



Our reference: 2410-42851 SRA
Your reference: OPW20/0004

9 April 2025

The Chief Executive Officer
Hinchinbrook Shire Council
PO Box 366
Ingham Qld 4850
council@hinchinbrook.qld.gov.au

Attention: Hayley Roy

Dear Hayley,

SARA change application decision (other than a minor change) – Dungeness Road, Lucinda

(Referral agency response given under section 56 of the *Planning Act 2016*)

The development application described below was confirmed as properly referred by the State Assessment and Referral Agency (SARA) on 21 October 2024.

Response

Outcome	Referral agency response – with conditions
Date of response	9 April 2025
Conditions	The conditions in Attachment 1 must be attached to any development approval
Advice	Advice to the applicant is in Attachment 2
Reasons	The reasons for the referral agency response are in Attachment 3

Development Details

Description	Change (Other) to Development Permit for Operational Work for Prescribed Tidal Works and Removal, Damage, and Destruction of Marine Plants and Material Change of Use for Environmentally Relevant Activity 16 (Dredging)
SARA role	Referral agency
SARA trigger	Schedule 10, Part 5, Division 4, Table 2, Item 1 (Planning Regulation 2017) – Development application involving non-devolved environmentally relevant activities Schedule 10, Part 6, Division 3, Subdivision 3, Table 1, Item 1

	(Planning Regulation 2017) – Development application for operational work involving marine plants
	Schedule 10, Part 17, Division 3, Table 1, Item 1 (Planning Regulation 2017) - Development application for operational work involving tidal works or work in a coastal management district
	Schedule 10, Part 17, Division 3, Table 2, Item 1(Planning Regulation 2017) - Development application for operational work involving tidal works or work in a coastal management district (maritime safety)
SARA reference	2410-42851 SRA
Assessment Manager	Hinchinbrook Shire Council
Site address	Dungeness Road, Lucinda
Real property description	On and adjacent to Lot 540 on SP291542
Applicant name	Hinchinbrook Shire Council
Applicant contact details	C/- Milford Planning PO Box 5463 TOWNSVILLE CITY QLD 4810 info@milfordplanning.com.au
<i>Human Rights Act 2019</i> considerations	The development was assessed with consideration to the human rights included under sections 15 to 37 of the <i>Human Rights Act 2019</i> and it is understood that the development does not impede on these human rights.

Representation

An applicant may make representations to a concurrence agency, at any time before the application is decided, about changing a matter in the referral agency response (s.30 Development Assessment Rules). Copies of the relevant provisions are in **Attachment 4**.

A copy of this response has been sent to the applicant for their information.

For further information please contact Mica Cook, Principal Planner, on 07 3452 7591 or via email DARTsupport@dsdilgp.qld.gov.au who will be pleased to assist.

Yours sincerely



Steve Conner
Executive Director, Planning Services

cc Hinchinbrook Shire Council, info@milfordplanning.com.au

enc Attachment 1—Referral agency conditions
Attachment 2—Advice to the applicant
Attachment 3—Reasons for referral agency response
Attachment 4—Representations about a referral agency response provisions
Attachment 5—Documents reference in conditions

Attachment 1—Referral agency conditions

Under section 56(1)(b)(i) of the *Planning Act 2016* the following conditions must be attached to any development approval relating to this application) (Copies of the documents referenced below are found at **Attachment 5**)

No.	Conditions	Condition timing
Operational Work		
Schedule 10, Part 17, Division 3, Table 1, Item 1 (Planning Regulation 2017) - Development application for operational work involving tidal works or work in a coastal management district—The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of Department of Environment, Tourism, Science and Innovation to be the enforcement authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
1.	The dredging and construction of the breakwater must be carried out generally in accordance with the following plans: • Site Overview, drawing number WT-ZZ-XX-DR-C-0001, revision P2, dated 04/02/2025 as amended in red by SARA • Coastal Structure, drawing number WT-ZZ-XX-DR-C-0002, revision P2, dated 04/02/2025 • Map 9: Potential Direct Impacts to Marine Plants, dated 30/01/2025 • Coastal Monitoring Dungeness Boating Safety Project, dated 01/04/2025.	At all times
2.	For the proposed works, only use clean materials and ensure that the works do not cause contamination.	At all times
3.	(a) In the event the works cause disturbance or oxidisation of acid sulfate soil, the affected soil must be treated and thereafter managed (until the affected soil has been neutralised or contained) in accordance with the current Queensland Acid Sulfate Soil Technical Manual: Soil management guidelines, prepared by the Department of Science, Information Technology, Innovation and the Arts, 2014. (b) Certification by a suitably qualified person(s), confirming that the affected soil has been neutralised or contained, in accordance with (a) above is to be provided to palm@des.qld.gov.au or mailed to: Department of the Environment, Tourism, Science and Innovation Permit and License Management Implementation and Support Unit GPO Box 2454 Brisbane Qld 4001. Any correspondence must state the application reference number: 2410-42851 SRA. Suitably qualified person(s) means a person or persons who has professional qualifications, training, skills and experience relevant to soil chemistry or acid sulfate soil management and can give authoritative assessment, advice and analysis in relation to acid sulfate soil management using the relevant protocols, standards, methods or literature.	(a) Upon disturbance or oxidisation until the affected soil has been neutralised or contained (b) At the time the soils have been neutralised or contained
4.	Earthworks associated with dredge spoil disposal must avoid underlying bedrock, coffee rock and other cemented sediment material or consolidated mud/organic material layers.	At all times
5.	Dredge spoil must be excavated only from the area identified as 'Dredge Channel Footprint' on plan Site Overview, drawing number WT-ZZ-XX-DR-C-0001, revision P2, dated 04/02/2025 as amended	At all times

