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REVIEW OF ENVIRONMENTAL FACTORS: REF STANDARD TEMPLATE

Note: This Standard REF Template has been prepared as part of the implementation of the Great Lakes Improvement Program - The REF Process (2010). This Standard REF Template shall be completed for all Council activities and projects. Where the proposed activity has a minor or benign environmental risk or impact, then no further environmental impact assessment is required and the activity can be approved. Where the proposed activity has a moderate or major environmental risk or impact then further environmental impact assessment would be required (eg. REF1 or REF2 standard template).

Project / Activity Name	Farquhar Flood Notch	DataWorks Project Reference	-
		Assessment Date	10/02/2021

THE PROJECT / ACTIVITY AND ANY ASSOCIATED CONSTRUCTION WORKS MUST NOT COMMENCE UNLESS:

- The officer completing the REF has signed the completed document, verifying that each of the steps has been satisfied and no further assessment or investigation is required, AND
- It is concluded that the likely environmental impact of the project / activity is reasonable and the project can proceed subject to relevant protective safeguards / measures (which are clearly stated herein) and the conditions of any approvals, licences or permits, AND
- The required approvals, licences and permits have been obtained as outlined in TABLE 2 and TABLE 3, AND
- All relevant construction personnel are aware of:
 - Their responsibilities, as detailed in this REF
 - The Project Details and Environmental Impacts as detailed in TABLE 1 and TABLE 4
 - The Protective Safeguards as detailed in TABLE 4
 - The Environmentally Sensitive Areas as detailed in TABLE 3
 - The conditions in any approvals, licences or permits as detailed in TABLE 2

NOTE: If any protective safeguards are required (TABLE 4), the following is to occur:

- The protective safeguards **MUST** be prepared as an Action Table / Field Checklist (Schedule 1) that is prepared as and forms part of the Work Specifications and Construction or Environmental Management Plans, and
- Where a construction drawing is prepared, the protective safeguard measures should be listed in the schedule on that drawing.

NOTE: If any approvals, licences or permits are required as outlined in TABLE 2 or TABLE 3, then copies of these **MUST** be included in the Work Specifications and Construction or Environmental Management Plans and be submitted to the Construction Manager for the project / activity.

NOTE: Projects / activities may require a more detailed assessment. Projects / activities **MUST** not commence until such time as the required environmental impact assessment and / or specialist environmental studies has been satisfactorily completed.

NOTE: Some minor projects / activities are exempt development. Where the project / activity demonstrably satisfies the exempt criteria, an REF is not required. Reference should be made to SEPP (Infrastructure) for guidance.

NOTE: Projects requiring a Part 3A or Part 4 planning approval must be referred to the relevant consent authority.

NOTE: This REF has been prepared under Part 5 of the EP&A Act 1979 to examine and take into account to the fullest extent possible all matters which are likely to affect the environment if the activity goes ahead. Such matters are described in s111 and s112 of the EP&A Act 1979, s228 of the EP&A Regulation 2000 as well as s5A of the EP&A Act 1979, along with other relevant statutes and legislation.

NOTE Prior to completing this Standard REF Template, a site inspection is to be undertaken by the officer completing the assessment.

Site Inspection. A site inspection was undertaken by the person completing the REF	<input checked="" type="checkbox"/> Yes
	11/03/2019
	22/03/2019
	09/02/2020
Date of site inspection	
13/03/2020	

Item	Project Description and Justification	
1.1	<p>Description of the nature of the project / activity: (include all associated activities)</p>	<p>Create and maintain a flood notch at the back of the beach berm at Farquhar Inlet and permit mechanical opening of the entrance under flood emergency events, as per recommendation of the Farquhar Inlet Entrance Opening Management Plan 2010.</p> <p>https://www.midcoast.nsw.gov.au/Environment/Coastal-River-Management/River-Lake-Estuary-Management/Manning-Valley-Region</p> <p>Following review and justification of several management options, Section 7 of the Farquhar Inlet Entrance Opening Management Plan 2010, recommends that Option 3 (Section 6.4) be implemented.</p> <p>The activity requires machinery (dozer and excavator) to cut a flood notch into the back of the sand berm following closure of the Manning River to the ocean at the Farquhar Inlet.</p> <p>The flood notch is to be excavated to 50-metre-wide, with a reduced elevation of 1.0 m AHD. An excavator will be used to break the sand berm between the flood notch and ocean. The flood notch is to be periodically maintained (cut sand to be retained on site, adjacent to the flood notch). It is noted that the flood notch does not extend through the berm to the ocean.</p> <p>As per recommendation of the Farquhar Inlet Entrance Opening Management Plan 2010, should one of the following triggers be met, the Inlet is to be mechanically opened:</p> <ol style="list-style-type: none"> A flood level of 1.6 m AHD at Farquhar Inlet gauge Salinity levels at Farquhar Inlet fall below 12 ppt Closure of Scotts Creek Shellfish harvest area for more than 120 consecutive days, combined with a weekly rainfall reading at Taree Airport greater than 80 mm.
1.2	<p>Description of main and ancillary activities associated with the project and their proposed timing:</p>	<p>The activities associated with the project include:</p> <ol style="list-style-type: none"> Cut 50 m, 1.0 m AHD Flood Notch into back of beach berm at Farquhar Periodically maintain flood notch as per 1. above Mechanically open Farquhar Inlet, when one of the following triggers are met: <ol style="list-style-type: none"> A flood level of 1.6 m AHD at Farquhar Inlet gauge Salinity levels at Farquhar Inlet fall below 12 ppt Closure of Scotts Creek Shellfish harvest area for more than 120 consecutive days, combined with a weekly rainfall reading at Taree Airport greater than 80 mm. <p>Based on historical evidence, the Manning River can be opened or closed for several years at a time. When the river is open to the ocean, no works are required to occur.</p>

Item	Project Description and Justification	
		<p>The river closes itself when coastal processes dominate in drought or low river flow conditions, which rapidly infills the entrance channel with marine sand (operating as an ICOLL).</p> <p>Once the river closes the flood notch will be constructed (as per above details). The site is highly dynamic and conditions will mean that the location of the notch will alter slightly each time the river closes over. The location of the flood notch will be flexible, based on conditions of the inlet at the time of works taking with the preference to excavate the notch at the most recent location where the entrance has closed.</p> <p>The notch will be dug at the lowest level of the sand to minimise the extent of excavation required and to allow for the most efficient opening (when it occurs) to take place. Figure 2 of the REF shows the total footprint and flexible area for future flood notch locations using 2021 Nearmap aerial imagery. Figure 3 shows the proposed location of the flood notch in 2021 at the location of the most recent entrance closure. The location of the currently approved location is also identified.</p> <p>Maintenance will occur periodically through the year. Maintenance will focus on removal of wind-blown sand to restore notch to original design. Based on previous notches implemented, maintenance is required on average three times per calendar year.</p> <p>Sand excavated during construction and maintenance of the flood notch will be retained on site. This sand will be placed directly adjacent to the flood notch, on both the northern and southern sides. Excavated material will be placed above the mean high water mark. No material will be removed from site.</p>
1.3	Location of the area of the project / activity and any proximal areas that may be directly or indirectly harmed or affected:	<p>The project is located north of the Old Bar township. Farquhar Inlet is considered to be the southern entrance of the Manning River (Figure 1). The Manning River is one of only two deltas in the southern hemisphere with two river entrances, the main entrance being at Harrington in the north and the second at Farquhar Inlet to the south. The former entrance remains open and the latter slowly closes as sand is deposited on the beach through natural processes.</p> <p>No other proximal areas are likely to be harmed by the proposal.</p>
1.4	Land zoning of the area of the project / activity:	<p>The land zone surrounding the works area under the Greater Taree Local Environmental Plan 2010 is:</p> <p>E2 – Environmental Conservation</p>
1.5	Ownership of the land to be modified or affected by the project / activity:	<p>Ownership of the land to be modified is Department Primary Industries – Lands.</p>
1.6	Reference of the construction / activity plans (Schedule 2) referenced in the preparation of and attached to this REF:	<p>Proposed works are shown in Schedule 2.</p>
	Crown Lands Licence Application Term	<p>Licence term – Ongoing (with REF review every 5 years by Council).</p> <p>An ongoing licence is requested as the bulk of the activity is maintenance. The flood notch will be constructed following closure of the Manning River at Farquhar. Maintenance of the notch undertaken periodically through each calendar year (as per details in Section 1.2).</p>
1.7	Description of the environment of the land to be modified or affected by the project / activity: <i>(climate, geology and soils, native vegetation and habitat, waterbodies and cultural, built and social environment)</i>	<p><u>Climate:</u> The climate of the area is classified as warm temperate with generally warm to very warm summers and mild to cool winters. According to the Bureau of Meteorology, the climate is characterised within the warm humid summer zone and lies at the boundary of the</p>

