

Santos

HUNTER GAS
PIPELINE

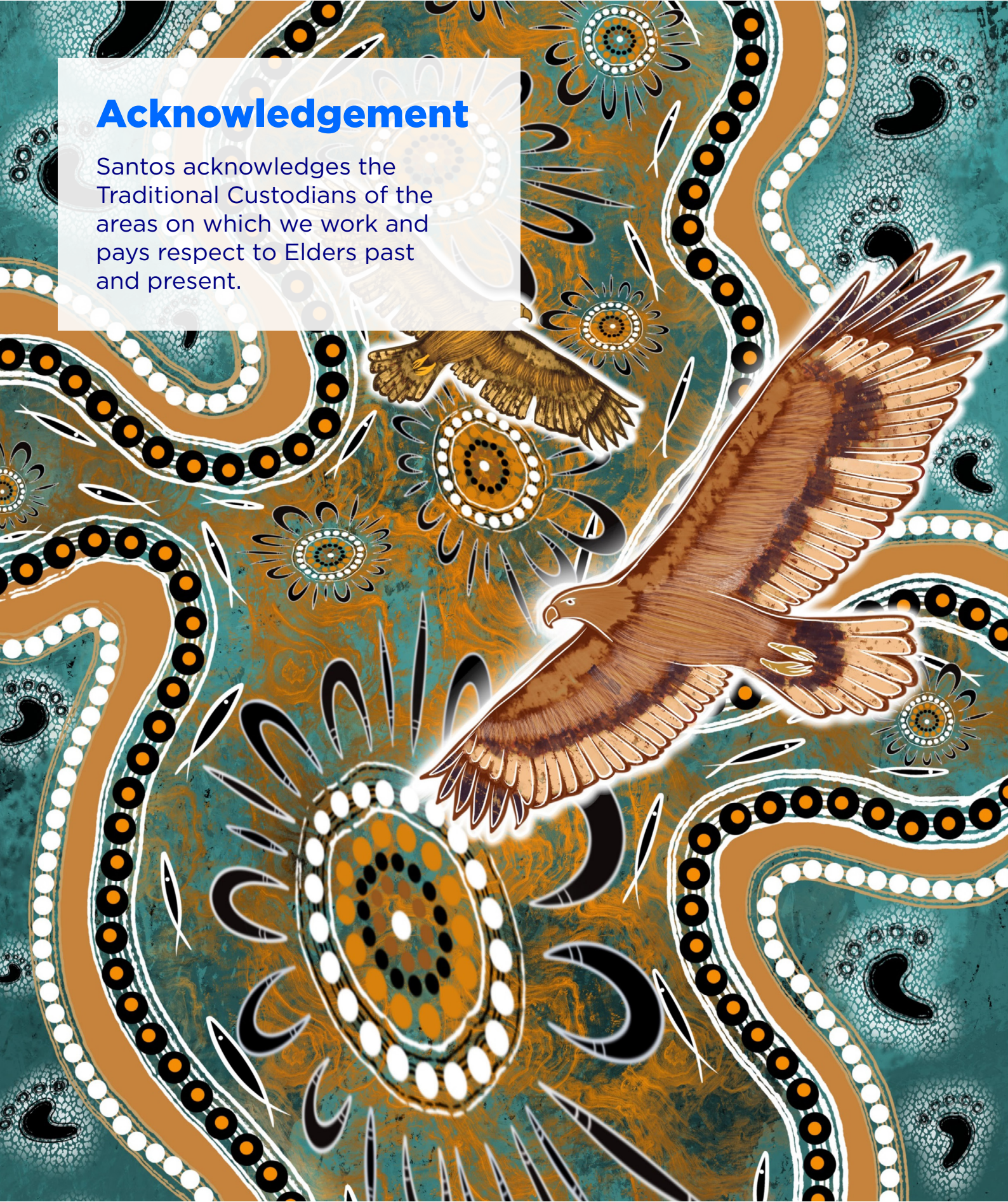
NARRABRI LATERAL PIPELINE ENVIRONMENTAL IMPACT STATEMENT



2025

Acknowledgement

Santos acknowledges the Traditional Custodians of the areas on which we work and pays respect to Elders past and present.



Barkindji Dreaming Still Flying

This artwork represents me, it is the story of my life. The hawk eagle is my Barkindji totem. It represents my strength to keep flying high, keep on wanting to do better for myself and my people and our future.

