section 10.3 |.

2.2 | EXTERNAL STAKEHOLDER CONSULTATION

Correspondence undertaken in relation to this revision of the EMS is presented in Table 2-1.

Stakeholder **Summary of Consultation Date** 27/09/2018 Melissa Anderson (DPIE) Revised EMS V4.0 submitted to DPIE for review. Correspondence received from DPIE requiring an amendment to 10/12/2018 Anthony Barnes (DPIE) be made to 'Section 8' of EMS. Revision made by HVO and submitted back to DPIE for approval. 08/01/2019 Howard Reed (DPIE) Approval granted 8th January. 10/09/2019 Melissa Anderson (DPIE) Draft EMS V5.0 submitted to DPIE for review. Correspondence received from DPIE requiring amendments to be 24/09/2019 Melissa Anderson (DPIE) made to EMS. 19/11/2019 Melissa Anderson (DPIE) Revised Draft EMS V5.0 submitted to DPIE for review. 14/04/2021 Letter received from DPIE requesting additional information Lauren Evans (DPIE) Correspondence received from DPIE requesting additional 28/08/2023 Karen Halliday (DPHI) information to be provided. 26/08/2025 Jack Turner (DPHI Approval granted of V6.0 of EMS.

Table 2-1: External Stakeholder Consultation

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3 | STRATEGY AND PLANNING

3.1 ANNUAL PLANNING PROCESS

Annual planning is undertaken in accordance with <u>GCAA-625378177-9987 2.0 Strategy and Planning</u>. The annual risk management planning and budgeting process implemented for HVO is summarised in Figure 3-1: Annual E&C Planning Process Figure 3-1.

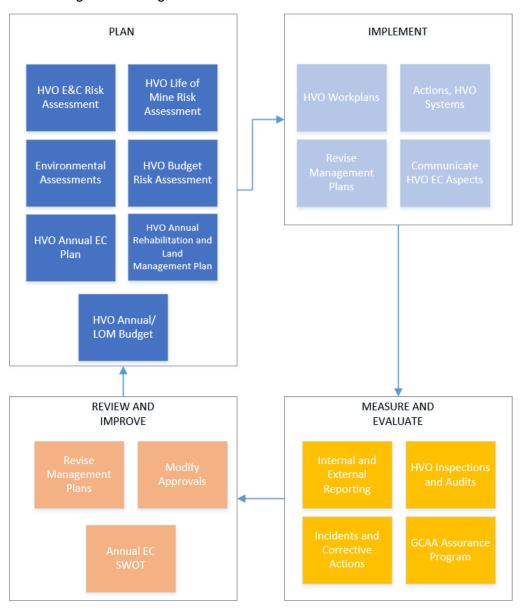


Figure 3-1: Annual E&C Planning Process

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3.2 | ENVIRONMENTAL ASPECTS AND IMPACTS

3.2.1 | RISK AND CHANGE MANAGEMENT

The annual environment and community risk assessment process aims to identify environmental aspects and impacts focused on key aspects of relevance to the environmental and community performance of HVOs operation. It is based upon the <u>GCAA Risk Management Standard (GCAA-625378177-2844)</u> and undertaken in line with <u>GCAA-625378177-10317 11.01 Environment and Community Risk Assessments Procedure.</u>

The process requires:

- identification of hazards/aspects and impacts;
- assessment of the risk associated with those hazards/aspects and impacts, including potential impacts on receptors
- identification of the controls necessary to eliminate or otherwise reduce those risks; and
- If new aspects and impacts are identified during the risk assessment, they are added to the register.

The results of risk reviews and any related improvement actions arising from the annual E&C risk assessment are entered and tracked in either the HSEC Compliance Database, or the GCAA Risk Database. These results are also to be incorporated into the annual E&C Plan.

For identified significant environmental aspects and impacts, appropriate preventative and/or mitigating measures will be documented through site environmental management systems. This may include but is not limited to management plans required from relevant government approvals. All required capital expenditure needs and provisions for future liabilities are to be considered as a part of the annual budget planning and approval process.

The Life of Mine (LOM) risk assessment considers aspects and impacts of business activities at a strategic level. These risk assessments cover the life of mine risks associated with each operation as well as considering climate specific risk as part of adopting GCAA climate change risk assessment. The need for any new (or modifications to existing) approvals is also identified during this process. The outcomes of the LOM Risk Assessment are used in conjunction with the Annual E&C Risk Assessment to develop each operation's annual budget and work schedule.

Each operation is responsible for the inclusion of environmental compliance related capital expenditure including future liabilities in the site annual budget and/or Life of Mine (LOM) planning process as required. The identified expenditure should be related to the environmental aspects and impacts identified for management in Section 4 of the GCAA Environment Standard. Operations business plans and management decisions should be assessed in line with HVO Change Management processes and assessed, considering:

- a. Likely changes or additions that might be imposed on the existing significant environmental aspects
- b. If the current operation's infrastructure and equipment are still suitable to meet compliance.

3.2.2 | HIGH RISK CONSEQUENCES

Where high risk consequences (Level 3 or 4) have been identified as part of the annual risk reviews, a review of existing plans and programs will be conducted.

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Operations through their business planning and risk identification processes are required to identify High Environmental Risk Facilities (infrastructure used as a control for Level 3 or 4 risks), where the failure of the facility could potentially cause significant environmental impacts.

3.3 | BASELINE STUDIES

Several baseline environmental studies have been conducted at HVO as part of development applications and development modification applications. The major studies are listed in Table 3-1.

Table 3-1: Baseline Environmental Assessments

Environmental Assessment	Year
Hunter Valley Operations – South Coal Project	2008
Mod 1 – Raising of Lake James	2009
Mod 2 – Proposed Modification to HVO South Project	2010
Mod 3 – Administrative Omissions and Clarifications	2012
Mod 4 – Dedication of Lands for Offsets	2012
Mod 5 – Hunter Valley Operations South Modification 5 (Depth Extension)	2017
Mod 6 – Ammonium Nitrate Emulsion Plant	2021
Mod 7 – Lemington Underground Mine Water Storage Project	2022
Mod 8 – Ammonium Nitrate Storage	2023
HVO West Pit Extension & Minor Modifications	2003
Mod1 – Hunter Valley Loading Point	2005
Mod 2 – Carrington Pit Extended	2005
Mod 3 – Carrington West Wing	2010
Mod 4 – Fine Reject Emplacement	2013
Mod 5 – HVLP Sediment basin and Communication Towers	2016
Mod 6 - Hunter Valley North Operations Modification 6 (Carrington In-pit Rejects)	2016
Mod 7 - Proposed Modification 7 to amend boundary errors and update Schedule of Land	2017

These baseline studies together with the conditions of licences form the core of HVO's environmental compliance management.

If a significant change to the operation, new project or expansion is imminent, baseline studies may require independent review.

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3.4 | OBJECTIVES AND TARGETS

Environmental objectives and targets are set annually as part of the annual E&C Plan. In order to meet the objectives and targets HVO implements environmental programs through an action-based compliance management system (see Table 4-1).

4 | IMPLEMENTATION

4.1 | ENVIRONMENTAL SYSTEMS

HVO uses the following systems for the administration of environment and community aspects and impacts.

Table 4-1: HVO Environmental Management Systems

System	Purpose				
	The GCAA document management software and operating system used				
	for the storage and publication of documents. E&C management plans				
SharePoint	that cover HVO are located in SharePoint so that plans are accessible to				
	all persons on site with computer access.				
	HVO uses ArcGIS [™] to manage spatial data. <u>11.19 GIS Spatial Data</u>				
HVO GIS	Management Guideline addresses the standard operation procedures for				
	the storage and control of these spatial records.				
Environmental Monitoring	The repository for ground water, surface water, air quality, noise, blast,				
Database (EMD)	waste and meteorological records.				
	The GCAA approvals and licences compliance storage database. CMO				
СМО	is also used for scheduling compliance actions pertaining to the				
	requirements of licences.				
Environmental Intranet/Vexillum	Real-time environmental monitoring.				
Air Quality Control System	Predictive forecasting tool for noise and air quality				
EnvMet	Atmospheric refraction and plume prediction tool				
Kaboom	Blast Monitoring System.				
0	The GCAA storage database for records of stakeholder consultation.				
Stakeholder Database	Consultation Manager is currently used for this purpose.				
RecFind	Hard copy record repository				
Citect	Real time dam and pipeline/pumping management				

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4.2 | INTERNAL MANAGEMENT OF STATUTORY REQUIREMENTS

Management of statutory requirements at HVO is undertaken in accordance with <u>11.01 Environmental</u> Compliance Management (GCAA-625378177-10301).

GCAA has developed a system for managing compliance for environmental approvals which encompasses the following elements:

- Environmental approvals storage
- Management of compliance and associated evidence; and
- Internal assurance program for approvals.

For HVO to maintain compliance with relevant statutory requirements, these requirements need to be identified and performance against them be regularly reviewed.

4.2.1 COMPLIANCE MANAGEMENT SYSTEM

HVO store obligations from all primary and secondary approvals in the compliance management system. CMO is currently used. Actions are assigned to employees for relevant obligations requiring evidence to be provided to demonstrate compliance.

HVO approvals and licences are located within Appendix D.

4.2.2 | CHANGES TO STANDARDS, CODES AND LEGISLATION

Awareness of changes to GCAA standards or protocols, codes or legislation is addressed in the following ways:

- receipt of regular updates from GCAA legal advisers;
- participation in industry groups, such as:
 - NSW Minerals Council
 - Hunter Coal Environment Group; and
- access to State and Federal legislation via the internet.

4.2.3 | WORK AUTHORISATIONS

HVO uses the work authorisation process in accordance with <u>GCAA-625378177-10531 Work Authorisation</u> and <u>Permit System Protocol</u>. The <u>GCAA-625378177-10040 – Work Authorisation</u> form contains a checklist of environmental aspects.