Item	Project Description and Justification
	<p>uniform and mostly summer rainfall zones. Wind in this locality is predominantly from the north-east in summer and south-west to west in winter.</p> <p><u>Soils and geology:</u> The soils at the project site are a marine sand deposit. The sand berm is formed by the landward extent of wave action depositing sand. These coastal processes dominate in drought or low river flow conditions and rapidly infill the entrance channel. Generally sand berms occur on reflective beaches (low energy) and can erode as swash uprush or where the water table is close to the surface.</p> <p><u>Landform:</u> While part of the larger Manning River, Farquhar Inlet is an Intermittently Closed and Open Lake and Lagoon (ICOLL). The definition of an ICOLL is broad and includes river estuaries which seasonally close off in response to dry catchment conditions and low river flows. The area behind the sand berm consists of a generally low lying floodplain / estuary of the Manning River. There are no residential dwellings within the vicinity of the work site.</p> <p><u>Vegetation and habitat:</u> On the sand berm there is little to no vegetation. Vegetation that does exist consists of introduced species <i>Cakile edentula</i> (American Sea Rocket).</p> <p><u>Hydrology:</u> The works area is adjacent to the Pacific Ocean and the Manning River. The Manning River (due to the permanent opening at Harrington) has tidal influence at Farquhar. During high rainfall events, the Manning River can flood.</p> <p><u>Built environment:</u> There is no built assets impacted by the works at the project site. The township of Old Bar is approximately 2 km to the south. Rural properties are situated on the adjoining banks of the Manning River, however they will not be affected by these works.</p> <p><u>Aboriginal cultural heritage:</u> There are no known Aboriginal cultural heritage values associated with the project area, as this is an area that periodically opens to the ocean and comprises of mobile marine sand (see AHIMS search Appendix 1). On the north side of the inlet is Farquhar Campground.</p> <p><u>Non-Aboriginal heritage:</u> There are no known non-aboriginal heritage values associated with the project area, as this is an area that periodically opens to the ocean and comprises of mobile marine sand.</p>
1.8	<p>Description of the environmental impacts of the project / activity: (landform modification, biological impacts, water quality impacts, hydrological impacts, pollution and contamination, generation of waste, changed bushfire regimes, etc)</p> <p><u>Landform modification:</u> The proposal involves:</p> <ol style="list-style-type: none"> 1. Cut 50 m, 1.0 m AHD Flood Notch into back of beach berm at Farquhar 2. Periodically maintain flood notch as per 1. above 3. Mechanically open Farquhar Inlet, when one of the following triggers are met <ol style="list-style-type: none"> i. A flood level of 1.6 m AHD at Farquhar Inlet gauge ii. Salinity levels at Farquhar Inlet fall below 12 ppt iii. Closure of Scotts Creek Shellfish harvest area for more than 120 consecutive days, combined with a weekly rainfall reading at Taree Airport greater than 80 mm. <p><u>Biological impacts:</u> There are not expected to be any biological impacts as a result of the proposal.</p> <p>Seasonal migrant shorebird species are present between September – April. Works will occur outside of these times, and thus direct evidence of the presence of these fauna is unlikely.</p> <p><u>Water quality impacts:</u> Nil</p> <p><u>Pollution and Contamination:</u> There are minimal risks of pollution and contamination arising from this proposal.</p>

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		<p><u>Noise and emissions:</u> There will be some noise and emission generation from construction machinery and other associated activities. The impacts will be short term and confined to standard working hours.</p> <p><u>Waste generation:</u> There will be negligible generation of waste associated with the proposal. Any waste generated will be appropriately disposed of at the Tuncurry Waste Management Facility or Tinonee Waste Management Facility.</p> <p><u>Bushfire:</u> There are no bushfire risks or impacts associated with this proposal.</p> <p><u>Social:</u> There may be some temporary disruption to recreational 4WD users, but this will be very minor.</p>																
1.9	Project benefits, alternative proposals considered and justification of preferred option:	<p>The project will install and maintain a flood notch, as per recommendations from the Farquhar Inlet Opening Management Strategy.</p> <p>Further, in a flood event will assist the natural breakout process.</p>																
1.10	Description of community consultation undertaken or proposed:	<p>Council has been in frequent communications with the following groups:</p> <p>Oyster farmers, local businesses, concerned residents, Old Bar Beach Sand Replenishment Group.</p>																
1.11	Project Manager’s details:	<table><tr><td>Name:</td><td>Andrew Staniland</td></tr><tr><td>Position title:</td><td>Coastal Management Coordinator</td></tr><tr><td>Section/division:</td><td>Natural Systems</td></tr><tr><td>Organisation:</td><td>Mid-Coast Council</td></tr><tr><td>Postal address:</td><td>PO Box 450 Forster NSW 2428</td></tr><tr><td>Telephone number:</td><td>7955 7219</td></tr><tr><td>Mobile phone number:</td><td>N/A</td></tr><tr><td>E-mail address:</td><td>andrew.staniland@midocoast.nsw.gov.au</td></tr></table>	Name:	Andrew Staniland	Position title:	Coastal Management Coordinator	Section/division:	Natural Systems	Organisation:	Mid-Coast Council	Postal address:	PO Box 450 Forster NSW 2428	Telephone number:	7955 7219	Mobile phone number:	N/A	E-mail address:	andrew.staniland@midocoast.nsw.gov.au
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Has the project / activity been determined not to be a Part 4 or Part 3A matter?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Has the project / activity been determined to be an exempt development?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If the project / activity is a form of development that is exempt, is it being assessed under Part 5 to ensure that environmental impacts are within acceptable standards?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Is the project / activity lawful and permissible and can the project / activity be considered under Part 5?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

NOTE: Determination of whether Council projects / activities are exempt development, Part 3A, Part 4 or Part 5 matters **MUST** be confirmed by Council's Manager - Development Assessment. Where the project / activity cannot be considered under Part 5, this form should not be used.

Planning Pathway

Works to construct and maintain the flood notch will be undertaken under the Infrastructure SEPP Part 3 Division 7 Clause 50 (Development permitted without consent) and Part 3 Division 25 Clause 129 (Development permitted without consent). As highlighted below, the works are in connection with flood mitigation work and waterway / foreshore management, with these works constructing and maintaining the flood notch. Further in the event of a flood, Part 3 Division 25 Clause 129 (c) emergency works, including works required as a result of flooding, storms or erosion, will be implemented as in previous events where flood waters have been released through Farquhar.

<https://www.legislation.nsw.gov.au/#/view/EPI/2007/641>

State Environmental Planning Policy (Infrastructure) 2007

Part 3 Division 7 Clause 50 Development permitted without consent.

- (1) Development for the purpose of flood mitigation work may be carried out by or on behalf of a public authority without consent on any land.
- (2) Reference in this clause to development for the purpose of flood mitigation work includes a reference to development for any of the following purposes if the development is in connection with flood mitigation work.
- (a) construction
 - (b) routine maintenance works
 - (c) environmental management works.

Part 3 Division 25 Clause 129 Development permitted without consent

- (1) Despite clause 129A, development for the purpose of waterway or foreshore management activities may be carried out by or on behalf of a public authority without consent on any land.
- (1A) To avoid doubt, subclause (1) does not permit the subdivision of any land.
- (2) In this clause, a reference to development for the purpose of waterway or foreshore management activities includes a reference to development for any of the following purposes if the development is in connection with waterway or foreshore management activities—
- (a) construction works
 - (b) routine maintenance works
 - (c) emergency works, including works required as a result of flooding, storms or erosion
 - (d) environmental management works.

Consideration has been given to the works in relation to the Coastal Management SEPP. Works to construct and maintain the flood notch and release flood waters do not cause an adverse impact on the coastal environment area nor the coastal use area of which Farquhar is mapped as, see

http://webmap.environment.nsw.gov.au/PlanningHtml5Viewer/?viewer=SEPP_CoastalManagement.

Further, the works to construct and maintain the flood notch will not increase the risk of coastal hazards on the land nor will they have an adverse impact on land within the Coastal Environment area or coastal use area.