	in red by SARA.	
6.	Dredge spoil must have the following characteristics for disposal: (i) the sand used for the work is not finer than the upper beach sand at the site (ii) the sediment is clean, free of contaminants and does not contain any building waste or rock.	At all times
7.	(a) Undertake a hydrographic survey, prepared by a suitably qualified person, of the dredge area and the immediate adjacent area likely to be affected by the dredging as defined by the Coastal Monitoring Dungeness Boating Safety Project plan, dated 01/04/2025. (b) Submit the hydrographic survey required under part (a) of this condition to palm@des.qld.gov.au or mailed to: Department of the Environment, Tourism, Science and Innovation Permit and License Management Implementation and Support Unit GPO Box 2454 Brisbane Qld 4001. Any correspondence must state the application reference number: 2410-42851 SRA. Suitably qualified person(s) means a person or persons who has professional qualifications, training, skills and experience relevant to hydrographic surveys.	(a) Within one month of completion of the works (b) Within four weeks of the completion of the works
8.	Enter into an agreed delivery arrangement to deliver an environmental offset in accordance with the Environmental Offsets Act 2014 to counterbalance the significant residual impacts on the matter of state environmental significance being 74,008.96m ² of High Ecological Significance Wetlands.	Prior to commencing any works that impact on the High Ecological Significance Wetlands
9.	(a) Undertake a localised high-resolution survey during Spring Low Tide of Dungeness Beach, the adjacent spit and the western mangrove island as defined by the Coastal Monitoring Dungeness Boating Safety Project plan, dated 01/04/2025. (b) Submit the survey required under part (a) of this condition to palm@des.qld.gov.au or mailed to: Department of the Environment, Tourism, Science and Innovation Permit and License Management Implementation and Support Unit GPO Box 2454 Brisbane Qld 4001. Any correspondence must state the application reference number: 2410-42851 SRA. Note: significant storm event is a storm event greater than 10% AEP over a 24-hour period or equivalent.	(a) Every six months or post significant storm event for ten years from commencement of construction (b) Within four weeks of the completion of the survey
10.	(a) Undertake a hydrographic survey, prepared by a suitably qualified person, of the Enterprise Channel and the adjacent Main Hinchinbrook Channel as defined by the Coastal Monitoring Dungeness Boating Safety Project plan, dated 01/04/2025. (b) Submit the survey required under part (a) of this condition to palm@des.qld.gov.au or mailed to: Department of the Environment, Tourism, Science and Innovation Permit and License Management Implementation and Support Unit GPO Box 2454 Brisbane Qld 4001 Suitably qualified person(s) means a person or persons who has	(a) Survey to be completed within the third, sixth and tenth year, following the commencement of construction (b) Within four weeks of the completion of each survey

	professional qualifications, training, skills and experience relevant to hydrographic surveys.	
11.	(a) Engage an appropriately qualified person to analyse and summarise the surveys undertaken to date in areas as defined by the Coastal Monitoring Dungeness Boating Safety Project plan, dated 01/04/2025, and review morphological changes and maintenance dredging requirements. (b) Provide a report stating the findings of the appropriately qualified person to palm@des.qld.gov.au or mailed to: Department of the Environment, Tourism, Science and Innovation Permit and License Management Implementation and Support Unit GPO Box 2454 Brisbane Qld 4001 Any correspondence must state the application reference number: 2410-42851 SRA.	(a) Every six months from commencement of construction, until the completion of survey effort required by Conditions 7, 9 and 10 (b) Within four weeks of the completion of the report
Schedule 10, Part 6, Division 3, Subdivision 3, Table 1, Item 1 (Planning Regulation 2017) – Development application for operational work involving marine plants—The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of Department of Primary Industries to be the enforcement authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
12.	The works must be constructed generally in accordance with the following plans: - Site Overview, drawing number WT-ZZ-XX-DR-C-0001, revision P2, dated 04/02/2025 as amended in red by SARA - the areas labelled Channel, Indicative placement of dredge spoil (placement will avoid marine plants), Coastal structure, Indicative access track, Indicative dredge pipeline, Exclusion zone fencing shown in Map 9: Potential Direct Impacts to Marine Plants, dated 30/01/2025.	At all times
13.	The dredging must only be conducted between 1 February and 31 October to minimise the impacts of dredging on fish migration and spawning.	For the duration of the works
14.	Enter into an agreed delivery arrangement to deliver an environmental offset in accordance with the <i>Environmental Offsets Act 2014</i> to counterbalance the significant residual impacts on the matter of state environmental significance being 0.065ha of marine plants	Prior to commencing any works that impact on the marine plants
15.	Provide written notice to notifications@daf.qld.gov.au when the development authorised under this approval: (a) will start (b) when it has been completed. Any correspondence must state the application reference number: 2410-42851 SRA.	(a) At least five business days but no greater than 20 business days prior to the commencement of the works (b) Within 15 business days of the completion of the fisheries development works
16.	Dredge spoil and the construction of the breakwater must be managed to prevent acid soil development.	At all times
17.	This fisheries development (as defined by the <i>Fisheries Act 1994</i>) constitutes a place that is required to be open for inspection by an	At all times

