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Published on: 11 August 2021

Statement No. 1172

STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED
(*Environmental Protection Act 1986*)

SCARBOROUGH PROJECT – NEARSHORE COMPONENT

Proposal: Woodside is proposing to develop the Scarborough gas field, with a target of achieving first gas production between 2023 and 2025. The Scarborough Project concept comprises subsea wells, a semi-submersible gas processing and compression floating production unit in offshore Commonwealth waters and export trunkline 434 kilometres long running to the Pluto LNG Facility on the Burrup Peninsula.

The nearshore component subject of this referral includes the installation of the section of the trunkline running from the State waters boundary up to KP0 (about 1.5 m above HAT) (about 32.7 kilometres long) and associated activities.

Proponent: Woodside Energy Ltd
Australian Company Number 005 482 986

Proponent Address: 11 Mount Street Perth WA 6000

Assessment Number: 2194

Report of the Environmental Protection Authority: 1664

Pursuant to section 45 of the *Environmental Protection Act 1986*, it has been agreed that the proposal described and documented in Table 1 of Schedule 1 may be implemented and that the implementation of the proposal is subject to the following implementation conditions and procedures:

1 Proposal Implementation

1-1 When implementing the proposal, the proponent must not exceed the authorised extent of the proposal as defined in Table 2 of Schedule 1, unless amendments to the proposal and the authorised extent of the proposal have been approved under the EP Act.

2 Contact Details

- 2-1 The proponent must notify the CEO of any change of its name, physical address or postal address for the serving of notices or other correspondence within twenty-eight (28) days of such change. Where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State.

3 Time Limit for Proposal Implementation

- 3-1 The proponent must not commence implementation of the proposal after five (5) years from the date of this Statement, and any commencement, prior to this date, must be substantial.
- 3-2 Any commencement of implementation of the proposal, on or before five (5) years from the date of this Statement, must be demonstrated as substantial by providing the CEO with written evidence, on or before the expiration of five (5) years from the date of this Statement.

4 Compliance Reporting

- 4-1 The proponent must prepare, and maintain a Compliance Assessment Plan which is submitted to the CEO at least six (6) months prior to the first Compliance Assessment Report required by condition 4-6, or prior to implementation of the proposal, whichever is sooner.
- 4-2 The Compliance Assessment Plan must indicate:
- (1) the frequency of compliance reporting;
 - (2) the approach and timing of compliance assessments;
 - (3) the retention of compliance assessments;
 - (4) the method of reporting of potential non-compliances and corrective actions taken;
 - (5) the table of contents of Compliance Assessment Reports; and
 - (6) public availability of Compliance Assessment Reports.
- 4-3 After receiving notice in writing from the CEO that the Compliance Assessment Plan satisfies the requirements of condition 4-2 the proponent must assess compliance with conditions in accordance with the Compliance Assessment Plan required by condition 4-1.
- 4-4 The proponent must retain reports of all compliance assessments described in the Compliance Assessment Plan required by condition 4-1 and shall make those reports available when requested by the CEO.

- 4-5 The proponent must advise the CEO of any potential non-compliance within seven (7) days of that non-compliance being known.
- 4-6 The proponent must submit to the CEO the first Compliance Assessment Report fifteen (15) months from the date of issue of this Statement addressing the twelve (12) month period from the date of issue of this Statement and then annually from the date of submission of the first Compliance Assessment Report, or as otherwise agreed in writing by the CEO.

The Compliance Assessment Report must:

- (1) be endorsed by the proponent's Chief Executive Officer or a person delegated to sign on the Chief Executive Officer's behalf;
- (2) include a statement as to whether the proponent has complied with the conditions;
- (3) identify all potential non-compliances and describe corrective and preventative actions taken;
- (4) be made publicly available in accordance with the approved Compliance Assessment Plan; and
- (5) indicate any proposed changes to the Compliance Assessment Plan required by condition 4-1.

5 Public Availability of Data

- 5-1 Subject to condition 5-2, within a reasonable time period approved by the CEO of the issue of this Statement and for the remainder of the life of the proposal the proponent must make publicly available, in a manner approved by the CEO, all validated environmental data (including sampling design, sampling methodologies, empirical data and derived information products (e.g. maps)), management plans and reports relevant to the assessment of this proposal and implementation of this Statement.
- 5-2 If any data referred to in condition 5-1 contains particulars of:

- (1) a secret formula or process; or
- (2) confidential commercially sensitive information;

the proponent may submit a request for approval from the CEO to not make these data publicly available. In making such a request the proponent must provide the CEO with an explanation and reasons why the data should not be made publicly available.

