



# Warro Gas Project Care and Maintenance Environment Plan Summary

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*Shut-in and Suspended Wells*

*WJV-HSE-PL-12*

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## Acronyms / Abbreviations and Terms

Acronym / Abbreviation / Term	Definition
ACH	Aboriginal Cultural Heritage
ALARP	as low as reasonably practicable
AS	Australian Standards
Aspect	Elements of the operator's activities, products, or services that may interact with the environment. These include planned and unplanned activities.
C&M	care and maintenance
Consequence	The outcome of an event expressed qualitatively or quantitatively, being a loss, impact, injury, an expressed concern, disadvantage or gain.
Control measures	Measures, controls or risk treatments implemented to reduce the likelihood or consequence of an event occurring (e.g. EPSs).
DMPE	Department of Mines, Petroleum and Exploration
EARS Online	Environmental Assessment and Regulatory System
Environmental Impact	Any change to the environment, whether adverse or beneficial, wholly or partially resulting from an activity or event.
EP	Environmental Plan
EPA	DWER Environmental Protection Authority
EPBC Act	Environmental Protection and Biodiversity Conservation Act 1999
EPS	Environmental Performance Standard
ERP	Emergency Response Plan
ESA	Environmentally Sensitive Area
GDE	Groundwater Dependent Ecosystem
Likelihood	The probability or frequency of an event occurring
NTA	Native Title Agreement
OSCP	Oil Spill Contingency Plan
PDWSA	Public Drinking Water Source Area
PGER(E)R	Petroleum and Geothermal Energy Resources (Environment) Regulations 2012
PGERA67	Petroleum and Geothermal Energy Resources Act 1967
R7	Retention Lease 7
Residual Risk	The risk rating for an event after control measures (EPSs) are applied. The residual risk rating reflects the expected outcomes if risk management is effective and robust (i.e. to reduce the consequences or likelihood of their occurrence).
Source of Potential Risk	Where there is potential to cause adverse impact to the environment. All potential sources of risk, including worst case scenario incidents should be provided (e.g. accidents, incidents, emergency response).
TEC	Threatened Ecological Community
WA	Western Australia
WMP	Well Management Plan

# 1 Introduction

Latent Petroleum Pty Ltd (Latent) is an Australian based oil and gas exploration and production company and the operator of the Warro Gas Project (the Project). The Project is located within Retention Lease 7 (R 7), approximately 200 km north of Perth in the Perth Basin. Latent is a subsidiary of H3 Energy Ltd.

Latent has developed the Warro Gas Project Care and Maintenance Environment Plan (WJV-HSE-PL-12) (EP) for the management of environmental aspects associated with Latent's care and maintenance of wells and facilities associated the Warro Gas Project (the Project).

## 1.1 Purpose

The purpose of the EP is to provide an outline of the activities associated with the care and maintenance activities associated with Project wells and infrastructure and to outline a description of the environmental management measures implemented to mitigate any potential environmental impacts and risks from those activities.

Under the *WA Petroleum and Geothermal Energy Resources Act 1967* (PGER Act), an EP is required to be prepared, approved and implemented for applicable activities. The objective of an EP is to reduce environmental risks and impacts of petroleum activities, to a level considered to be as low as reasonably practicable (ALARP).

The EP has been prepared in accordance with the Department of Mines, Petroleum and Exploration's (DMPE) 'Guideline for the Development of Petroleum, Geothermal and Pipeline Environment Plans in Western Australia' (DMPE, 2024).

## 1.2 Instrument Holder and Nominated Operator

Regulation 37 of the Petroleum Geothermal Energy Resources (Environment) Regulations 2012 (PGER(E)R) requires that there is an operator responsible for the overall management and operation of the activity at all times, and that the registered holders are required to notify the Minister of the nominated operator.

Latent is the 100% title holder, and nominated operator for the Project.

In accordance with the PGER(E)R, contact details for the operator are included in Table 1-1.

**Table 1-1:** Nominated Operator Contact Details

Company Name	Latent Petroleum Ltd
Name	Nik Sykiotis
Position	Chief Executive Officer
Address	L12, 50 Pirie Street, Adelaide SA 5000
Phone	+61 8 8232 8800
Email	<a href="mailto:nsykiotis@h3energy.com.au">nsykiotis@h3energy.com.au</a>

# 2 Description of the Activity

## 2.1 Location

The assets are located within the Warro Gas Field, within R 7 (the Project Area). The Project Area for care and maintenance activities associated with the EP has been defined as the area in which the well sites and access tracks are located within R 7. The Project Area is approximately

200 km north of Perth, 60 km east of Jurien Bay and 25 km northeast of Badgingarra (Figure 2-1). R 7 is located with the Shire of Coorow and the Shire of Dandaragan, with all four wells located within the Shire of Dandaragan. Access to the well sites is possible from Coalara Road and existing access tracks.

