



Snowy Hydro Limited Colongra Power Station Operational Environmental Management Plan

Revision: G

Revision Date: May 2025

snowyhydro

Acknowledgement of Country

Snowy Hydro acknowledges the traditional custodians of the land where we stand on Darkinjung Country. We pay our respects to their Elders of the past, present and emerging for they have, are and will leave their footprints behind and continue to share their history, culture and traditions.

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Document Control

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Final	6 May 2025	Final for submission to DPHI	T Thompson	M Kinross R Williams	G Blanch

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Approved Revision	Approval Date	Description of Changes	Prepared	Checked	Approved
Original A	2 Nov 2009	OEMP developed by AECOM on behalf of Delta Electricity		N/A	N/A
B	21 Aug 2015	Update of OEMP after change in ownership of Colongra from Delta Electricity to Snowy Hydro	Ian Smith Environment Manager (Gas & Diesel)	John Foster (Lead Gas Turbine Officer)	John Barben Colongra Plant Manager
C	1 May 2019	Review and update of OEMP	Rachael Williams Senior Environment Advisor (Gas & Diesel)	Damian Cooper Colongra Plant Manager and David Bedding Production Technician - Engineering	Gary Blanch Gas and Diesels Area Manager
D	12 Dec 2019	Minor review and update of OEMP review process	Rachael Williams Senior Environment Advisor (Gas & Diesel)	Damian Cooper Colongra Plant Manager	Gary Blanch Gas and Diesels Area Manager
E	Oct 2022	Review and update of the OEMP. Inclusion of sensitive receivers table	Rachael Williams Snr Environment Advisor (Gas & Diesel)	Damian Cooper Colongra Plant Manager	Gary Blanch Gas and Diesels Area Manager
F	Jul 2023	Minor review and update of OEMP. Inclusion of training frequency requirements	Rachael Williams Snr Environment Advisor (Gas & Diesel)	Damian Cooper Colongra Plant Manager	Gary Blanch Gas and Diesels Area Manager
G	May 2025	Review and update of Rev F. Updates include formatting, inclusion of Acknowledgement of Country, updates to the Environmental policy, Organisation chart and Reporting/Notification requirements.	Trevor Thompson Snr Environment Advisor	Matthew Kinross Colongra Plant Manager Rachael Williams Snr Environment Advisor	Gary Blanch Area Manager Northern Gas and Diesels

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1.0 Introduction

This Operation Environmental Management Plan (OEMP) has been prepared for the Colongra Power Station (Colongra).

Colongra was approved under section 75B(1)(a) of the *Environmental Planning and Assessment Act 1979* as a Major Project. Condition 5.3 of the Project Approval (MP 05_0195 Mod 6) requires an Operational Environmental Management Plan to be prepared and implemented during operation of the project.

The purpose of the OEMP is to provide a reference document that ensures implementation of the environmental commitments, reporting, safeguards and mitigation measures specified in the Concept Approval, Project Approval, the EA Statement of Commitments, and Environment Protection Licence 13036 (EPL 13036).

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2.0 Overview

2.1 Location

Colongra is located on the Central Coast of NSW, adjacent to the now demolished Munmorah Power Station on the shores of Lake Munmorah, and within the Central Coast Council local government area. The location of Colongra is illustrated below in **Figure 2.1** and **Figure 2.2**.



Figure 2.1: Colongra Power Station Location Aerial View

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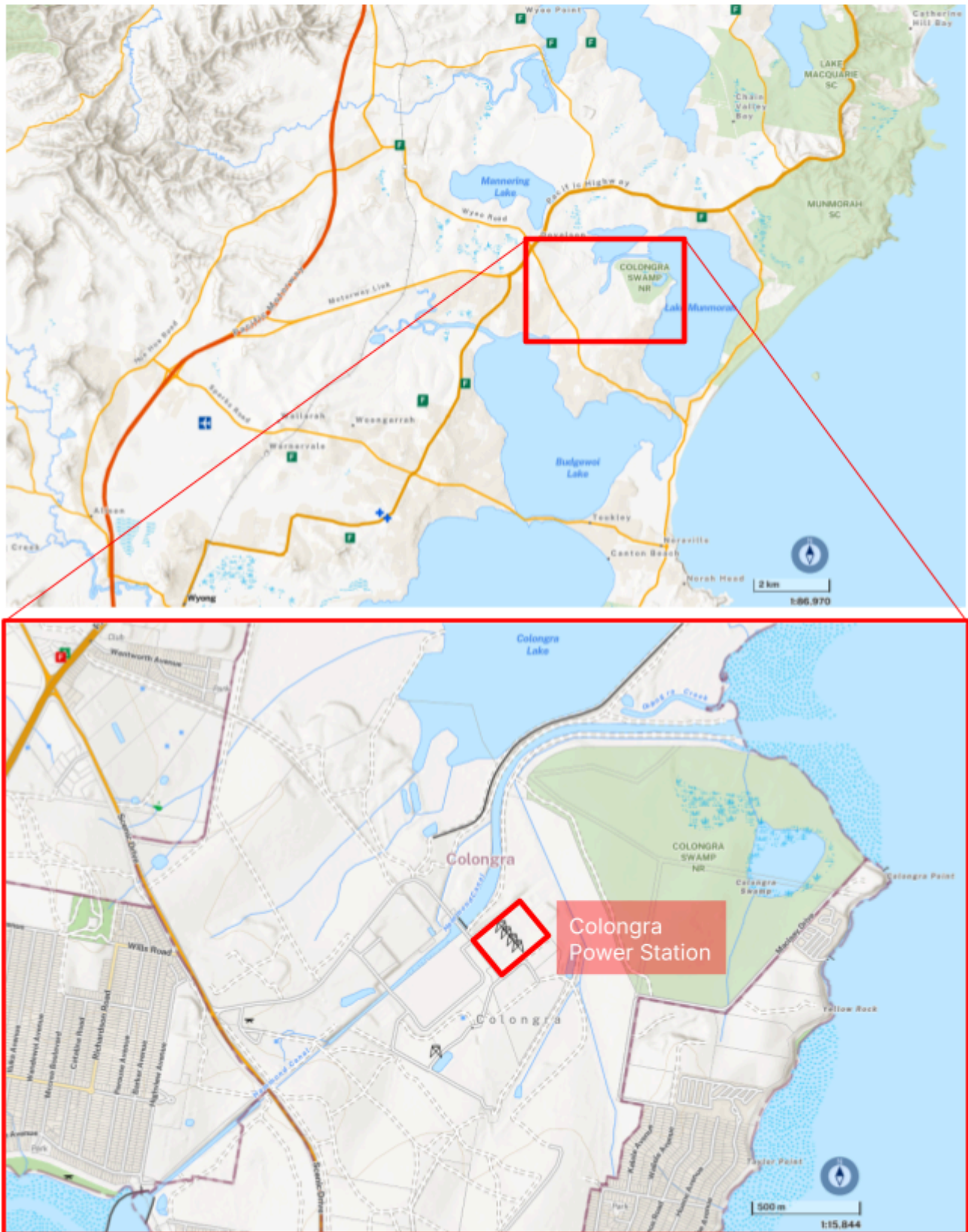


Figure 2.2: Colongra Power Station Location Schematic View

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2.2 Sensitive Receptors

Table 2.1 below provides a summary of the nearest sensitive receivers, their proximity to Colongra PS, and the impact pathways that may have the potential to impact on these locations.

Table 2.1: Summary of sensitive receiver locations and impact pathways

Description		Direction from Site	Distance from Site	Potential Impact/ Pathway
Nearest Hospital	Wyong Public Hospital	South west	3.3 km	Air Pollution
Nearest Residences	Suburb of Doyalson	North and North west	1.7 km	Air Pollution/Noise
	Suburb of Halekulani	East and South	920 m	Air Pollution/Noise
	Suburb of Buff Point	South	1.6 km	Air Pollution and Noise
	Suburb of San Remo	West	1.4 km	Air Pollution and Noise
Nearest School/Childcare Facility	Little Coast Kids Child Care Centre	South west	1.6 km	Air Pollution
Public Recreational/ access areas	Koala Park	West	900 m	Air Pollution and Noise
	Lake Munmorah	North east	1.3 km	Air Pollution and surface water due to (tidal influences)
	Colongra Swamp Nature Reserve	East	160 m	Air Pollution
Nearest Surface water	Inlet Canal - discharges to Budgewoi Lake and Lake Munmorah (tidal)	North west	11 m	Surface water pollution (discharge of stormwater and treated OWW)*
	Colongra Lake	North	900 m	Air Pollution
	Budgewoi Lake	South west	1.9 km	Surface water Pollution and Air Pollution
	Lake Munmorah	East	1.3 km	Air Pollution
Flora and Fauna	The site is covered by hardstand (buildings, concrete or bluemetal). Immediately adjacent to the Colongra PS is previously disturbed industrial land.			NA
	There are lakes and waterways in close proximity as well as parklands and the Colongra Swamp Nature Reserve. The Reserve hosts habitat for numerous endangered and threatened species, migratory shorebirds and Endangered Ecological Communities (EEC's)			Surface water Pollution and Air Pollution
Groundwater	Based on the EPA's classification map the site is considered to be located in a sensitive groundwater area due to the proximity of the surrounding lakes.			Surface water and Soil Contamination
Floodplain	The site is not located within a floodplain.			NA

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2.3 Operations

Colongra is an open cycle gas fired power station operating as a peaking plant, supplying electricity at short notice during periods of peak demand or system emergency situations. Colongra provides electricity:

- at relatively short notice during periods of peak demand.
- using best available emissions control technology and low greenhouse gas emissions.
- that is market-competitive and consistent with current trends and future energy demands; and
- while achieving socially acceptable environmental outcomes.

Colongra comprises four GT 13E2 gas turbines with a nominal combined output of 667 megawatts. The gas turbines are capable of running on natural gas (as the primary fuel) and diesel fuel as the back-up fuel, with marginally higher power output whilst running on diesel fuel. The facility also includes ancillary plant items, such as diesel fuel and demineralised water storages, a facilities building and fire fighting systems.