6 Dredging and Spoil Disposal Management Plan

- 6-1 The proponent must ensure implementation of the proposal achieves the following Environmental Protection Outcomes:
- (1) no detectable net reduction of live coral cover at any of the coral impact monitoring locations attributable to the proposal; and
 - (2) avoid where possible and otherwise minimise direct and indirect impacts on marine fauna listed as specially protected fauna under the *Biodiversity Conservation Act 2016*.
- 6-2 Prior to dredging activities, the proponent shall finalise and submit a further revision of the Dredging and Spoil Disposal Management Plan (SA0006AH0000002, Rev 2, November 2019), in consultation with the Murujuga Aboriginal Corporation, to meet the Environmental Protection Outcomes specified in condition 6-1.
- 6-3 The Dredging and Spoil Disposal Management Plan as required by condition 6-2 shall include:
- (1) a requirement for all dredging and spoil disposal activities to be managed with the objective of achieving the Environmental Protection Outcomes required by condition 6-1;
 - (2) a benthic habitat map showing the extent and distribution of benthic communities and habitats;
 - (3) sediment plume modelling outputs to inform predicted impacts and losses of benthic communities and habitat, including a cumulative loss assessment;
 - (4) presentation of the sediment plume outputs in an impact zonation scheme;
 - (5) management trigger indicators based on pressure response pathways and proposed adaptive management actions;
 - (6) monitoring program including reference and impact monitoring site locations and methods (including timing) to provide data to allow assessment against the management trigger indicators and the Environmental Protection Outcome required by condition 6-1(1), and to inform adaptive management actions;
 - (7) a tiered monitoring/management feedback loop to manage dredging, spoil disposal and backfill operations to achieve the Environmental Protection Outcome required by condition 6-1(1);

- (8) procedures to be implemented to minimise the environmental impact of trunkline installation vessel operations, including vessel anchoring;
- (9) procedures developed in consultation with the Department of Primary Industries and Regional Development for managing all vessels and immersible equipment activities prior to mobilisation and during the life of the proposal to prevent the introduction of marine pests into the State, within the State and into or out of the Dampier Archipelago;
- (10) monitoring and management measures to achieve the Environmental Protection Outcome in condition 6-1(2), including but not limited to:
 - (a) measures to avoid direct vessel strikes with marine fauna;
 - (b) measures to minimise direct entrainment impacts on turtles, including not operating dredge pumps during transit;
 - (c) exclusion zones and observation zones for dredging;
 - (d) noise management procedures to avoid temporary and permanent changes to hearing sensitivity in marine fauna and minimise behavioural responses, including but not limited to during any pile-driving activities (including implementing soft start procedures, restricting pile-driving to day-light hours and precluding pile-driving operations during the period May to October inclusive, exclusion zones and trained fauna observers);
 - (e) measures to minimise indirect impacts on turtles from lighting, including by minimising lighting use on vessels and during onshore construction;
 - (f) recording sightings and locations of marine fauna in the vessels' daily log book; and
 - (g) documenting and reporting to relevant regulators any incidents relating to marine fauna injury / mortality.
- (11) procedures for determining whether any management trigger exceedances are attributable to the implementation of the proposal;
- (12) contingency management strategies to be employed if management triggers are reached as a result of the proposal;
- (13) clear reporting procedures if management triggers are reached;
- (14) mechanisms to provide the public with details of exceedances of management triggers and contingency actions as soon as practicable;