The below clauses of the Coastal Management SEPP have been assessed in hierarchal order as per:

<https://www.legislation.nsw.gov.au/#/view/EPI/2018/106/part2/div5/cl18>

State Environmental Planning Policy (Coastal Management) 2018

Part 2 Division 5 Clause 18 Hierarchy of development controls if overlapping

If a single parcel of land is identified by this Policy as being within more than one coastal management area and the development controls of those coastal management areas are inconsistent, the development controls of the highest of the following coastal management areas (set out highest to lowest) prevail to the extent of the inconsistency—

- (a) the coastal wetlands and littoral rainforests area
- (b) the coastal vulnerability area
- (c) the coastal environment area
- (d) the coastal use area.

<https://www.legislation.nsw.gov.au/#/view/EPI/2018/106/part2/div3/cl13>

State Environmental Planning Policy (Coastal Management) 2018

Part 2 Division 3 Clause 13

Development on land within the coastal environment area

- (1) Development consent must not be granted to development on land that is within the coastal environment area unless the consent authority has considered whether the proposed development is likely to cause an adverse impact on the following—
- (a) the integrity and resilience of the biophysical, hydrological (surface and groundwater) and ecological environment
 - (b) coastal environmental values and natural coastal processes
 - (c) the water quality of the marine estate (within the meaning of the Marine Estate Management Act 2014), in particular, the cumulative impacts of the proposed development on any of the sensitive coastal lakes identified in Schedule 1
 - (d) marine vegetation, native vegetation and fauna and their habitats, undeveloped headlands and rock platforms
 - (e) existing public open space and safe access to and along the foreshore, beach, headland or rock platform for members of the public, including persons with a disability
 - (f) Aboriginal cultural heritage, practices and places
 - (g) the use of the surf zone.
- (2) Development consent must not be granted to development on land to which this clause applies unless the consent authority is satisfied that—
- (a) the development is designed, sited and will be managed to avoid an adverse impact referred to in subclause (1), or

- (b) if that impact cannot be reasonably avoided—the development is designed, sited and will be managed to minimise that impact, or
- (c) if that impact cannot be minimised—the development will be managed to mitigate that impact.

Part 2 Division 4 Clause 14

Development on land within the coastal use area

(1) Development consent must not be granted to development on land that is within the coastal use area unless the consent authority—

(a) has considered whether the proposed development is likely to cause an adverse impact on the following—

(i) existing, safe access to and along the foreshore, beach, headland or rock platform for members of the public, including persons with a disability

(ii) overshadowing, wind funnelling and the loss of views from public places to foreshores

(iii) the visual amenity and scenic qualities of the coast, including coastal headlands

(iv) Aboriginal cultural heritage, practices and places

(v) cultural and built environment heritage, and

(b) is satisfied that—

(i) the development is designed, sited and will be managed to avoid an adverse impact referred to in paragraph (a), or

(ii) if that impact cannot be reasonably avoided—the development is designed, sited and will be managed to minimise that impact, or

(iii) if that impact cannot be minimised—the development will be managed to mitigate that impact, and

(c) has taken into account the surrounding coastal and built environment, and the bulk, scale and size of the proposed development.

Part 2 Division 5 Clause 15

Development in coastal zone generally – development not to increase risk of coastal hazards

Development consent must not be granted to development on land within the coastal zone unless the consent authority is satisfied that the proposed development is not likely to cause increased risk of coastal hazards on that land or other land.

Location of Works



Figure 1: Location of proposed work



Figure 2 – Proposed works footprint to accommodate all potential flood notch locations (Note use of 2021 aerial imagery)



Figure 3 – Proposed location of 2021 flood notch (at most recent closing location) in relation to currently approved location



PHOTO TAKEN 25/03/2008
(Prior to mechanical opening 26/04/2008)