Natural gas is supplied to Colongra via an underground "lateral" pipeline connecting the power station to the Sydney–Newcastle pipeline, which is located approximately seven kilometres west of the power station, and adjacent to the M1 Pacific Motorway. The lateral pipeline is owned and operated by Jemena Gas Networks Pty Ltd (Jemena) with gas use metered by Jemena at the offtake supplying the lateral. Refer to **Appendix D** for the location of the lateral pipeline.

Demineralised water is used for water injection during diesel-fuel firing and offline compressor washing. Potable water is used for evaporative cooling for the gas turbine.

The basic components and structures at the power station are:

- four gas turbine buildings and exhaust stacks.
- electrical generating equipment and power supply cables.
- facilities building, storage and workshop buildings
- diesel fuel receival area, storage tank and delivery system.
- demineralised water production, storage and delivery system.
- lube oil supply systems (tanks, pumps and pipe work).
- fire detection, protection and fire fighting systems (detectors, fire main, fire water pumps and fire water storage tanks).
- oil / water separator system; and
- three emergency back-up diesel generators.

Appendix A and **Appendix B** show the key components and structures of Colongra with respect to environmental aspects.

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2.4 Environment Policy

Snowy Hydro's Environmental Policy is reviewed and updated regularly and can be found on the Snowy Hydro Environment Grid page and on the Corporate Governance page of the external Snowy Hydro website. The link to the external website is provided below.

<https://www.snowyhydro.com.au/about/corporate-governance/>

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3.0 Compliance Requirements Overview

The primary legislative requirements considered by this OEMP are those determined under;

- the *Environmental Planning & Assessment Act 1979* (EP&A Act) and delivered through the Project Approval and Concept Approval; and
- the *Protection of the Environment Operations Act 1997* (POEO Act) and delivered through EPL 13036.

The OEMP also addresses the Statement of Commitments contained within the Project's Environmental Assessment (EA) (refer Appendix C of the EA), and Submissions Report prepared by Parsons Brinckerhoff Australia Pty Ltd. It is noted that the obligations identified in these documents are primarily related to the construction period, or are managed by obligations under the Project Approval and/or EPL13036.

3.1 Project & Concept Approval Conditions

The Project Approval, history, and determinations by the NSW Department of Planning, Housing and Infrastructure (DPHI) can be accessed on the DPHI Major Projects Portal.

<https://www.planningportal.nsw.gov.au/major-projects/projects/colongra-power-station>

The Project was assessed as a Major Project under section 75B(1)(a) of the EP&A Act 1979 by the Minister for Planning, NSW Department of Planning and Infrastructure, and planning approval MP05_0195 was granted on 31 July 2006. A summary of the Approval conditions is set out in **Table 3.1**.

Table 3.1: Summary of Project & Concept Approval Conditions

Approval	Condition	Condition Category
PA	1.1 – 1.7	Terms of Approval, Limits of Approval
PA	1.8	Statutory Requirements
PA	1.9 – 1.13	Compliance
PA	2.1 – 2.3	Fuel Requirements and Limitations
PA	2.4 – 2.8	Air Quality Impacts
PA	2.9 – 2.13	Noise Impacts
PA	2.14 – 2.16	Soil and Water Impacts
PA	2.17	Water Cycle Management
PA	2.18 – 2.22	Waste Generation and Management

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Approval	Condition	Condition Category
PA	2.23 – 2.26	Hazards and Risk
PA	2.27 – 2.29	Traffic, Transport and Aviation Impacts
PA	3	Environmental Monitoring and Auditing
PA	4	Community Information, Consultation and Involvement
PA	5	Environmental Management of construction and operational phases
PA	6	Environmental Reporting (Incident & Statutory)
CA	4	Compliance Monitoring and Tracking
CA	5	Community Information, Consultation and Involvement

3.2 Project Approval Modifications

The Project Approval may be modified with approval from DPHI to change the conditions under which Colongra operates. Should a modification be required, the application should be developed in consultation with the Snowy Hydro Environment team, who will coordinate preparation of the application and supporting environmental assessments that may be required.

The original Project Approval and subsequent modifications to this approval can be found on the NSW Major Projects Portal

<https://www.planningportal.nsw.gov.au/major-projects/projects/colongra-power-station>

3.3 Environment Protection Licence 13036

EPL 13036, history of variations, and determinations by NSW EPA can be accessed on the EPA Public Register.

<http://www.epa.nsw.gov.au/prpoeoapp/>

EPL13036 for Colongra was issued on 22 Apr 2009 under the Protection of the Environment Operations Act for the scheduled activity of 'Generation of electrical power from gas'.

The annual reporting period for EPL13036 is aligned to the financial year, commencing on 1 July.

The licence may be varied to change the operational conditions in a similar way as the Project Approval can be modified. Importantly, the licence may not be inconsistent with the Project Approval, consequently a change to an operational condition is likely to involve both approval from DPHI and the EPA.

3.4 Legislative Requirements

A summary of legislative requirements relevant to the Project was determined as part of the Project Environmental Assessment. A review of relevant approval requirements for Colongra is provided in **Table 3.2**.

Table 3.2: Summary of Legislative Requirements

Legislation and Responsible Agency	Relevant Provisions	Licence / Approval Requirements
Environmental Planning & Assessment Act 1979 NSW Department of Planning and Environment (DPHI)	This Act provides the framework for environmental planning in NSW and includes provisions to ensure that proposals which have the potential to impact the environment are subject to detailed assessment.	Satisfy Concept Approval. Satisfy Project Approval. Satisfy Statement of Commitments. Concept and Project Approval received 31 July 2006.
Protection of the Environment Operations Act 1997 NSW EPA	This Act enforces licences and conditions formerly required under separate Acts relating to air, water and noise pollution and waste management with a single integrated licence.	Satisfy EPL 13036. As the Project is a scheduled activity, being an 'electricity generating works' that supplies more than 30 megawatts of electrical power, a licence is required covering both construction and operation. This is covered by EPL13036
Protection of the Environment Operations (General) Regulation 2022 NSW EPA	If a facility exceeds the thresholds for a listed National Pollutant Inventory (NPI) substance then the facility must report emissions of that substance to the NPI team within NSW EPA.	Annual NPI reporting dependent upon emissions and energy use thresholds. NPI reporting thresholds that the CPS facility is likely to exceed include annual combustion of over 400 tonnes of any fuel and storage of over 0.394ML of diesel. If any reporting threshold is exceeded, an annual NPI report must be submitted either online or in hard copy to the NPI team.

Legislation and Responsible Agency	Relevant Provisions	Licence / Approval Requirements
<p>National Greenhouse and Energy Reporting Act 2007 (Commonwealth)</p> <p>Clean Energy Regulator</p>	<p>Corporations that meet an National Greenhouse Energy Reporting (NGER) threshold must report their:</p> <ul style="list-style-type: none"> Greenhouse gas emissions Energy production Energy consumption and Other information specified under NGER legislation. 	<p>Annual NGER reporting required. Snowy Hydro Corporation is required to submit annual NGER reporting for all facilities.</p> <p>Greenhouse gas emissions in tonnes CO₂ equivalent will be calculated for Colongra Power Station in accordance with the National Greenhouse and Energy Reporting (Measurement) Determination 2008. Emissions are calculated primarily from mass of fuel combusted and energy used by the facility.</p>
<p>Electricity Supply Act 1995</p> <p>Division of Minerals and Energy within Industry & Investment NSW</p> <p>NSW Department of Water and Energy</p>	<p>This Act regulates network operations and electricity supply to establish a competitive retail market in electricity so as to promote efficient and environmentally responsible production.</p> <p>The Act confers powers to network operators to enable them to construct, operate, repair and maintain their electricity works.</p>	<p>A licence to supply electricity is required.</p> <p>Licence granted.</p> <p>Colongra Power Station is registered as a Generator of Electricity under the National Electricity Rules by the National Electricity Market Management Company. Registration is effective from and including 20 May 2009.</p>
<p>Pipelines Act 1967 and Pipeline Regulation 2005</p> <p>Division of Minerals and Energy within Industry & Investment NSW and EPA</p>	<p>This Act regulates pipeline construction, operation and maintenance of pipelines.</p>	<p>A licence to construct and operate a pipeline is required.</p> <p>Licence granted.</p> <p>Licence No. 33 was granted to Jemena by the Minister for Energy on 29 November 2007, and varied on 29 May 2008.</p>

3.5 Tracking compliance

A compliance register has been developed for the operational period of the project and is maintained in the Snowy Hydro Event Management system (Enablon). Within the CGS management system accountabilities are allocated for monitoring and implementing compliance obligations.

Compliance obligations including statutory reporting, and monitoring obligations identified in the Project and Concept Approvals, and EPL13036 are included in the Snowy Hydro Planning & Scheduling System Ellipse. The system is used to assign and track required activities at a site level, and includes environmental compliance related activities such as scheduled site inspections, maintenance of monitoring equipment, and annual stack emissions testing.

Changes in operations including changes to assets and their configuration are recorded in the Snowy Hydro Corporate Asset Change Management system (JIRA). The system provides notifications to the Water & Environment Group on a daily basis at the design review stage so that changes that may impact environmental compliance can be addressed.

Where non-compliances with statutory requirements are identified, these are recorded as incidents in the Snowy Hydro event management system, and tracked in that manner. Each incident is investigated as appropriate, with corrective actions identified, with implementation of actions monitored through to completion.

Specific aspects of the program used to provide oversight for compliance include:

- Compliance registers prepared are maintained by SHL and regularly reviewed by external consultants for NSW gas-fired power station legislative requirements.
- Snowy Hydro's compliance management system as a record of identified compliance obligations.
- Receipt of regular updates to legislation that may affect the compliance obligations.
- External auditing including independent environmental auditing as set out in the Project Approval, and external environmental management system audits as required by Snowy Hydro's ISO14001 system.
- Internal environmental audits of management plan aspects or system components
- Monthly review and publication of emissions to air data from the sites continuous emissions monitoring system (CEMs); and
- Reviews and updates of this OEMP.

Compliance is reported in the Annual Environmental Management Report to DPHI, and the Annual Return to the EPA.

Within Snowy Hydro, compliance is reported monthly to the operations executive committee and then to the Snowy Hydro Board. The reports to the operations executive include any identified non-compliances with operational environmental licences.