A GCAA work authorisation is required where:

- there are changes to existing activities/processes; and
- new projects are proposed that have potential for environmental impact.

The work authorisation assesses whether:

- the proposed works have the required environmental approval; and
- the person(s) undertaking the works have appropriately managed risks to minimise impacts on the environment and community.

The work authorisation form may trigger a Ground Disturbance Permit (GDP). The GDP is required for all surface disturbance work on established rehabilitation, previously disturbed revegetated areas and

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previously undisturbed areas up to and including removal of topsoil. This includes, but is not limited to, slashing, tree lopping, removal of topsoil and clearing.

4.2.4 | STATUTORY APPROVAL MANAGEMENT

HVO follows a specific approvals and compliance process where:

- approvals required for the continuity of the operations are obtained within the required time frame; and
- compliance with these approvals is maintained.

Compliance to HVO licences and approvals is managed in accordance with <u>GCAA Protocol 11.01</u> <u>Environmental Compliance Management.</u> HVO licences and approvals are outlined on the HVO Approvals Register. The objective of the register is to accurately record all current approvals for HVO, including:

- date of approval / renewal
- date of expiry
- whether the compliance management system CMO has been updated with approval:
 - conditions / commitments
 - o actions
- GCAA applicable protocols

Where HVO requires a new development consent or a modification, the steps to be followed are in accordance with 11.20 Statutory Approval Management (GCAA-625378177-13514).

4.3 | ENVIRONMENTAL CONTROLS

Environmental controls are implemented via environmental procedures, Trigger Action Response Plans (TARPs), management plans and monitoring programs in accordance with HVO and regulatory requirements. These provide an overview of specific environmental aspects and impacts associated with the operations. They also outline the management measures that the site undertakes to minimise environmental impacts. In the event of a safety emergency, safety will take precedence over environmental TARPs. The documents associated with this EMS are listed in Appendix B.

HVO also maintains the latest version of strategies, plans or programs on its external website at http://www.hvo.com.au.

4.3.1 | CARBON MANAGEMENT

Carbon management at HVO is managed in accordance with the HVO Air Quality Management Plan and Greenhouse Gas Mitigation Plan and <u>GCAA–6253878177-13662 11.13 NGER Reporting Protocol</u>. The protocol outlines the NGER reporting requirements, the management strategy including verification of data, and responsibilities at both a site and corporate level.

4.3.2 CULTURAL HERITAGE MANAGEMENT

HVO has developed two Aboriginal Cultural Heritage Management Plans (<u>HVO South Aboriginal Cultural Heritage Management Plan</u> and <u>HVO North Aboriginal Heritage Management Plan</u>) in-line with the requirements of DA 450-10-2003 and PA 06 0261.

The objectives of these Plans are to set out controls to prevent unapproved impact to any identified and/or unidentified Aboriginal cultural heritage sites and values on land subject of the HVO State approvals. In

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addition to these plans, HVO assesses and identifies potential cultural heritage risks as part of the annual risk review process.

4.3.3 | SURFACE BLAST MANAGEMENT

The environment and community impacts of surface blasting are managed using the <u>HVO Blast Management Plan</u>. This Plan applies to all blasting activities within the HVO and addresses the relevant conditions of development consents DA 450-10-2003 and PA 06_0261, as well as conditions of the relevant EPL. Blast monitoring locations are shown in Appendix C.

4.3.4 | EXPLORATION AND DRILLING

Exploration and drilling activities at the HVO are undertaken in accordance with the Mining Act 1992, Codes of Practice and Exploration and Mining Lease conditions. The GDP Process is used for exploration and drilling so that adequate controls are in place to minimise impacts on the environment and community.

4.3.5 | HYDROCARBON MANAGEMENT

Hydrocarbon storage and inspections at HVO are consistent with the HVO Hydrocarbon Mgt Plan (HVOOC-748212775-24) developed in line with the Glencore protocol <u>11.07 Hydrocarbon Management</u> (GCAA-625378177-10243).

4.3.6 | AIR QUALITY MANAGEMENT

Air Quality at HVO is managed in accordance with the <u>HVO Air Quality Management Plan</u>, developed inline with the relevant conditions of development consents DA 450-10-2003 and PA 06_0261, as well as conditions of the relevant EPL. The HVO air quality monitoring program includes a combination of dust deposition gauges, TSP and PM₁₀ high volume air samplers (HVAS) and continuous PM₁₀ monitoring units (TEOMs), the location of which are shown in Appendix C.

4.3.7 | NOISE MANAGEMENT

Noise management at HVO is undertaken in accordance with the <u>HVO Noise Management Plan</u>. This Plan applies to all operational activities within HVO and addresses the relevant conditions of development consents.

Noise monitoring is undertaken in accordance with EPL and development consent conditions, which specify required methods of sampling, analysis and frequency of monitoring. The noise monitoring program includes a combination of continuous and attended monitoring measures that are carried out in accordance with the relevant requirements set out in the NSW Industrial Noise Policy. Noise monitoring locations are shown in Appendix C.

4.3.8 | PIPELINE MANAGEMENT

A pipeline management procedure has been developed for HVO in line with the HVO Pipeline Management Procedure

Water is transferred around the complex using pump and pipeline infrastructure. Pipeline inspection frequency is risk based depending on water quality being transferred and the environment in which the pipeline is located.

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4.3.9 | TAILINGS MANAGEMENT

Management measures are outlined in the <u>HVO Fine Reject Management Strategy</u>, HVO Dam Management Plan and Operation and Maintenance Manuals for each facility.

HVO is working towards implementation of the Glencore Protocol <u>18.0 Tailings Storage Facilities and Dam Management (GCAA-625378177-18466).</u>

4.3.10 | WATER MANAGEMENT

Water management at HVO is undertaken in accordance with the <u>HVO Water Management Plan</u>. Both development consents require a water management plan to outline how surface and groundwater impacts associated with the development are managed.

HVO has an extensive water management system, which includes mine dewatering systems, creek diversions, water storages, sediment dams, tailings ponds, drains and earthen bunding around stockpiles, hardstand areas, haul roads and refuelling areas.

Water sampling and monitoring is undertaken as per the water monitoring programme, on key water storages, catchments and creek lines around HVO. Water monitoring locations are shown in Appendix C.

A <u>HVO Operational Water Management Plan</u> has been developed in accordance with <u>11.03 Water Management (GCAA-625378177-10320)</u> and <u>11.05 Dams and Diversions protocol (GCAA-625378177-10322)</u>. Climate related risks are considered when assessing water-related risk and current and future projected climatic variability within the catchment area, impact on shared water resources, water quality and supply and operational infrastructure requirements.

4.3.11 | SEDIMENT AND EROSION

Erosion and sediment control is managed under the <u>HVO Water Management Plan</u>, and <u>GCAA 11.06 Erosion and Sediment Control protocol (GCAA-625378177-10323)</u>. An overarching <u>HVO Erosion and Sediment Control Plan (ESCP)</u> has been developed for site in line with the protocol.

A GDP specific ESCP is developed in line with the GDP Procedure.

4.3.12 | LAND AND PROPERTY MANAGEMENT

HVO landholdings cover the immediate and surrounding areas of HVO. Land not actively used for mining purposes is managed for either grazing or biodiversity offset purposes.

HVO manages buffer lands in accordance with the 11.15 Land and Property Management Protocol (GCAA-625378177-10242). This Protocol includes works on mine-owned land that is not subject to mining as well as mined areas.

HVO conducts annual rural buffer property inspections jointly with managing agents and licensees. These inspections cover a variety of facets of land management including status of infrastructure, weed and pest control, erosion and emergency management including bushfire management. Any determined actions are raised and reviewed at subsequent annual inspections and updated as required.

The <u>HVO Agricultural Reinstatement Management Plan</u> outlines how agricultural lands associated with the Carrington West Wing approval area are to be restored to productive capacity, or equivalent to their pre mining state.

4.3.13 | REHABILITATION MANAGEMENT

Rehabilitation across HVO is conducted in line with the <u>HVO Annual Rehabilitation Management Plan</u> (RMP) The RMP has been prepared to meet the requirements of the Mining Act 1992 and Rehabilitation

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Management Plan specified in DA 450-10-2003 and PA 06_0621. A Forward Work Programme and Rehabilitation Objectives are reviewed and submitted annually to the Resources Regulator in accordance with Mining Lease Conditions.

HVO is required by GCAA to develop an Annual Rehabilitation and Closure Plan in accordance with the 11.16 Rehabilitation Management protocol (GCAA-625378177-10241). This plan covers the areas planned to be disturbed and rehabilitated during that year.

HVO undertakes a rehabilitation monitoring program in accordance with this Glencore standard and the Rehabilitation Management Plan to provide direction and guidance in developing an operation-specific rehabilitation monitoring program that will aid in successfully meeting rehabilitation objectives and completion criteria. The monitoring program will be continued within rehabilitated areas and non-mined areas until it can be demonstrated that rehabilitation has satisfied the closure criteria. Information from this monitoring program will also be used to refine closure criteria as required.

4.3.14 | MINE CLOSURE PLANNING

A Rehabilitation Cost Estimate (RCE) is reviewed annually and submitted to the Resources Regulator in accordance with Mining Lease Conditions.

HVO have developed a conceptual closure plan in accordance with Glencore protocol <u>11.17 Mine Closure Planning (GCAA-625378177-10325)</u> for internal use.

4.3.15 | BIODIVERSITY MANAGEMENT

The HVO Integrated Biodiversity and Offset Management Plan and has been prepared in accordance with the HVO South approval. Individual Biodiversity and Offset Management Plans (BOMPs) have also been developed for the Goulburn River and Commonwealth Offsets. The plans are implemented to guide the ongoing management of biodiversity and biodiversity offset areas (BOAs) across HVO and regional offset areas. They provide a framework for the implementation of ecological management actions, regeneration and revegetation strategies, controls and monitoring programs.