Jonathan Knight, Wongkumara

EIS Declaration

Project details:	
Project name	Narrabri Lateral Pipeline
Application number	SSI-53307723
The land on which the infrastructure is to be carried out	Land described in section 2.2 of this document, between about 20 kilometres south-west of Narrabri and about 5.5 kilometres south-east of Baan Baa, in the Narrabri local government area.
Proponent details:	
Name	Hunter Gas Pipeline Pty Ltd (wholly owned by Santos Limited)
Address	Santos Centre, 60 Flinders Street, Adelaide SA 5000
Details of person by whom this EIS was prepared:	
Name	[REDACTED] on behalf of GHD Pty Ltd
Address	133 Castlereagh Street, Sydney, NSW 2000
Qualifications	[REDACTED]
Declaration by registered environmental assessment practitioner:	
Name	[REDACTED]
Registration number	[REDACTED]
Organisation registered with	EIANZ
Declaration	<p>The undersigned declares that this Environmental Impact Statement (EIS):</p> <ul style="list-style-type: none"> • has been prepared in accordance with Schedule 2 and Part 10 of the Environmental Planning and Assessment Regulation 2021; • contains all available information relevant to the environmental assessment of the development, activity or infrastructure to which the EIS relates; • does not contain information that is false or misleading; • addresses the Planning Secretary’s environmental assessment requirements (SEARs) for the project; • identifies and addresses the relevant statutory requirements for the project, including any relevant matters for consideration in environmental planning instruments; • has been prepared having regard to the Department’s State Significant infrastructure Guidelines - Preparing an Environmental Impact Statement; • contains a simple and easy to understand summary of the project as a whole, having regard to the economic, environmental and social impacts of the project and the principles of ecologically sustainable development; • contains a consolidated description of the project in a single chapter of the EIS; • contains an accurate summary of the findings of any community engagement; and • contains an accurate summary of the detailed technical assessment of the impacts of the project as a whole.
Signed	[REDACTED]
Dated	17 October 2025

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Appendix E	Community and stakeholder engagement report
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Technical reports

Technical Report 1	Biodiversity development assessment report
Technical Report 2	Aquatic ecology
Technical Report 3	Flooding
Technical Report 4	Water
Technical Report 5	Noise and vibration
Technical Report 6	Air quality
Technical Report 7	Land use and agriculture
Technical Report 8	Aboriginal cultural heritage assessment report
Technical Report 9	Traffic and transport
Technical Report 10	Landscape and visual
Technical Report 11	Social impact assessment
Technical Report 12	Preliminary hazard analysis

Glossary and abbreviations

Term/abbreviation	Definition
Aboriginal site	A place or location that represents past Aboriginal activity or presence.
ABS	Australian Bureau of Statistics
ACCC	Australian Competition and Consumer Commission
ACHAR	Aboriginal Cultural Heritage Assessment Report
Acid sulfate soils (ASS)	Naturally occurring soils, sediments or organic substrates (eg peat) that are formed under waterlogged conditions. These soils contain iron sulfide minerals (predominantly as the mineral pyrite) or their oxidation products. In an undisturbed state below the water table, acid sulfate soils are benign. However if the soils are drained, excavated or exposed to air by a lowering of the water table, the sulfides react with oxygen to form sulfuric acid.
ADG Code	<i>Australian Code for the Transport of Dangerous Goods by Road and Rail.</i>
AEMO	Australian Energy Market Operator
Agricultural land	Land zoned RU 1 – Primary Production by the Narrabri Local Environmental Plan 2012.
AHD	Australian Height Datum
AHIMS	Aboriginal Heritage Information Management Systems
Alignment	The centreline of the construction right of way
Annual exceedance probability (AEP)	The chance of a flood of a nominated size occurring in a particular year. The chance of the flood occurring is expressed as a percentage and, for large floods, is the reciprocal of the average recurrence interval. For example, the one per cent AEP flood event is equivalent to the 100-year average recurrence interval flood event.
ANZG (2018)	<i>Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG, 2018)</i>
APGA	Australian Pipelines and Gas Association
AS	Australian Standard
AS 1940	<i>AS 1940:2017 The storage and handling of flammable and combustible liquids</i>
AS 2187.1	<i>AS 2187.1:1998 Explosives – Storage, transport and use</i>
AS 2885	<i>AS 2885 Pipelines – Gas and liquid petroleum</i>
AS 2885.6:2018	<i>AS 2885.6:2018 Pipelines – Gas and liquid petroleum, Part 6: Pipeline safety management</i>
BAM	Biodiversity assessment methodology
BAM-C	Biodiversity Assessment Method Calculator
BC Act	<i>Biodiversity Conservation Act 2016 (NSW)</i>
BC Regulation	Biodiversity Conservation Regulation 2017
BCS	NSW Biodiversity, Conservation and Science directorate of DCCEE (NSW) (former)
BDAR	Biodiversity Development Assessment Report
Biodiversity	The variety of plant and animal life in the world or in a particular habitat.
Biodiversity and Conservation SEPP	State Environmental Planning Policy (Biodiversity and Conservation) 2021