- (15) mechanisms to notify the public if marine recreational values are likely to be impacted as a result of the dredging, spoil disposal and/or backfill activities; and
 - (16) evidence of the consultation required and the outcomes of this consultation.
- 6-4 Dredging activities may not commence until the proponent has received notice in writing from the CEO that the Dredging and Spoil Disposal Management Plan satisfies the requirements of condition 6-3.
- 6-5 The proponent:
- (1) may review and revise the Dredging and Spoil Disposal Management Plan;
or
 - (2) must review and revise the Dredging and Spoil Disposal Management Plan as and when directed by the CEO.
- 6-6 The proponent shall implement the latest revision of the Dredging and Spoil Disposal Management Plan required by condition 6-2, which the CEO has confirmed by notice in writing, satisfies the requirements of condition 6-3.
- 6-7 In the event that monitoring carried out under the Dredging and Spoil Disposal Management Plan determines that the relevant Environmental Protection Outcomes required by condition 6-1 are not being achieved the proponent shall:
- (1) immediately implement the relevant contingency management actions specified in the Dredging and Spoil Disposal Management Plan, and continue implementation of those actions until it is demonstrated that the Environmental Protection Outcomes required by condition 6-1 are being achieved and will continue to be achieved;
 - (2) investigate the likely cause of the Environmental Protection Outcomes required by condition 6-1 not being achieved;
 - (3) within twenty-four (24) hours of determining that any of the Environmental Protection Outcomes required by condition 6-1 are not being achieved, report the non-achievement to the CEO;
 - (4) within seven (7) days of determining that any of the Environmental Protection Outcomes required by condition 6-1 are not being achieved submit to the CEO a report detailing the following:
 - (a) the results of the monitoring that led to the determination that any of the Environmental Protection Outcomes required by condition 6-1 are not being achieved;
 - (b) the investigation being undertaken as required by condition 6-7(2);

- (c) any notifications and contingency management actions implemented by the proponent following determination that any of the Environmental Protection Outcomes required by condition 6-1 are not being achieved; and
- (d) provide a report detailing the findings of the investigation required by condition 6-7(2) to the CEO within twenty-one (21) days of first determining that any of the Environmental Protection Outcomes set in condition 6-1 are not being achieved.

6-8 The proponent shall submit to the CEO annual Compliance Assessment Reports in accordance with condition 4-6 which includes:

- (1) all monitoring data and reportable incidents required by conditions 6-7(3) and 6-7(4);
- (2) an analysis and interpretation of monitoring data to demonstrate compliance with the requirements of condition 6-1; and
- (3) an assessment of the effectiveness of monitoring, management and contingency measures implemented to ensure compliance with the requirements of condition 6-1.

7 Cultural Heritage Management Plan

7-1 The proponent must implement the proposal to meet the following objective:

- (1) Minimise direct and indirect impacts to social, cultural, heritage and archaeological values within and surrounding the Development Envelope, including from, but not limited to:
 - (a) disturbance of the ground that may impact Aboriginal Heritage Site, 19675 Holden Point Quarry A and accompanying conservation zone (known as 'Tool Shed') registered under the *Aboriginal Heritage Act 1972*;
 - (b) potential loss of access to areas to undertake traditional activities;
 - (c) indirect impacts, including visual and dust impacts to social and cultural places and activities; and
 - (d) disturbance of areas of volcanic rock in the sea bed.

7-2 Prior to ground disturbing activities, the proponent shall finalise and submit a further version of the Cultural Heritage Management Plan (SA0006GH1401311448, Rev A, November 2019), in consultation with the Murujuga Aboriginal Corporation, to meet the objective specified in condition 7-1.

- 7-3 The Cultural Heritage Management Plan required by condition 7-2 must:
- (1) specify the objective to be achieved, as specified in condition 7-1;
 - (2) specify risk-based management actions that will be implemented to demonstrate compliance with the objective specified in condition 7-1;
 - (3) specify measurable management target(s) to determine the effectiveness of the risk-based management actions;
 - (4) specify monitoring to measure the effectiveness of management actions against management targets;
 - (5) specify a process for revision of management actions and changes to proposal activities, in the event that the management targets are not achieved. The process must include an investigation to determine the cause of the management target(s) not being met;
 - (6) provide the format and timing to demonstrate that condition 7-1 has been met for the reporting period in the Compliance Assessment Report required by condition 4-6 including, but not limited to:
 - (a) verification of the implementation of management actions; and
 - (b) reporting on the effectiveness of management actions against management target(s); and
 - (7) provide evidence of consultation required by condition 7-2 and the outcomes of this consultation.
- 7-4 Ground disturbing activities may not commence until the proponent has received notice in writing from the CEO that the Cultural Heritage Management Plan satisfies the requirements of condition 7-3.
- 7-5 After receiving notice in writing from the CEO that the Cultural Heritage Management Plan satisfies the requirements of condition 7-3, the proponent must:
- (1) implement the provisions of the Cultural Heritage Management Plan; and
 - (2) continue to implement the Cultural Heritage Management Plan until the CEO has confirmed by notice in writing that the proponent has demonstrated the objective specified in condition 7-1 has been met.
- 7-6 In the event that monitoring, tests, surveys or investigations indicate non-achievement of management target(s) specified in the Cultural Heritage Management Plan, the proponent must:

- (1) report the non-achievement in writing to the CEO within twenty-one (21) days of the non-achievement being identified;
- (2) investigate to determine the cause of the management target(s) not being achieved;
- (3) provide a report to the CEO within ninety (90) days of the non-achievement being reported as required by condition 7-6(1). The report must include:
 - (a) cause of management target(s) being exceeded;
 - (b) the findings of the investigation required by condition 7-6(2);
 - (c) details of revised and/or additional management actions to be implemented to prevent non-achievement of the management target(s); and
 - (d) relevant changes to proposal activities.

7-7 In the event that monitoring, tests, surveys or investigations indicate that one or more management action(s) specified in the Cultural Heritage Management Plan have not been implemented, the proponent must:

- (1) investigate to determine the cause of the management action(s) not being implemented;
- (2) investigate to provide information for the CEO to determine potential environmental harm or alteration of the environment that occurred due to the failure to implement management action(s);
- (3) provide a report to the CEO within twenty-eight (28) days of the non-compliance being identified. The report must include:
 - (a) cause for failure to implement management action(s);
 - (b) the findings of the investigation required by condition 7-7(2);
 - (c) relevant changes to proposal activities; and
 - (d) measures to prevent, control or abate the environmental harm which may have occurred.

7-8 The proponent:

- (1) may review and revise the Cultural Heritage Management Plan; or
- (2) must review and revise the Cultural Heritage Management Plan as and when directed by the CEO.

7-9 The proponent must implement the latest revision of the Cultural Heritage Management Plan required by condition 7-2, which the CEO has confirmed by notice in writing, satisfies the requirements of condition 7-3.

[signed on 11 August 2021]

HON AMBER-JADE SANDERSON MLA
MINISTER FOR ENVIRONMENT; CLIMATE ACTION

Table 1: Summary of the Proposal

Proposal Title	Scarborough Project – Nearshore Component
Short Description	<p>Woodside is proposing to develop the Scarborough gas field, with a target of achieving first gas production between 2023 and 2025. The Scarborough Project concept comprises subsea wells, a semi-submersible gas processing and compression floating production unit in offshore Commonwealth waters and export trunkline 434 kilometres long running to the Pluto LNG Facility on the Burrup Peninsula.</p> <p>The nearshore component subject of this referral includes the installation of the section of the trunkline running from the State waters boundary up to KP0 (approximately 1.5 m above HAT) (~32.7 kilometres long) and associated activities.</p>

Table 2: Location and authorised extent of physical and operational elements

Column 1	Column 2	Column 3
Element	Location	Authorised Extent
<i>Physical elements</i>		
Trunkline and trench	Figures 1 and 2	<p>A 32 inch carbon steel trunkline 32.7 kilometres long installed in a trench around 2–4.3 metres deep and an average width of approximately 30 m resulting in an indicative footprint of 1 km² for the trunkline and trench as shown in Figure 2. The trench would be backfilled with sand and/or rock material for stabilisation purposes along the trunkline as required.</p> <p>Concrete blocks backfilled with trenching material may also be required to provide reaction forces. These would be laid within the trench footprint and retained in place to maintain the reaction forces once the pipe is laid. The trench backfilling operations will cover these blocks on completion of the construction works.</p> <p>Anchoring will be required for the nearshore pipelay barge and other construction vessel activities. Piles may also be required due to the proximity to the Pluto trunkline which may prevent the use of anchors for the pipelay activities. It is estimated that anchor spreads may be required within a distance of 750 m from the trunkline centreline resulting in a development envelope of 50 km² to include construction and dredging vessel anchoring associated with the trunkline installation and stabilisation activities.</p>