Figure 4 – Flood Notch 2008, undertaken by Department of Crown Lands

TABLE 2 - APPROVALS, LICENCES and PERMITS

STEP 3

Item	Assessment of Approvals, Licences and Permits	Tick one
2.1	Is there a risk that the project / activity may have a significant impact on State-listed Endangered, Threatened, Vulnerable or Protected Species, Populations, Ecological Communities or Critical Habitat (Flora and Fauna)? <i>If yes, a Species Impact Statement and / or a s132C licence may be required under the NP&W Act 1974. The project / activity must be referred to Council's Ecologist.</i> <i>s5A EP&A Act 1979, FM Act 1994, Biodiversity Conservation Act 2016</i> <i>Relevant authorities: DPIE, DPI (Fisheries)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.2	Is there a risk that the project / activity may harm or affect core Koala habitat as defined by SEPP (Koala Habitat protection) 2020? <i>Part 5 approvals are currently exempt from provisions of SEPP (Koala Habitat Protection) 2020, but Koala habitat should be considered in the design and protective safeguards</i> <i>Relevant authorities: DPIE</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.3	Is the project / activity located within or likely to affect areas protected by State Environmental Planning Policies for conservation purposes: <ul style="list-style-type: none"> Coastal Management SEPP (2018) Coastal Wetlands? <i>If yes, and the activity involves clearing, construction of a levee, draining or filling, then an EIS and approval from the Director of the DPIE may be required</i> Coastal Management SEPP (2018) Littoral Rainforests or 100-metre buffer? <i>If yes, then an EIS and approval from the Director of the DPIE may be required</i> Coastal Management SEPP (2018) Coastal Protection? <i>If the project / activity is located within the coastal zone, then the application of SEPP Coastal Protection needs to be considered in the assessment of the activity, particularly Part2, s8 matters</i> <i>Relevant authorities: DPIE</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.4	Does the project / activity clear, harm or remove areas of remnant native vegetation, native vegetation on State Protected Land or protected regrowth? <i>Clearing under Part 5 is not an activity controlled by the NV Act (Part 3, Div 1, s16). However, the aims and objectives of the LLS Act 2015 should be considered in the design and protective safeguards</i> <i>LLS Act 2015</i> <i>Relevant authorities: HLLS, DPIE</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.5	Does the project / activity occur within or seek to clear vegetation from an area covered by a Property Vegetation Plan, s88B conservation instrument or other relevant covenant or instrument? <i>If yes, then the permissibility of the project / activity needs to be validated and any relevant approvals / consultations sought</i> <i>LLS Act 2015, Biodiversity Conservation Act 2016, Conveyancing Act 1919</i> <i>Relevant authorities: HLLS, DPIE</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.6	Is the project / activity likely to have a significant impact on any matters of National Environmental Significance (significant impact means an impact which is important, notable or of consequence, having regard to its context or intensity and depends upon the sensitivity, value or quality of the environment which is impacted, and upon the intensity, duration, magnitude and geographic extent of the impacts): <ul style="list-style-type: none"> Ramsar Wetlands? <i>If yes, then the activity must be referred to DAWE and separate approval may be required</i> Commonwealth listed threatened species and ecological communities? <i>If yes, then the activity must be referred to DAWE and an approval may be required from this agency</i> Commonwealth migratory species protected under International Agreements? <i>If yes, then the activity must be referred to DAWE and an approval may be required from this agency</i> World Heritage Properties? <i>If yes, then the activity must be referred to DAWE and separate approval may be required from this agency</i> National Heritage Places? <i>If yes, then the activity must be referred to DAWE and an approval may be required from this agency</i> Commonwealth land or marine areas? <i>If yes, then the activity must be referred to DAWE and an approval may be required from this agency</i> Nuclear actions? <i>If yes, then the activity must be referred to DAWE and separate approval may be required</i> <i>EPBC Act 1999</i> <i>Relevant authorities: Australian Government, Department of Agriculture, Water and the Environment (DAWE)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.7	Is the project / activity located within or likely to affect: <ul style="list-style-type: none"> Areas reserved or dedicated under the NP&W Act 1974 (e.g. National Park, Nature Reserve or State Conservation Area)? <i>If yes, then separate approval may be required from DPIE</i> Land reserved or dedicated for environmental protection purposes under the <i>Crown Lands Management Act 2016</i>? <i>If yes, then separate approval may be required from DPIE (Crown Lands)</i> Land identified as community land under the <i>Local Government Act 1993</i>? <i>If yes, the permissibility of the project / activity needs to be confirmed</i> Land identified as wilderness under the <i>Wilderness Act 1987</i> or declared as wilderness under the NP&W Act 1974 or as a Wild River? <i>If yes, then separate approval may be required from DPIE</i> Land gazetted as an Aboriginal Place under the NP&W Act? <i>If yes, then separate approval may be required from DPIE</i> Land subject to a Conservation Agreement, Plan of Management or Joint Management Agreement under the NP&W Act? <i>If yes, then separate approval may be required from DPIE</i> <i>NP&W Act 1974, Wilderness Act 1987, Crown Land Management Act 2016, LG Act 1993</i> <i>Relevant authorities: DPIE</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.8	Is the project / activity located within or likely to affect a: <ul style="list-style-type: none"> Marine Park? <i>If yes, then separate approval from the DPI (Marine Parks) may be required</i> Aquatic Reserve? <i>If yes, then separate approval may be required from DPI (Fisheries)</i> 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Item	Assessment of Approvals, Licences and Permits	Tick one
	<i>Marine Estate Management Act 2014, FM Act 1994</i> <i>Relevant authorities: DPI (Marine Parks), DPIE, DPI (Fisheries)</i>	
2.9	Will the project / activity involve the dredging or reclamation of land or waters? <i>If yes, a Part 7 permit is required from DPI (Fisheries)</i> <i>FM Act 1994</i> <i>Relevant authorities: DPI (Fisheries)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.10	Will the project / activity harm, clear or modify an area of 'marine vegetation' such as seagrass or mangroves? <i>If yes, then a Part 7 permit from DPI (Fisheries) is required</i> <i>FM Act 1994</i> <i>Relevant authorities: DPI (Fisheries)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.11	Will the project / activity cause interruption, disruption or blocking of fish passage? <i>If yes, a Part 7 permit is required from DPI (Fisheries)</i> <i>FM Act 1994</i> <i>Relevant authorities: DPI (Fisheries)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.12	Is the project / activity a "controlled activity" on waterfront land (within 40-metres from the edge of the bank of watercourses). A controlled activity includes constructing a building or carrying out works, removing material or vegetation by excavation or any other means, depositing material on land or the carrying out of any other activity that affects the quantity or flow of water in a water source? <i>s39A(1) of the Water Management (General) Regulation 2004 provides for all public authorities (including Council) to be exempt from the need to hold a controlled activity approval. However, some consultation with NSW Office of Water should be conducted for significant landform-disturbing works of waterfront land and crossings of watercourses</i> <i>WM Act 2000</i> <i>Relevant authorities: NSW Office of Water</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.13	Will the project / activity involve works comprising a fixed or floating structure in or over navigable waters? <i>If yes, then referral and approval is required from Maritime NSW and consultation should be made with DPI (Fisheries)</i> <i>Marine Services Act 1935</i> <i>Relevant authorities: TfNSW, DPI (Fisheries)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.14	Is the project / activity located within or likely to affect the 'place' of a 'Heritage Item' identified on the Register of the National Estate, under the NSW Heritage Act, an environmental planning instrument or any other relevant register? <i>If Yes, the Heritage Council of NSW or MCC Heritage staff must be contacted for clarification of the necessary investigations / actions</i> <i>Heritage Act 1977, Greater Taree LEP 2010</i> <i>Relevant authorities: Heritage Council, MCC</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.15	Is the project / activity located within or likely to affect a place where a 'Relic' is likely to be discovered (e.g. Archaeological Zoning Plans)? <i>If Yes, the Heritage Council of NSW or DPIE must be contacted for clarification of the necessary investigations / actions</i> <i>Relevant authorities: Heritage Council, DPIE, MCC</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.16	Is the project / activity likely to affect or impact an Aboriginal Relic, Place or Site of Cultural Significance, access to wild resources important to Aboriginal people or affect an area subject to a pending or finalised Native Title claim? <i>If yes, the LALC and Aboriginal Heritage Unit of DPIE must be consulted to determine the need for appropriate investigation / consultation actions and/ or licensing</i> <i>NP&W Act 1974</i> <i>Relevant authorities: LALC, DPIE</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.17	Is the project located on land that is the subject of a successful or pending Aboriginal Land Claim or Native Title Claim? <i>If yes, the LALC must be consulted to determine the need for appropriate approval for the work</i> <i>Relevant authorities: LALC</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.18	Is the project / activity located on land that is contaminated? <i>If yes, then DPIE must be consulted and a Phase 1 Environmental Site Assessment may be required</i> <i>Contaminated Land Management Act 1997</i> <i>Relevant authorities: DPIE</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.19	Is the project / activity located at a site at which asbestos or asbestos containing materials exist? <i>If yes, then liaison with MCC Environmental Health staff, DPIE and SafeWork NSW is required to determine the appropriate course of action</i> <i>Relevant authorities: SafeWork NSW</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.20	Does the project / activity generate, handle, store, transport or dispose of: <ul style="list-style-type: none"> Hazardous, industrial or Group A or "controlled" waste? <i>If yes, then DPIE must be consulted to determine an appropriate course of investigation, action and approval</i> Dangerous goods or "Controlled Chemicals"? <i>If yes, then DPIE must be consulted to determine an appropriate course of investigation, action and approval</i> Or otherwise cause land or water contamination? <i>If yes, then DPIE must be consulted and a Phase 1 Environmental Site Assessment must be completed</i> <i>Relevant authorities: DPIE, SafeWork NSW</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.21	Will the project / activity discharge any material to a waterway or stormwater drain or affect any water management structures? <i>If yes, then compliance with DPIE and MCC pollution reduction / management targets need to be demonstrated</i> <i>Relevant authorities: DPIE, MCC</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.22	Will the project / activity discharge "Trade Waste" to the sewer? <i>If yes, then MCW must be consulted to determine the appropriate action, approval or licensing</i> <i>Relevant authorities: MCW</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.23	Is the project / activity located within or likely to affect a State Forest or area subject to a Forest Agreement? <i>If yes, then approval from Forestry Corporation may be required</i> <i>Forestry Act 1916</i> <i>Relevant authorities: Forestry Corporation</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Item	Assessment of Approvals, Licences and Permits	Tick one
2.24	Is the project / activity located within or likely to affect Crown Land? <i>If yes, approval and / or an access licence may be required from DPI (Crown Lands)</i> <i>Crown Lands Act 1989</i> <i>Relevant authorities: DPI (Crown Lands)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.25	Is the project / activity located on a State classified road? <i>If yes, then approval or access arrangements from the RMS may be required</i> <i>Relevant authorities: TfNSW</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.26	Is the project / activity located on privately-owned land? <i>If yes, then approval from the landholder is required</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.27	Will the project / activity affect or harm sub-surface or above ground utilities? <i>If yes, consultation with the utility/ service provider is required</i> <i>Relevant authorities: Electricity Supply authorities, MCW, Telstra</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.28	Will the project / activity affect bushfire prone lands, conflict with or hinder the operation of a Bush Fire Management Plan or use flames during a Total Fire Ban? <i>If yes, consultation with the RFS or local Bushfire Management Committee is required</i> <i>Rural Fires Act 1997</i> <i>Relevant authorities: RFS, Fire and Rescue NSW</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.29	Does the project / activity fall within development listed within s100B of the RFS Act? <i>If yes, then referral of the activity to the RFS may be required</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.30	Is the project / activity located within an area of Noxious Weeds or will the project / activity lead to increased spread or population of noxious weeds or declared pest animals? <i>If yes, then certain controls may be required</i> <i>Rural Lands Protection Act 1989, Noxious Weeds Act 1993</i> <i>Relevant authorities: HLLS, DPIE, MCC</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.31	Is the project / activity not permitted by the zoning and the objectives of the zoning under the LEP? <i>If yes, the project / activity cannot proceed as it is not legally permissible</i> <i>Greater Taree LEP 2010</i> <i>Relevant authorities: MCC</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.32	Is the project / activity not permissible under the Local Government Act 1993? <i>If yes, the project / activity cannot proceed as it is not legally permissible</i> <i>Local Government Act 1993</i> <i>Relevant authorities: DPIE, DLG, MCC</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.33	Are there any other known Approvals, Licences or Permits that are required for the project / activity? <i>If yes, such Approvals, Licences or Permits need to be sought</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

NOTE: If you have ticked any ☐ Yes above then you must describe the nature of the issues in the table below AND either:

- 1 Attach a copy of any correspondence, approval, licence or permit, OR
- 2 Provide written evidence that the project is exempt.