4.0 Environmental Management

4.1 Environmental Aspects, Impacts and Risk

An Aspects and Impacts Register is maintained for environmental aspects associated with gas and diesel operations at Snowy Hydro. Colongra is incorporated into the register which is maintained in the Snowy Hydro document management system (AO Docs). Each aspect is risk assessed and compared against other environmental aspects in order to identify the most significant environmental risk.

The Aspects and Impacts Register contains information regarding environmental aspects and their actual and potential impacts on the environment, operational controls which mitigate the potential impacts, a risk rating for each aspect, identification of significant environmental aspects based on risk ratings.

The Register is reviewed annually as well as following any significant change in management or maintenance that might create a new aspect or change a current risk rating. A review is also undertaken in response to a major non-conformance or complaint which identifies a new aspect or risk.

4.2 Environmental Management Responsibilities

During normal business hours Colongra is manned by a Plant Manager, Manager of Planning and Scheduling, nine Production Technicians, and an administrative support officer. The Plant Manager is responsible for the management and safe operation of Colongra Power Station.

The site is remotely operated from the Generation Operations (Gen Ops) in Cooma which provides remote monitoring of critical site alarms and conditions. Normal generation start and stop control will be provided by Gen Ops during and after normal business hours. Gen Ops will provide the necessary interaction between other network controllers, such as AEMO and Transgrid.

Should local support be required after hours, the site Production Technicians will be available on a rostered on-call basis. Environmental, Safety, Production and Engineering support will be provided by the relevant departments based in the Hunter/Central Coast, or Cooma as required.

The organisation chart for Colongra is set out in **Figure 4.1** and roles and responsibilities for environmental management summarised in **Table 4.1**.

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Table 4.1: Summary of Colongra Power Station Personnel Responsibilities

Title	Summary of Responsibilities
Colongra Plant Manager	<ul style="list-style-type: none"> • Overall responsibility for the environmental performance of Colongra Power Station, including compliance with environmental regulatory requirements. • Ensure environmental aspects and impacts are understood and associated risks are managed, and that adequate operational and management procedures are in place. • Ensuring appropriate levels of human, physical and financial resources are provided for environmental management of the site. • Ensuring that Colongra Power Station personnel and contractors are made aware of environmental management measures, and receive appropriate training. • Ensure all incidents (environmental, safety and quality) are reported and investigated, operational controls are amended as required, and communicate with regulatory agencies as required. • Proactively communicate environmental issues within Snowy Hydro.
Colongra Operator in Charge (OIC) and Gen Ops Controller	<ul style="list-style-type: none"> • Operate the gas turbine generators within the environmental limits and shut down the units if the environmental limits cannot be achieved. • Ensure all incidents (environmental, safety and quality) are reported and investigated, operational controls are amended as required, and communicate with regulatory agencies as required. • Proactively communicate environmental issues within Snowy Hydro.
Colongra Production Technicians	<ul style="list-style-type: none"> • Familiarisation with OEMP requirements and environmental compliance requirements applicable to Colongra. • Support reviews of environmental aspects and risks, and implementation of operational and management procedures. • Ensuring that all plant and equipment documentation, maintenance routines and maintenance records are adhered to and/or carried out. • Organising and maintaining materials transfer (e.g. waste, chemicals, bulk materials etc) to, from and around site. • Inspect and maintain plant and equipment in accordance with all relevant manuals, schedules, procedures and/or instructions, including that environmental controls are operating effectively. • Oversee the operation and maintenance of the Continuous Emission Monitoring System (CEMS), and provide reports from the system as required. • Responding to any environmental emergency and initiating action to limit or rectify any environmental impacts, including actions set out in the Colongra Power Station Emergency Response Handbook. • Report and investigate environmental incidents and complaints, and participate in investigations as required. • Notify the Environment team, Colongra Plant Manager of any suspected environmental incident, non-compliance or non-conformance.

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Title	Summary of Responsibilities
Environment Manager and Advisor	<ul style="list-style-type: none"> Review and update the OEMP and ensure environmental regulatory requirements, including monitoring, maintenance and recording requirements, are complied with and necessary reports and documents are prepared and submitted. Initiate and facilitate reviews of environmental aspects and risks, and development of operational and management procedures. Identifying, maintaining and communicating changes in regulatory requirements, and tracking compliance with those obligations. Communicating the results of environmental audits, investigations, and incidents, and undertaking internal environmental reporting and external communications. Development, scheduling and presentation of environmental training and awareness. Attend meetings and presentations with environmental regulators and community forums. Scheduling and participating in audits. Advise on incident reporting, management, lead investigations, and provide assurance of preventative and corrective actions.

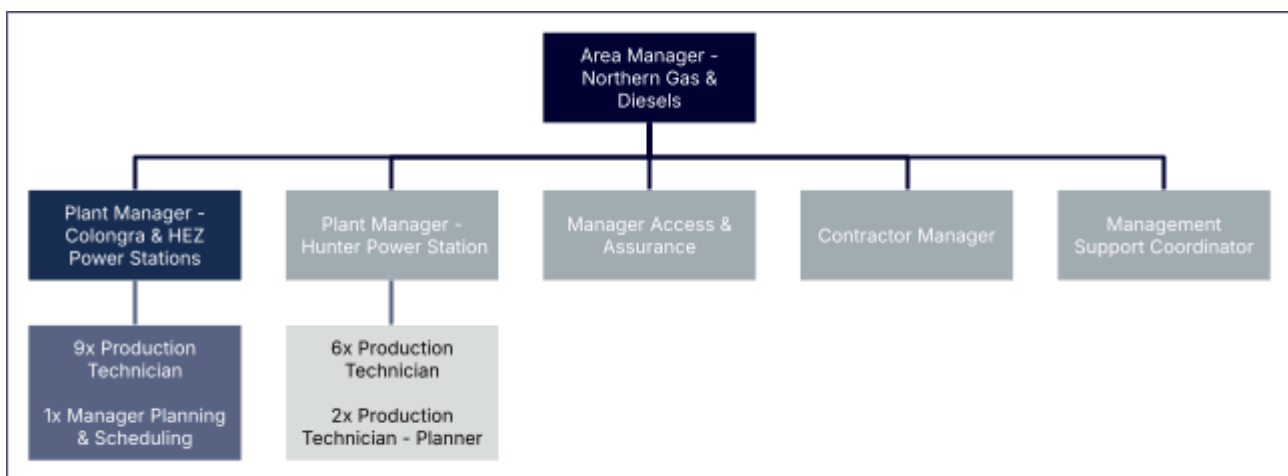


Figure 4.1: Organisation structure of Northern Gas & Diesels including Colongra

4.3 Reporting & Notification

4.3.1 Internal Incident Reporting

Environmental incidents at Colongra are managed in accordance with the Snowy Hydro procedure QP14-07 Incident Management Procedure, and classified in accordance with the Safety and Environment Incident Classification Matrix, which uses four categories to define the level of an incident's consequence. Incident management procedures are accessible on the Snowy Hydro Intranet, which provide guidance on internal notification and investigation requirements.

Any environmental incident or near hit including non-compliances and community complaints should be reported in the event management system and communicated to the Water & Environment Group.

4.3.2 Pollution Incident Threatening Material Harm

Response in the event of an incident threatening harm is set out in the Colongra Emergency Response Handbook (ERH). This should be referred to in that circumstance. The Pollution Incident Response Management Plan (PIRMP) referred to below is contained in the Snowy Hydro Emergency Response Handbook. A publicly available version of the PIRMP (internet based version) is also available on the Snowy Hydro website.

In the event of a pollution incident causing or threatening material harm to persons or the environment, Snowy Hydro will enact its emergency response plan as required under Environment Protection Licence 13036 which includes the PIRMP as required under the POEO Act 1997 and Regulations.

The incident causing or threatening harm is to be immediately notified to the following regulatory authorities in accordance with the POEO Act 1997 s148:

- NSW EPA
- Fire and Rescue NSW
- NSW Health (Central Coast Public Health Unit)
- Safework NSW
- ComCare
- Central Coast Council, and
- NSW Department of Planning, Housing and Infrastructure

As per Part 5.7 of the POEO Act 1997, harm to the environment is material if it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations). It does not include an incident or set of circumstances involving only the emission of noise.

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The ERH contains relevant contact details and the defined process used to notify the local community in the vicinity of Colongra, should they be potentially impacted by a pollution incident. The ERH is available on the Snowy Hydro Intranet page, and a public version of the PIRMP, as required under the POEO Act 1997, is accessible on the Snowy Hydro external website.

4.3.3 Statutory Environmental Reporting and Notifications

Table 4.2 below summarises the statutory reporting requirements specified in EPL13036, the Project Approval, and national emissions reporting requirements.

Table 4.2: Statutory Reporting and Notification Requirements Summary

Requirement	Reference	To	Timing
Environment Protection Licence 13036			
EPA Annual Return	EPL Condition R1	NSW EPA via e-connect portal	Reporting period defined as the financial year. Annually within 60 days of 30 June.
Notification of Environmental Harm	EPL Condition R2.1	NSW EPA via 131 555	The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.
	EPL Condition R2	NSW EPA via email to info@epa.nsw.gov.au.	The licensee must provide written details of the notification to the EPA within 7 days of the date on which they became aware of the incident.
Notification of Breach of an emission or concentration limit	EPL Condition R4.1	NSW EPA via email to info@epa.nsw.gov.au.	The licensee must notify the EPA of any exceedances of any emission or concentration limit included as a condition of this licence no later than 5 days after becoming aware of any exceedance.
	EPL Condition R4.2	NSW EPA via email to info@epa.nsw.gov.au.	Within 20 days of the notification made in accordance with condition R4.1 above, the licensee must provide a report to the EPA
Notification of Air Emissions Sampling	EPL Condition R4.3	NSW EPA via email to info@epa.nsw.gov.au.	Any periodic air emission sampling (stack testing) to be undertaken, to satisfy a monitoring condition of this licence must be notified to the EPA at least 7 days prior to the stack testing being carried out. If the licensee must delay the test due to unforeseen circumstances beyond the licensee's control, the EPA must be notified immediately of the delay at the email address provided above.