	inspector, pursuant to section 145 of the <i>Fisheries Act 1994</i> .	
18.	Development is limited to: (a) the permanent removal, damage, destruction of 0.065ha of marine plants: (i) 0.0260ha of seagrass (ii) 0.005ha of mangroves and (iii) 0.034ha of mangrove debris And: (b) the temporary removal, destruction and damage of 0.054ha of marine plants: (i) 0.006ha of seagrass (ii) 0.016ha of mangroves and (iii) 0.032ha mangrove debris As shown in Map 9: Potential Direct Impacts to Marine Plants, dated 30/01/2025.	At all times
19.	(a) Rehabilitate the areas authorised for temporary disturbance to mangroves and mangrove debris in Condition 18 generally in accordance with Item 4 and Item 6 of Memorandum: Dungeness Beach, Lucinda – M1499 SARA Advice Notice, reference 240308Mii and dated 6/02/2025. Where active restoration is required, collection is limited to 20 litres of mangrove seeds or propagules per day, by hand, by a person or entity suitably qualified and experienced in marine plant propagule collection from a location within 100km of the restoration site. Collection is limited to a maximum of 30 days. (b) Submit a written report to the Department of Primary Industries at notifications@daf.qld.gov.au after each monitoring event, summarising the findings of monitoring as detailed in Item 4 and Item 6 of Memorandum: Dungeness Beach, Lucinda – M1499 SARA Advice Notice, reference 240308Mii and dated 6/02/2025. Any correspondence must state the application reference number: 2410-42851 SRA.	(a) and (b) Within a month of each monitoring event
20.	(a) Remove marine plants that have been authorised for removal as part of this development from the intertidal zone. (b) Dispose of all material other than that in Condition 19 associated with the development (e.g., debris, construction material, soil, etc.) from the intertidal zone at an appropriate licensed facility.	(a) As soon as reasonably practicable after the marine plants have been removed (b) As soon as reasonably practicable
21.	Mark with corner pegs and/or buoys, the boundary of the approved tidal and marine plant component of the development footprint, as shown on Map 9: Potential Direct Impacts to Marine Plants, dated 30/01/2025.	Prior to the commencement of works and to be maintained until the works have been completed
22.	Restore tidal land profiles that are temporarily disturbed by the development works to pre-work profiles.	Within ten business days of completion of

		the works and prior to post works notification
23.	Dredge spoil associated with capital and maintenance dredging must be placed to avoid marine plants.	At all times
Schedule 10, Part 17, Division 3, Table 2, Item 1(Planning Regulation 2017) - Development application for operational work involving tidal works or work in a coastal management district (maritime safety)—The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of Department of Transport and Main Roads to be the enforcement authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
24.	(a) Provide written notice to Regional Harbour Master (Townsville Region) when the development authorised under this approval is scheduled to commence at RHMTownsville@msq.qld.gov.au or mailed to: Maritime Safety Queensland Department of Transport and Main Roads GPO Box 1921, Townsville Qld 4810 (b) Provide written notice to the Regional Harbour Master (Townsville Region) when the development authorised under this approval has been completed at RHMTownsville@msq.qld.gov.au or mailed to: Maritime Safety Queensland Department of Transport and Main Roads GPO Box 1921, Townsville Qld 4810 Any correspondence must state the application reference number: 2410-42851 SRA.	(a) At least two weeks prior to commencement of works (b) within two weeks of the completion of works
25.	(a) A hydrographic survey must be prepared, by a registered surveyor, for the dredge area and the immediate adjacent area likely to be affected by the dredging. The survey must be conducted to class A survey standards. (b) Submit the hydrographic survey to the Regional Harbour Master (Townsville Region) at RHMTownsville@msq.qld.gov.au or mailed to: Maritime Safety Queensland Department of Transport and Main Roads GPO Box 1921, Townsville Qld 4810	Within four weeks of the completion of the works
26.	“As Constructed” drawings of the approved structure must be provided to the Regional Harbour Master (Townsville Region), at RHMTownsville@msq.qld.gov.au or mailed to: Maritime Safety Queensland Department of Transport and Main Roads GPO Box 1921, Townsville Qld 4810	Within four weeks of the completion of the works
27.	All vessels, structures, plant and equipment associated with the construction of the approved works must be lit/marked in accordance with the following specifications and requirements: - floating plant and equipment is to be lit in accordance with the International Regulations for the Prevention of Collision at Sea - mooring buoys are to be lit in accordance with IALA recommendations - lighting must be provided in accordance with Section 3 of AS4282-1997 ‘Control of the obtrusive effects of outdoor lighting’ to ensure safe navigation of other ships’	While the works are occurring