Item No. (from table above)	Discussion of the Impact and the Nature of the Permit, Approval or Licence that is Required
2.3	<u>Coastal Management SEPP (2018) Coastal Zone:</u> The project area is located within the area mapped as SEPP (2018) Coastal Zone. The project will result in minor alterations to a small section (50 m wide) of the marine sand berm. During notch creation and maintenance no sand will be removed from site. In the event of a flood, the berm will break under the influence of natural processes. The activity does not reduce or restrict access to coastal assets and does not conflict with the aims and objectives of Coastal SEPP.
2.12	<u>Controlled activity approval:</u> The project is a controlled activity located within 40 m of the Manning River. Council is exempted from the requirements of a Part 7 permit for a controlled activity, but due care will be undertaken to maintain the integrity of the existing sand berm during the works. Reference to water quality by DPI Fisheries (Attachment 2 DOC20/014962 31 January 2020) relates to bush fire conditions over the 2019/20 Christmas period. The idea to generate a new condition based on water quality is noted, and will be persuaded for future scenarios. Once completed, this work will be added as an addendum to the REF during a review period. This clause is not required for the construction, maintenance and management of flood waters
2.16	<u>Aboriginal Relic, Place or Site of Cultural Significance</u> Farquhar Campground and the lot it exists on are a recognised Aboriginal Special place. MidCoast Council commissioned RPS Group (https://www.rpsgroup.com/company/offices?region=australia.asia.pacific&country=australia) to undertake an Aboriginal Cultural Heritage Assessment of the Farquhar Inlet covering proposed navigational dredging and flood notch activities. Two reports were generated;

Item No. (from table above)	Discussion of the Impact and the Nature of the Permit, Approval or Licence that is Required
	<ul style="list-style-type: none"> Aboriginal Cultural Heritage Assessment Report Farquhar Inlet (PR145704-1) Aboriginal Archaeological Assessment Report Farquhar Inlet (PR144704-1) <p>These reports were supplied to Jaimee Vlastuin, Senior Natural Resource Management Officer, Crowns Lands via Dropbox in May 2020.</p> <p>The recommendation from the reports were for Council to apply for an Aboriginal Heritage Impact Permit (AHIP). Council have actioned this recommendation by submitting the required license paperwork to DPC Heritage NSW.</p> <p>Section 6.1 of the Aboriginal Cultural Heritage Assessment Report Farquhar Inlet (PR145704-1) documents the extensive Aboriginal Heritage Information Management System (AHIMS) search undertaken for area in question with a 1 km buffer. The search identified eleven (11) sites and one Aboriginal Place within search parameters. None of the midden AHIMS sites are located within the Project Area. The placement of the flood notch is approximately 1.5 km south of the closest identified site.</p> <p>As such no identified AHIMS sites will be impacted by these works.</p> <p>Impact to Aboriginal Value will be addressed by the AHIP issued by DPC Heritage NSW. AHIP application has been submitted.</p> <p>In addition to the Aboriginal Heritage Impact Permit (AHIP) for these works, a review of AHIMS will be undertaken with every 5-year REF review period.</p>
2.17	<p><u>Aboriginal Lands Claim</u></p> <p>It is acknowledged that there is a (un-investigated) land claim for this area.</p> <p>It is noted that consent for these works to construct and maintain the flood notch have been consented to via the Taree Purfleet LALC, as per Attachment 3 DOC20/014962 31 January 2020.</p> <p>Section 6.3 of the Aboriginal Cultural Heritage Assessment Report Farquhar Inlet (PR145704-1) documents that a search of the National Native Title Tribunal and Native Title Register were undertaken. No registered Native title claims, title determinations of Indigenous land use agreements were found for the Project Area.</p>
2.24	<p><u>Crown Land</u>: The project area is located on Lot 246 DP 754440 and will result in minor alterations to a small section (50 m wide) of the marine sand berm. During notch creation and maintenance no sand will be removed from site. A Crown Lands licence has been applied for, to permit these works being undertaken.</p>

Can the project still proceed under Part 5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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Item	IS THE PROJECT / ACTIVITY LOCATED WITHIN AND LIKELY TO AFFECT THE FOLLOWING SENSITIVE AREAS / ISSUES (in addition to issues identified in Table 2 above):	Tick one
	SENSITIVE BIOLOGICAL FACTORS	
3.1	Corals or seagrass beds or wetland communities	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.2	Habitat of threatened plant or animal species and endangered populations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.3	Habitat of species listed under International Migratory Bird Agreements	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.4	Habitat / wildlife corridors	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.5	Areas of endangered ecological communities, regionally significant native vegetation and inadequately reserved vegetation communities	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.6	Bushfire prone areas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.7	Fishing grounds, oyster leases and fish breeding / nursery areas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.8	Old-growth trees, hollow-bearing trees or standing dead trees	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.9	Rock outcrops	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.10	Environmental Protection Zones as defined by environmental planning instruments	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.11	Urban bushland, roadside vegetation*, foreshores or riparian zones <small>* s88 of the Roads Act 1993 empowers a road authority to, despite any other Act, remove or lop an tree or other vegetation that is overhanging a public road if, in its opinion, it is necessary to do so for the purpose of carrying out road work or removing a traffic hazard</small>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.12	Bush regeneration areas, dune regeneration areas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.13	Areas of infestations of noxious or invasive environmental weeds or pest animals	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.14	Any other sensitive biological factors	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	SENSITIVE PHYSICAL FACTORS	
3.15	Coastlines and dune fields, caves or other unique landforms	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.16	Land with prime agricultural capacity	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.17	Natural waterbodies, riparian zones, wetlands, drinking water catchments or flood prone areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.18	Groundwater recharge areas or areas of high water tables	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.19	Erosion prone areas or areas with slopes of greater than 18°	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.20	Subsidence or slip areas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.21	Areas of acid sulfate, sodic or highly permeable soils	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.22	Areas with salinity or potential salinity problems	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.23	Areas with degraded air quality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.24	Areas with degraded or contaminated soil area or degraded or contaminated water (ground or surface)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.25	Any other physically sensitive areas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	SENSITIVE COMMUNITY FACTORS	
3.26	Aboriginal communities, areas subject to approved or pending Native Title claims or areas used by Aboriginal people to access wild resources	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.27	Communities with a strong sense of identity	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.28	Disadvantaged communities (reduced economic, social or cultural indicators)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.29	Areas sensitive to noise, traffic or odour	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.30	Areas or items of high anthropological, archaeological, cultural, heritage, historical, recreational or scientific value	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.31	Areas or items of high aesthetic or scenic value	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.32	Any other sensitive community factors	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

NOTE: If you have ticked any ☐ Yes above, then careful attention should be paid to the completion of Table 4 and to relevant community and stakeholder consultation.

Item No. (from table above)	Discussion of the Impact on the Sensitive Area / Issue
3.2	<p><u>Threatened animal species</u>: Osprey, White-bellied Sea-Eagle, Pied Oystercatcher Beach Stone-Curlew in addition to the Red-capped Plover are present in and around the project site. Planned works will have negligible impacts on any of the listed species. Further, these works will be noted and incorporated into the Shorebird Management Plan for this area, which has been developed in partnership with DPIE - Crown Lands. Local Birdwatching Groups continue to monitor bird populations in this area. Further works will be timed as detailed in 3.3 below.</p>
3.3	<p><u>International Migratory Birds</u>: Little Tern, Aleutian Tern, have been spotted by local Birdwatching Groups. Due to the known presence of these birds, timing of works will exclude the breeding period of migratory bird species (September–April). Planned works will have negligible impacts on any of the listed species. Further, these works will be noted and incorporated into the Shorebird Management Plan for this area, which has been developed in partnership with DIPE - Crown Lands. Local Birdwatching Groups continue to monitor bird populations in this area.</p> <p>Manning River Save Our Species Site Plan 2018-19 Threatened Beach Nesting Birds (attached) outlines actions to prevent shorebird nests from being at risk of inundation from king tide, storms, large swells and flooding, in addition to dredging or creation and maintenance of a flood notch. This plan is reviewed annually.</p> <p>From previous activities undertaken to release flood waters (most recently April 2018 and February 2020) the implementation of shorebird nesting procedures as per the SOS plan deters birds from nesting in the flood notch. Further, once flood waters reach emergency opening levels (under I SEPP Part 3 Division 25 Clause 129 (c) emergency works, including works required as a result of flooding, as stated above) the notch is full of water, as such no birds would be present. Previous years have proven that birds do not nest on the ocean side of the flood notch due to the presence of 4WD traffic. As such, to release flood water through Farquhar via the flood notch does not impact on nesting birds. As per the two previous emergency actions (April 2018 and February 2020) a site inspection for wildlife is undertaken prior to works commencing. In the event species are encountered, either the nominated shorebird warden (as per SOS Site plan) or Council's Senior Ecologist will attend site to direct the management of identified species.</p> <p>As outlined in section 1.8, works to construct and maintain the flood notch are planned to avoid the shorebird nesting periods. In the event that works are required to occur during the nesting season, actions from the SOS Site plan will be implemented to deter birds nesting in proposed work locations. A site inspection for wildlife will be undertaken prior to works commencing. If species are encountered, either the nominated shorebird warden (as per SOS Site plan) or Council's Senior Ecologist will attend site to direct the management of identified species. In the event birds are located in the work zone and are unable to be relocated, works will cease until birds have left the work zone on their own accord.</p>
3.15	<p><u>Coastline and dune field</u>: The soils at the project site are a marine sand deposit. The sand berm is formed by the landward extent of wave action depositing sand. These coastal processes dominate in drought or low river flow conditions and rapidly infill the entrance channel. Generally sand berms occur on reflective beaches (low energy) and can erode as swash uprush or where the water table is close to the surface. The works will not impact the function of the sand berm.</p>
3.17	<p><u>Natural Waterbodies</u>: While part of the larger Manning River, Farquhar Inlet is an Intermittently Closed and Open Lake and Lagoon (ICOLL). The definition of an ICOLL is broad and includes river estuaries which seasonally close off in response to dry catchment conditions and low river flows. The works will not impact the function of this water body.</p>
3.31	<p><u>Scenic landscape</u>: Scenic amenity will not be impacted in the project area.</p>