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Requirement	Reference	To	Timing
Notification of use of PEMS	EPL Condition M2.5	NSW EPA via 131 555	The licensee must notify the EPA of any PEMS data used in accordance with condition M2.3 within 7 days of the measurement. All use of PEMS must be fully detailed in the respective Annual Return for this licence.
State Significant Development (SSD) Consolidated Project Approval MP05_0195			
Annual Environmental Management Report	PA Condition 6.3	NSW DPPI via Major Projects Portal	Within 12 months of commencement of operation and annually thereafter. The annual reporting period since the transfer of ownership to Snowy Hydro is defined by 30th January, with the report submitted to DPPI in the two months following.
Independent Hazard Audit Report	PA Condition 3.7	NSW DPPI via Major Projects Portal	Within 12 months of commencement of operation and every three years thereafter.
Independent Environmental Audit Report	PA Condition 3.8	NSW DPPI via Major Projects Portal	Within 12 months of commencement of operation and every three years thereafter.
Notification of an Incident	PA Condition 6.1	NSW DPPI via Major Projects Portal	Immediately after the Proponent becomes aware of an incident.
Notification of non-compliance of an approval condition	PA Condition 6.2	NSW DPPI via Major Projects Portal	Within seven days after the Proponent becomes aware of any non-compliance.
National emissions reporting			
National Pollutant Inventory (NPI) Report	POEO (General) Regulation 2022 (NSW) National Environment Protection (National Pollutant Inventory) Measure 1998 (Cth)	Department of Climate Change, Energy, the Environment and Water.	Annually prior to 30 September otherwise determined with the NSW EPA. Note: this was changed from a due date of 31 March in 2022 to align with NPI reporting at other SHL sites.
National Greenhouse and Energy Reporting Report	<i>National Greenhouse and Energy Reporting Act 2007</i>	Department of Climate Change, Energy, the Environment and Water.	Annually prior to 31 October. Registration must be completed by 31 August for the year that an emissions threshold is tripped.

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Requirement	Reference	To	Timing
Mandatory Climate/Sustainability Reporting			
Mandatory Climate Related Disclosures	<i>Corporations Act 2001 (Cth) As amended by Treasury Laws Amendment (Financial Market Infrastructure and Other Measures) Bill 2024</i>	Australian Securities and Investments Commission (ASIC)	Annually for the financial year commencing 1 July 2025

4.4 Training

Training at Snowy Hydro is developed in accordance with the procedure QP 18-01 Training and Development, and is administered in the company's Learning Management System (LMS) which maintains training requirements for individuals and completion records of training attended.

Personnel working at Colongra receive training relevant to their role and the required skills to fulfil their role in a competent manner. Environmental related training and awareness packages are described in **Table 4.3**.

Table 4.3: Environmental Training

Training	Description	Frequency
Environmental Induction	All employees and contractors are required to complete the Snowy Hydro environmental induction.	3 yearly
Site Awareness Induction	All employees and contractors are required to complete the Site Induction before duties can be taken up. The Awareness Induction includes a site specific Environment section.	3 yearly (employees) Annually (contractors)
Safety Induction and Operational Risk Training	All employees are trained through a three stage program beginning with behavioural safety, application of operational risk processes, and incident management.	3 yearly (Safety Induction) and as required
Environmental Compliance Training	Outlines compliance obligations at Colongra for all personnel at site, the nature of the obligations and personnels' duties with regard to compliance.	3-5 yearly/as required
Incident investigation training	Selected employees responsible for leading incident investigations are trained in the Incident Cause & Analysis Method (ICAM) of incident investigation.	As Required
Spill Prevention and Response Training	All employees are required to complete the course to ensure an understanding of basic spill prevention and how to respond if they encounter a spill. As well as educating them on the company's and their individual responsibilities.	3 yearly
Site Pollution Response Training	The Pollution Incident Response Management Plan (PIRMP) is tested annually providing an exercise and training in the practices under that plan as described in the Colongra ERH.	Annually
Specialised Environmental training	Specific issues and activities may require further training or briefings, for example in the use of specific spill kits, notification requirements to regulators in the event of an incident.	As Required
Environmental Standards Handbook	Provides environmental awareness guidelines and setting of expectations around the standards expected at Snowy Hydro sites.	NA - Available to all employees on the Grid
Environmental Toolbox Presentations	Provide targeted environmental awareness presentations for specific environmental aspects at Snowy Hydro sites.	NA - Available to all employees on the Grid

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4.5 Environmental Management Plans

The following environmental issues are considered to warrant specific management actions for the operation of Colongra. These issues have specific regulatory requirements (contained in the Project Approval or Environmental Protection Licence 13036), are considered to have the highest potential to result in a non-compliance with a legislative requirement or generate community complaints, and/or have been identified as the most significant environmental aspect.

The following management plans provide further detail and are set out in the following sections.

- Air Quality Management Plan
- Water Management Plan
- Noise Management Plan
- Waste Management and Re-use Plan; and
- Fuel Use Management Plan.

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4.5.1 Air Quality Management Plan

Under the POEO (Clean Air) Regulation 2022, the site is classed as a scheduled premises (for which an EPL is required). The operation of the plant is classed as Group C, and the activity (electricity generation) is referred to in Schedule 2.

The prescribed standards of concentration for emissions to air that are applicable to the site under the POEO Act are those listed in Schedule 2, Part 2, Division 1 for Group 6.

AIR QUALITY MANAGEMENT PLAN																																													
Objectives	To ensure emissions are within the air quality limits contained in the DPHI Project Approval and EPA Environment Protection Licence.																																												
Statutory Requirements	Protection of the Environment Operations Act 1997 and Regulations. Protection of the Environment Operations (Clean Air) Regulations 2022. Environmental Planning & Assessment Act 1979 and Regulations. Project Approval Environmental Protection Licence 13606.																																												
Performance Criteria	EPL13036 and Project Approval emissions limits Monitoring specified in EPL13036 and Project Approval																																												
Sources	Emissions stacks, identified in Appendix A																																												
Major Components and Quantities	The following provide indicative emissions characteristics as reported in commissioning emission testing (Worswick 2009) <table border="1"> <thead> <tr> <th rowspan="2">Parameter</th><th rowspan="2">Units</th><th colspan="4">Emissions per unit</th></tr> <tr> <th>Gas fired – 100% load</th><th>Gas fired – 65% load</th><th>Diesel fired – 100% load</th><th>Diesel fired – 65% load</th></tr> </thead> <tbody> <tr> <td>No. units operating</td><td>-</td><td>4</td><td>4</td><td>4</td><td>4</td></tr> <tr> <td>Fuel</td><td>-</td><td>Gas</td><td>Gas</td><td>Diesel</td><td>Diesel</td></tr> <tr> <td>Exit Velocity</td><td>m.s⁻¹</td><td>35.75</td><td>26.67</td><td>37.09</td><td>28.23</td></tr> <tr> <td>NO_x (as NO₂)</td><td>mg.Nm⁻³</td><td>34.1</td><td>27.5</td><td>68.3</td><td>81.7</td></tr> <tr> <td>PM₁₀</td><td>mg.Nm⁻³</td><td>-</td><td>-</td><td>5.1</td><td>6.9</td></tr> </tbody> </table>					Parameter	Units	Emissions per unit				Gas fired – 100% load	Gas fired – 65% load	Diesel fired – 100% load	Diesel fired – 65% load	No. units operating	-	4	4	4	4	Fuel	-	Gas	Gas	Diesel	Diesel	Exit Velocity	m.s ⁻¹	35.75	26.67	37.09	28.23	NO _x (as NO ₂)	mg.Nm ⁻³	34.1	27.5	68.3	81.7	PM ₁₀	mg.Nm ⁻³	-	-	5.1	6.9
Parameter	Units	Emissions per unit																																											
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AIR QUALITY MANAGEMENT PLAN	
Mitigation Measures	<p>Design & Commissioning</p> <ul style="list-style-type: none"> The gas turbine facility has been modelled and designed so as to ensure stack emissions and air quality falls within the regulatory levels. The height of the stacks (35 metres), and the high temperature and vertical velocity of the plume leaving each stack (more than 500 degrees Celsius and approximately 40 metres per second respectively) ensure the emissions leaving each stack rise vertically high above the facility in a matter of seconds increasing dispersion of emissions. The Manufacturers Commissioning Engineers complete the testing and tuning program on the turbines before operational handover to ensure efficient operation of plant. Former construction areas are rehabilitated to minimise fugitive dust emissions. All roads on site are sealed. <p>Operational Controls</p> <ul style="list-style-type: none"> The turbine features an annular combustion chamber with low nitrogen oxides (NO_x) EV burners, which keeps NO_x emissions from the turbine within regulatory requirements. Original Equipment Manufacturers and Production Operating Procedures. Operating Instructions requiring minimum MW output point and emissions controls function. <ul style="list-style-type: none"> OIC 1.1- Operation of Colongra from Gen Ops. Real time alarming and trending of key parameters (ie NO_x levels, MW and demineralised water flow) to ensure environmental limits are met. <p>Management Controls</p> <ul style="list-style-type: none"> Monthly review continuous emissions monitoring system (CEMS) data. The employment of suitably qualified personnel; and Appropriate training and demonstrated Operations Staff competence.
Monitoring	<p>Design & Commissioning</p> <p>During commissioning, emissions were verified against emission estimates used to produce the modelled predictions and assessment of potential impacts upon which the project was approved.</p> <p>Post Commissioning Monitoring</p> <p>Each of the four exhaust stacks has been fitted with in-stack monitoring equipment as part of a CEMS, that meets the requirements in the Project Approval and EPL.</p>

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AIR QUALITY MANAGEMENT PLAN

In stack monitoring of emissions is undertaken at two frequencies:

- On a continuous basis for oxides of nitrogen.
- Annually for parameters listed in the following table.

Pollutant / parameter	Units	Method
Nitrogen dioxide (NO ₂) or nitric oxide(NO), or both (as NO ₂)	mg.m ⁻³	CEM-2
Velocity	m.s ⁻¹	TM-2
Volumetric flow rate	m ³ .s ⁻¹	TM-2
Temperature	°C	TM-2
Moisture content in stack gases	%	TM-22
Dry gas density	kg.m ⁻³	TM-23
Molecular weight of stack gases	g.gmol ⁻¹	TM-23
Carbon dioxide	%	TM-24
Oxygen	%	TM-25

Maintenance

- Turbine equipment is performance tested, tuned and emission guarantees confirmed during the projects commissioning phase to ensure that the manufacturer's standard has been delivered.
- All equipment is maintained according to Plant Operating, Maintenance and Calibration Manuals, Procedures & Schedules (held onsite).
- Maintenance activities are scheduled and tracked via the Ellipse management system and through Strategic Asset Management reviews.