The HVO Vegetation Clearance Plan, required under an Environment Protection and Biodiversity Conservation Act (EPBC) approval, provides for the effective implementation of measures to manage the Central Hunter Valley Eucalypt Forest, Reagent Honeyeater, Swift Parrot & Green and Golden Bell Frog during times of vegetation clearance for HVO.

The HVO River Red Gum Rehabilitation and Restoration Strategy also outlines a strategy to restore and rehabilitate the Carrington Billabong in accordance with the HVO North approval, and to manage stands of river red gums which occur along the Hunter River and Wollombi Brook at HVO South, in accordance with the HVO South consent.

4.3.16 | WASTE MANAGEMENT

Waste at HVO is managed under the HVO Non Mineral Waste Management Plan, which has been prepared to meet the requirements of will be reviewed against the GCAA 11.08 Waste Management (GCAA-625378177-10249) HVO Non-mineral Waste protocol. These documents provide instruction on the correct handling, storage and disposal of waste materials and encourages efficient resource use and recovery. It also assist sites to comply with relevant legislation, regulations, standards and consent/licence conditions, along with monitoring, reporting and auditing requirements.

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4.3.17 | BUSHFIRE MANAGEMENT

In accordance with the requirements set out in HVO North Consent DA 450-10-2003 and South Project Approval PA 06_0261, HVO has prepared a <u>Bushfire Management Plan</u>. The plan outlines how HVO is to prepare for and respond to bushfire.

4.3.18 | GLIDING CLUB AMENITY

The Hunter Valley Glider Club (HVGC) owns and operates a single grass airstrip on land adjacent to HVO. HVO has entered into a compensation and mitigation agreement with the HVGC. In accordance with this agreement, and the HVO South consent, HVO developed an <u>Amenity Management Plan</u>. The purpose of this plan is to outline the measures that HVO put in place to manage noise, air quality and obstacle limitation surface impacts resulting from mining operations within HVO South.

4.4 | MANAGING CUMULATIVE IMPACTS

The air, noise and blasting management plans provide specific procedures in relation to the management of cumulative impacts.

Strategies for the management of cumulative impacts at HVO include:

- Monitoring data from the Upper Hunter Air Quality Monitoring Network;
- Working with neighbouring mining operations with regards to the management of blast fume, dust, noise, lighting and social issues;
- Sharing monitoring data with neighbouring mines as required; and,
- Participating in the Upper Hunter Mining Dialogue, via GCAA.

4.5 | COMMUNICATIONS

Effective communication between HVO management and employees/contractors and between HVO and external stakeholders is important for the successful on-going operation of HVO. All communication is undertaken in accordance with the specific procedures outlined in the below sections.

4.5.1 INTERNAL COMMUNICATION

Internal communications listed in Table 4-2 are conducted in accordance with the HVO HSEC Communication Procedure and <u>GCAA 10.03 Internal Communication Standard (GCAA-625379177-10330)</u>. Environment and Community personnel are represented during regular operational meetings, to integrate environmental aspects, impacts and other matters into the ongoing operation of the business.

Table 4-2: Internal Communication

Communication	Frequency	Information
HVO Production Meeting	Three times per week	Planned activities for the next 48 hrs. Review of previous 24 hours
NSW E&C Teleconference	Weekly	Report by all NSW sites on E&C aspects and incidents
HVO E&C Planning Meeting	Daily	Review of environmental performance, planned works, compliance management

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		system actions and tracking against each E&C work schedule
HVO Monthly Incident/Complaint Review Meeting	Monthly	Monthly meeting to review incidents and complaints and identify trends
HVO Senior Leadership Meeting	Weekly	Report on E&C management, including Annual Plan actions by HVO E&C Manager to Senior Leadership Team
Employee Updates	As required	Includes E&C aspects and other topics presented to staff and crews
NSW E&C Meeting	Quarterly	Update by all sites and GCAA on performance
E&C Annual Planning Meeting	Annually	Review and update Annual Plan strategy and actions

4.5.2 | EXTERNAL COMMUNICATION

External stakeholder communication is undertaken in accordance with 10.01 Stakeholder Engagement (GCAA-62537877-10294). This document is used for developing the HVO Stakeholder Engagement Plan. The stakeholder database stores a list of all identified external stakeholders. These include, but are not limited to:

- neighbouring residences;
- community groups;
- Regulatory agencies;
- Aboriginal groups; and
- Environmental groups.

Regular external communications undertaken by HVO E&C staff are listed in Table 4-3 below.

Table 4-3: External Communication

Communication	Frequency	Information	
Blasting SMS	As required, per blast	Blasting related information	
Enquiries/ Complaints / blasting hotline	Continuous	Blasting related information and to report community complaints, concerns or enquiries	
Community Information Sessions	Twice yearly (or as required) nominally at Jerrys Plains and Maison Dieu	Operational update, and forum for public discussion	

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Cultural Heritage Working Group	Annually and as required	Cultural Heritage and operational update, and forum for Aboriginal stakeholder correspondence	
EPA Monitoring	Monthly	Environmental monitoring required under the EPL, updated on the external website	
Noise Monitoring	Monthly	Noise monitoring required under the DAs, updated on the external website	
Newsletter	Biannual or as required	Review of community and environmental activities for HVO	
CCC Meetings	Quarterly	Update on HVO E&C performance	
Environmental Monitoring Reports	Monthly	Review of the previous month's performance. Distributed on the HVO external website.	
Annual Review	Annual	Review of the previous year's environmental performance. Distributed to DPHI, Water Group, NSW Resource Regulator (RR), NSW Resource Access Regulator (NRAR), Singleton Council, Community Consultative Committee (CCC) and the external website.	

4.5.3 | WEBSITE REPORTING

The HVO external website http://www.hvo.com.au. is maintained to provide the wider community with access to the HVO development consents, EPL, monitoring results, details of current activities, scheduled blast times, environmental management plans and monitoring programs and any other information in relation to the operation that may be of interest to the community.

The following documents are required to be published on the external website and need to be kept up to date in accordance with Schedule 5, Condition 9 of PA 06_0261 and Schedule 5 Condition 12 of DA 450-10-2003:

- All management plans and strategies required by Development Consents DA 450-10-2003 and PA 06_0261.
- Current statutory consents and approvals;
- A comprehensive summary of monitoring results reported in accordance with the specifications of any consent conditions or any approved plans or programs;
- Contact details to make an enquiry or complaint;
- A complaints register, which is updated monthly;
- Blasting schedule;
- Minutes of CCC meetings;
- The Annual Reviews (for the last 5 years);

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 Any independent environmental audit undertaken and the company's response to any recommendations made in the audit; and

Any other matter required by the Secretary.

4.5.3.1 | MEDIA COMMUNICATION

Communication with the media is subject to approval from the General Manager and the GCAA Corporate Affairs Manager. All media communications are undertaken in accordance with the Glencore Media and Public Relations Protocol.

4.5.3.2 | COMMUNITY CONSULTATIVE COMMITTEE

Consultation with the local community occurs through HVO's CCC in accordance with Schedule 5 Condition 8 of PA 06_0261 and Schedule 5 Condition 6 of DA 450-10-2003. The CCC monitors compliance with conditions of consent and provides a forum for important community discussion. Community representatives act as the point of contact to provide feedback between the mines and the community. Community representatives are asked to relay information from these meetings to their community and in turn, through their representative, the community can raise issues they would like addressed. This CCC is comprised of members from the community. This CCC is operated in general accordance with the Community Consultative Committee Guidelines (Department of Planning and Environment - January 2019).

The CCC meets four times a year, or as agreed by the Secretary, throughout the life of the combined operations. Minutes of the CCC meetings are taken and are made available on the HVO website.

4.6 | COMPLAINTS MANAGEMENT

HVO manages a community complaints hotline operating 24 hours per day, seven days a week, to receive any complaints from neighbouring residents or other stakeholders. The complaints hotline is advertised in the local media, community newsletters and the HVO website. The community complaints hotline is 1800 888 733.

HVO complaints are managed in accordance with the <u>Community Complaints Management Procedure</u> (CCMP) which details the process to be followed when receiving, responding to and recording community complaints. All complaints are registered in the compliance management system. As outlined in the procedure, each complaint is acknowledged and where practical, a response is provided to the complainant within 24 hours.

HVO investigations commence as soon practicable following receipt of a complaint to determine the likely cause of the complaint. The investigation will be used to identify the need to implement operational changes or appropriate mitigation measures. The CCMP requires the recording of relevant information including:

- The nature of the complaint;
- Method of the complaint;
- Relevant monitoring results and meteorological data at the time of the complaint;
- Site investigation outcomes;
- Any necessary site activity and activity changes;
- Any necessary actions assigned; and
- Communication of the investigation outcome(s) to the complainant.

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A complaints register is updated monthly and made available on the HVO website.

4.6.1 | DISPUTE RESOLUTION

In the event of a disagreement between HVO and a member of the community, including the Council, or a Government agency (other than the Department), the Environment and Community Manager (E&C Manager) (or delegate) in the first instance will undertake the necessary liaison and communication to attempt to reach a resolution.

The E&C Manager (or delegate) will review information relating to the dispute and provide a response to the other party as soon as is reasonably practicable. If appropriate, the E&C Manager (or delegate) will offer to hold a meeting with the disputing party in an attempt to resolve the dispute.

In the event where a disagreement is unable to be resolved internally, these matters will be referred to the Planning Secretary of DPHI in accordance with the relevant consent conditions. Any determination of the disagreement made by the Secretary shall be final and binding on the parties.

4.7 | DOCUMENT CONTROL

Records will be kept in accordance with HVO Document and Records Management Plan.

HVO utilise the intranet for the maintenance of the EMS, enabling access to:

- plans;
- standards;
- procedures;
- forms; and
- policies.

The compliance management system is utilised for recording:

- complaints and incidents;
- approvals and associated commitments and actions;
- audits; and
- risk register templates.