Term/abbreviation	Definition
Biodiversity offsets	Measures that benefit biodiversity by compensating for the adverse impacts elsewhere of an action, such as clearing for development. Biodiversity offsets work by protecting and managing biodiversity values in one area in exchange for impacts on biodiversity values in another.
Biophysical	The physical environment (water, soil etc) as well as the biological activity within it (plants, animals, etc).
BoM	Bureau of Meteorology
BS	British Standard
Catchment	The land area draining through the main stream, as well as tributary streams, to a particular site. It always relates to an area above a specific location.
CEEC	Critically endangered ecological community
CEMP	Construction environmental management plan
Climate	The average weather experienced at a site or region over a period of many years, ranging from months to many thousands of years. The relevant measured quantities are most often surface variables such as temperature, rainfall and wind.
CO ₂	Carbon dioxide
Construction	Includes all physical work required to construct the project.
Construction compound	An area used as the base for construction activities, which can include the storage of plant, equipment and materials, vehicle washdown, workshops, construction site offices and worker facilities.
Construction right of way	The area that would be directly disturbed (mainly as a result of trenching and associated activities) to construct the pipeline within the project site.
Construction environmental management plan	A project-specific plan developed for the construction phase of a project, to ensure that all contractors and sub-contractors comply with all environmental requirements, including the conditions of approval for the project, and that the potential environmental impacts are properly managed.
CPHR	Conservation Programs, Heritage and Regulation branch of NSW DCCEEW
Crown land	Land that is owned by the NSW Government.
Cth	Commonwealth
Cumulative impacts	Impacts that, when considered together, have different and/or more substantial impacts than a single impact assessed on its own.
dB	Decibels
dBA	Used as a measure of A-frequency weighed sound levels
DCCEEW	Department of Climate Change, Energy, the Environment and Water
DEC	Department of Environment and Conservation (NSW) (former)
DECC	Department of Environment and Climate Change (NSW) (former)
DECCW	Department of Environment, Climate Change and Water (NSW) (former)
DISR	Department of Industry, Science and Resources (Australian Government)
Disturbance footprint	The area of land that would be subject to direct land disturbance and clearing to construct the project, excluding areas approved for disturbance for the Narrabri Gas Project and the Hunter Gas Pipeline.
DoP	Department of Planning (NSW) (former)

Term/abbreviation	Definition
DPE	Department of Planning and Environment (NSW) (former)
DPHI	Department of Planning, Housing and Infrastructure (NSW)
DPIE	Department of Planning, Industry and Environment (NSW) (former)
Ecosystem credit	This involves assessing the value of EECs, CEECs, and threatened species habitats for species likely to be found within a PCT. Ecosystem credits quantify the reduction in biodiversity at a development site and the corresponding increase in biodiversity at a conservation site.
EEC	Endangered ecological community
EIS	Environmental Impact Statement
Emission	A substance discharged into the air.
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i> (NSW)
EPA	Environmental Protection Authority
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth)
Erosion	A natural process where wind or water detaches a soil particle and provides energy to move the particle.
ESD	Ecologically sustainable development
FM Act	<i>Fisheries Management Act 1994</i> (NSW)
Greenhouse gas	Greenhouse gases are those gaseous constituents of the atmosphere, both natural and anthropogenic, that absorb and emit radiation at specific wavelengths within the spectrum of terrestrial radiation emitted by the Earth's surface, the atmosphere itself, and by clouds. Water vapour (H ₂ O), carbon dioxide (CO ₂), nitrous oxide (N ₂ O), methane (CH ₄) and ozone (O ₃) are the primary greenhouse gases in the Earth's atmosphere (CSIRO and BoM, 2015).
ha	Hectare
Hazardous scenario	A scenario that presents a hazard to people, property or the biophysical environment. May result in a consequence event.
HDD	Horizontal directional drilling
HIPAP	Hazardous Industry Planning and Advisory Paper
Hunter Gas Pipeline	The Hunter Gas Pipeline is an approved underground gas transmission pipeline between Wallumbilla in Queensland (500 kilometres west of Brisbane) and Newcastle in NSW. It was approved (as a Part 3A project under the EP&A Act) on 11 February 2009 (approval reference MP 06_0286). The approval was subsequently transitioned from Part 3A to State significant infrastructure and declared a critical State significant infrastructure project in July 2018. The Narrabri Lateral Pipeline will connect the Narrabri Gas Project to the Hunter Gas Pipeline.
Hydrology	The study of rainfall and surface water runoff processes.
IAQM Guidance	<i>Guidance on the assessment of dust from demolition and construction</i> (Institute of Air Quality Management, 2024)
IBRA	Interim Biogeographic Regionalisation for Australia
IECA	International Erosion Control Association (Australasia)
IPC	Independent Planning Commission
ISCA	Infrastructure Sustainability Council Australia

