



Works Approval Number	W5671/2014/1
Works Approval Holder	Chevron Australia Pty Ltd
ACN	086 197 757
File Number:	DER2014/000680-1
Premises	LNG Plant – Treated Sewage and Liquid Waste Facility Legal description – Part of Lots 567 and 569 on Plan 71345 TALANDJI WA 6710 As defined in Schedule 1
Date of Report	04/02/2020

1. Definitions of terms and acronyms

In this Amendment Report, the terms in Table 1 have the meanings defined.

Table 1: Definitions

Term	Definition
ACN	Australian Company Number
Amendment Report	refers to this document
Amended Works Approval	the amended Works Approval issued under Part V, Division 3 of the EP Act following the finalisation of this assessment.
Category/ Categories	categories of Prescribed Premises as set out in Schedule 1 of the EP Regulations
CEO	means Chief Executive Officer.
CV	Construction Village
CV STPs	refers to the Construction Village Sewage Treatment Plant Train 2, the 600 Equivalent Person Sewage Treatment Plant, and the Construction Village Expansion Camp Sewage Treatment Plant, collectively.
Delegated Officer	an officer under section 20 of the EP Act
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act.
DWER	Department of Water and Environmental Regulation
EP	Equivalent Person
EPA	Environmental Protection Authority
EP Act	<i>Environmental Protection Act 1986</i> (WA)
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth)
Existing Works Approval	The Works Approval issued under Part V, Division 3 of the EP Act and in force prior to the commencement of, and during this amendment
LNG	Liquefied Natural Gas
m ³	cubic metres
MS	Ministerial Statement
PMO	Permanent Marine Outfall
Prescribed Premises	has the same meaning given to that term under the EP Act.
Premises	refers to the premises to which this Amendment Report applies, as specified at the front of this Amendment Report.
STP	Sewage Treatment Plant
TMO	Temporary Marine Outfall

Works Approval Holder	Chevron Australia Pty Ltd
-----------------------	---------------------------

2. Amendment description

This amendment is made pursuant to section 59 of the *Environmental Protection Act 1986* (EP Act) to amend Works Approval W5671/2014/1 granted to Chevron Australia Pty Ltd (Chevron) for its Liquefied Natural Gas (LNG) Plant Permanent Facilities Sewage Treatment Plant (STP) and Permanent Marine Outfall (PMO) associated with the Wheatstone LNG Project.

The guidance statements that have informed the assessment and decision outlined in this Amendment Report are listed in Appendix 1.

2.1. Purpose and scope of assessment

Chevron lodged an application on 16 October 2019 to amend the Existing Works Approval W5671/2014/1 to allow for treated effluent from the Construction Village (CV) STP, 600 Equivalent Person (EP) STP, and the CV Expansion Camp STP (collectively referred to as CV STPs) to be accepted onto the Premises, via the combined effluent sump, for discharge to the marine environment via the PMO. Prior to the amendment application, treated effluent from the CV STPs was discharged to the marine environment from the Temporary Marine Outfall (TMO) via the CV effluent sump in accordance with L8650/2012/1 requirements.

Table 2 lists the documents submitted during the assessment process.

Table 2: Documents and information submitted during the assessment process

Document/information description	Date received
Application form (DWERDT212402)	16 October 2019

The assessment of this application has been undertaken in accordance with DWER's published Regulatory Framework. The scope of the assessment includes:

- change to Category 54: Sewage treatment premises, to increase the volume of treated effluent discharged from the premises via the PMO from 225.6 m³/day to 816 m³/day; and
- the addition of Category 61: Liquid waste facility, to allow for the receipt of up to 1,736,315 tonnes/year of non-sewage wastewater to the LNG Plant combined effluent sump from outside the Premises. This includes treated wastewater from the Primary Treatment System, reject water from the Reverse Osmosis plants, and inlet air humidification blowdown from gas turbine generators and compressors.

The proposed amendment is considered to be an administrative amendment as the proposed changes reflect the intent of the application and assessment for W5671/2014/1. There are no changes to the Premises infrastructure proposed. The acceptance and discharge of treated effluent from the CV STPs to the marine environment via the PMO has been previously subject to risk assessment through the Existing Works Approval assessment (DWER 2014). The receipt, storage and discharge to the marine environment of non-sewage wastewater from the Primary Treatment System, Reverse Osmosis plants and gas turbine generators and compressors was also risk assessed previously. Storage of liquid waste produced on another premises meets the definition of a Category 61 Liquid waste facility however the category was not specified in the Existing Works Approval.