4.8 | RECORDS AND INFORMATION MANAGEMENT

Records are to be maintained in the appropriate location in a legible form for a minimum period of five years. This is in accordance with HVO Document and Records Management Plan.

A master copy of the EMS and its components, including strategies, management plans, and procedures and supporting information, is maintained in the HVO Management Plans & Strategies folder located in the HVO E&C folder (O:\Environment and Community) held in the office of the HVO E&C Manager.

4.9 | EMERGENCY RESPONSE

Environmental emergency response procedures are integrated with onsite emergency response plans.

An Emergency Response Team is available at the site at all times when the site is fully operational and trained to coordinate and respond to emergency situations as required. Preparedness for emergencies by staff, personnel, contractors and service providers is undertaken in accordance with onsite training requirements whereby personnel are appropriately trained in the use of emergency response equipment

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and procedures and will be made aware of their responsibilities should such an event occur. Alternative arrangements for emergency response are made based on risk assessment when operations are significantly scaled down, such as planned shutdown periods.

Arrangements, including description and location of safety equipment, for minimising risk of harm to people and the environment as result of a pollution incident, and for containing or controlling a pollution incident, are included in the HVO <u>Pollution Incident Response Management Plan</u> (PIRMP).

4.10 | ENVIRONMENT AND COMMUNITY TRAINING

Training is managed across HVO in accordance with the GCAA Protocol <u>11.14 Environment and Community Training</u> (GCAA-625378177-10240).

All personnel at HVO undergo environmental induction training before being allowed to commence work on site. Environmental induction training is conducted for employees and contractors.

Training needs will form part of the HVO Training Needs Analysis (TNA). The TNA details specific training requirements for each roles on site.

The HVO E&C team is responsible for the identification and production of environmental training. This includes developing training modules and toolbox talks for aspects of HVO operations that may potentially result in significant environmental impacts. Environmental training is incorporated into the broader training program for the site.

Training packages are published on 'SharePoint'. Completed assessment work is entered in the sites training management system. Hard copies of completed assessments are retained in the records system.

5 | MEASUREMENT AND EVALUATION

5.1 | ENVIRONMENTAL MONITORING

Environmental monitoring provides a measure of the performance of HVO, with monitoring results being compared against performance criteria specified in the HVO licences and development consents. Monitoring is undertaken in accordance with the individual management plans prepared in accordance with the applicable development consent conditions covering noise, blasting, air quality, surface water, groundwater and biodiversity monitoring requirements. Monitoring locations are shown in Appendix C.

Monitoring is generally undertaken in accordance with the relevant Australian Standards using standard monitoring techniques and calibrated equipment operated by trained personnel. Sampling and analysis is undertaken in accordance with applicable development consent and EPL conditions.

Monitoring results are filed by the HVO E&C team and generally maintained in EMD. EMD is a web-based data storage and display system for all environmental data required by approvals, licences and other external requirements.

5.2 | ENVIRONMENTAL INSPECTIONS

Various inspections are conducted across the site, incorporating E&C aspects. Table 5-1 provides a summary of the various environmental inspections undertaken.

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Table 5-1: Environmental Inspections

Туре	Frequency	Responsibility
Targeted Visible Leadership Interactions	Monthly	E&C Personnel
GDP inspections	Monthly and as required	E&C Personnel
Waste and spill response equipment	Fortnightly	Contractor
Area environmental	Monthly	E&C personnel
CHPP environmental inspections	Daily	CHPP
OCE Environmental inspections	As required	Production
Fuel farm inspections	Fortnightly	Maintenance
Hydrocarbon – workshop and bioremediation	Quarterly	E&C personnel
Erosion and sediment control structures	Pre and post rainfall and as required	Dam inspector/E&C
Dam Inspections	As required by risk based schedule	Dam inspector/E&C
Buffer land management (including agricultural lands)	Annual	E&C Personnel
Aboriginal cultural heritage	Annual	E&C Personnel
Pipeline inspections	As required by risk based schedule	Dam Inspector
Annual rehabilitation walkover	Annual	Contractor
Topsoil stockpiles (construction / removal)	Daily when operational	Mine Services
Topsoil stockpiles (post construction)	Included in other inspections	E&C Personnel
Rehabilitation	Monthly	E&C Personnel
Project specific (eg Demolition)	As required	E&C Personnel

Corrective action is recommended by the person undertaking the inspection. Actions are raised through established area processes including the compliance management system, SAP, Pronto forms or notification to Supervisor or area owner.

5.3 | ENVIRONMENTAL AUDITS

5.3.1 INTERNAL AUDITS

Internal audits will be undertaken generally in accordance with the GCAA Assurance Standard to assess whether the EMS has been properly implemented and maintained and conforms to the environmental

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policy, objectives and targets of HVO. Table 5-2 provides a summary of the internal audits undertaken at HVO.

Table 5-2: Internal Audits

Туре	Frequency	Description	Arranged by
Third Party External SD Risks and Verification Audits	Every three years	In depth assessment of the 5 or 6 specific risks that have material proportions	GCAA HS and E&C General Managers
Internal environmental compliance audit	Every three years (six months prior to external compliance audits)	Audit against development consent conditions and associated licences/approvals	GCAA Compliance Coordinator
HSEC Standards Assurance Audit	Self Assessment required every 12 months. Validation audit every 3 years	-Audit against GCAA and Glencore HSEC and HR standards	GCAA Compliance Coordinator
NGER Assurance Audit	Annually	Audit required under NGER Act	GCAA Compliance Coordinator
Other internal audits	As determined by the operation's level of risk	Operations and projects conduct their own HSEC inspections and audits as appropriate to their level of HSEC risk	E&C or Operations Manager

Audit results are communicated to senior management and employees as required. Actions and recommendations from internal audits will be entered into the compliance management system.

5.3.2 | EXTERNAL AUDITS

Table 5-3 lists the external audits undertaken at HVO.

Table 5-3: External Audits

Type	Frequency	Description	Arranged by
External Independent Environnemental compliance audit	Three Yearly	Compliance audit against environmental legislation, development consent conditions and related licence/approval conditions	HVO E&C Coordinator/or delegate
External EPBC approval audit	Upon the direction of the Minister	Compliance audit against EPBC 2016/7640 conditions	HVO E&C Coodinator/or delegate

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5.4 | INCIDENTS AND CORRECTIVE ACTIONS

HVO manages incidents in accordance with the GCAA Communication and Engagement Standard and Incident Standard.

Incidents are classified under the HVO North and South development consents as:

'An occurrence or set of circumstances that:

- causes or threaten to cause material harm to the environment, or
- breaches or exceeds the limits or performance measures/criteria in this consent (HVO North), or.
- results in non-compliance with this consent (HVO South).

Investigations are undertaken as soon as practicable after becoming aware of an incident.

Corrective actions are applied, where appropriate, to directly address the root cause or causes, and to assist in the prevention of recurrence.

Non-compliance investigations and corrective actions are tracked in the compliance management system to completion.

All personnel at HVO are required to report environmental incidents that cause potential or actual harm to the environment and/or are determined to be a non-compliance.

5.4.1 INCIDENT NOTIFICATION

If an incident has occurred and has the potential to cause material harm, it will be managed and reported as per the requirements of the HVO <u>Pollution Incident Response Management Plan</u>. The plan includes contact details of the relevant agencies.

All other incidents will be reported in accordance with requirements of respective approvals, licences or mining tenements. Reporting of exceedances will be in accordance with conditions of approvals and reporting protocols specified in management plans.

Table 5-4 lists the requirements and timing of notifications required.

environment

Notification Covers Recipient Requirement **EPA** Fire and Rescue NSW Singleton Shire Council (if incident is within Singleton **EPL 640** Pollution incident that Muswellbrook Shire Council DA 450-10-2003 causes, or may lead to, (if incident within **Immediately** PA 06 0261 material harm to the

DPHI RR

Muswellbrook LGA)

SafeWork NSW

The Ministry of Health

Other relevant agencies

PoEO Act (PIRMP)

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Mining Leases

Table 5-4: Incident Notifications

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Within 7 days	Exceedance of the limits/performance criteria of the licence or consents	Written report to DPHI, EPA, RR, and any other relevant agencies. Report must include the date, time and nature of exceedance/incident, cause of exceedance/incident, actions to date and proposed measures to address the exceedance	EPL 640 DA 450-10-2003 PA 06_0261 Mining Leases
Immediately	All E&C incidents on site	Supervisor	GCAA HSEC Incident Notification and Reporting

5.5 | ENVIRONMENTAL REPORTING

Internal and external environmental reporting requirements including timing, submission and distribution method are summarised in Table 5-5 and Table 5-6.

Reporting requirements are maintained within the compliance management system database. National Greenhouse and Energy Reporting is maintained in the SAP ERS system.

Table 5-5: Internal Reporting Requirements

Report	Frequency	Distribution	Method	Owner
GCAA Environmental Status report	Monthly	GCAA	СМО	E&C Manager
SAP ERS	Monthly	GCAA	SAP ERS	Commercial Manager
Monthly Joint Venture Reporting	Monthly	GCAA/Yancoal	Email	E&C Manager
NGER Facilities Process Map Review	Annual	GCAA	Email	Commercial Manager

Table 5-6: External Reporting Requirements

Report	Frequency	Distribution Method		Owner	
		DPHI			
Insident Deneut	^ · · · · ·	EPA	Email	Environment & Community Manager	
Incident Report	As required	Resource Regulator			
		(other agencies as required)			
	Annually	DPHI		Environment & Community Manager	
		Water Group			
Annual Review		RR	Email		
		NRAR	Elliali		
		Singleton Council			
		CCC			

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Annual Return	Annually	EPA	Online	Environment & Community Manager
EPBC Act Compliance Report	Annually	DoEE Email & Web		Environment & Community Manager
HRSTS Report	Annually	EPA	Email	Environment & Community Manager
Monthly EPL Monitoring Data Summary	Monthly	EPA	EPA Website	
Monthly Environmental Monitoring Report	Monthly	DPHI	Website	Environment & Community Manager
National Pollutant Inventory Report	Annually (for the period 1 January to 31 December)	EPA	On-Line	Environment & Community Manager
National Greenhouse and Energy Report	Annually (for the period 1 July to 30 June)	DoEE	On-Line	Environment & Community Manager
Dam Safety NSW Annual Report	Annually	Dam Safety NSW	Email	Technical Services Manager

6 | ACCOUNTABILITIES

Environmental management at HVO is the responsibility of all employees and contractors, with the General Manager having overall responsibility for environmental management of the site. Key personnel and their relevant E&C management roles and responsibilities are listed in Table 6-1. More specific roles and responsibilities are contained in environmental management plans, procedures and individual position descriptions.