Term/abbreviation	Definition
K – factor	Soil erodibility factor
KP	Kilometre point
kV	Kilovolt
L _{Aeq}	Equivalent continuous sound level
L _{Amax}	A-weighted maximum sound level
LALC	Local Aboriginal Land Council
LEP	Local environmental plan
LGA	Local government area
Magnitude	The physical size and scale of an impact at a location.
ML	Mining lease
MNES	Matters of national environmental significance
Narrabri Gas Project	The Narrabri Gas Project is a State significant development approved by the Independent Planning Commission in September 2020 (approval reference SSD 6456). It is located about 20 kilometres south-west of Narrabri and comprises the installation of gas wells, gas and water gathering systems, gas processing and compression facilities, and other supporting infrastructure.
Narrabri Gas Project Infrastructure Corridor	An existing corridor between the Leewood gas processing facility and the Bibblewindi gas facility comprising a gas pipeline and a two water pipelines. The corridor will be expanded under the Narrabri Gas Project approval to incorporate an additional water pipeline, 132 kilovolt electricity cables, a medium pressure gas pipeline and communications cables.
NGER Act	<i>National Greenhouse and Energy Reporting Act 2007</i> (Cth)
NGER Scheme	National Greenhouse and Energy Reporting Scheme
NPW Act	<i>National Parks and Wildlife Act 1974</i> (NSW)
NSW	New South Wales
NSW EPA	NSW Environment Protection Authority
OSOM	Oversize and overmass loads
PAD	Potential archaeological deposit
PCT	Plant community type
Permanent easement	The land required to operate and maintain the underground pipeline, which is registered on the underlying land title.
PHA	Preliminary hazard analysis
Pipelines Act	<i>Pipelines Act 1967</i> (NSW)
Pipelines Regulation	Pipelines Regulation 2023 (NSW)
Planning Systems SEPP	State Environmental Planning Policy (Planning Systems) 2021
PM ₁₀	Particulate matter 10 micrometres or less in diameter. Particles in this size range make up a large proportion of dust that can be drawn deep into the lungs. This is a classification of particles by size rather than chemical properties.
PM _{2.5}	Particulate matter (airborne dust) with a size of 2.5 micrograms.
PMF	Probable maximum flood

Term/abbreviation	Definition
Podzolic soils	Soils that are usually formed in a broadleaf forest and are mostly characterised by average leaching, but also highly susceptible to compaction.
POEO Act	<i>Protection of the Environment Operations Act 1997</i> (NSW)
PPL	Petroleum production lease
Project	Construction and operation of the Narrabri Lateral Pipeline, comprising an underground gas transmission pipeline and associated above ground infrastructure, to connect the approved Narrabri Gas Project to the approved Hunter Gas Pipeline.
Project site	The area required to construct, operate (including maintain) and decommission the project.
RAP	Registered Aboriginal party
Rating background level	The underlying level of noise present in an area once transient and short-term noise events are filtered out.
SAL	Suburb and Locality (ABS Census definition)
SCADA	Supervisory control and data acquisition
SEARs	Secretary's environmental assessment requirements
Sensitive receiver	A location where people are likely to work or reside, these may include a dwelling, school, hospital, office or public recreational area.
SEPP	State Environmental Planning Policy
SO ₂	Sulphur dioxide
Soloths	Soils formed from saline material for which the surface layer is soft and friable.
State significant infrastructure	Major transport and services infrastructure considered to have State significance as a result of size, economic value or potential impacts.
Study area	The 'study area' is defined as the wider area including and surrounding the project site, with the potential to be directly or indirectly affected by construction and operation of the project (for example, by noise and vibration, visual, or traffic impacts). The actual size and extent of the study area varies according to the nature and requirements of each assessment and the relative potential for impacts.
t CO ₂ -e	Tonnes of carbon dioxide equivalent
TEC	Threatened ecological communities
Trenching	Excavation of a trench for burial of a pipeline
Viewpoint	The point from which a view is observed that represents a visual receiver.
Waste	Includes any matter (whether liquid, solid, gaseous or radioactive) that is discharged, emitted or deposited in the environment in such volume, constituency, or manner as to cause an alteration to the environment.
Water Management Act	<i>Water Management Act 2000</i> (NSW)
Water Management Regulation	Water Management (General) Regulation 2018 (NSW)