Responsible Persons

Colongra Plant Manager / Colongra Production Technicians/ Environmental Advisor.

Reporting

- Site personnel report internal incidents in the incident management database in the event of a non-compliance with environmental requirements.
- The Environment advisor publishes a summary of monthly emissions monitoring on the Snowy Hydro Internet site.
- Non-compliances are reported through the Snowy Hydro Operational Executive Committee; and
- Compliance and monitoring results are reported to NSW Planning and NSW EPA in the respective annual performance reports.

Corrective Actions

Stack Emissions – Contingency Plan

If emission limits are exceeded during plant operation the following will occur:

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AIR QUALITY MANAGEMENT PLAN

- Controllers will follow the Operating Instruction (OIC1.1- Operation of Colongra from Gen Ops) and response in the event of an emissions exceedance in conjunction with Colongra personnel.
- The Production Technicians will initially follow the manufacturer's operating manual. This will allow operators to fault find plant issues to bring the Unit(s) back within specification. The Production Technicians will be trained in the use of the operating manual.
- At the completion of working through the manufacturer's operating manual, if high emission levels are still being experienced, the Production Technicians will be required to determine if the high emission level is an actual plant fault or a fault in the CEMS.
- If the fault is a plant fault then the Unit(s) will be shut down immediately and professional assistance will be sought to undertake the required work to bring the Unit(s) back within emission specification; and
- If the fault is a CEMS fault, the operator will seek to verify if the Unit(s) is running within emissions limits. This might be done with a combination of previous NOx data, fuel use rates, confirmation of dry low NOx operation, or utilising gross NOx data if the fault is after the physical emissions measurement and is related to correction or software. This is as per the EPA Guidelines on Publishing Monitoring Data which provide for short periods of instrument breakdown to be considered in the same way as instrument downtime.
- Colongra also has an EPA approved predictive emissions modelling system (PEMS). The PEMS is to be utilised in instances where a CEMS fault has occurred but based on operational parameters (as described above) and the Units being within model parameters the emissions are determined to be within the EPL limits.
- It is noted that any use of the PEMS must be notified to the Environment team as soon as practicable and to the EPA within 7 days.

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4.5.2 Water Management Plan

WATER MANAGEMENT PLAN													
Objectives	<p>To ensure the design of stormwater and process water works are appropriate and maintained during operations.</p> <p>To minimise the risk of contamination of surface water, groundwater and stormwater through leaks or spills of chemicals / polluting substances.</p>												
Statutory Requirements	<p>Project Approval and EPL13036</p> <p><i>Protection of the Environment Operations Act 1997</i> and Regulations.</p> <p><i>Environmental Planning & Assessment Act 1979</i> and Regulations.</p> <p>Environmental Protection Licence 13606.</p>												
Performance Criteria	Compliance with Environmental Protection Licence 13036												
Sources	<p>Criteria used to identify areas as clean or dirty comprise the following:</p> <ul style="list-style-type: none"> • Areas where hazardous materials are used/stored • Areas where spills of chemicals / polluting substances can occur due to unloading activities • Areas where pollutants are treated <table border="1"> <thead> <tr> <th>Source</th><th>Expected volumes</th></tr> </thead> <tbody> <tr> <td>Stormwater – oil silt trap</td><td>Designed to treat rainwater flow equivalent to 1 month Average Recurrence Interval (ARI) rainfall event</td></tr> <tr> <td>Stormwater – oily waste discharge pipe</td><td>Designed to 50 year ARI</td></tr> <tr> <td>Stormwater – oily pit</td><td>230 m³</td></tr> <tr> <td>Oil / water separator</td><td>Separator designed to treat oily waste at 72m³ / hr</td></tr> <tr> <td>Sewage</td><td>Sewage is contained in an onsite tank and pumped out and trucked away for disposal.</td></tr> </tbody> </table> <p>Appendix C illustrates the sources of both clean and dirty waste water areas on-site, and drainage systems.</p> <p>Water balance Colongra requires demineralised water, predominantly for nitrogen oxide (NO_x) suppression during periods when the facility is required to operate using diesel fuel. Demineralised water is also required for offline compressor washing. Potable water is used for air intake evaporative cooling. The breakdown of water consumption for the Colongra gas turbine facility is provided in the following tables based on data from the EA (Parsons Brinckerhoff 2005).</p>	Source	Expected volumes	Stormwater – oil silt trap	Designed to treat rainwater flow equivalent to 1 month Average Recurrence Interval (ARI) rainfall event	Stormwater – oily waste discharge pipe	Designed to 50 year ARI	Stormwater – oily pit	230 m ³	Oil / water separator	Separator designed to treat oily waste at 72m ³ / hr	Sewage	Sewage is contained in an onsite tank and pumped out and trucked away for disposal.
Source	Expected volumes												
Stormwater – oil silt trap	Designed to treat rainwater flow equivalent to 1 month Average Recurrence Interval (ARI) rainfall event												
Stormwater – oily waste discharge pipe	Designed to 50 year ARI												
Stormwater – oily pit	230 m ³												
Oil / water separator	Separator designed to treat oily waste at 72m ³ / hr												
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WATER MANAGEMENT PLAN

Potable Water Consumption Breakdown

Purpose	Units	Natural Gas Firing Mode(1)	Diesel Fuel Firing Mode
Evaporative cooling	Megalitres per year	5.6 (2) 6.5 (3)	0.98(4)

Notes:

- 1 Assuming evaporative cooling water is used 10% of runtime (11kg/sec per unit at full load = 67ML)
- 2 Calculated based on gas turbine facility operating 425 hours per year using natural gas
- 3 Calculated based on gas turbine facility operating 500 hours per year using natural gas
- 4 Calculated based on gas turbine facility operating 75 hours per year using diesel fuel

Demineralised Water Consumption Breakdown

Purpose	Units	Natural Gas Firing Mode	Diesel Fuel Firing Mode(1)
Water injection for NO _x suppression during diesel-fuel firing mode	Megalitres per year	0.0	12.0
Gas compressor washing	Megalitres per year	0.012	0.012

Note: Calculated based on gas turbine facility operating 75 hours per year using diesel fuel. Ratio of demineralised water to diesel fuel = 0.97 at full load. This results in 10.4 litres/sec per unit at full load

It should be noted that expected operating hours are less than 100 per year using natural gas and minimal hours using diesel, which would result in far lower actual water consumption than shown in the above table.

Mitigation Measures

Wastewater treatment

- Stormwater is treated in an oil/silt trap to prevent oil discharge to the environment. Stormwater then exits the site via TP6 through Generator Property Management (GPM) land, and then to the Munmorah Power Station outlet canal.
- Water from dirty water areas is sent to the oil/water separator before being discharged via TP6.
- Water used for gas turbine offline washing is collected in a pit prior to being pumped out for licence disposal offsite.

Oil / Chemical Spill Control

- The diesel storage tank and entire facility are contained within bunded areas.
- The volume of diesel in the diesel tank is managed to ensure the bund capacity is 110% of the maximum stored volume of diesel.
- The site has a dedicated oil/chemical store with internal bunding and is fully enclosed.

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WATER MANAGEMENT PLAN	
	<ul style="list-style-type: none"> All areas within the gas turbine enclosure drain to the oil/water separator collection pit. A oil/water collection pit and an oil/water separator have been installed on-site to collect and treat all stormwater/spills from: <ul style="list-style-type: none"> Fuel Oil Storage Tank area Fuel Oil Unloading area Transformers area Gas turbine floor drain; and Gas Turbine enclosure drain. Site personnel are trained in appropriate spill response strategies and spill kit using the Colongra Emergency Response Handbook (available on the Intranet). Spill kits are available on site to clean up spills and leaks, and located at areas where hazardous materials are stored or handled. Oil water separator is operated as per manufacturer's guidelines. Hydrogen Peroxide (H_2O_2) will be dosed in summer months when the evaporative coolers are in service as the evaporative cooler biocide. It is not considered to be a risk for water discharge due to the distance between the dosing point and the oily water separator pit. H_2O_2 would be consumed in the evaporator cooling holding tank and in the connecting pipework between the tank and oily water pit. H_2O_2 rapidly breaks down into water and oxygen with little or no residual product. Sodium nitrite and Sodium metaborate are used as the biocide for the closed cooling water system which is not released unless drained for maintenance. The drainage line runs to the waste water pit for containment, and is then pumped out for correct disposal off-site; and Cooling water that may spill into the stormwater system is treated in the same way as contaminated water via the oil/silt trap.
Monitoring	<ul style="list-style-type: none"> The Colongra EPL and the Project Approval do not specify water discharge monitoring. In the event of any uncontrolled surface water discharge from the site, the discharge will be monitored should there be concerns in relation to water quality. Depending upon the source of the water, parameters to be monitored might include, pH, Total Dissolved Solids, Suspended Solids, Dissolved Oxygen, Heavy Metals, Trace Elements and Total Oil and Grease. Six monthly sampling of discharge from the oily water separator pit is undertaken for physical parameters, and oil and grease.
Responsible Person	Colongra Plant Manager / Colongra Production Technicians / Environmental Advisor
Reporting	<ul style="list-style-type: none"> Incident reporting will be undertaken as set out in the Snowy Hydro Incident Management procedure. Should notification to the EPA or regulatory authorities be required, the Environment Manager shall be responsible for making the notification and any subsequent reports.