Table 6-1: Roles and Accountabilities

Role	Accountabilities
General Manager	Ensure adequate resourcing is available to implement the EMS
	Ensure adequate training resources are available to implement the EMS.
Manager	Planning for E&C controls and improvements
	Ensure teams are implementing the EMS

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Dala	A a a sum to bilition
Role Environment and Community Manager	 Provide leadership to sites in the implementation and maintenance of the EMS; Make recommendations regarding the effectiveness of the EMS; and Ensure that the EMS is reflective of contemporary operations and risks.
Superintendent	 Each Superintendent role is accountable for the implementation of the EMS standards within the area of control and with demonstrated behaviour, will ensure that: All regular checks, inspections and audits are done; and that the EMS is consistently applied across his/her area of control; and Reporting and recommending improvements of this EMS to the E&C Manager as appropriate.
Team Leader	 Ensure that all team members understand the EMS requirements and perform them accordingly; Behave in a manner than demonstrates his/her commitment and understanding of EMS; Apply the EMS to area of accountability.
Employee	Follow EMS requirements including any associated standards, procedures and systems

7 | APPROVED PLANS, PROGRAMS AND STRATEGIES

All approved plans, programs and strategies are made publicly available on the HVO external website. http://www.hvo.com.au

8 | STRATEGY REVIEW

As required by the relevant conditions of the development consents and through the application fo Glencore Corporate Practices, HVO will strive to implement continuous improvement and maintain the EMS and relevant referenced documents. This EMS shall be reviewed within three months of the submission of an:

- Annual review (formerly the AEMR);
- Incident report under the relevant conditions of approval;

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Independent audit under the relevant conditions of approval; or

Modification to the conditions of consent.

If any significant modifications to the EMS are required as an outcome of the review, a revised EMS will be submitted to DPHI for approval within 6 weeks.

9 | DEFINITIONS

NAME/TITLE	DESCRIPTION

10 | DOCUMENT INFORMATION

Relevant legislation, standards and other reference information must be regularly reviewed and monitored for updates and should be included in the site management system. Related documents and reference information in this section provides the linkage and source to develop and maintain site compliance information.

10.1 | RELATED DOCUMENTS

Related documents, listed in Table below, are documents directly related to or referenced from within this document.

NUMBER	TITLE
HVOOC-1797567310-4028	Noise Management Plan
HVOOC-1797567310-446	Water Management Plan
HVOOC-1797567310-3537	Operational Water Management Plan
HVOOC-1797567310-5343	Air Quality Management Plan
HVOOC-1797567310-2595	Greenhouse Gas Mitigation Plan
HVOOC-1797567310-1364	Fine Reject Mgt Plan
HVOOC-1797567310-3515	Erosion and Sediment Control Plan
HVOOC-1797567310-3229	Agricultural Land Reinstatement Management Plan

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NUMBER	TITLE
HVOOC-1797567310-5041	Rehabilitation Management Plan
HVOOC-1797567310-3718	Integrated Biodiversity Management Plan
HVOOC-1797567310-1934	Non-mineral Waste Management Plan
HVOOC-1797567310-41	Bushfire Management Plan
HVOOC-1797567310-4247	Amenity Management Plan – Hunter Valley Gliding Club
HVOOC-1797567310-3141	Stakeholder Engagement Strategy Plan
HVOOC-1797567310-2197	Community Complaints Management Procedure
HVOOC-1797567310-2185	Document and Records Management Plan
HVOOC-1797567310-2257	Pollution Incident Response Management Plan

10.2 | REFERENCE INFORMATION

Reference information, listed in Table below, is information that is directly referred to for the development of this document

REFERENCE	TITLE
GCAA-625378177-9987	2.0 Strategy and Planning
GCAA-625378177-10294	10.01 Stakeholder Engagement
GCAA-625379177-10330	10.03 Internal Communication Standard
GCAA-625378177-9978	11.0 Environment Standard
GCAA-625378177-10301	11.01 Environmental Compliance Management Protocol
GCAA-625378177-10248	11.02 Pipeline Management

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REFERENCE	TITLE
GCAA-625378177-10320	11.03 Water Management
GCAA-625378177-15551	11.04 Tailings Storage Facilities
GCAA-625378177-10322	11.05 Dams and Diversions
GCAA-625378177-10323	11.06 Erosion and Sediment Control
GCAA-625378177-10243	11.07 Hydrocarbon Management
GCAA-625378177-10249	11.08 Waste Management
GCAA-6253878177-13662	11.13 NGER Reporting Protocol
GCAA-625378177-10240	11.14 Environment and Community Training
GCAA-625378177-10241	11.16 Rehabilitation Management
GCAA-625378177-10325	11.17 Mine Closure Planning
GCAA-625378177-10499	11.19 GIS Spatial Data Management Guideline
GCAA-625378177-13514	11.20 Statutory Approval Management Protocol
GCAA-625378177-18466	18.0 Tailings Storage Facilities and Dam Management
GCAA-625378177-2844	GCAA Risk Management Standard
GCAA-625378177-10531	Work Authorisation and Permit System Protocol
GCAA-625378177-10531	Work Authorisation and Permit
EPA 2000	Noise Policy for Industry

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10.3 | CHANGE INFORMATION

Full details of the document history are recorded in the document control register, by version. A summary of the current change is provided in table below. Example detail shown below.

REGULATOR VERSION	HVO SHAREPOINT VERSION	DATE	CHANGE DETAILS	REVIEW TEAM	REGULATOR APPROVAL
1.0	-	16/06/2003	HVO North consolidated consent. Original Document	D Eason	13/04/2005
1.1	-	17/11/2004	Minor Changes for HVO North Consolidated Consent	Unknown	-
1.2	-	25/02/2005	Incorporation of DOP comments from their review of the Draft	Unknown	-
1.3	-	30/01/2007	Update for BMC Section 96(2) Modification	Unknown	-
1.4	-	28/04/2008	Review for HVO North DA. Update format and content	A McMullen, R Cameron	13/05/2008
1.5	-	04/05/2009	Review for HVO South PA. Update format and content	C Dyer, R Cameron	-
1.6	-	06/07/2012	Review for MTP development consent	K Macmillan, A Speechly	-
1.7	-	24/09/2012	Reviewed for WML extension project approval and Mount Thorley Operations Modification	G Gleeson, A Speechly	-

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REGULATOR VERSION	HVO SHAREPOINT VERSION	DATE	CHANGE DETAILS	REVIEW TEAM	REGULATOR APPROVAL
1.8	-	31/01/2013	Reviewed for BMX Section 75W Modification No.4	K Wilkinson, A Speechly	-
1.9	-	30/09/2013	Reviewed for HVO North Modification no. 3	G Gleeson, C New	-
2.0	-	17/12/2015	Major Revision. Change of format; approval of WML continuation (SSD6464), MTO 2014 (SSD-6456) Projects; Sale of BMC	G Gleeson, A Speechly	-
2.1	-	04/02/2016	Formatting and update following DP&E approval	G Gleeson, A Speechly	-
3.0	-	31/05/2017	Revision following modification to HVO North Consent	D Fenton, A Speechly	-
4.0	-		Revision following commencement of the Hunter Valley Operations JV	SLR, D Brown, A Speechly	08/01/2019
Draft 5.0	-	23/08/19	Revision to reflect transition towards GCAA Environment and Community protocols	T Brown, A Speechly	-
Draft 5.1	-	12/05/21	Update following DPE review	K Simkin, A Speechly	
Draft 5.2	-	21/03/22	Update following approval of Mod 6 of PA 06_0261.	K Simkin, A Speechly	-

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REGULATOR VERSION	HVO SHAREPOINT VERSION	DATE	CHANGE DETAILS	REVIEW TEAM	REGULATOR APPROVAL
Draft 5.3	-	18/11/22	Update following approval of Mod 7 of PA 06_0261.	B Hubert, A Speechly	-
6.0	-	27/07/2023	Update following approval of Mod 8 of PA 06_0261. Updates to reflect changes to GCAA HSEC standards	B Hubert, A Speechly	
6.0	6.0	08/08/2025	Update following approval of Mod 8 of DA 450-10-2003	B Hubert, B de Somer	26/08/2025

Note: Versions 1 to 3 were produced as a combined Coal & Allied strategy prior to the formation of the HVO JV.