As the amendment will not result in any change to the sources or composition of wastewater discharged to the marine environment from the PMO further risk assessment of the discharge has not been undertaken.

The Amended Works Approval issued as a result of this assessment consolidates and supersedes all previously authorised Works Approvals and Amendment Notices issued in relation to the Premises. The Amended Works Approval has been issued in a new format with

existing conditions being transferred, but not reassessed, to the new format.

Table 3 below outlines the proposed changes to the Works Approval.

Table 3: Proposed throughput capacity changes

Category	Current throughput capacity	Proposed throughput capacity	Description of proposed amendment
54: Sewage treatment premises	225.6 m ³ /day	816 m ³ /day	Up to 816 m ³ /day of treated sewage will be received onto the premises at the combined effluent sump and discharged to marine waters via the PMO. The assessed production capacity for discharge of treated sewage to land or waters has been increased accordingly.
61: Liquid waste facility	Not specified	1,736,315 tonnes/year	Non-sewage wastewater from outside the Premises, including the Primary Treatment System, Reverse Osmosis plants and gas turbine generators and compressors, is received at the combined effluent sump located on the premises. Category 61 Liquid waste facility has been added to the Works Approval and the volume of wastewater accepted onto the premises and discharged via the PMO (1,736,315 tonnes/year), which was previously subject to risk assessment for W5671/2014/1, has been specified.

3. Premises information

3.1 Premises background

The Premises includes a combined effluent sump, which receives effluent from a number of sources associated with the Wheatstone LNG Project, and the PMO for discharge of effluent from the sump. The Existing Works Approval was granted on 4 December 2014 and allows for the discharge of 225.6 m³/day of treated effluent to the marine environment via the PMO. The combined effluent sump was designed to receive treated effluent from the Primary Treatment System, the CV STPs, the LNG Plant Permanent STP, brine from Reverse Osmosis plants and inlet air humidifier blowdown from gas turbine generators and compressors (Figure 1).

Chevron notified DWER on 7 August 2019 (Chevron 2019) that the LNG Plant Permanent STP under the Existing Works Approval was not fully commissioned. As an alternative measure, the sanitary lift stations and inlet diversion sump allow waste to be collected onsite before being transported, via a pipeline, for treatment at the CV STP. Therefore, the combined effluent sump will not receive treated effluent from the LNG Plant Permanent STP.

The construction village was built to accommodate the population of the Wheatstone LNG Project and is serviced by the CV STPs constructed under Works Approval W5306/2012/1. Prior to the PMO being able to receive treated effluent from the CV STPs, it was discharged to the marine environment from the TMO via two combined effluent equalisation tanks under Licence (L8650/2012/1). The Amended Works Approval will allow for treated effluent from the CV STPs to be received by the combined effluent sump and discharged to the marine environment via the PMO.

A history of approvals relating to the Premises which have been granted under Part V, Division 3 of the EP Act are included in Table 4. The relevant Prescribed Premises category and throughput authorised under the Existing Works Approval is described in Table 4. The Existing Works Approval conditions authorise the Works Approval Holder to discharge wastewater to the marine environment via the combined effluent sump which comes from sources outside the Premises boundary, but does not specify Category 61.