Column 1	Column 2	Column 3
Element	Location	Authorised Extent
Temporary infrastructure and laydown areas for the shore crossing	Figure 1	<p>A temporary groyne around 100 metres long would be constructed on the shoreline between the pre-excavated trench and the Pluto jetty to allow excavating equipment to access and excavate the rock berm currently covering the trench. A suitable storage location will be required for the excavated rock assuming that this rock will be used to reinstate the shore crossing rock berm following trunkline installation.</p> <p>Up to 0.03 km² would be required at the shore crossing location for temporary offices, cranes and other equipment for the shore pull of the trunkline.</p>
Spoil ground for disposal of dredged sediments	Figure 2	<p>Spoil from the trunkline dredging operations will be placed in a combination of the spoil grounds listed below. The final spoil ground locations are subject to further engineering design and consultation with relevant stakeholders. The existing Spoil Ground locations are identified in Figure 2 and are not included in the development envelope area.</p> <p>Spoil Ground A/B (restricted to backhoe works) and 2B located in State Waters.</p> <p>Spoil Ground 5A located in Commonwealth Waters¹.</p>
Rock/sediment source for backfilling	Figure 2	<p>Sand and Rock materials may be required to assist with trunkline stabilisation.</p> <p>Sand is proposed to be obtained from borrow ground locations located in either State or Commonwealth waters.</p> <p>Rocks would be obtained from domestic or international sources.</p>
Operational elements		
Dredging and disposal of material during the trenching	Figure 2	<p>Dredging of maximum 2,781,700 m³ during the trenching for the trunkline, of which a maximum of 1,612,600 m³ will be in State Waters² and within the development envelope described in Figure 2. Dredge spoil would be disposed of at Spoil Ground A/B, 2B and/or 5A. The volumes would be confirmed during detailed engineering design.</p>
Rock/sediment placement	Figure 2	<p>Sediment from the borrow ground and rock material would be required. The volumes would be confirmed during detailed engineering design.</p>

Column 1	Column 2	Column 3
Element	Location	Authorised Extent
Pre-commissioning testing of trunkline	No figure	Wet and/or dry pre-commissioning testing would need to be undertaken prior to trunkline operations. Total discharge volume for a wet pre-commissioning would be maximum 225,189 m ³ based on length (434 km) and trunkline internal diameter (32 inch). Bulk discharge of the hydrotesting water is likely to be undertaken in Commonwealth Waters. The nearshore component of the pipeline may be tested separately to provide pipeline stability prior to backfill/rock dumping activities or if a performance test of the nearshore component of the pipeline is required prior to backfill/rock dumping operations.

¹ Provided for information only but not assessed as part of this referral.

² All trenching volumes are based on 'in-situ' measurement (i.e. confirmed by hydrographic survey techniques).

Table 3: Abbreviations and Definitions

Acronym or Abbreviation	Definition or Term
CEO	The Chief Executive Officer of the Department of the Public Service of the State responsible for the administration of section 48 of the <i>Environmental Protection Act 1986</i> , or his delegate.
EP Act	<i>Environmental Protection Act 1986</i>
ha	hectare
HAT	highest astronomical tide
km	kilometre
km ²	square kilometre
LNG	liquefied natural gas
m ³	cubic metre

Attachments:

Figure 1. Development envelope and indicative footprint of the shore crossing site

Figure 2. Development envelope and indicative footprint



Figure 1: Development envelope and indicative footprint of the shore crossing site



Figure 2: Development envelope and indicative footprint

Schedule 2

Coordinates defining the areas shown in Figures 1 and 2 are held by the Department of Water and Environmental Regulation under the following reference number:

- Development Envelope DWERDT238579.

All coordinates are in metres, listed in Map Grid of Australia Zone 50 (MGA Zone 50), datum of Geocentric Datum of Australia 1994 (GDA94).

Attachment 1 to Ministerial Statement 1172

Amendment to proposal and/or implementation conditions approved under section 45C of the *Environmental Protection Act 1986*

This Attachment replaces Schedule 1 of Ministerial Statement 1172.

Proposal: Woodside is proposing to develop the Scarborough gas field, with a target of achieving first gas production between 2023 and 2025. The Scarborough Project concept comprises subsea wells, a semi-submersible gas processing and compression floating production unit in offshore Commonwealth waters and export trunkline 434 kilometres long running to the Pluto LNG Facility on the Burrup Peninsula.

The nearshore component subject of this referral includes the installation of the section of the trunkline running from the State waters boundary up to KP0 (about 1.5 m above HAT) (about 32.7 kilometres long) and associated activities.