	iv. lighting provided must not obscure, disguise or otherwise interfere with the effectiveness of navigational lighting.	
28.	The structure must be lit/marked in accordance with the following specifications: i. floating plant and equipment is to be lit in accordance with the International Regulations for the Prevention of Collision at Sea ii. mooring buoys are to be lit in accordance with IALA recommendations iii. lighting must be provided in accordance with Section 3 of AS4282-1997 'Control of the obtrusive effects of outdoor lighting' to ensure safe navigation of other ships' iv. lighting provided must not obscure, disguise or otherwise interfere with the effectiveness of navigational lighting.	At all times
29.	(a) The construction, operation or maintenance of the approved development must not damage or interfere (physically or by electrical or electro-magnetic emissions) with any aid to navigation. (b) In the event that any damage or interference is caused to any aid to navigation, the Regional Harbour Master (Townsville Region) must be immediately contacted at RHMTownsville@msq.qld.gov.au or mailed at Maritime Safety Queensland, Department of Transport and Main Roads, GPO Box 1921, Townsville Qld 4810 and at the applicant's cost the damage or interference must be promptly repaired, replaced or interference removed.	At all times
30.	Submit a Vessel Traffic Management Plan and a Marine Execution Plan, prepared by a suitably qualified expert at RHMTownsville@msq.qld.gov.au or mailed to: Maritime Safety Queensland Department of Transport and Main Roads GPO Box 1921, Townsville Qld 4810	At least 30 days prior to commencement of works
Material Change of Use		
Schedule 10, Part 5, Division 4, Table 2, Item 1(Planning Regulation 2017) – Development application involving non-devolved environmentally relevant activities—The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of Department of Environment, Tourism, Science and Innovation to be the enforcement authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
31.	The dredging must be carried out generally in accordance with the following plans: • Site Overview, drawing number WT-ZZ-XX-DR-C-0001, revision dated 04/02/2025 as amended in red by SARA • Map 9: Potential Direct Impacts to Marine Plants, dated 30/01/2025	At all times
32.	Development authorised under this approval for ERA 16(1)(b) is limited to extraction by dredging of 30,000t in a year.	At all times

Attachment 2—Advice to the applicant

General advice	
1.	Terms and phrases used in this document are defined in the <i>Planning Act 2016</i> , its regulation or the State Development Assessment Provisions (SDAP) (version 3.1). If a word remains undefined it has its ordinary meaning.
2.	The Notice of Election for the Significant Residual Impact of 0.065ha to marine plants associated with this development approval/referral agency response 2410-42851 SRA should be submitted to DARTsupport@dsdilgp.qld.gov.au. Should the authority holder wish to deliver a proponent driven offset to counterbalance the Significant Residual Impact to 0.65ha of marine plants, it is recommended that they seek pre-lodgement advice through the State Assessment and Referral Agency in relation to a proposed Notice of Election and associated Offset Delivery Plan. This will assist in identifying any potential development triggers under the Planning Act 2016, will engage relevant state agencies, and is likely to result in a smoother offset delivery process. An Agreed Delivery Arrangement must be entered into prior to any impact on the matter(s) of State environmental significance marine plants. Note: On site mitigation could possibly result in a reduced SRI if the applicant committed to moving the marine deadwood (mangrove debris) proposed to be permanently impacted to an appropriate nearby location where it could continue to play an effective role as fish habitat.

Attachment 3—Reasons for referral agency response

(Given under section 56(7) of the *Planning Act 2016*)

The reasons for the SARA's decision are:

The development will comply with State code 7: Maritime safety of the SDAP, if carried out in accordance with the proposed conditions. Specifically, the proposed development:

- will not compromise the viable operation of aids to navigation or the safe operation of vessels in navigable waterways.

The development will comply with State code 8: Coastal development and tidal works of the SDAP, if carried out in accordance with the proposed conditions. Specifically, the proposed development will:

- protect life, buildings and infrastructure from the impacts of coastal erosion
- maintain coastal processes
- maintain appropriate public use of, and access to and along, State coastal land
- avoid impacts or, where the matters of state environmental significance cannot be reasonably avoided, impacts are reasonably minimised and mitigated
- does not result in a significant residual impact on a matter of state environmental significance unless the significant residual impact is acceptable, and an offset is provided.

The development will comply with State code 11: Removal, destruction, or damage of marine plants of the SDAP, if carried out in accordance with the proposed conditions. Specifically, the proposed development:

- maintains the extent, distribution, diversity and condition of marine plant communities and protects the ecological functions
- maintains the health and productivity of fisheries resources and fish habitat
- minimises impacts on the management, use, development and protection of fisheries resources and fish habitat
- is designed and located to minimise and mitigate impacts to matters of state environmental significance
- does not result in a significant residual impact on a matter of state environmental significance.

The proposed development will comply with State code 22: Environmentally relevant activities of the SDAP, if carried out in accordance with the proposed conditions. Specifically, the proposed development:

- is located and designed to avoid and mitigate environmental harm on environmental values of the natural environment, adjacent sensitive land uses and sensitive receptors
- is designed and located to avoid impacts on matters of state environmental significance.

Material used in the assessment of the application:

- the development application material and submitted plans
- *Planning Act 2016*
- Planning Regulation 2017
- the SDAP (version 3.1), as published by SARA
- the Development Assessment Rules
- SARA DA Mapping system
- section 58 of the *Human Rights Act 2019*.