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4.5.3 Noise Management Plan

NOISE MANAGEMENT PLAN				
Objectives	To minimise noise impacts on the surrounding community from the power station’s operations.			
Statutory Requirements	Project Approval and Environment Protection Licence. <i>Protection of the Environment Operations Act 1997</i> and Regulations. <i>Protection of the Environment Operations (Noise Control) Regulations 2017</i> . <i>Environmental Planning & Assessment Act 1979</i> and Regulations.			
Performance Criteria	Compliance with Environmental Protection Licence 13606, Project Approval, and NSW Industrial Noise Policy.			
Sources	Noise sources associated with the Colongra gas turbines include: <ul style="list-style-type: none">• air intake• turbine/generator noise radiated from the enclosure• duct noise from the exhaust stack; and• intermittent noise is also created by each units' blowdown vent during unit shutdown.			
Operational Noise Level Criteria	The table below summarises the relevant operational noise level criteria for locations identified on EPL13036.			
	Receiver location	Day (7:00am to 6:00pm Mondays to Saturdays and 8:00am to 6:00pm Sundays and Public Holidays)	Evening (6:00pm to 10:00pm on any day)	Night (10:00pm to 7:00am Mondays to Saturdays and 10:00pm to 8:00am Sundays and Public Holidays)
		L _{Aeq, 15min} (dBA)	L _{Aeq, 15min} (dBA)	L _{Aeq, 15min} (dBA)
	Sunnylake Caravan Park	40	40	40
	Macleay Avenue (no residence at this location)	45	45	45
	Woolana Avenue, Halekulani	41	41	41
	Ulana Avenue, Budgewoi	41	41	41

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NOISE MANAGEMENT PLAN				
	Barego Close, Buff Point	39.5	39.5	39.5
	Barker Avenue, San Remo	40	40	40
	Denman Street, Colongra	39.5	39.5	39.5
	<p>$L_{Aeq, 15min}$ = Equivalent noise level (15-minute average)</p> <p>At wind speeds up to $3m.s^{-1}$ and (measured at 10 metres above ground level), or under temperature inversion conditions of up to $3^{\circ}C/100m$</p>			
Mitigation Measures	<p>Design & Commissioning</p> <ul style="list-style-type: none"> To confirm that Colongra meets the specified noise criteria, a review of the noise emission data and noise predictions was undertaken during the detailed design phase, where actual plant specifications and characteristics were known. Post commissioning noise source emissions and ambient noise monitoring levels may be measured to confirm the noise levels received at the nearest residential locations are consistent with the noise predictions stipulated in the Project EA. This is likely to occur in response to a complaint in order to verify noise levels. <p>Management Controls</p> <ul style="list-style-type: none"> Appropriate training and demonstrated Operator competence in operations. Plant Operating, Maintenance and Calibration Manuals, Procedures & Schedules to ensure all site plant is maintained for optimal performance and reduced noise levels. <p>Operational Controls</p> <ul style="list-style-type: none"> Noise is fundamentally managed by the design of the generating units. Operational Procedures that assist in managing noise emissions include operating checklists, and ensuring all doors, vents, louvres are closed as required during operation to limit the releases of noise from the generator/turbine enclosures. 			
Monitoring	<p>Observations of on-site noise levels are made by site personnel during walk arounds and operations, to identify if any unusual noise has developed.</p> <p>Monitoring and management of noise is a complaint driven process, and 'active' monitoring of noise during operations is not undertaken.</p> <p>Noise monitoring may be undertaken:</p> <ul style="list-style-type: none"> During performance testing of the power station, such as during commissioning and the noise verification process that was part of the Project Approval process. As required to ensure performance or when changes in operating circumstances are planned that have the potential to increase noise emissions. 			

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NOISE MANAGEMENT PLAN	
	<ul style="list-style-type: none"> As required after a community complaint, in order to verify the basis of the complaint and identify the potential extent of any issue.
Maintenance	<ul style="list-style-type: none"> All plant and equipment, including vehicles, are properly maintained in order to minimise noise generation. All Colongra Power Station plant and equipment are maintained according to Plant Operating, Maintenance and Calibration Manuals, Procedures & Schedules
Responsible Persons	Colongra Plant Manager / Colongra Production Technicians / Environmental Advisor.
Reporting	Monitoring results at residential receivers would be submitted to DPHI in the Annual Environmental Management Report, and in the EPA Annual Return.
Corrective Actions	<p>Corrective action is required to be undertaken immediately after a complaint is made or non-conformance identified.</p> <p>In the event of a complaint regarding noise emissions the following actions shall be undertaken as appropriate to the circumstances:</p> <ul style="list-style-type: none"> the complainant will be actively communicated with so that they are aware actions are being taken to assess the complaint. assessment of compliance with the relevant guidelines, Project Approval or Environment Protection Licence Condition. an investigation to determine if a particular noise source was the cause of the problem or non conformance. review of climatic conditions occurring at the time of the complaint to determine if they were unfavourable for noise propagation towards the complaint's location. measure sound power and pressure levels emitted from equipment identified as the likely source of the problem and review possible mitigation techniques. modify work practices as necessary to reduce the duration or level of noise; and consultation with the EPA and DPHI where required.

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4.5.4 Waste Management Plan

WASTE MANAGEMENT PLAN	
Objectives	To prevent or minimise any adverse environmental impacts from wastes and to minimise their generation, to maximise their reuse and recycling, and to ensure safe disposal of all waste.
Statutory Requirements	<ul style="list-style-type: none"> • Protection of the Environment Operations Act 1997. • Protection of the Environment Operations (Waste) Regulation 2014. • Waste Avoidance and Resource Recovery Act 2001 & associated Regulations. • Project Approval and Environment Protection Licence; and • Waste Classification Guidelines.
Performance Criteria	<p>Adherence to any relevant permit and/or licence.</p> <p>All waste is reused or recycled where possible.</p> <p>Wastes are disposed of in accordance with the Waste Classification Guidelines and appropriately tracked.</p>
Sources	<p>Refer to Waste Classification Guidelines – Part 1: Classifying Waste to determine classification of waste as either:</p> <ul style="list-style-type: none"> • special waste • liquid waste • hazardous waste • restricted solid waste. • general solid waste (putrescible); or • general solid waste (non-putrescible). <p>Refer to the EPA waste tracking website for fact sheets regarding identification and handling of trackable waste.</p>
Mitigation Measures	<p>All Special, Hazardous and Restricted solid waste (as defined by Waste Classification Guidelines – Part 1: Classifying Waste) that may be generated on site will be appropriately segregated for storage and separate disposal by a waste transporter licenced by the EPA.</p> <p>All Liquid waste can be classified as:</p> <ul style="list-style-type: none"> • non-controlled aqueous (water containing filterable and non-filterable solids but not contaminated with suspended or dissolved chemicals); and • classified liquid waste (oil, solvents, flammable liquids). <p>All classified liquid waste must be stored in designated liquid waste storage areas, and disposed of by a licenced waste transporter.</p> <ul style="list-style-type: none"> • All Trackable waste as defined by the EPA (NSW EPA Website Link) must be tracked according to EPA requirements and disposed of at a licenced facility. Dockets must be received from the driver and/or via the online system. • General solid waste is segregated into <ul style="list-style-type: none"> ○ Non-putrescible, e.g. bricks, concrete, timber, metals, glass, paper, rags

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WASTE MANAGEMENT PLAN	
	<p>and oil absorbent materials not containing free liquids, general building waste; and</p> <ul style="list-style-type: none"> ○ putrescible, e.g. green/organic waste, domestic waste. • General solid waste (non-putrescible) is also segregated at source into: <ul style="list-style-type: none"> ○ recyclable material (including glass, paper, scrap metal, aluminium cans, timber and wood gardening waste) is separated into general waste, paper/cardboard, and oily wastes and ○ non-recyclable waste (oily rags, oil filters, used absorbent, old chemical/paint/fuel/oil drums). • Recyclable material is transferred by a licenced waste carrier to an appropriate recycling facility where possible. • Non-recyclable, and non-putrescible general solid waste is transferred to an appropriate disposal facility. • Waste is stored neatly in clearly labelled bins or stockpiles, with hazardous wastes stored in such a manner that stormwater run-off does not come into contact with the waste.
Monitoring	<p>Individual Contractors are responsible for monitoring housekeeping, waste collection, storage, disposal procedures and facilities.</p> <p>Surveillance of site waste minimisation and disposal guidelines shall be conducted as part of the weekly walkthrough inspections by Colongra Production Technicians.</p>
Maintenance	<p>All signage, disposal areas, plant and equipment, are properly maintained in order to maximise staff awareness, minimise waste generation and maximise waste reuse and recycling.</p> <p>All power station plant and equipment are maintained according to Plant Operating, Maintenance and Calibration Manuals, Procedures & Schedules.</p>
Responsible Person	<p>Where waste requires disposal by a licenced contractor, Colongra personnel shall be responsible for organising the disposal, including waste from contractors activities.</p> <p>Colongra Plant Manager / Colongra Production Technicians/ Environment Advisor.</p>
Reporting	<p>Use, disposal, and management of waste may be reported in the Annual Environmental Management Report to NSW DPHI .</p>
Corrective Actions	<p>In the event of a failure to comply with the OEMP, a permit or licence condition, an investigation may be undertaken to determine the cause, and corrective actions identified, including modification of any work practices or waste management procedures as necessary to improve waste management.</p>

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4.5.5 Fuel Use Management Plan

FUEL USE MANAGEMENT PLAN	
Objectives	To ensure fuel is used in accordance with the Project Approval and Environment Protection Licence 13036.
Statutory Requirements	Any Conditions of licences or permits under the: <ul style="list-style-type: none"> • <i>Protection of the Environment Operations Act 1997</i> and Regulations. • <i>Protection of the Environment Operations (Clean Air) Regulations 2022</i>. • <i>Environmental Planning & Assessment Act 1979</i> and Regulation; and • Environmental Protection Licence 13606.
Performance Criteria	<p>Compliance with Project Approval and Environment Protection Licence 13036</p> <p>Diesel use shall not exceed 75 hours in any 12 month period for each turbine unit, unless specific exemption conditions are applicable.</p> <p>Diesel samples are collected after each fuel delivery and/or as a minimum on a quarterly basis as required by NGRS regulations.</p>
Sources	<p>Natural gas</p> <p>Natural gas is delivered to Colongra via the Sydney – Newcastle gas pipeline, compressor station, and lateral pipeline. The offtake facility and compressor station located on and adjacent to the Sydney – Newcastle gas pipeline at Bushells Ridge is owned, operated and maintained by Jemena , as is the lateral pipeline and letdown station.</p> <p>The Colongra lateral pipeline is approximately 8.6km in length and includes approximately 4km of looped 1,067mm diameter storage pipeline. The letdown station consists of a water bath heater and pressure regulating valves.</p> <p>The letdown station is relevant to Colongra environmental operations as data is required from Jemena in order for the Colongra facility to calculate it's greenhouse emissions and meet it's statutory reporting requirements.</p> <p>Diesel Fuel (Fuel Oil)</p> <p>The capacity of the diesel storage tank is 1.8ML, however the bund volume limits the operating tank volume to 1.367ML. Diesel fuel is delivered to site by road tankers. Procedures are in place to ensure that the Diesel tank's maximum storage capacity is maintained below 1.37ML, ensuring the diesel tank bund capacity is 110% of the stored diesel volume. The current operating capacity of the tank is sufficient to supply four units at full load for approximately five hours, before the low-low level is reached (approx 0.3ML volume remaining in the diesel tank).</p> <p>As required by the EPL 13036 the sulphur content in the diesel fuel used for firing the power station must comply with the Australian Government's <i>Fuel Quality Standards (Automotive Diesel) Determination 2019</i> made under the <i>Fuel Quality Standards Act 2000</i>.</p>
Requirements	<p>The Operating Instruction for Colongra includes fuel use limitations as set out in the Project Approval. The relevant conditions relating to diesel use are set out in this section. Natural gas shall be used preferentially, while diesel use shall not exceed 75 hours in any 12 month period for each turbine unit, except in the following circumstances.</p> <ul style="list-style-type: none"> • to manage network system constraints, or