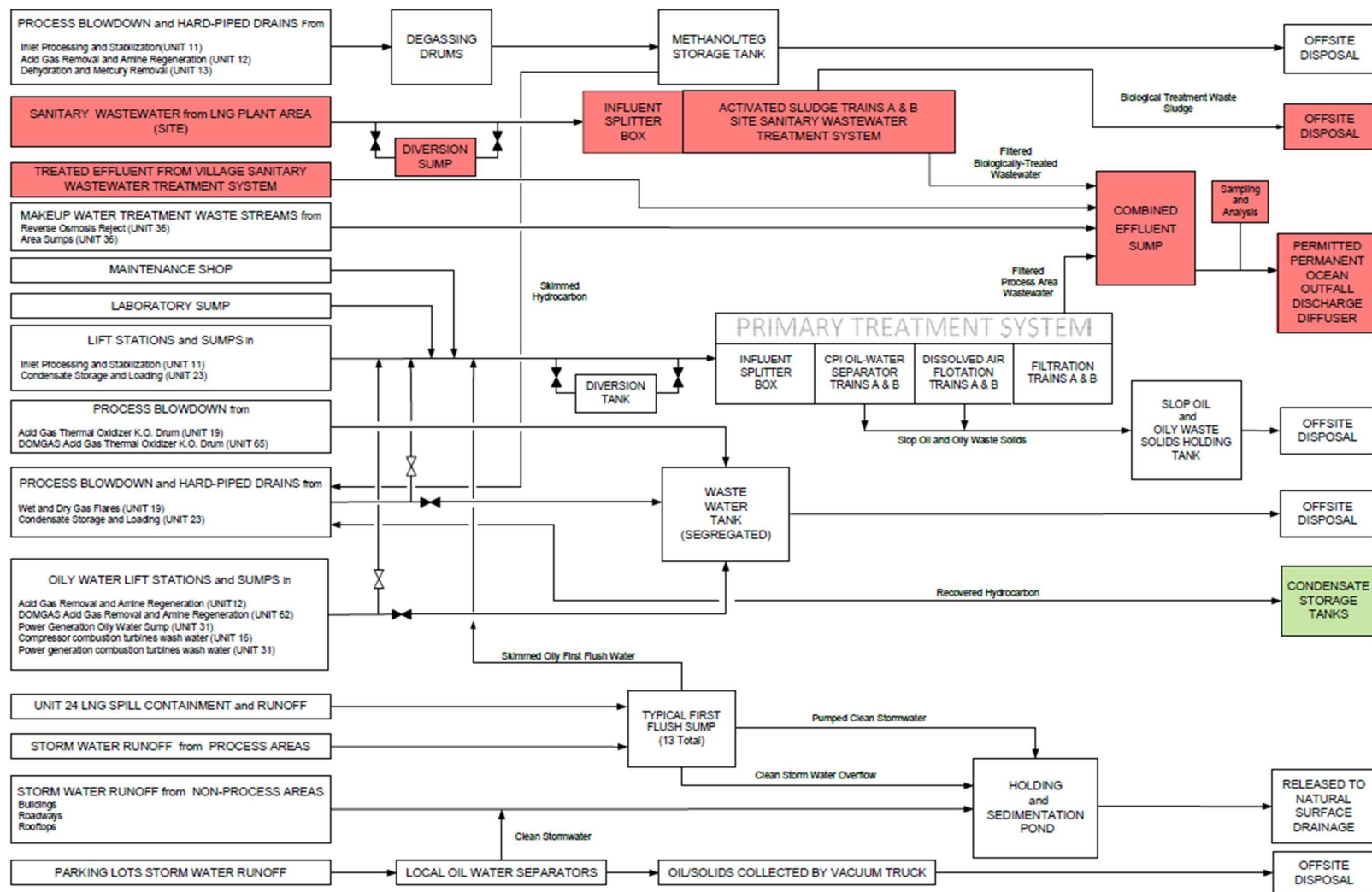


Figure 1: The Premises permanent facilities – water stream handling and treatment

Table 4 provides the Works Approval history for W5671/2014/1.

Table 4: Works Approval amendments

Instrument	Issued	Details
W5671/2014/1	04/12/2014	Works Approval issued.
W5671/2014/1	14/04/2016	Modifications to the design and location of the PMO.
W5671/2014/1	25/10/2017	Amendment Notice 1. Amendment to extend the Works Approval by 12 months.
W5671/2014/1	14/11/2018	Transferred to Chevron Australia Pty Ltd.
W5671/2014/1	19/11/2018	Amendment Notice 2. Amendment to extend the Works Approval by 12 months.
W5671/2014/1	27/11/2019	Amendment to extend the Works Approval by 12 months. The amendment includes a CEO initiated amendment as per section 59 of <i>Environmental Protection Act 1986</i> to amalgamate the separately issued amendment notices to the Works Approval.
W5671/2014/1	04/02/2020	Amendment to include receipt of wastewater from the CV STPs at the combined effluent sump, triggering the inclusion of Category 61: liquid waste facility as a prescribed activity. The amendment includes a CEO initiated amendment as per section 59 of <i>Environmental Protection Act 1986</i> to amalgamate the separately issued amendment notices to the Works Approval.