Attachment 4—Representations about a referral agency response provisions

(page left intentionally blank)

Attachment 5—Documents referenced in conditions

(page left intentionally blank)

Development Assessment Rules—Representations about a referral agency response

The following provisions are those set out in sections 28 and 30 of the Development Assessment Rules¹ regarding **representations about a referral agency response**

Part 6: Changes to the application and referral agency responses

28 Concurrence agency changes its response or gives a late response

- 28.1. Despite part 2, a concurrence agency may, after its referral agency assessment period and any further period agreed ends, change its referral agency response or give a late referral agency response before the application is decided, subject to section 28.2 and 28.3.
- 28.2. A concurrence agency may change its referral agency response at any time before the application is decided if—
- (a) the change is in response to a change which the assessment manager is satisfied is a change under section 26.1; or
 - (b) the Minister has given the concurrence agency a direction under section 99 of the Act; or
 - (c) the applicant has given written agreement to the change to the referral agency response.²
- 28.3. A concurrence agency may give a late referral agency response before the application is decided, if the applicant has given written agreement to the late referral agency response.
- 28.4. If a concurrence agency proposes to change its referral agency response under section 28.2(a), the concurrence agency must—
- (a) give notice of its intention to change its referral agency response to the assessment manager and a copy to the applicant within 5 days of receiving notice of the change under section 25.1; and
 - (b) the concurrence agency has 10 days from the day of giving notice under paragraph (a), or a further period agreed between the applicant and the concurrence agency, to give an amended referral agency response to the assessment manager and a copy to the applicant.

¹ Pursuant to Section 68 of the *Planning Act 2016*

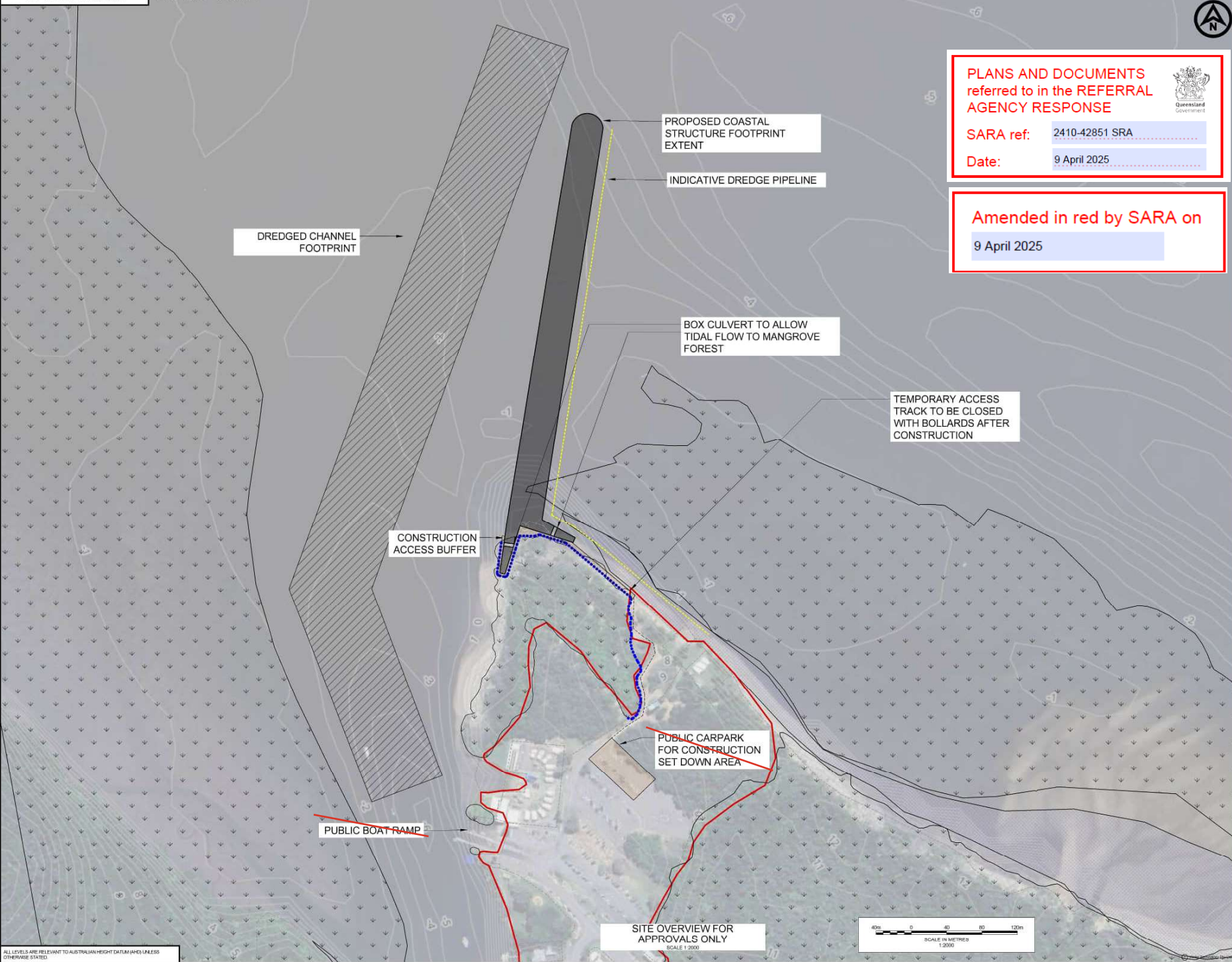
² In the instance an applicant has made representations to the concurrence agency under section 30, and the concurrence agency agrees to make the change included in the representations, section 28.2(c) is taken to have been satisfied.