Proponent: Woodside Energy Ltd
Australian Company Number 005 482 986

Changes:

- Amendment to Proposal: Increase the authorised extent of nominal diameter of the trunkline from 32 inch to 36 inch.
 - No amendments to implementation conditions.
-

Table 1: Summary of the proposal

Proposal Title	Scarborough Project – Nearshore Component
Short Description	<p>Woodside is proposing to develop the Scarborough gas field, with a target of achieving first gas production between 2023 and 2025. The Scarborough Project concept comprises subsea wells, a semi-submersible gas processing and compression floating production unit in offshore Commonwealth waters and export trunkline 434 kilometres long running to the Pluto LNG Facility on the Burrup Peninsula.</p> <p>The nearshore component subject of this referral includes the installation of the section of the trunkline running from the State waters boundary up to KP0 (approximately 1.5 m above HAT) (~32.7 kilometres long) and associated activities.</p>

Table 2: Location and authorised extent of physical and operational elements

Proposal element	Location / description	Previously authorised maximum extent, capacity or range	Authorised maximum extent, capacity or range
Physical elements			
Trunkline and trench	Figures 1 and 2	<p>A 32 inch carbon steel trunkline 32.7 kilometres long installed in a trench around 2–4.3 metres deep and an average width of approximately 30 m resulting in an indicative footprint of 1 km² for the trunkline and trench as shown in Figure 2. The trench would be backfilled with sand and/or rock material for stabilisation purposes along the trunkline as required.</p> <p>Concrete blocks backfilled with trenching material may also be required to provide reaction forces. These would be laid within the trench footprint and retained in place to maintain the reaction forces once the pipe is laid. The trench backfilling operations will cover these blocks on completion of the construction works.</p> <p>Anchoring will be required for the nearshore pipelay barge and other construction vessel activities. Piles may also be required due to the proximity to the Pluto trunkline which may prevent the</p>	<p>A 36 inch carbon steel trunkline 32.7 kilometres long installed in a trench around 2–4.3 metres deep and an average width of approximately 30 m resulting in an indicative footprint of 1 km² for the trunkline and trench as shown in Figure 2. The trench would be backfilled with sand and/or rock material for stabilisation purposes along the trunkline as required.</p> <p>Concrete blocks backfilled with trenching material may also be required to provide reaction forces. These would be laid within the trench footprint and retained in place to maintain the reaction forces once the pipe is laid. The trench backfilling operations will cover these blocks on completion of the construction works.</p> <p>Anchoring will be required for the nearshore pipelay barge and other construction vessel activities. Piles may also be required due to the proximity to the Pluto trunkline which may prevent the</p>

Proposal element	Location / description	Previously authorised maximum extent, capacity or range	Authorised maximum extent, capacity or range
		<p>use of anchors for the pipelay activities. It is estimated that anchor spreads may be required within a distance of 750 m from the trunkline centreline resulting in a development envelope of 50 km² to include construction and dredging vessel anchoring associated with the trunkline installation and stabilisation activities.</p>	<p>use of anchors for the pipelay activities. It is estimated that anchor spreads may be required within a distance of 750 m from the trunkline centreline resulting in a development envelope of 50 km² to include construction and dredging vessel anchoring associated with the trunkline installation and stabilisation activities.</p>
<p>Temporary infrastructure and laydown areas for the shore crossing</p>	<p>Figure 1</p>	<p>A temporary groyne around 100 metres long would be constructed on the shoreline between the pre-excavated trench and the Pluto jetty to allow excavating equipment to access and excavate the rock berm currently covering the trench. A suitable storage location will be required for the excavated rock assuming that this rock will be used to reinstate the shore crossing rock berm following trunkline installation.</p> <p>Up to 0.03 km² would be required at the shore crossing location for temporary offices, cranes and other equipment for the shore pull of the trunkline.</p>	<p>A temporary groyne around 100 metres long would be constructed on the shoreline between the pre-excavated trench and the Pluto jetty to allow excavating equipment to access and excavate the rock berm currently covering the trench. A suitable storage location will be required for the excavated rock assuming that this rock will be used to reinstate the shore crossing rock berm following trunkline installation.</p> <p>Up to 0.03 km² would be required at the shore crossing location for temporary offices, cranes and other equipment for the shore pull of the trunkline.</p>
<p>Spoil ground for disposal of dredged sediments</p>	<p>Figure 2</p>	<p>Spoil from the trunkline dredging operations will be placed in a combination of the spoil grounds listed below. The final spoil ground locations are subject to further engineering design and consultation with relevant</p>	<p>Spoil from the trunkline dredging operations will be placed in a combination of the spoil grounds listed below. The final spoil ground locations are subject to further engineering design and consultation with relevant</p>