Can the project still proceed under Part 5

☒ Yes ☐ No

TABLE 4A - ENVIRONMENTAL IMPACT ASSESSMENT

STEP 5

STEP 6

STEP 7

Impacts, Causes and Mitigation Factors			Project Specific Environmental Safeguards Required	Significant Issue - Further Assessment Required
NOTE: Either tick 'no impact' OR provide details.				
PHYSICAL FACTORS	No Impact	Describe impacts, causes and summarise protective safeguards		
Disturbs the topography or above or below ground features including filling, excavation, dredging and tunnelling or involves the deposition of large quantities of spoil / fill	No Impact ✓	OR: The project will involve creation and maintenance of a flood notch, which is to be excavated to 50-metre-wide, with a reduced elevation of 1.0 m AHD. The flood notch is to be periodically maintained (cut sand to be retained on site, adjacent to the flood notch). It is noted that the flood notch does not extend through the berm to the ocean.	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Affects a natural waterbody, wetland or groundwater aquifer or the natural drainage pattern; affects the quality or quantity of water in the systems	No Impact ✓	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Disturbs acid sulfate soil or contaminated land in a manner that may cause the liberation of pollutants and contaminants that may harm the environment	No Impact ✓	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Uses groundwater or surface water from a natural waterbody; stores water in a dam or artificial waterbody	No Impact ✓	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Changes the flood or tidal regimes or is potentially affected by flooding or tides	No Impact ✓	OR: As per recommendation of the Farquhar Inlet Entrance Opening Management Plan 2010, should one of the following triggers be met, the Inlet is to be mechanically opened. An excavator will be used to break the sand berm between the flood notch and ocean: i. A flood level of 1.6 m AHD at Farquhar Inlet gauge ii. Salinity levels at Farquhar Inlet fall below 12 ppt iii. Closure of Scotts Creek Shellfish harvest area for more than 120 consecutive days, combined with a weekly rainfall reading at Taree Airport greater than 80 mm.	<input type="checkbox"/> Yes ✓ No	<input type="checkbox"/> Yes ✓ No
Directly or indirectly pollutes or contaminates watercourses, wetlands, drains or groundwater	No Impact ✓	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Uses, stores, disposes or transports hazardous substances or chemicals that may accumulate in the environment (flammable, explosive, toxic, radioactive, carcinogenic or mutagenic substances)	No Impact ✓	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Generates or disposes of gaseous, liquid or solid waste (industrial, medical or domestic waste, sewage, sludge or effluent, spoil or overburden); generates or disposes hazardous waste	No Impact ✓	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

Impacts, Causes and Mitigation Factors			Project Specific Environmental Safeguards Required	Significant Issue - Further Assessment Required
NOTE: Either tick 'no impact' OR provide details.				
Generates greenhouse gas emissions or leads to the release of chemicals which may affect the ozone layer or are precursors to photochemical smog	No Impact <input type="checkbox"/>	OR: Minor greenhouse gas emissions will be produced by construction machinery. The short term duration of the construction will mean that such emissions are negligible and insignificant compared to emissions generated by vehicle movements along this section of road on a daily basis.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Generates or emits dust, fumes or odours, particularly in the proximity of residential areas or other land-uses likely to be susceptible to impact	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Generates noise, particularly in the proximity of residential areas or other land-uses likely to be susceptible to impact	No Impact <input type="checkbox"/>	OR: During construction, slightly increased noise levels may be experienced. All equipment and construction times will comply with the Noise Act and will be managed to reduce risks associated with nuisance noise generation. Residential dwellings in this vicinity are set well away from the project site.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Generates noise outside standard working hours that may affect surrounding landholders and uses.	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Generates vibration, blasts, electromagnetic fields or radiation, particularly in the proximity of residential areas or other land-uses likely to be susceptible to impact	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Any other physical matters	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
BIOLOGICAL FACTORS	No Impact	Describe impacts, causes and summarise protective safeguards		
Clears or modifies native vegetation (including trees, shrubs, grasses, herbs and aquatic vegetation)	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Displaces or disturbs fauna (terrestrial or aquatic) or their habitats	No Impact <input type="checkbox"/>	OR: Movement of equipment has the capacity to crush and kill intertidal organisms, such as pipis (Molluscs), crabs (Crustaceans), worms (Nematodes and Polychaete), and amphipods (also called beach fleas) and other benthic macrofauna and meiofauna. The duration and intensity of these impacts depends upon re-colonisation processes in both the excavation and depositional zones (Speybroek et al 2006). Rates of recovery from burial are species-specific and vary. Marine benthic organisms which have a pelagic juvenile life stage colonise newly nourished beach more rapidly than those which do not (Speybroek et al 2006). Studies have also shown that some beach invertebrates, when disturbed, are able to orientate themselves using the sun and the moon and can find their way back to their position on the beach (Griffith University 2011). The works will have less effect than effects attributed to an erosion event, in removing large amounts of sand from the intertidal zone and sand berm. Planned works will have negligible impacts on any of the listed species.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Fragments or blocks wildlife movement corridors	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Introduces noxious weeds, vermin, feral species or diseases or releases genetically modified organisms	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Undertakes activity which affects revegetation or replenishment of native species following disturbance	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Introduces high bushfire risk factors or changes the fire regime	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Any other biological issues	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

Impacts, Causes and Mitigation Factors			Project Specific Environmental Safeguards Required	Significant Issue - Further Assessment Required
NOTE: Either tick 'no impact' OR provide details.				
RESOURCES	No Impact	Describe impacts, causes and summarise protective safeguards		
Uses or results in the use of community services or infrastructure including roads, power, water, drainage, waste management, education, medical, social services	No Impact <input type="checkbox"/>	OR: Planned works will use an existing beach vehicle access point. During the commencement and completion of works, minor delays to recreational 4WD access will be experienced as the machine uses this access point to enter and exit the beach. No other aspects of the planned works will impact on recreational uses of the area.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Uses or results in the use of natural resources including water (ground or surface), fuels, timber, extractive material, minerals, prime agricultural land, especially those that are likely to become in short supply in the future	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Affects future potential of commercial deposits of minerals or extractive material or areas important for fishing, agriculture or forestry	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Changes the demographics of an area	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Changes the transport requirements of an area	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Creates a new route alignment for the provision of infrastructure (eg. rail, roads, power)	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Any other resource issues	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
COMMUNITY FACTORS	No Impact	Describe impacts, causes and summarise protective safeguards		
Generates significant population movements including influx or departure of workforce	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Changes the workforce or industry structure of the area / region; affects employment opportunities	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Affects areas of high population densities or established development patterns	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Affects or restricts local transport patterns	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Affects an area, building or item of aesthetic, anthropological, archaeological, architectural, historic, Aboriginal, cultural, scientific, recreational, or social significance or other special value for present or future generations; or access to any such areas	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Affects the visual or scenic landscape	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Affects sunlight or views of another property	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Affects the amenity of publicly owned land	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Changes land use from the surrounding uses as a result of the activity; forms a barrier to movement within the community or access to existing properties; leads to a loss of housing	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Generates a significant volume of traffic	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Generates nuisance or health or safety risks	No Impact <input checked="" type="checkbox"/>	OR: There is potential for health and safety risks to the public whilst works are being carried out. These will be adequately managed through appropriate site management with a defined works boundary and spotters while machinery is in use in addition to appropriate WHS procedures.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Creates a potential financial loss to members of the community	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Any other environmental impacts on a community	No Impact <input checked="" type="checkbox"/>	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