Part 7: Miscellaneous

30 Representations about a referral agency response

30.1. An applicant may make representations to a concurrence agency at any time before the application is decided, about changing a matter in the referral agency response.³

³ An applicant may elect, under section 32, to stop the assessment manager's decision period in which to take this action. If a concurrence agency wishes to amend their response in relation to representations made under this section, they must do so in accordance with section 28.



PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE

SARA ref: 2410-42851 SRA
Date: 9 April 2025

Amended in red by SARA on 9 April 2025



- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL COORDINATES ARE IN METERS RELATIVE TO GDA2020/ZONE 55 EPSG:7855
 3. ALL DIMENSIONS ARE APPROXIMATE AND ARE SUBJECT TO CHANGE IN DETAILED DESIGN
 4. LEVELS ARE PROVIDED IN AHD AND SHOULD NOT BE USED FOR NAVIGATION.

- LEGEND
- PROPOSED ROCK REVETMENT FOOTPRINT
 - MARINE VEGETATION EXTENT
 - DREDGE CHANNEL
 - TEMPORARY CONSTRUCTION ACCESS
 - DREDGE SPOIL PLACEMENT AREA
 - CADASTRE
 - HAT
 - EXCLUSION FENCING

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
P2	06/03/25	SITE PLAN - FOR APPROVALS ONLY	ISGO	RJD	RJD
P2	15/11/24	SITE PLAN - FOR APPROVALS ONLY	ISGO	RJD	RJD

REVISIONS

PROJECT
DUNGENESS BOATING SAFETY PROJECT

CLIENT
DUNGENESS BOATING SAFETY PROJECT

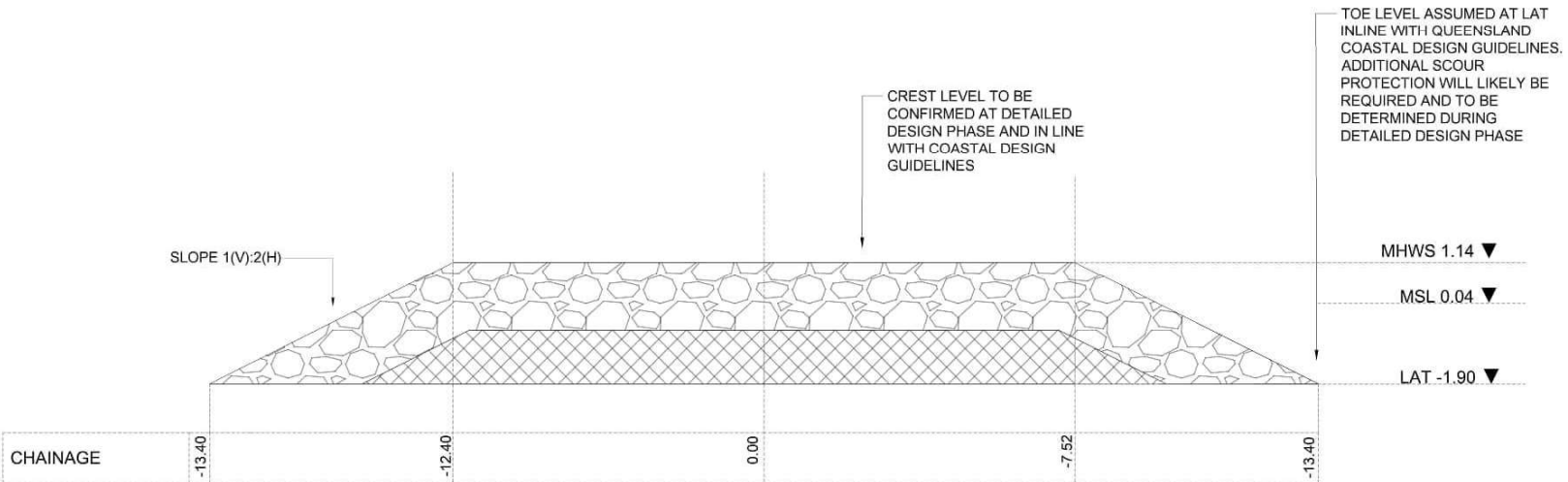
DBA REF:
23020175-WT-ZZ-XX-DR-C-0001

TITLE
SITE OVERVIEW



DRAWN	ISGO	CHECKED	RJD	APPROVED	RJD
DATE	FEBRUARY 2025	SCALE	AS SHOWN	REF	23020175-02-0001
UNAPPROVED NO.	WT-ZZ-XX-DR-C-0001	SAR	REVISION	S1	P2

- NOTES
- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 - 2. ALL COORDINATES ARE IN METERS RELATIVE TO GDA2020/ZONE 55 EPSG:7855
 - 3. ALL DIMENSIONS ARE APPROXIMATE AND ARE SUBJECT TO CHANGE IN DETAILED DESIGN.
 - 4. LEVELS ARE PROVIDED IN AHD AND SHOULD NOT BE USED FOR NAVIGATION.
 - 5. DESIGN IS CONCEPTUAL ONLY. KEY DESIGN FEATURES TO BE DETERMINED DURING DETAILED DESIGN PHASE.