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FUEL USE MANAGEMENT PLAN	
	<ul style="list-style-type: none"> • in the event of failure of existing major electricity generating facilities, or • in the event of failure of natural gas supplies, or • in the event of State or regional system shutdown (black start) situation, or • if cessation of operation would otherwise lead to a loss or reduction in electricity necessary to maintain the required network supply security and reliability, or • at the direction of the Australian Electricity Market Operator (AEMO) . <p>The emergency diesel generators must only be used for:</p> <ul style="list-style-type: none"> • emergency black start as specified in the environmental assessment. • for testing and maintenance of the units.
Monitoring	<p>To satisfy National Greenhouse and Energy Reporting System (NGERS) requirements a sample of diesel fuel must be taken quarterly or after each delivery. Analysis of each sample is to include:</p> <ul style="list-style-type: none"> • Specific energy (test method ASTM D240). • Carbon content (test method ASTM D5291). • Density (test method ASTM D1298). <p>Generation hours on diesel are reviewed monthly by the Environment and Lands Group as part of the monthly emissions review.</p>
Responsible Persons	Colongra Plant Manager / Colongra Production Technicians / Environment Advisor
Reporting	<ul style="list-style-type: none"> • Where diesel operation occurs outside the requirements identified in the Project Approval and EPL 13036, this shall be reported in the Annual Environment Management Report (AEMR) and EPL 13036 Annual Return. • Fuel analysis sampling results are used to report annual greenhouse emissions.
Corrective Actions	<ul style="list-style-type: none"> • Where requirements of this management plan are breached, the event will be reported in the Snowy Hydro event management system and investigated as appropriate. • If the non-conformance relates to diesel fuel sampling, additional samples shall be organised and collected to ensure sufficient information is available to calculate greenhouse emissions. • Corrective actions may be required where diesel samples are not collected as required, with additional samples collected as necessary. • Should the operating limit for diesel be exceeded, or operation occur outside the circumstances identified above, a non-compliance will be reported in Snowy Hydro's internal systems, and briefings held with operational business units to reinforce the awareness of the requirement. • A variation to EPL 13036 or modification to the Project Approval may be sought after appropriate environmental assessment into the extension of operating hours on diesel.

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4.5.6 Environmental Complaints Management Plan

ENVIRONMENTAL COMPLAINTS MANAGEMENT PLAN	
Performance Objective	To ensure that an appropriate response is made to public complaints in relation to Colongra operations.
Statutory Requirements	<p>Project Approval and Environment Protection Licence</p> <p><i>Protection of the Environment Operations Act 1997</i> and Regulations.</p> <p><i>Environmental Planning & Assessment Act 1979</i> and Regulations.</p>
Performance Criteria	<p>A contact number and mechanism is in place for the public to contact Snowy Hydro</p> <ul style="list-style-type: none"> All environmental complaints are recorded as incidents in Snowy Hydros event management system. All complaints are responded to expeditiously and investigated.
Responsible Person	<p>The Colongra Plant Manager is responsible for receiving complaints and ensuring that each complaint is recorded in Snowy Hydros event management system, responded to and investigated appropriately.</p> <p>This is likely to include drawing on resources from other departments as required, including Corporate Affairs and/ or the Environment and Lands team.</p>
Implementation Strategy/ Mitigation Measures	<p>In compliance with Project Approval Condition 4.3, a complaints register is required. Complaints are treated as incidents and managed through the Event Management system at Snowy Hydro, as such the complaints register is taken to be the event management system (Enablon). This allows all aspects of complaints, including investigations and corrective actions to be tracked and records maintained.</p> <p>All complaints shall, wherever possible, be directed to the Colongra Plant Manager. In the absence of the Colongra Plant Manager, the person receiving the complaint is to notify the Gas and Diesels Area Manager. The Colongra Plant Manager will notify the Corporate Affairs and/or the Environmental Advisor as required.</p> <p>When receiving a complaint the following details are to be recorded (as detailed in the F14-07-E Community Complaint Response Form:</p> <ul style="list-style-type: none"> The date and time of the complaint The method by which the complaint was made Any personal / contact details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect The nature of the complaint The action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and If no action was taken by the licensee, the reasons why no action was taken will be documented.

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ENVIRONMENTAL COMPLAINTS MANAGEMENT PLAN	
	The record of a complaint must be kept for at least 4 years, and made available to the EPA and DPHI upon request.
Monitoring	Targeted environmental monitoring may be conducted in response to a complaint depending on the nature of the complaint. This may include review of weather monitoring, and taking additional samples or measurements where required.
Reporting	<p>If external reporting to regulating agencies is required, the Environment Manager is responsible for making those reports in accordance with licence, approval and/or permit conditions.</p> <p>Information regarding all complaints received (including the means by which the complaint was addressed and whether resolution was reached) is reported in the Annual Return to the EPA and Annual Environmental Management Report to the DPHI</p>

5.0 Community Information

The following section details the approach for provision of information to the community during the operational period of Colongra. Subject to confidentiality, all documents required under the Project Approval and Concept Approval must be made available to the public upon request.

5.1 Public Website

In compliance with the Concept Approval Condition 5.2, a page on the Snowy Hydro external website is maintained to provide regular, up-to-date information regarding Colongra Power Station. The external website contains the following information:

- links to all Colongra approvals, permits and licences
- the monitoring programs and environmental management plans required by the Concept Approval or Project Approval, which are contained in this OEMP
- details of the results of compliance reviews and audits of Colongra
- details of the contact points to which community complaints or inquiries may be directed, including a postal address, the complaints telephone number and email address for receiving complaints or inquiries electronically; and
- Public PIRMP information as required by the POEO Act 1997 and Regulation administered by the NSW EPA.

5.2 Telephone Complaints Line

As per EPL Condition M7 and Project Approval Condition 4.2, the following contact details are provided for the purposes of receiving complaints and inquiries from members of the public in relation to activities at Colongra Power Station:

- a telephone number (1800 766 333)
- postal address (PO Box 332, Cooma, NSW 2630); and
- email address (info@snowyhydro.com.au).

The contact details are advertised to the public on a sign near the entrance to the site, as well as on the Snowy Hydro external website. The telephone number is also provided in the Colongra PIRMP as required under the POEO Act 1997 and Regulations.

6.0 Audits & Inspections

6.1 Weekly Site Based Inspections

Weekly walkthrough inspections are undertaken by site personnel. These inspections consist of visual inspection of all work areas and environmentally related activities in and around the site in order to check the condition of the site and any possible environmental issues. The inspections include:

- NOx water and fuel oil systems
- Bund integrity
- Roadways and drains
- General housekeeping
- Leaks and drips of oil or residues
- Energised equipment and alarming
- Transformers, generator skid, auxiliary plant
- Excessive vibrations from site activities
- Noticeable odour
- Malfunction of continuous analysers
- Water or liquid discharge from any plant and/or off-site
- Oil/water separator and dirty water capture points functionality and cleanliness; and
- Spillage/issues with solid waste (bins) and liquid waste storage areas.

6.2 Internal Audits

Internal audits will be undertaken in order to identify actual and potential non-conformances that may indicate, or lead to, a breach of legislative requirements. This will form part of the compliance tracking program.

An internal audit will be conducted annually at a minimum, in accordance with the Environmental Audit Schedule and may be tactical in nature focussing on a particular element and management plan, or an audit of the environmental management system components. Audits focussing on the environmental management system will use the ISO14001 standard as a guide to identify whether the Colongra environmental management practices are being maintained in accordance with ISO14001 requirements. Findings and recommendations will be reported and tracked as actions in the Snowy Hydro Event Management System (Enablon).

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6.3 External Audits

6.3.1 Project Approval

As required by Project Approval Condition 3.8, twelve months after the commencement of operation of the Project, and every three years thereafter, Snowy Hydro shall commission an independent, qualified person or team to undertake an Environmental Audit of the Project.

An Environmental Audit Report must be submitted to the DPHI within one month of the completion of the Audit and must:

- be carried out in accordance with ISO 19011:2002 - Guidelines for Quality and Environmental Management Systems Auditing
- assess compliance with the requirements of the Project Approval and other licences or approvals that apply to Colongra Power Station
- assess the environmental performance of the project against the predictions made and conclusions drawn in the EA (Parsons Brinckerhoff 2005) and Submissions Report (Parsons Brinckerhoff 2006); and
- review the effectiveness of environmental management, including any environmental impact mitigation works.

If the preparation and submission of an Environmental Audit Report and a Hazard Audit Report (required under Project Approval Condition 3.7) are required at the same time, the requirements of the Project Approval may be satisfied with a single report prepared by a single independent person or team approved by the Director-General.

The most recent 3 Yearly Independent Environmental Audit (IEA) was undertaken in 2022 while the Hazard Audit was undertaken in 2023. The reports were provided to the DPHI for approval via the online portal system.

The 2022 IEA found that there were no material non-compliances with the planning approval and all recommendations and required actions are being addressed by Snowy Hydro.