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APPENDIX A: STATUTORY, LEGISLATIVE AND REGULATORY REQUIREMENTS

Condition	
Reference	Condition
PA 06_0261 Hunter Valley Operations	The Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Planning Secretary. This strategy must:
South Coal Consent Sch. 5 Cond. 1	 a. be submitted to the Planning Secretary for approval within 6 months of this consent or otherwise agreed by the Planning Secretary; b. provide the strategic context for environmental management of the development; c. identify the statutory requirements that apply to the development; d. describe the procedures that would be implemented to: keep the local community and relevant agencies informed about the operation and environmental performance of the development; receive, handle, respond to, and record complaints resolve any disputes that may arise during the course of the development; respond to any non-compliance; manage cumulative impacts; and respond to emergencies; e. include: references to any strategy, plans and programs approved under this consent; and a description of and clear plan depicting all environmental monitoring to be carried out under this consent; f. describe how the various incident and approval reporting requirements of the development would be integrated into a single reporting system; and describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development.
DA 450-10-2003 Hunter Valley Operations North Development Consent Sch. 5 Cond. 1	If the Secretary requires, the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Secretary, this strategy must; a. be submitted to the Secretary for approval within 6 months of the Secretary requiring preparation of the strategy by notice to the Applicant b. provide the strategic framework for environmental management of the development; c. identify the statutory approvals that apply to the development; d. describe the role, responsibility, authority, and accountability of all key personnel involved in environmental management of the development; e. describe the procedures that would be implemented to: o keep the local community and relevant agencies informed about the operation and environmental performance of the mine development; o receive, handle, respond to, and record complaints o resolve any disputes that may arise during the course of the development; o respond to any non-compliance; and o respond to emergencies; and f. Include: o copies of any strategies, plans and programs that are approved under the conditions of this consent; and o a clear plan depicting all the monitoring to be carried out under the conditions of this consent.

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The Applicant must implement any Environmental Management Strategy as approved from time to time by the Secretary.

Department:
Department of the Environment and Energy (DoEE)
NSW Resources Regulator (RR)
NSW Department of Planning, Housing and Infrastructure (DPHI)
NSW Department of Planning and Environment – Water Group
NSW Office of Environment and Heritage (OEH)
NSW Environmental Protection Authority (EPA)
NSW Resource Access Regulator (NRAR)
Singleton Shire Council

Legislation / Regulation	Description
Environmental Planning and Assessment Act 1979	Project and development approvals are granted by the Minister for Planning under the Environmental Planning and Assessment Act 1979. Approvals list the conditions associated with the development. Conditions include environmental management and monitoring requirements for the site.
Mining Act 1992	The Mining Act 1992 prohibits the carrying out of prospecting activities in NSW with the necessary authority. There are several types of authorities granted under this Act, namely the Exploration Licence (EL), the Assessment Lease (AL), Mining Purpose Lease (MPL) and Mining Lease (ML). The ML for an open cut coal mining operation is generally granted with conditions for 21 years and allows the holder to carry out operations in accordance with the site Rehabilitation Management Plan (RMP).
Protection of the Environment Operations Act 1997	The primary purpose of the Protection of the Environment Operations Act (POEO Act) is pollution prevention, waste management and minimisation, licencing of premises and activities with environmental risks and enforcement provisions following environmental offences.
	The POEO Act provides a licencing regime where the site is licenced by an Environmental Pollution Licence (EPL) issued by the EPA. HVO holds EPL640, which contains conditions for the environmental management of the operation.

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Legislation / Regulation	Description
Environmental Planning and Assessment Regulation2000	The Environmental Planning and Assessment Regulation 2000 provides further detail on the procedures for lodging and advertising project applications (Part 3A) and development applications, requirements for Local Environment Plans (LEPs) and DCPs, determination of development contributions to be paid by the proponent of a development, preparation of an Environmental Impact Study, timeframes for the completion of Development Application and major project application assessments, public participation in the planning and approval process and certification requirements for construction and occupation of new developments.
Heritage Act 1977	The Heritage Act specifies how items of State or Heritage significance area managed. An application for approval to carry out work on items listed under S57 is required and permits are required before disturbance of heritage items (S139).
National Parks and Wildlife Act 1974	The National Parks and Wildlife Act specifies that mining is not allowed in National Parks and the Minister's consent is required to mine in a State Conservation Area. A permit to disturb Aboriginal objects (S87) is a requirement under this Act. Under the Act, a Section 120 licence is required to harm protected fauna. A person must not destroy an Aboriginal object or place.
Threatened Species Conservation Act 1995	A licence is required to harm or pick threatened species, populations or endangered communities or damage habitat (Part 6). This may require the submission of a species impact statement (S95). A Biodiversity Offset Strategy may also be required to mitigate the possible impacts on threatened species.
Water Management Act 2000	Water licences are a requirement of this Act (Part 2) for surface and groundwater use and groundwater interception.
Environment Protection and Biodiversity Act 1999	Under the EPBC Act, approval of the Commonwealth Minister for the Environment Heritage Water and the Arts is required for any action that may have a significant impact on matters of national environmental significance. The relevant provision of this legislation related to the potential impacts on migratory species, threatened species, or ecological communities and water resources / triggers listed in the EPBC Act.
Road Act 1993	The Road Act contains requirements for upgrades to works on local roads including the requirement to obtain permission from the local Council, and Roads and Maritime Service.
Biodiversity Conservation Act 2016	

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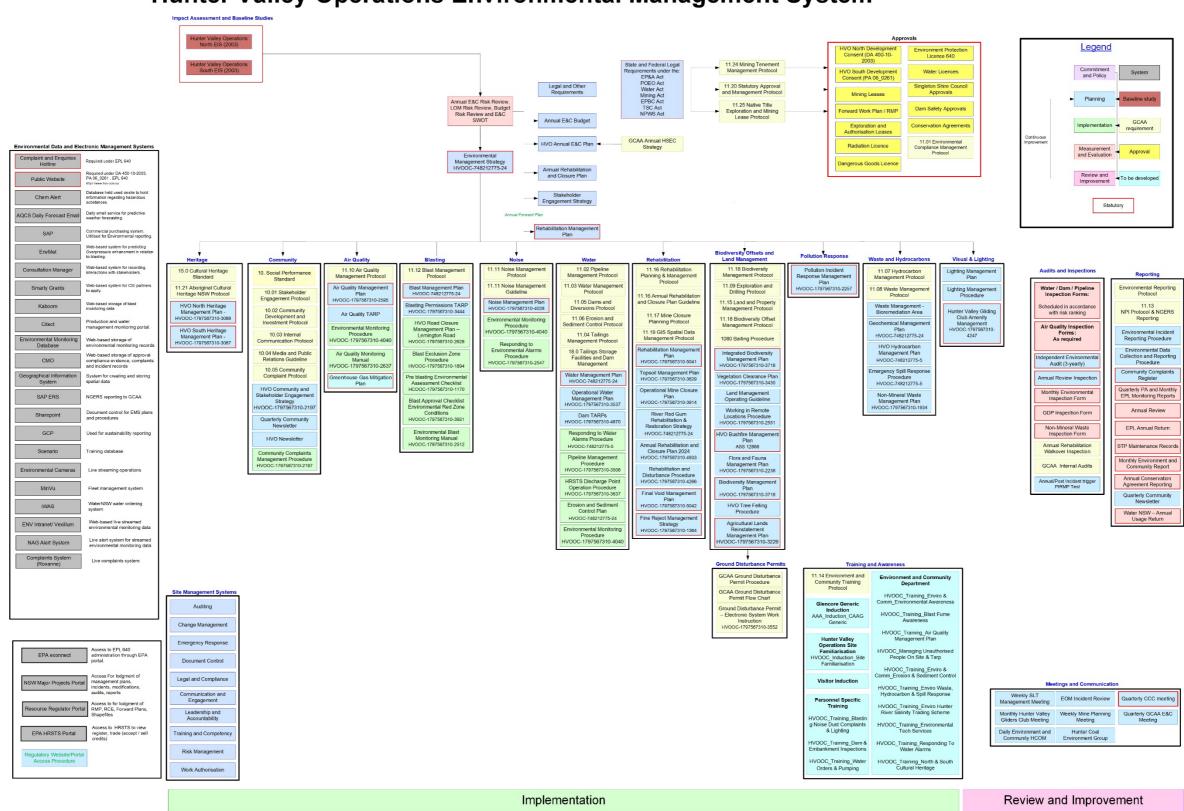
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APPENDIX B: HVO EMS DOCUMENTS

Version 1 - April 2025 Hunter Valley Operations Environmental Management System



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Effective Review:

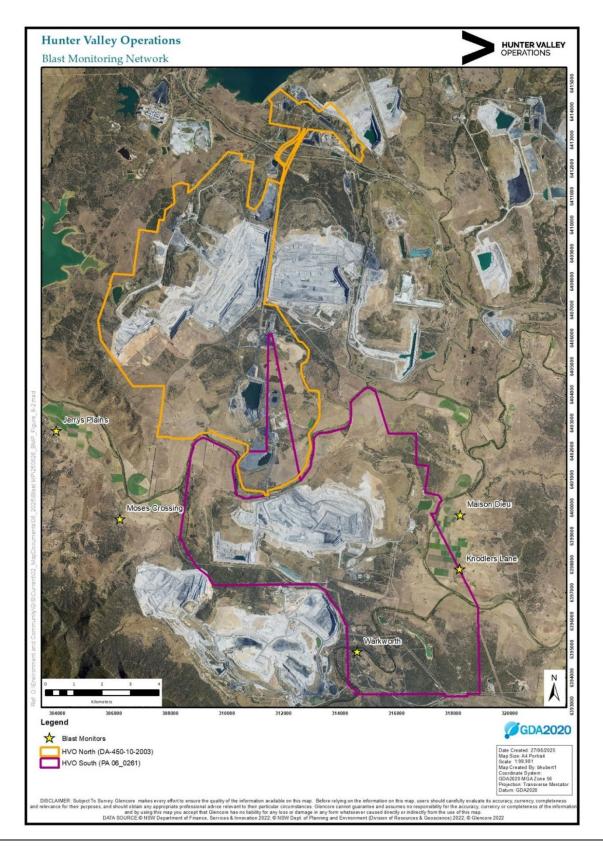
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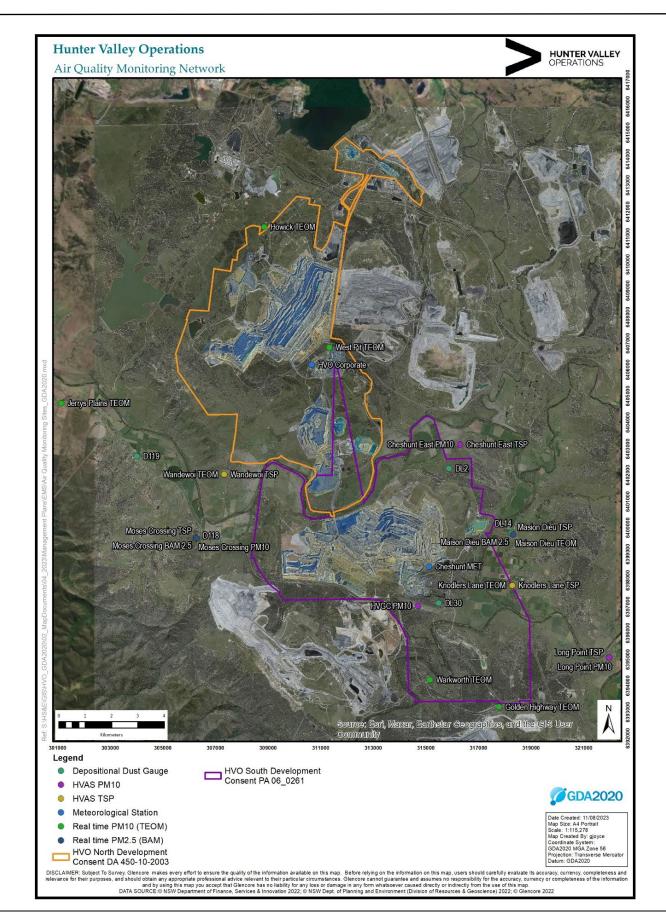
APPENDIX C: HVO MONITORING SITES