ROCK ARMOUR LEGEND

ROCK ARMOUR TRUNK

CORE MATERIAL

PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE

SARA ref: 2410-42851 SRA

Date: 9 April 2025

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHK	APP
01	04/03/25	ISSUE PLAN - FOR APPROVALS ONLY			
02	04/03/25	ISSUE PLAN - FOR APPROVALS ONLY			

REVISIONS

PROJECT: DUNGENESS BOATING SAFETY PROJECT

CLIENT:

DMA REF: 23020045-WT-ZZ-XX-DR-C-0003

TITLE: COASTAL STRUCTURE

15 Riverside Park Dr, Nudgee QLD 4000
Tel: +61 (0)7 3208 0000
Email: info@watertechnology.com.au
Website: www.watertechnology.com.au

DATE	ISSUED	CHECKED	BY	APPROVED	BY
FEBRUARY 2025	SCALE AS SHOWN				

UNAPPROVED FOR: WT-ZZ-XX-DR-C-0002

SCALE: S1

REF: P1

PLANS AND DOCUMENTS
referred to in the REFERRAL
AGENCY RESPONSE



SARA ref: 2410-42851 SRA

Date: 9 April 2025

Notes:

- Distribution of marine plants will be mapped prior to the commencement of works.
- Proposed works will avoid marine plants where practical.
- Dredge spoil will be placed to avoid marine plants and has not been included in the potential temporary impact calculations.

Dungeness Enterprise Proposed
Dredge and Coastal Structure Works

Map 9: Potential Direct Impacts to Marine Plants

SOURCES

© Water Technology 2024 & 2025
© frc environmental 2018 & 2021
© Nearmap 2024

LEGEND

— Modelled highest astronomical tide (HAT, 2024)

Proposed works

Coastal structure

Channel

Indicative placement of dredge spoil (placement will avoid marine plants)

Indicative access track

Indicative dredge pipeline

Exclusion zone fencing
Distribution of marine plants (frc environmental)

Seagrass (2018 & 2021)

Mangroves (2024)

Mangrove debris (2024)

Impact assessment

Permanent impact

Temporary impact

Culverts in training walls to
maximise tidal inundation to
mangroves

Access from existing
cleared tracks

Indicative 3m wide
construction works zone

Indicative 5m access track.
Location to minimise impacts to
marine plants where practical

Potential permanent and temporary direct impacts to marine plants

Marine Plant Community	Permanent Impact (ha)	Temporary Impact (ha)
Seagrass (2018 & 2021)	0.026	0.006
Mangrove (2024 only)	0.005	0.016
Mangrove debris (2024 only)	0.034	0.032

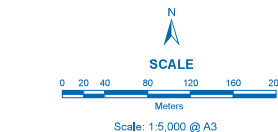
frc environmental
deep thinking. science.

PART OF SLR

PO Box 2363
Willington Point
Q 4160 Australia

P 07 3266 3850
E info@frcenv.com.au
www.frcenv.com.au

Document Path: C:\Users\joh...OneDrive - SLR Consulting\Documents\1183-1184\Map9\Map9.mxd



PROJECTION
Coordinate System: GDA2020 MGA Zone 55
Projection: Transverse Mercator
Datum: GDA2020

DATE
2025-01-30
DRAWN BY
JA
VERSION
ii



PLANS AND DOCUMENTS
referred to in the REFERRAL
AGENCY RESPONSE



SARA ref: 2410-42851 SRA

Date: 9 April 2025

Legend

- Enterprise/Hinchinbrook Channel
- Western Mangrove Island
- Dungeness Beach

Hydrographic survey (Multibeam
or similar)

Localised high-resolution survey
during Spring Low Tide (Drone
LiDAR/photogrammetry survey or
similar)

Data sources: Google Maps

0 250 500 m

23020045 Detailed Modelling
Coastal monitoring Dungeness
boating safety project



2025-04-01T09:47:29.140

Memorandum

Our Reference: 240308Mii

To Matteo Sandona of Milford Planning
From Carol Conacher and Josh Arthy
Date 6 February 2025
Subject Dungeness Beach, Lucinda – M1499 SARA Advice Notice

Dungeness Beach – SARA Advice Notice Response

I refer to your request for response to the State Assessment and Referral Agency (SARA) Advice Notice – Dungeness Beach, Lucinda (SARA Advice, Ref: 2410-42851 SRA). This memo responds to issues 3, 4, 5 and 6 of the SARA Advice (Table 1). Please also see our memo dated 04 October 2024 for a detailed assessment of likely impacts to marine plants, based on extensive modelling (frc environmental, part of SLR, 2024).

Table 1: Relevant issues from SARA RFI (Ref: 2407-41386 SRA).