4. Other approvals

Other approvals relating to the Premises as outlined in Table 5.

Table 5: Relevant approvals

Legislation	Number	Approval
EP Act – Part IV	Ministerial Statement No. 873 approved 30 August 2011 (MS873)	Authorises the construction and operation of a 25 million tonne per annum LNG facility and associated domestic gas facility in the Ashburton North Strategic Industrial Area 12km southwest of Onslow. Includes permanent and temporary facilities.
EPBC Act	EPBC Act Referral 2008/4469 approved 22 September 2011	Approves the construction and operation of LNG and domestic gas plant and onshore and offshore facilities, state and commonwealth waters, Pilbara Coast, WA.

5. Decision

In accordance with Section 59 of the EP Act, the Delegated Officer has determined to grant the amendments to the Works Approval consistent with Table 3. This decision is made on the basis that the changes have already been subject to a risk assessment for the Works Approval (issue date: 04/12/2014) and deemed to be acceptable subject to the existing conditions. There will be no change to the previously assessed emissions and discharges risk profile from the premises as a result of this amendment and no further risk assessment is required.

The Amended Works Approval includes the amendments assessed in this Amendment Report

as detailed in Table 6, and consolidated amendments from the previously issued amendments.

6. Works Approval Holder's comments

The Works Approval Holder was provided with the draft Amendment Report and draft Amended Works Approval on 22 January 2020. A response was received from the Works Approval Holder on 04 February 2020 requesting the Premises name be updated and two typographical errors be corrected. These changes have been made.

7. Conclusion

Based on the assessment in this Amendment Report, the Delegated Officer has determined that a Works Approval amendment will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

7.1. Summary of amendments

Table 6 provides a summary of the amendments assessed in this Amendment Report and will act as record of implemented changes. All proposed changes have been incorporated into the Amended Works Approval as part of the amendment process.

Table 6: Works Approval amendments

Condition No.	Proposed amendments
1.1	Addition of definition for Construction Village STPs.
2.1.1 (Table 2.1.1)	Removed reference to the LNG Plant STP from the third column of Table 2.1.1 (source including abatement).
Schedule 2	Change to Category 54: Sewage facility approved premises production or design capacity from 225.6 m ³ /day to 816 m ³ /day.
	Addition of Category 61: Liquid waste facility approved premises production or design capacity of 1,736,315 tonnes per year.

Caron Goodbourn
MANAGER, PROCESS INDUSTRIES
INDUSTRY REGULATION

An officer delegated by the CEO under section 20 of the EP Act

Appendix 1: Key documents

	Document title	In text ref	Availability
1	DER, July 2015. <i>Guidance Statement: Regulatory principles</i> . Department of Environment Regulation, Perth.	N/A	accessed at www.dwer.wa.gov.au
2	DER, June 2019. <i>Guidance Statement: Decision Making</i> . Department of Environment Regulation, Perth.		
3	Works Approval W5671/2014/1	W5671/2014/1	accessed at www.dwer.wa.gov.au
4	Decision Document W5671/2014/1	DWER 2014	DWER records (A735009)
5	Works Approval W5306/2012/1	W5306/2012/1	DWER records (A583754)
6	Works Approval W5439/2013/1	W5439/2013/1	DWER records (A823180)
7	Wheatstone Permanent STP commissioning notification letter	Chevron 2019	DWER records (DWERDT187172)
8	Ministerial Statement 873	MS 873	accessed at www.epa.wa.gov.au/
9	EPBC Referral Approval 2008/4469. <i>Chevron Australia Pty Ltd/Energy generation and supply (non-renewable)/Pilbara coast/WA & Commonwealth marine/Construct & operate LNG & domestic gas plant onshore & offshore facilities – Wheatstone</i> .	EPBC 2008/4469	accessed at epbcnotices.environment.gov.au/

Attachment 1: Amended Works Approval W5671/2014/1