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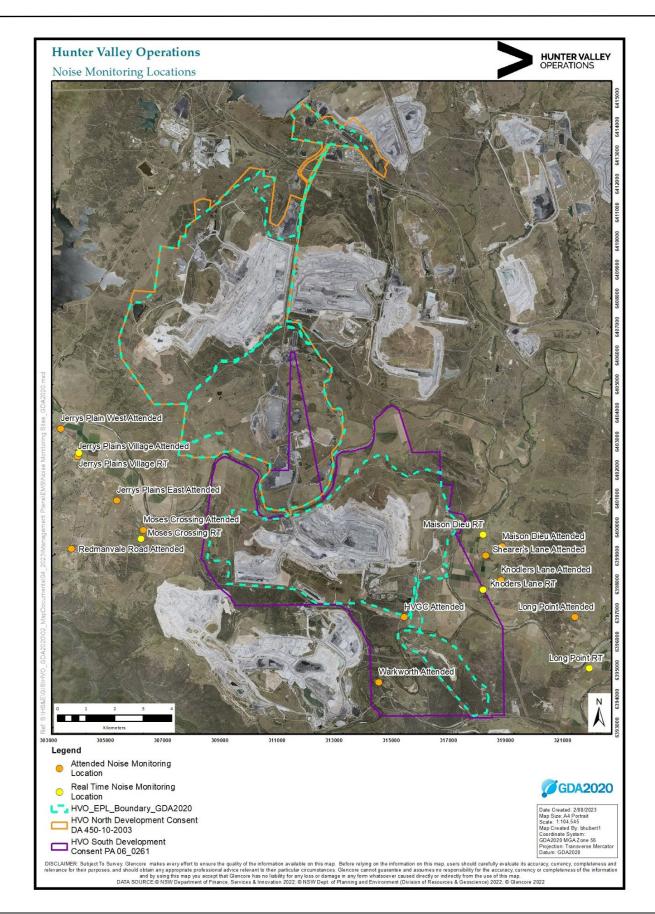
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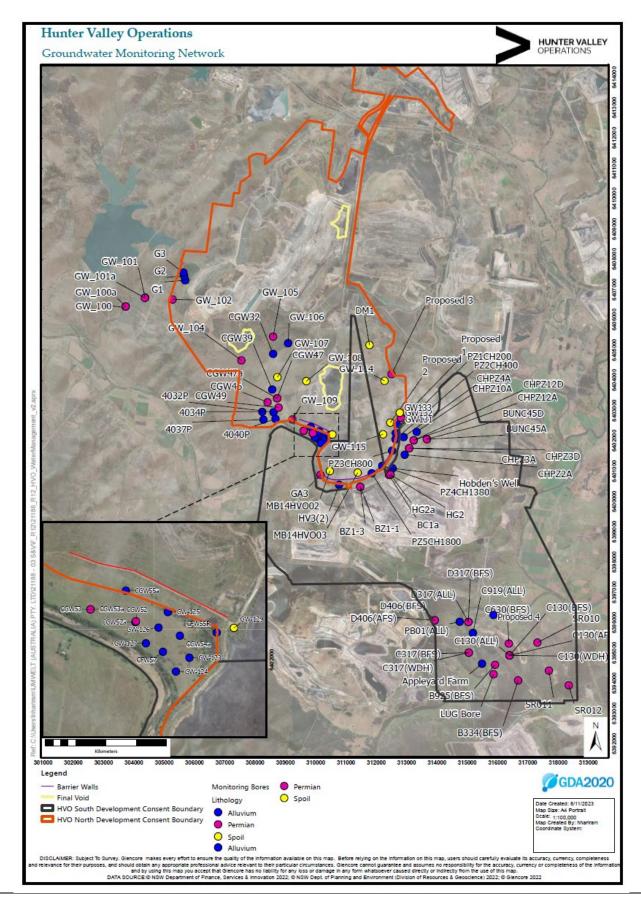
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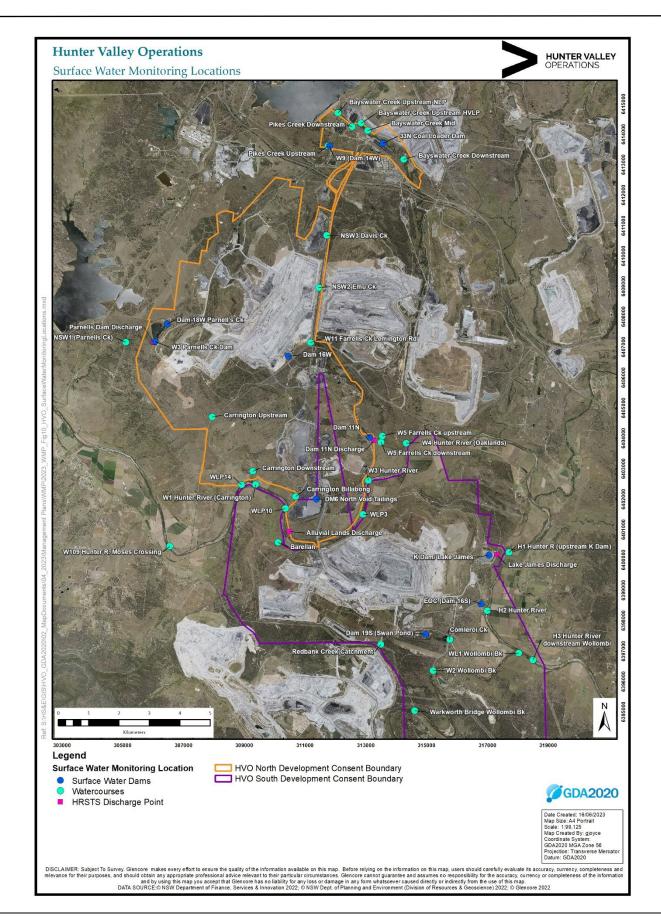


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APPENDIX D: HVO LICENCES, LEASES, CONSENTS AND OTHER APPROVALS

Table 10-1: HVO Consents

Approval Number	Description	Issue Date	Expiry Date
HVO North DA 450-10-2003 MOD 8	HVO West Pit Extension & Minor Modifications (2003); and associated modifications. Covers West Pit (approved production limit of 12mtpa), Carrington Pit (approved production limit of 10mtpa), HVCHPP (approved processing limit of 20mtpa) and WCHPP (approved processing limit of 6mtpa).	12/06/2004	31/12/2026
HVO South PA 06_0261 MOD 8	Hunter Valley Operations – South Coal Project & associated modifications Covers Riverview Pit, Cheshunt, Deep Cheshunt, and Lemington South, with a combined production limit of 16mtpa.	24/03/2009	24/03/2030
EPBC 2016/7640	Hunter Valley Operations – State approved mining Hunter Valley NSW	10/10/2016	31/12/2030

Table 10-2: Summary of Mining Tenements

Title	Authority Type	Titleholder	Purpose	Grant Date	Expiry Date	Status
AL 32 (1992)	Assessment Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Prospecting	04/11/2020	03/11/2026	Granted
AL 33 (1992)	Assessment Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Prospecting	04/11/2020	03/11/2026	Granted
AL 34 (1992)	Assessment Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Prospecting	04/11/2020	03/11/2026	Granted
AUTH 72 (1973)	Authorisation	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Prospecting	08/03/1977	08/03/2027	Granted
EL 5291 (1992)	Exploration Licence	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Prospecting	28/04/1997	28/04/2029	Granted
EL 5292 (1992)	Exploration Licence	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Prospecting	28/04/1997	27/04/2028	Granted
EL 5417 (1992)	Exploration Licence	Coal & Allied Operations Pty Ltd	Prospecting	23/12/1997	23/12/2027	Granted