The wells are located on cleared freehold land lots to the west and north of Watheroo National Park. This freehold land is predominantly cleared agricultural land with isolated patches of native vegetation.

Figure 2-1 illustrates Licence R7, the well sites, and their proximity to main roads and nearby towns. The figure also identifies access tracks utilised to connect individual well sites and associated infrastructure. Any access tracks between well sites are designed and managed in accordance with relevant environmental management measures (Section 1).

The care and maintenance activities in the EP relate to the currently idle infrastructure used to support previous exploring activities. A summary of the infrastructure and location of all current wells in the Project Area are shown in Figure 2-2 and provided in Table 2-1.

**Table 2-1: Wells, Facilities and Infrastructure**

Asset / Infrastructure	Identification	Active	Shut-in / Inactive	Suspended	P&A
Wells	Warro-03 (Ext)		✓		
	Warro-04 (Ext)			✓	
	Warro-05 STI1 (Ext)			✓	
	Warro-06 (Ext)			✓	
	Warro-01				✓
	Warro-01 STI1				✓
	Warro-02				✓
	Warro-05				✓
Turkeys Nest	Warro-3 Turkeys nest		✓		
	Warro-4 Turkeys nest		✓		
	Warro-5 Turkeys nest		✓		
	Warro-6 Turkeys nest		✓		
Sumps	Warro-3 Sumps		✓		
	Warro-4 Sumps		✓		
	Warro-5 Sumps		✓		
	Warro-6 Sumps		✓		
Camp	Warro Camp		✓		
Access Tracks	Various	✓			
Onsite Water Bores	Warro-3 Bore		✓		
	Warro-5 Bore		✓		
	Turkeys Nest		✓		
	House Bore/Holmes Bore		✓		
Other regional water bore	Rangers Bore		✓		



**Figure 2-1: Regional location of the Warro Project**



Figure 2-2 Project Area with well site locations

## 2.2 Timeframe and Schedules

Table 2-2 below outlines the current expected timing and estimated duration for each of the care and maintenance activities for the Project.

**Table 2-2: Planned timeframes of care and maintenance activities**

Activity	Timeframe	Hours of Operation
Wellhead integrity testing and inspections	Yearly	Daylight hours
Site inspections	Biannually	Daylight hours
Groundwater sampling	Yearly	Daylight hours
Site reinstatement / progressive rehabilitation	Ad-hoc	Daylight hours

## 2.3 Activity Description

The activities covered by the EP include:

- Inspection
- Maintenance
- Repair
- Decommissioning
- Rehabilitation
- supporting activities.

### 2.3.1 Inspection

Inspections provide assurance that asset integrity is being maintained and proactively identify maintenance or repair requirements.

### 2.3.2 Maintenance and repair

Maintenance and repair activities may include:

- Installation or repair of fences, gates, signs or fauna egress paths
- Repair of groundwater extraction bores, repair of environmental monitoring bores
- Repair or replacement of wellhead grating and/or fencing
- Clean-up and removal of any spills or waste to a licensed waste disposal facility
- Pumping fluids from bunds or excavations (comprising rainwater) to ensure sufficient freeboard is maintained
- Maintenance of cleared areas with the use of a grader / similar equipment (fire-breaks etc.)
- Tree valve maintenance (e.g. greasing valves, pressure monitoring)
- Pressure testing of valves
- Greasing and lubricating valves
- Removal and replacement of valves
- Recontouring to remediate erosion
- Lightly grading cleared sites to maintain a stable surface, and
- Lightly grading cleared sites to remove regrowth.

### **2.3.3 Decommissioning**

There is no current plan to decommission the wells. Once it has been determined that the assets have reached the end of their operational life, a decommissioning EP will be submitted to DMPE for approval to conduct the activity.