Impacts, Causes and Mitigation Factors			Project Specific Environmental Safeguards Required	Significant Issue - Further Assessment Required
NOTE: Either tick 'no impact' OR provide details.				
OTHER FACTORS	No Impact	Describe impacts, causes and summarise protective safeguards		
Causes a cumulative environmental effect with other existing or likely future activities	No Impact ✓	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Reduces the range of beneficial uses of the environment or the ability of the environment to provide ecosystem service values	No Impact ✓	OR:	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

NOTE: Projects with significant issues require further assessment (as identified in the table above) or the revising of that project / activity to reduce the scale of environmental risks or threats. Where the project is modified, a revised REF must be prepared.

TABLE 4B - ASSESSMENT OF SIGNIFICANCE - THE "7-PART TEST"
STEP 8

Factors	Comments	SIS Required
<i>a) In the case of a threatened species, whether the action proposed is likely to have an adverse effect on the lifecycle of the species such that a viable local population of the species is likely to be placed at risk of extinction</i>	<p>The proposal is not likely to have an adverse effect on the lifecycle of any threatened species.</p> <p>White-Bellied Sea-Eagle and Osprey have been spotted by local Birdwatching Groups. Works are unlikely to impact these species as a large habitat is available in the surrounding area. Further, the timing of works will exclude the breeding period of migratory bird species (September–April). Planned works will have negligible impacts on any of the listed species. Further, these works will be noted and incorporated into the Shorebird Management Plan for this area, which has been developed in partnership with DPIE - Crown Lands & Local Birdwatching Groups continue to monitor bird populations in this area.</p> <p>The works would not be associated with impacts on threatened species lifecycles or habitat such that local extinction results from the work.</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>b) In the case of an endangered population, whether the action proposed is likely to have an adverse effect on the lifecycle of the species that constitutes the endangered population such that a viable local population of the species is likely to be placed at risk of extinction</i>	There are no known endangered populations associated with this proposal.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>c) In the case of an endangered ecological community or critically endangered ecological community, whether the action proposed:</i> <i>i) is likely to have an adverse effect on the extent of the ecological community such that its local occurrence is likely to be placed at risk of extinction</i> <i>ii) is likely to substantially and adversely modify the composition of the ecological community such that its local occurrence is likely to be placed at risk of extinction</i>	There are no known endangered populations associated with this proposal.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>d) In relation to the habitat of a threatened species, population or ecological community:</i> <i>i) the extent to which the habitat is likely to be removed or modified as a result of the action proposed</i> <i>ii) whether an area of habitat is likely to become fragmented or isolated from other areas of habitat as a result of the proposed action</i> <i>iii) the importance of the habitat to be removed, modified, fragmented or isolated to the long-term survival of the species, population or ecological community in the locality</i>	<p>There would be no substantial impact on any threatened species as a consequence of these works.</p> <p>Although records of vulnerable and threatened (NSW Biodiversity Conservation Act 2016) species were recorded incidentally or during various surveys within a 5 km radius of the work site (see species list above), these works will not impact or alter any habitat for these species.</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>e) Whether the action proposed is likely to have an adverse effect on critical habitat (either directly or indirectly)</i>	There is no critical habitat associated with this proposal.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>f) Whether the action proposed is consistent with the objectives of actions of a recovery plan or threat abatement plan</i>	The works do not affect or undermine any recovery or threat abatement plans.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>g) Whether the action proposed constitutes or is part of a key threatening process or is likely to result in the operation of, or increase the impact of, a key threatening process</i>	The proposal does not significantly constitute or is part of a key threatening process.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Every project / activity must be considered with respect to its impact on threatened biodiversity. Assistance in the completion of the above table should be sought from MidCoast Council's Ecologist.

TABLE 4C - OTHER RELEVANT COUNCIL POLICIES / GUIDELINES

Item	RELEVANT POLICY / GUIDELINE:	Is the policy relevant?	Has the policy been considered?
4A.1	Water Quality Improvement Plan	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
4A.2	Sediment and Erosion Control Policy	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4A.3	Wallis Lake Wetland Strategy	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
4A.4	Tree Preservation Order	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4A.5	Any other Policy or Guideline	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

NOTE: The person completing this Checklist must consider the policies identified in Table 4A that are relevant to the project. These policies may contain additional Control Measures to mitigate the environmental impacts of the project or additional requirements relating to how specific activities that are part of the project must be conducted. If there is a particular issue for which Council does not have a policy, the REF author should consult an appropriate supervisor.

NOTE: Refer to sections 5A, 111 and 112 of the EPA Act, clause 228 of the EPA Regulation, DoP's guidelines "Is an EIS required?" and DECC's "Interim Community Guidelines for Community Consultation" for a full list of the matters that must be taken into account to determine the likely impact of an activity on the environment. The relevant documents can be found online at the following locations:

- 1 EP&A Act and EP&A Regulation: www.legislation.nsw.gov.au/maintop/scanact/inforce/NONE/0
- 2 DoP's guidelines "Is an EIS required?": www.planning.nsw.gov.au/assessingdev/pdf/gu_isaneisrequired.pdf
- 3 DECC's "Interim Community Guidelines for Community Consultation": www.nationalparks.nsw.gov.au/PDFs/interim_consultation_guidelines.pdf

TABLE 5A - DECISION
STEPS 9 - 11
Person who prepares the EIA

By ticking the boxes below, I certify to the best of my knowledge that:

- ☒ I am suitably qualified and competent to complete this REF, and:
- ☒ I have completed Council's REF training package
- ☒ I have satisfactorily and truthfully completed this Checklist, and
- ☒ The assessment meets the requirements of sections 5A, 111 and 112 of the EP&A Act, clause 228 of the EP&A Regulation and other relevant legislation and guidelines, and
- ☒ The information contained in this REF is not false or materially misleading, and
- ☒ My assessment has been adequately completed, and
- ☒ My conclusion as to the likely environmental impact of the project is reasonable, and
- ☒ The community impacts are likely to be ☒ **LOW** ☐ MODERATE ☐ HIGH (tick one), and
- ☒ Further environment impact assessment (REF1 or REF2) is not deemed required, and
- ☒ I have adequately consulted relevant Council Officers on pertinent aspects of the project / activity (such Officers have comprised the following: Mat Bell - Senior Ecologist), and
- ☒ I am satisfied that, subject to the inclusion of the protective safeguards included in Schedule 1, the project / activity will not have a significant impact on the environment during both the construction and operation phases.

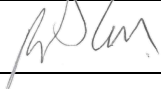
Signature		Date	14/02/2022
Name	Peter Goonan - Environmental Projects Officer		

TABLE 5B - PROJECT / ACTIVITY APPROVAL

Recommendation—Great Lakes REF Assessment Panel

The Great Lakes REFAP is of the opinion that:

- ☐ The person who completed this REF is suitably qualified and competent, and

EITHER

- ☐ Based on the completed REF and our knowledge of the project, the assessment is true and valid and has been adequately completed, the project has minor and predictable impacts, the conclusion as to the likely environmental impact of the project is reasonable ~~and the Director can approve the project / activity~~ subject to the relevant protective safeguards (Schedule 1), the specific additional protective safeguards required by this REFAP and the conditions in any approvals, licences or permits.