Proposal element	Location / description	Previously authorised maximum extent, capacity or range	Authorised maximum extent, capacity or range
		<p>stakeholders. The existing Spoil Ground locations are identified in Figure 2 and are not included in the development envelope area.</p> <p>Spoil Ground A/B (restricted to backhoe works) and 2B located in State Waters. Spoil Ground 5A located in Commonwealth Waters¹.</p>	<p>stakeholders. The existing Spoil Ground locations are identified in Figure 2 and are not included in the development envelope area.</p> <p>Spoil Ground A/B (restricted to backhoe works) and 2B located in State Waters. Spoil Ground 5A located in Commonwealth Waters¹.</p>
Rock/sediment source for backfilling	Figure 2	<p>Sand and Rock materials may be required to assist with trunkline stabilisation.</p> <p>Sand is proposed to be obtained from borrow ground locations located in either State or Commonwealth waters. Rocks would be obtained from domestic or international sources.</p>	<p>Sand and Rock materials may be required to assist with trunkline stabilisation.</p> <p>Sand is proposed to be obtained from borrow ground locations located in either State or Commonwealth waters. Rocks would be obtained from domestic or international sources.</p>
Operational elements			
Dredging and disposal of material during the trenching	Figure 2	<p>Dredging of maximum 2,781,700 m³ during the trenching for the trunkline, of which a maximum of 1,612,600 m³ will be in State Waters² and within the development envelope described in Figure 2. Dredge spoil would be disposed of at Spoil Ground A/B, 2B and/or 5A. The volumes would be confirmed during detailed engineering design.</p>	<p>Dredging of maximum 2,781,700 m³ during the trenching for the trunkline, of which a maximum of 1,612,600 m³ will be in State Waters² and within the development envelope described in Figure 2. Dredge spoil would be disposed of at Spoil Ground A/B, 2B and/or 5A. The volumes would be confirmed during detailed engineering design.</p>
Rock/sediment placement	Figure 2	<p>Sediment from the borrow ground and rock material would be required. The volumes would be confirmed during detailed engineering design.</p>	<p>Sediment from the borrow ground and rock material would be required. The volumes would be confirmed during detailed engineering design.</p>

Proposal element	Location / description	Previously authorised maximum extent, capacity or range	Authorised maximum extent, capacity or range
Pre-commissioning testing of trunkline	No figure	Wet and/or dry pre-commissioning testing would need to be undertaken prior to trunkline operations. Total discharge volume for a wet pre-commissioning would be maximum 225,189 m ³ based on length (434 km) and trunkline internal diameter (32 inch). Bulk discharge of the hydrotesting water is likely to be undertaken in Commonwealth Waters. The nearshore component of the pipeline may be tested separately to provide pipeline stability prior to backfill/rock dumping activities or if a performance test of the nearshore component of the pipeline is required prior to backfill/rock dumping operations.	Wet and/or dry pre-commissioning testing would need to be undertaken prior to trunkline operations. Total discharge volume for a wet pre-commissioning would be maximum 225,189 m ³ based on length (434 km) and trunkline internal diameter (36 inch). Bulk discharge of the hydrotesting water is likely to be undertaken in Commonwealth Waters. The nearshore component of the pipeline may be tested separately to provide pipeline stability prior to backfill/rock dumping activities or if a performance test of the nearshore component of the pipeline is required prior to backfill/rock dumping operations.

¹Provided for information only but not assessed as part of this referral.

²All trenching volumes are based on 'in-situ' measurement (i.e. confirmed by hydrographic survey techniques)

Note: Text in **bold** in Table 2 indicates a change to the proposal.

Table 3: Abbreviations

Abbreviation	Term
EP Act	Environmental Protection Act 1986
ha	hectare
HAT	highest astronomical tide
km	kilometre
km ²	square kilometre
LNG	liquefied natural gas
m ³	cubic metre


Figures (attached)

Figure 1 Development envelope and indicative footprint of the shore crossing site

Figure 2 Development envelope and indicative footprint

Development Envelope Coordinates

Coordinates defining the Scarborough Project – Nearshore Component development envelope are held by the Department of Water and Environmental Regulation, document reference number DWERDT238579.



Professor Matthew Tonts

CHAIR

Environmental Protection Authority

Delegate of the Minister for Environment

Approval date: 14 June 2022



Figure 1: Development envelope and indicative footprint of the shore crossing site



Figure 2: Development envelope and indicative footprint