Removal, destruction or damage of marine plants	
3.	Issue: <i>The proposed breakwater will have temporary and permanent impacts on marine plants. The location and extent of these impacts has not been clearly depicted or delineated. This information is required for SARA to assess and condition any temporary and permanent impacts in accordance with PO1, PO2, PO3, and PO6 of SDAP State code 11.</i> Action: <i>Provide amended plans that clearly show:</i> <i>the total amount of marine plants that will be disturbed, identifying portion of permanent and/or temporary disturbance (in square meters or hectares)</i> <i>the types of marine plants to be disturbed (e.g. seagrass, mangroves, dead marine wood, saltmarsh)</i> <i>the location of the marine plants to be disturbed in relation to the development works and</i> <i>the level of Highest Astronomical Tide.</i> <i>The marine plant impact plans should include an overlay of the construction footprint including work zones outside of the permanent footprint and any access ways.</i>

Code responses to the relevant performance outcomes outlined in State Development Assessment Provisions guideline - State Code 11: Removal, destruction or damage of marine plants code assessment are provided in Attachment 3.

Item 4

Modelling indicates the proposed works will reduce the requirement for dredging, stabilise the shoreline from further erosion, and will promote sediment accretion and deposition along the entire shoreline. These more stable conditions will promote the growth of marine plants, likely resulting in an overall increase in the area of marine plants (frc environmental, part of SLR, 2024).

It is anticipated mangroves and seagrass will recolonise in the areas where they have been temporarily disturbed, given the abundant source of nearby propagules. To expediate this process, once works are completed, the ground level will be returned to pre-disturbance height, so the pre-existing pattern of tidal inundation is re-established.

To prevent damage from vehicular and foot traffic, bollards will be installed along all landward edges of temporary disturbance to mangroves and mangrove debris (elevation greater than HAT). Bollard design will be in accordance with relevant Hinchinbrook Regional Council standards or City of Townsville standard drawing SD-654 Fencing – Open Space Bollard and will be installed without damage to any marine plants. Signs will be erected to indicate marine plants are regenerating in the area and to explain why the area cannot be accessed.

Once the temporary disturbance to the areas of mangrove debris is completed, the stockpiled mangrove debris will be placed in these areas. As the wave action and water velocities in these areas are expected to be low, anchoring is not required.

Further, once the works are completed, each area of temporary mangrove disturbance will be inspected by appropriately qualified marine plant ecologists, to determine whether conditions are suitable for re-colonisation. Where conditions are not suitable (e.g. the sediment has been compacted by machinery and will not support marine plant growth) they will be rectified, without further damage to marine plants.

To assist the natural regeneration of mangroves, proprietary biodegradable devices (such as “bamboo traps”; Seagrass Technologies Pty Ltd; Figure 1) will be installed to manufacture’s specifications. These devices enhance soil stabilisation while providing low velocity areas for mangrove propagules to naturally recruit.



Figure 1 Bamboo traps installed with established naturally recruited seedlings (Source: mangroves.au).

Each area of temporary mangrove disturbance will be monitored annually, and after 19 months (Item 6). If there is no natural recruitment of mangroves after 18 months, regeneration will be assisted with supplementary planting, under the supervision of an appropriately qualified marine ecologist. Supplementary planting will comprise endemic native mangroves that are known to occur in the area (Table 3), with dominant species as per the surrounding area. Mangrove species will be planted at the appropriate tidal height, based on observations of the surrounding mangrove forests.

Table 3 Mangrove species recorded from the area.

Species Name	Common Name	Indicative Planting Density
<i>Acanthus ilicifolius</i>	holly mangrove	2 / 1m ²
<i>Aegiceras corniculatum</i>	river mangrove	
<i>Avicennia marina</i> subsp. <i>eucalyptifolia</i>	northern grey mangrove	
<i>Bruguiera gymnorhiza</i>	orange mangrove	
<i>Ceriops tagal</i>	yellow mangrove	
<i>Excoecaria agallocha</i>	milky mangrove	
<i>Osbornia octodonta</i>	myrtle mangrove	
<i>Rhizophora stylosa</i>	spotted mangrove	

Item 6

The marine plant monitoring program will comply with any conditions provided in the development permit and will comprise as a minimum a survey following completion of works, annual surveys for 5 years, and a survey after 18 months to determine whether supplementary planting is required.

Monitoring of Temporarily Disturbed Mangroves

Permanent photographic reference sites will be established to cover the entire area of temporary disturbance (approximately 0.016 ha) and marked with GPS co-ordinates. In each survey the area will be photographed from these points, and the following recorded in the disturbed mangrove area:

- the overall condition of the sediment and suitability of the area for mangrove colonisation, including areas of deposition and erosion
- the average number of propagules and seedlings
- the location of any bare patches, or areas of concern to mangrove colonisation
- any issues that may prevent mangrove colonisation or be detrimental to their growth.

In addition, the following will be recorded in ten appropriately sized quadrats (e.g. 8 m²) in the disturbed area:

- number of seeds of each mangrove species
- number of seedlings of each mangrove species
- average height of seedlings (by species)
- average number of leaves (be species)
- crab abundance
- any issues that may prevent mangrove colonisation or be detrimental to their growth.

Any issues that are identified in the monitoring that are preventing the recolonisation of mangroves or detrimentally impacting their growth will be addressed by ongoing management to ensure these areas recolonise, and the mangroves grow,

Monitoring of Seagrass Adjacent to the Proposed Works

The distribution of seagrass meadows in the vicinity of the proposed works is naturally variable, and consequently it will be difficult to determine what, if any changes are due to the proposed works.