OR

- ☐ The project requires additional environmental assessment and approval cannot be given at this time. We believe the project / activity needs to be assessed via:

☐ REF1

☐ REF2

☐ EIS

☐ Other specialist studies or sub-studies (specify):

☐ Other (specify):

Signature (on behalf of the REFAP)		Date	
Name			

Determining Officer - Council Officer Who Verifies the EIA

I certify on behalf of Mid-Coast Council that:

- I am the Coordinator of the Council Branch proposing the activity and acting on the advice of the Great Lakes REF Assessment Panel, that

EITHER

- ☒ Based on the completed REF, my knowledge of the project and the recommendations of the REFAP, the assessment has been adequately completed, the project has minor and predictable impacts, the conclusion as to the likely environmental impact of the project is reasonable **and the project can proceed** subject to the relevant control measures and conditions in any approvals, licences or permits and Schedule 1 of this REF.

OR

- ☐ The project requires additional environmental assessment and approval cannot be given at this time.

Signature	<i>Tanya Cross</i>	Date	14/02/2022
Name	Tanya Cross - Sustainability and Natural Assets Coordinator		

SCHEDULE 1 - ENVIRONMENTAL SAFEGUARDS ACTION PLAN

This form has been reviewed and signed prior to the commencement of any works by the following. These Officers endorse the adoption of the following protective safeguards and will seek to actively implement these safeguards and measures in the field during the project / activity:

Signed by:

Project Manager **Name..... (please print)**

Signature.....

Date.....

Site Works Foreman **Name..... (please print)**

Signature.....

Date.....

Once signed, this form becomes a working field document and part of the site EMP / EMS (if applicable). A signed master copy shall be held as a controlled copy by the Project Manager to ensure that all environmental responsibilities are achieved for this project. When protective safeguards are actioned, the master copy shall be updated to reflect this. This form can become part of a site audit for compliance with the REF. Copies of this form shall be carried by all relevant personnel during the construction.

Action	PROJECT MANAGER - Action Complete	SITE WORKS FOREMEN - Action Complete
Protective Safeguards prior to the Commencement of Works		
<p>Prior to any commencement of works that disturb the ground surface:</p> <ul style="list-style-type: none"> A Sediment and Erosion Control Plan shall be prepared. <p>The plan shall detail the measures and actions to prevent and/ or manage the generation and mobilisation of sediments, the erosion of land and the contamination of receiving waters by sediment. It shall be prepared to comply with relevant Council plans and policies.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
A Vehicle/ Traffic Management Plan shall be prepared for the works.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Protective Safeguards during the Works		
All site works shall be conducted within appropriate and defined work hours	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<p>With regards to the timing/ scheduling of the works:</p> <ul style="list-style-type: none"> The physical works shall be timed, where possible, to avoid inclement weather (rain and high winds), and The works shall be completed as expediently as possible. 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Every effort shall be made to identify, avoid, control or mitigate sediment and pollutant generation or mobilisation during all stages of the site works.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
The approved Sediment and Erosion Control Plan shall be fully implemented during all relevant stages of the project/ activity.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
The approved Vehicle/ Traffic Management Plan shall be fully implemented during all relevant stages of the project/ activity.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A

Action	PROJECT MANAGER - Action Complete	SITE WORKS FOREMEN - Action Complete
<p>For machinery working on the site, with regards to emissions, noise and weeds:</p> <ul style="list-style-type: none"> All machinery shall be serviced and functioning efficiently and all seals and gaskets shall be inspected prior to commencement of the work to minimise the risks of a fuel or oil spills. All machinery shall be washed down and disinfected prior to transport to the work site to reduce risks associated with the spread of weeds and plant diseases. Prior to work, the exhaust of all construction machinery shall be inspected for smoke emission. If the machinery is producing extensive smoke, it shall be appropriately serviced prior to commencing work on the site. 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<p>For machinery working on the site, with regards to fuels and oils:</p> <ul style="list-style-type: none"> Machinery on site shall contain appropriate spill containment equipment, which shall be deployed when required. Refuelling shall be conducted with care to avoid spills and accidents and shall be generally undertaken in a suitably bunded area to avoid fuel and oil spills from entering drainage channels or natural waterways. Any fuel, oil or chemical spills shall be reported immediately to the relevant authorities and the area in the vicinity of the spill shall be closed to the public. 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Waste materials generated from the works shall be appropriately disposed or re-used.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Appropriate WH&S standards shall be maintained for the handling of chemicals, fuels and oils. Such actions shall comply with all relevant workplace health and safety guidelines and standards.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Fill material shall be clean and suitable material only and be obtained from an approved source.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<p>During any excavation and landform modification works, site personnel shall visually monitor the presence of cultural sensitive material and if such material is detected:</p> <ul style="list-style-type: none"> The works shall immediately cease, and The DPIE and the relevant Local Aboriginal Land Council shall be immediately notified and consulted, and Any management actions devised by those agencies/ organisations shall be fully deployed during all relevant stages of the works 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Monitoring		
All water quality control structures and downstream receiving waterbodies shall be visually monitored for water pollution, particularly during and after rain events.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<p>Dust generation and vibration as a consequence of the works shall be visually monitored.</p> <p>Excavated material shall be inspected for potential acid sulfate material. If such material is detected, it shall be tested and if acidic, shall be managed in a manner that avoids harm on the natural environment through appropriate liming, disposal, etc.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Consultation		
At all times during the construction, appropriate access shall be maintained for adjoining residents.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
An appropriate forum for the receipt of complaints and comments arising from the work from the community shall be established and maintained during the works.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A



Office of
Environment
& Heritage

AHIMS Web Services (AWS) Search Result

Purchase Order/Reference : FarquharInlet

Client Service ID : 312968

Greater Taree City Council

Date: 15 November 2017

2 Pulteney Street
Taree New South Wales 2430

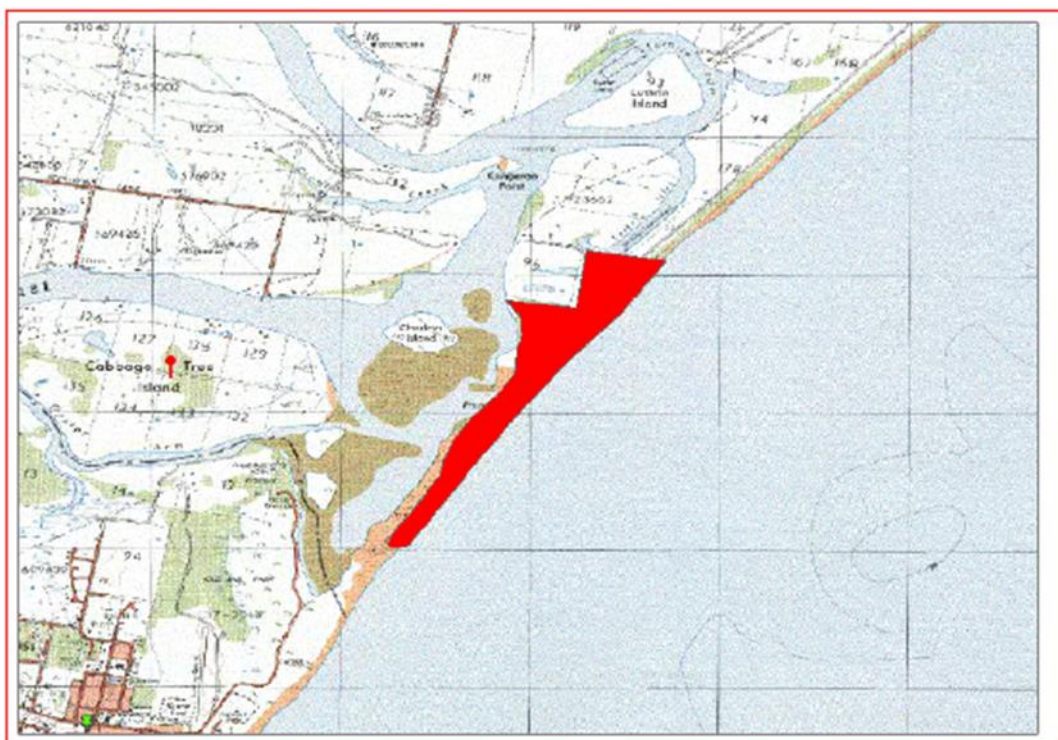
Attention: Sharon Rose

Email: sharon.rose@gtcc.nsw.gov.au

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat. Long From : -31.9641, 152.5815 - Lat. Long To : -31.9288, 152.6374 with a Buffer of 50 meters, conducted by Sharon Rose on 15 November 2017.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of the Office of the Environment and Heritage AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

15 Aboriginal sites are recorded in or near the above location.

1 Aboriginal places have been declared in or near the above location. *

ID	Aboriginal Place Name
----	-----------------------

21	Farquar Park
----	--------------