### **2.3.4 Rehabilitation**

Reinstatement and progressive rehabilitation activities may include:

- Removal of redundant equipment and infrastructure for recycling or disposal at a licensed waste facility
- Removal of pond liners offsite for disposal at a licensed waste facility
- Sampling of soil beneath retention pond liners following their removal (and subsequent removal of any soil determined to be contaminated)
- Infilling of open excavations utilising low risk fill
- Respreading of topsoil and stockpiled vegetation
- Recovering gravel for reuse, as appropriate
- Ripping of over-compacted soils
- Contouring of sites (as required)
- Direct reseeding.

### **2.3.5 Supporting activities**

- Vehicle operations
- Waste management.

### 3 Description of the Environment

Environment	Summary
Climate	The area has a Mediterranean climate featuring moist, mild winters and hot, dry summers.
Soils	The Project Area is located in the Geraldton Sandplains and subregion of the Lasueur Sandplain. Soils within the region are sandy.
Surface Water	The Project Area is located within the Moore-River hydrographic catchment and the Moore-Hill Rivers sub catchment.
Groundwater	The Project is located within the Jurien Groundwater Area, over the Yarragadee Formation and Leederville Aquifer, which was previously included in the Parmelia-Leederville Aquifer.
Public Drinking Water	There is no Public Drinking Water Source Areas (PDWSA) within the Project area
GDE	The closest potential GDE's relative to the project are: <ul style="list-style-type: none"> <li>• Pill Bottle Soak Aquatic GDE (~7km north of Warro-04)</li> <li>• Six no name low to moderate potential terrestrial GDEs</li> </ul>
ESA and TEC	The nearest ESA is the is the Watheroo National Park (IUCN II), which partially overlaps the Project Area and is located within 1 km of all four suspended and shut-in wells and the Banksia Woodlands of the Swan Coastal Plain Threatened ecological community (TEC) located ~2.5-6.5 km south of the wells within the Project Area.
Vegetation and Flora	The Project Area is located in cleared freehold agricultural land that has historically been cleared for agricultural.
Fauna	Several identified several native species protected under the EPBC Act and BC Act may occur within, or have suitable habitat present in, the surrounding region.
Weeds	The Project Area is located within cleared agricultural land, a search of introduced flora having the potential to occur within the Project Area was completed.
Dieback	No presence of Dieback has been recorded in the Project Area.
Protected Places	The Watheroo National Park and Boothendarra Nature Reserve overlap the borders of the R7 Licence area. No access to these conservation areas is required for the purpose of this project.
Heritage	No World, National or Commonwealth heritage Areas overlap the Project Area.
Native Title	The Project Area does not overlap any Native Title claim or determination areas. Latent has concluded a Native Title Agreement (NTA) with the Yued people. As part of this agreement Latent has undertaken to not disturb any sites and will ensure that all staff and contractors are familiar with the NTA requirements.
ACH	A search of the Aboriginal Cultural Heritage Inquiry System conducted on the 13th of January 2026 determined that there were no Aboriginal Cultural Heritage Registered Sites (ACH) or Lodged sites in Petroleum Title R 7.

## 4 Environmental Risk Assessment

The risk methodology applied to the EP was in line with the ISO 31000:2018 Risk management – Principle and guidelines.

Aspect	Hazard	Management / Mitigation measures
Physical Interaction – Soil and Vegetation	<ul style="list-style-type: none"> <li>• Spread/introduction of invasive species (weeds, dieback)</li> <li>• Damage to cultural heritage places / artefacts</li> <li>• Unplanned disturbance to vegetation</li> </ul>	<ul style="list-style-type: none"> <li>• Weed management requirements</li> <li>• Induction</li> <li>• Heritage artefact disturbance procedure.</li> </ul>
Emissions – Noise, Dust, Atmospheric (Greenhouse Gas)	<ul style="list-style-type: none"> <li>• Disturbance to sensitive fauna / relevant stakeholders from increased noise levels</li> <li>• Disturbance relevant stakeholders and impacts to vegetation from increased dust emissions</li> <li>• Disturbance to sensitive fauna / relevant stakeholders from increased atmospheric emissions</li> </ul>	<ul style="list-style-type: none"> <li>• Working during daylight hours</li> <li>• Speed limits</li> <li>• Emissions are monitored and reported</li> <li>• Complaints management system</li> </ul>
<b>Unplanned Events</b>		
Physical Interaction – Fauna	<ul style="list-style-type: none"> <li>• Injury or fatality to terrestrial fauna</li> </ul>	<ul style="list-style-type: none"> <li>• Fauna egress matting and ramps</li> <li>• Working during daylight hours</li> <li>• Speed limits</li> <li>• Site inspections</li> <li>• Induction</li> </ul>
Fire	<ul style="list-style-type: none"> <li>• Habitat and vegetation loss and/or fauna injury/fatality.</li> </ul>	<ul style="list-style-type: none"> <li>• Bush Fires Regulations 1954</li> <li>• Firebreaks</li> <li>• Emergency Response Plan (ERP)</li> </ul>
Accidental Release – Waste	<ul style="list-style-type: none"> <li>• Attraction and/or injury / death of protected fauna species within the vicinity of the well sites.</li> </ul>	<ul style="list-style-type: none"> <li>• Appropriate rubbish bins and waste segregation</li> <li>• Appropriately licensed waste contractor</li> <li>• Waste register</li> <li>• Induction</li> </ul>