6.3.2 Environmental Management System

Snowy Hydro maintains an ISO14001 certified Environmental Management System (EMS), which is a core element of Snowy Hydro's whole of business Clean, Green and Safe Management System (CGSMS). Annual EMS audits are conducted by independent external auditors against the requirements of the ISO14001 Standard.

For environmental aspects of the management system, external audits are conducted as 'surveillance' audits once per year, with every third year being a recertification audit.

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The external ISO14001 audit may potentially be used as the Environmental Audit Report if conducted in the same year as the Environment Audit Report is required. This would need to be approved by NSW DPHI prior to being undertaken.

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7.0 Documentation

7.1 Document Control

As per Condition 1.8 of the Project Approval, all licences, permits and approvals must be obtained, renewed, maintained and complied with throughout the life of Colongra operations, and a copy of the Project Approval and all relevant environmental approvals made available on-site.

Documents classified as essential are filed and stored in AODocs (the Snowy Hydro document management system).

7.2 Records

Records must be kept for all monitoring, investigation, communication, agreements, incidents, reports and any other matter that has the potential to be referred to in the future. Documents and records relating to site operations should be retained in accordance with the Snowy Hydro procedure QP05-06 Information Asset Management.

In addition, the EPA and Project Approval specify documents and records in relation to environmental management, monitoring, and reporting must be retained for four years. These records include:

- Exhaust emissions testing results
- Site inspections and walkdowns
- Incident records
- Waste transport certificates
- Load calculation protocol calculations; and
- EPL13036 Annual Return.

These documents and records must be available onsite in hard copy or electronically.

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8.0 OEMP Review

The OEMP is not a static document, and will be reviewed regularly and updated as required to reflect changes in environmental management requirements identified throughout the operational life of the power station. Updates to the OEMP might be made in response to:

- scheduled review of the OEMP
- regulatory changes
- internal or external audit recommendations
- issues identified in Annual Environmental Management Reports or Annual Returns
- staff and organisational changes
- incidents and investigation outcomes; and
- new initiatives in environmental management.

As required under the Planning Approval, the OEMP will be reviewed within 3 months of the submission of:

- a) the submission of the annual environmental management report
- b) the submission of an incident report
- c) the submission of the 3 yearly independent environmental audit report or
- d) any modification of the MP05_0195 approval

Where a review has identified updates to the OEMP are required, the revised document must be submitted to the DPHI for approval within 4 weeks. The DPHI approved version of the OEMP is also publicly available on the external Snowy Hydro website.

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Appendix A – EPL13036 Monitoring Locations



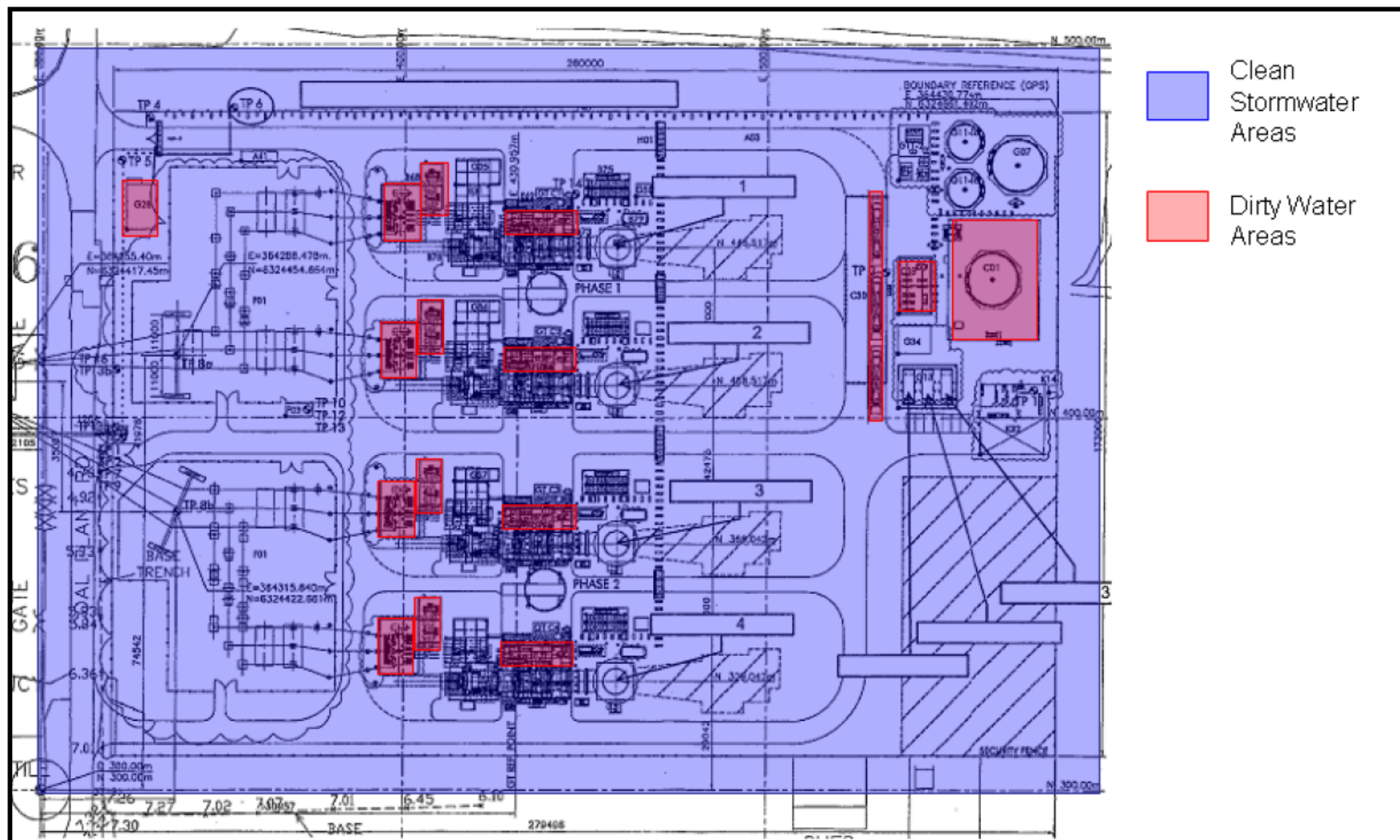
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Appendix B – Key Components Relevant to Environmental Aspects



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Appendix D – Location Overview Including Pipelines

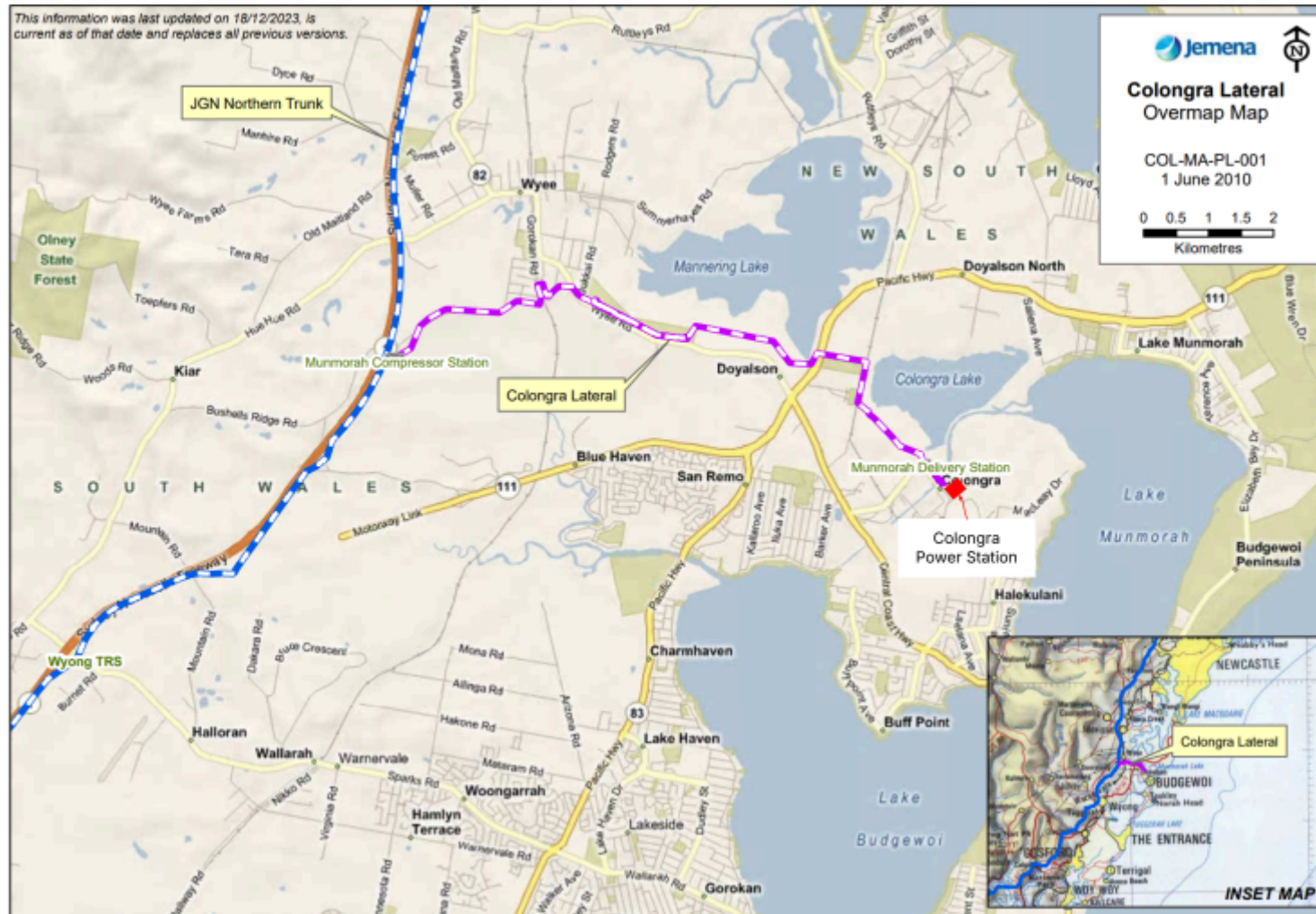


Image source: Jemena

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