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and Anotero Pty _imited Coal & Allied Exploration Operations Pty Ltd Granted EL 5418 (1992) Prospecting 23/12/1997 23/12/2028 icence and Anotero Pty imited Coal & Allied Exploration Operations Pty Ltd EL 5606 (1992) Prospecting 11/08/1999 11/08/2029 Granted icence and Anotero Pty _imited Coal & Allied Exploration Operations Pty Ltd EL 8175 (1992) Prospecting 23/09/2013 23/09/2026 Granted and Anotero Pty Limited Coal & Allied Exploration Operations Ptv Ltd EL 8821 (1992) Prospecting 13/02/2019 13/02/2031 Granted icence and Anotero Pty Limited Coal & Allied Prospecting (Part) CCL 708 Operations Ptv Ltd Sub lease and Mining 17/05/1990 15/04/2044 Granted (1973)and Anotero Pty Coal imited Coal & Allied Prospecting CCL 714 Consolidated Operations Ptv Ltd and Mining 23/05/1990 30/08/2030 Granted (1973)Coal Lease and Anotero Pty Coal imited Coal & Allied Prospecting CCL 755 Consolidated Operations Ptv Ltd and Mining 24/01/1990 05/03/2030 Granted (1973)Coal Lease and Anotero Pty Coal imited Coal & Allied Prospecting Operations Pty Ltd and Mining 06/03/1989 06/03/2031 Granted CL 327 (1973) Coal Lease and Anotero Pty Coal _imited Coal & Allied Prospecting Operations Pty Ltd and Mining 21/05/1990 21/05/2032 Granted CL 359 (1973) Coal Lease and Anotero Pty Coal _imited Coal & Allied Prospecting Operations Pty Ltd and Mining 29/05/1990 29/05/2032 Granted CL 360 (1973) Coal Lease and Anotero Pty Coal _imited Coal & Allied Prospecting Operations Pty Ltd and Mining 04/06/1992 Granted CL 398 (1973) Coal Lease 04/06/2034 and Anotero Pty Coal Limited Coal & Allied Prospecting Operations Pty Ltd and Mining 01/01/1982 CL 584 (1973) Coal Lease 31/12/2044 Granted and Anotero Pty Coal Limited Coal & Allied Prospecting Consolidated Operations Pty Ltd and Mining CML 4 (1992) 02/03/1993 03/06/2033 Granted Mining Lease and Anotero Pty Coal Limited Coal & Allied Prospecting ML 1324 Operations Ptv Ltd and Mining 19/08/1993 19/08/2035 Granted Mining Lease (1992)and Anotero Pty Coal _imited

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Coal & Allied Prospecting ML 1337 Operations Pty Ltd and Mining 01/02/1994 Mining Lease 01/02/2034 Granted (1992)and Anotero Pty Coal _imited Coal & Allied Prospecting ML 1359 Operations Pty Ltd Mining Lease and Mining 01/11/1994 1/11/2036 Granted and Anotero Pty (1992)Coal _imited Coal & Allied Prospecting ML 1406 Operations Pty Ltd and Mining 27/02/1997 10/02/2027 Granted Mining Lease (1992)and Anotero Pty Coal _imited Coal & Allied Prospecting ML 1428 Operations Pty Ltd and Mining 15/04/1998 14/04/2040 Granted Mining Lease and Anotero Pty (1992)Coal _imited Coal & Allied Prospecting ML 1465 Operations Pty Ltd 21/02/2000 21/02/2042 Mining Lease and Mining Granted and Anotero Pty (1992)Coal _imited Coal & Allied Prospecting Operations Pty Ltd ML 1474 and Mining 24/11/2000 23/11/2042 Mining Lease Granted and Anotero Pty (1992)Coal _imited Coal & Allied Operations Pty Ltd Prospecting ML 1482 and Mining Mining Lease 19/03/2001 19/03/2040 Granted and Anotero Pty (1992)Coal _imited Coal & Allied Prospecting ML 1500 Operations Pty Ltd Mining Lease and Mining 21/12/2001 20/12/2043 Granted and Anotero Pty (1992)Coal Limited Coal & Allied Prospecting ML 1526 Operations Pty Ltd Mining Lease and Mining 03/12/2002 02/12/2044 Granted and Anotero Pty (1992) Coal Limited Coal & Allied Prospecting ML 1560 Operations Pty Ltd 28/01/2005 Mining Lease and Mining 28/01/2046 Granted and Anotero Pty (1992)Coal Limited Coal & Allied Prospecting Operations Pty Ltd ML 1589 02/11/2006 01/11/2027 Mining Lease and Mining Granted and Anotero Pty (1992)Coal _imited Coal & Allied Prospecting ML 1622 Operations Pty Ltd Mining Lease and Mining 22/10/2010 10/03/2027 Granted and Anotero Pty (1992)Coal _imited Coal & Allied Prospecting ML 1634 Operations Pty Ltd Mining Lease and Mining 31/07/2009 31/07/2030 Granted and Anotero Pty (1992)Coal _imited Coal & Allied Prospecting ML 1682 Operations Pty Ltd and Mining 16/12/2012 Mining Lease 15/12/2033 Granted and Anotero Pty (1992)Coal imited ML 1704 Ancillary Mining Coal & Allied 05/12/2014 Mining Lease 05/12/2035 Granted Activities (1992) Operations Pty Ltd

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					<u> </u>
	and Anotero Pty Limited				
Mining Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Prospecting and Mining Coal	17/12/2014	17/12/2035	Granted
Mining Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Ancillary Mining Activities	09/12/2014	09/12/2035	Granted
Mining Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Prospecting and Mining Coal	09/12/2014	09/12/2035	Granted
Mining Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Prospecting and Mining Coal	22/12/2016	10/03/2027	Granted
Mining Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Ancillary Mining Activities	06/04/2016	06/04/2037	Granted
Mining Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Ancillary Mining Activities	06/04/2016	06/04/2037	Granted
Mining Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Ancillary Mining Activities	05/12/2016	04/12/2037	Granted
Mining Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Ancillary Mining Activities	19/04/2017	19/04/2038	Granted
Mining Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Ancillary Mining Activities	04/11/2020	04/11/2041	Granted
Mining Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Ancillary Mining Activities	04/11/2020	04/11/2041	Granted
Mining Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Ancillary Mining Activities	03/11/2022	03/11/2043	Granted
Mining Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Ancillary Mining Activities	3/11/2022	03/11/2043	Granted
Mining Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Ancillary Mining Activities	16/05/2023	16/05/2044	Granted
Mining Lease	Coal & Allied Operations Pty Ltd and Anotero Pty Limited	Ancillary Mining Activities	16/11/2023	16/11/2044	Granted
	Mining Lease Mining Lease	Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Mining Lease	Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd Ancillary Mining Activities Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Ancillary Mining Activities Ancillary Mining Activities	Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Coal & Allied Operations Pty Ltd and Ancetro Pty Limited Coal & Allied Operations Pty Ltd and Ancetro Pty Limited Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Ancillary Mining Activities 04/11/2020 Ancillary Mining Activities 3/11/2022 Ancillary Mining Activities 3/11/2022 Ancillary Mining Activities 16/05/2023 Ancillary Mining Activities 3/11/2022	Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Mining Lease Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Mining Lease Mining Lease Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Mining Lease Coal & Allied Operations Pty Ltd and Anotero Pty Limited Ancillary Mining Activities Ancillary Minin

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Coal & Allied Operations Pty Ltd Ancillary Mining Activities ML 1869 Mining Lease 15/12/2023 15/12/2044 Granted and Anotero Pty (1992)Limited Coal & Allied Operations Pty Ltd **Ancillary Mining** ML 1870 Activities Mining Lease 15/12/2023 15/12/2044 Granted (Mining (1992)and Anotero Pty Limited Purposes) Coal & Allied Operations Pty Ltd ML 1871 Ancillary Mining Mining Lease 15/12/2023 15/12/2044 Granted and Anotero Pty Activities (1992)imited

Table 10-3: HVO Licences and Permits

Type	Licence Number	Description	Authority	Expiry Date
Environment Protection Licence	EPL640	Environment Protection Licence	EPA	N/A
Licence to Store Explosives	XSTR200117	Licence to Store	SafeWork	02/05/2026
Radiation Licence	RML5085293	Radiation Management Licence	EPA	14/11/2025
Aboriginal Heritage Permit	C0001890	Care Agreement	NSW DCCEEW	03/06/2036
	C0002193	Aboriginal Heritage Impact Permit	NSW DCCEEW	06/12/2026
	5219	Aboriginal Heritage Impact Permit	NSW DCCEEW	12/06/2025
Road Closure Permit	2269820	Road Occupancy Licenses– Golden Highway	RMS	31/12/2024
	N/A	Road Closure Approval - Lemington Road	Singleton Council	30/06/2025

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APPENDIX E: EMS APPROVAL

Department of Planning, Housing and Infrastructure



Environment and Community Team HV Operations Pty Ltd 1011 Lemington Road Lemington, NSW, 2330

26/08/2025

Subject: Revised Environmental Management Strategy - HVO South (MP06_0261)

I refer to your submission dated 11 August 2025 requesting approval of the revised Environmental Management Strategy (Version 6.0, dated 19 August 2025) submitted to meet the requirements of Schedule 5, condition 1 of MP06 0261 and Schedule 5, condition 1 of DA450-10-2003.

The Department has carefully reviewed the document and is satisfied that it has been updated to reflect the 2024 Annual Review dated 31 March 2025 and the approval of HVO North Mod 8 granted 24 April 2025

The Department also notes that given the minor nature of the updates that consultation with public authorities listed in Schedule 5, condition 1 of MP06_0261 is not required, per Schedule 5, condition 1C of MP06_0261.

Accordingly, as nominee of the Planning Secretary, I approve the revised Environmental Management Strategy (Version 6.0, dated 19 August 2025) under Schedule 5, condition 1 of MP06_0261.

You are reminded that if there are any inconsistencies between the Plan and the conditions of approval, the conditions prevail. Please ensure you make the document publicly available on the project website at the earliest convenience.

If you wish to discuss the matter further, please contact Kiera Plumridge at kiera.plumridge@dpie.nsw.gov.au.

Yours sincerely,

Jack Turner

4 Parramatta Square, 12 Darcy Street, Parramatta NSW 2150

www.dphi.nsw.gov.au

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Locked Bag 5022, Parramatta NSW 2124

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