Aspect	Hazard	Management / Mitigation measures
Accidental Release – Hydrocarbons or Hazardous Materials	<ul style="list-style-type: none"> <li>• Contamination of soil / groundwater</li> </ul>	<ul style="list-style-type: none"> <li>• Refuelling to be undertaken offsite</li> <li>• Chemical and hazardous materials storage requirements</li> <li>• Groundwater Sampling</li> <li>• Induction</li> <li>• Spill Kits</li> <li>• OSCP</li> <li>• ERP</li> <li>• WMP</li> </ul>

## 5 Implementation Strategy

To meet the requirements of Regulation 15(1) of the PGER(E)R, Implementation Strategy for the EP, this Section describes the systems, practices, and procedures used to ensure that the environmental impacts and risks of the activities are continuously reduced to ALARP, and the environmental performance objectives and standards detailed in Section 1 are achieved.

### 5.1 Systems, Practices and Procedures

Details of Latent systems, practices and procedures relating to the management of all potential impacts and risks of the activity are detailed in Table 5-1. The objective of these is to continuously reduce the potential impacts and risks of the activity to ALARP. Latent's corporate environmental policy is included as Appendix A

The following environmental procedures have been developed for shut-in wells and will continue to be implemented during all activities where relevant.

**Table 5-1: Overview of systems, Practices and Procedures relevant to the EP**

<b>System / Practice / Procedure</b>	<b>Objective to Achieve ALARP</b>
Environmental Policy	Sets out Latent's commitment to protecting the environment and complying with all relevant legal and regulatory requirements
Environment Plan	To document environmental management of operations (This document)
Oil Spill Preparedness and Response	To provide guidance on the management of a spill.
Hazard and Incident Reporting	To outline the processes and requirements for hazard and incident reporting.
Weed and Hygiene Protocol	Provides a framework for the travel and management of personnel, vehicles, plant and equipment to and from site. Specifically, ensures that the risk of introducing weeds is minimised via Inspections.
Complaints Management System	Latent maintains a system to register, track and close out complaints raised by relevant stakeholders and by doing so ensures that any stakeholder impacts are reduced to ALARP

## 5.2 EP Review

Regulation 18 of the PGER(E)R requires that Latent submit a proposed revision of the accepted EP:

- Before the commencement of a new activity, or any significant modification, change of a new stage of an existing activity; and
- Before, or as soon as practicable after, the occurrence of any significant new environmental impact or risk, or significant increase in an existing environmental impact or risk which occurred or is to occur.

Additionally, Regulation 20 of PGER(E)R requires that Latent submit a proposed revision of the EP five years from the date when the EP is accepted by the Minister.

## 6 Stakeholder Engagement

In accordance with Regulation 15(11) of the PGER(E)R, Latent has undertaken appropriate consultation with relevant stakeholders in the development of the EP, and plans to continue engagement with relevant stakeholders throughout the lifetime of the EP. All stakeholder consultation is to be recorded in the Latent Stakeholder Consultation Register.

Latent has an extensive community consultation process. This consultation is being undertaken at various levels from one-on-one meetings with individuals, to working cooperatively with Perth Basin Operators Group and the APPEA. Recent consultation in the region includes:

- Community Site Visits
- Community Information Pamphlets
- Attendance at Community Meetings
- Liaison with Community Groups
- Liaison with local Shires
- Liaison with stakeholder landowners
- Successful relationship negotiation with traditional owners.

## 7 References

DMPE. (2024). *Guideline for the Development of Petroleum and Geothermal Environment Plans in Western Australia*. Department of Mines, Petroleum and Exploration.