

SARA reference: 1810-7611 SRA  
Council reference: MCU2760/2018  
Applicant reference: L3 Vixes Rd- Fish Farm Expansion

28 May 2019

Chief Executive Officer  
Douglas Shire Council  
PO Box 723  
Mossman Qld 4873  
enquiries@douglas.qld.gov.au

Attention: Jenny Elphinstone

Dear Sir/Madam

### **Changed referral agency response (with conditions) — Vixies Road, Wonga Beach**

(Given under section 28 of the Development Assessment Rules)

On 21 May 2019 the department received notice of a change to the development application described below. The department has assessed the changes and now provides this changed referral agency response which replaces the response dated 14 May 2019.

## **Response**

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Outcome:	Changed referral agency response – with conditions	
Date of response:	28 May 2019	
Conditions:	The conditions in <b>Attachment 1</b> must be attached to any development approval.	
Advice:	Advice to the applicant is in <b>Attachment 2</b> .	
Reasons:	The reasons for the referral agency response are in <b>Attachment 3</b> .	

## **Development details**

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Description:	Development permit	Material change of use for aquaculture (expansion of existing fish farm) and Environmentally Relevant Activity
SARA role:	Referral Agency	
SARA trigger:	<ul style="list-style-type: none"> <li><b>Schedule 10, Part 5, Division 4, Table 2, Item 1-</b></li> </ul>	

Environmentally relevant activities

- **Schedule 10, Part 6, Division 1, Subdivision 3, Table 1, Item 1**- Aquaculture
- **Schedule 10, Part 6, Division 3, Subdivision 3, Table 2, Item 1** – Removal, destruction or damage of marine plants
- **Schedule 10, Part 9, Division 4, Subdivision 2, Table 4, item 1**- State Transport corridor or future State transport corridor
- **Schedule 10, Part 17, Division 3, Table 6, Item 1**-Tidal works or work in a coastal management
- **Schedule 10, Part 20, Division 4, Table 3, Item 1**- Wetland protection area

(Planning Regulation 2017)

SARA reference:	1810-7611 SRA
Assessment Manager:	Douglas Shire Council
Street address:	Vixies Road, Wonga Beach
Real property description:	Lot 3 on SP292103
Applicant name:	Daintree Saltwater Barramundi Fish Farm Pty Ltd c/- Ecosustainability
Applicant contact details:	PO Box 230 Yorkeys Knob QLD 4878 gcecosustainability@gmail.com
Environmental Authority:	This referral included an application for an environmental authority under section 115 of the <i>Environmental Protection Act 1994</i> . Below are the details of the decision: <ul style="list-style-type: none"> <li>• Approved</li> <li>• Reference: EA0001769</li> <li>• Effective date: Takes effect on a date to be decided later.</li> <li>• Prescribed environmentally relevant activity (ERA): ERA01- Aquaculture 2: Cultivating or holding marine, estuarine or freshwater organisms, other than crustaceans, in enclosures that are on land and have a total area of (a) more than 100 square metres but not more than 10ha.</li> </ul>

If you are seeking further information on the environmental authority, the Department of Environment and Science's website includes a register. This can be found at: [www.des.qld.gov.au](http://www.des.qld.gov.au)

## Representations

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 Joanne Manson, Principal Planning Officer, SARA Far North QLD on 40373228 or via email CairnsSARA@dsmip.qld.gov.au who will be pleased to assist.

Yours sincerely



Brett Nancarrow  
Manager (Planning)

cc Daintree Saltwater Barramundi Fish Farm Pty Ltd, c/- EcoSustainAbility, gcecosustainability@gmail.com

enc Attachment 1 - Changed referral agency conditions  
Attachment 2 - Advice to the applicant  
Attachment 3 - Changed reasons for referral agency response  
Attachment 4 - Change representation provisions  
Attachment 5 - Approved plans and specifications

## 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 plans and specifications referenced below are found at **Attachment 5**)

No.	Conditions	Condition timing
<b>Material change of use</b>		
<p><b>Schedule 10, Part 17, Division 3, Table 6, Item 1-Tidal works or work in a coastal management district</b> —The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of the <b>Department of Environment and Science</b> 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 conditions:</p>		
1.	<p>The work in the coastal management district must be carried out generally in accordance with the following plan:</p> <ul style="list-style-type: none"> <li>• Proposed Pond Layout Lot 3 on SP292103, <b>prepared by Gary T Pozzi</b>, dated 26/03/2018, reference 18/03, Version B</li> <li>• <b><u>SITE PLAN SHEET 2 OF 2 LOT 3 SP150448 WONGA BEACH, prepared by RPS, dated 27/01/2015, reference 9338-9 (as amended in red)</u></b></li> </ul>	Prior to the commencement of use and to be maintained at all times.
2.	For the proposed works, only use clean materials and ensure that the works do not cause contamination. To achieve this only use materials which are free from contaminants as defined under section 11 of the <i>Environmental Protection Act 1994</i>	For the duration of the works
3.	Erosion and sediment control measures which are in accordance with the <i>Best Practice Erosion and Sediment Control (BPESC) guidelines for Australia (International Erosion Control Association)</i> , are to be installed and maintained to prevent the release of sediment to tidal waters.	For the duration of the works
<b>Material change of use</b>		
<p><b>Schedule 10, Part 6, Division 3, Subdivision 3, Table 2, Item 1 —Removal, destruction or damage of marine plants</b> —The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of the <b>Department of Agriculture and Fisheries</b> 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 conditions:</p>		
4.	<p>Development authorised under this approval is limited as follows:</p> <ul style="list-style-type: none"> <li>• operational works to remove, damage, destroy marine plants being limited to: <ul style="list-style-type: none"> <li>o Permanent removal of marine plants within Settlement pond 2 (approximately 5 ha) and shown in Marine Plant Disturbance Areas Settlement Pond 2, Environment Pacific, dated 18/02/2019, reference Figure 1, Revision B.</li> <li>o Permanent removal of 10m<sup>2</sup> of mangrove ferns and milky mangroves shown in Marine Plant Disturbance Drainage Works Area, Environment Pacific, dated 18/02/2019, reference Figure 2, Revision B.</li> </ul> </li> </ul>	Prior to the commencement of use and to be maintained at all times

	<ul style="list-style-type: none"> <li>o Temporary disturbance by the use of hand tools of up to 20m<sup>2</sup> of marine plants on the bund shown in Figure 1: Re-establishment of Fish Habitat Connectivity in Settlement Pond 4 from Section 2.3.1 Rehabilitation in Pond 4 of Farm Expansion Material Change of Use Response to Information Request 1810-7611 SRA, EcoSustainAbility Pty Ltd, 21 March 2019, Version 1.1</li> </ul>	
5.	<p>Provide written notice to notifications@daf.qld.gov.au, when the development authorised under this approval:</p> <ul style="list-style-type: none"> <li>(a) will start, and</li> <li>(b) when it has been completed.</li> </ul> <p>These notices must state this permit number 1810-7611 SRA.</p>	<p>At least 5 business days but no greater than 20 business days prior to the commencement of the works</p> <p>Within 15 business days of the completion of the fisheries development works.</p>
6.	Spoil is not disposed of on tidal lands or within waterways and is managed to prevent acid soil development.	At all times
7.	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 inspector at all times, pursuant to section 145 of the <i>Fisheries Act 1994</i> .	At all times
8.	Marine plants authorised for removal and other material used in the development (e.g. debris, construction material, soil, etc.) are to be promptly removed from the intertidal zone.	For the duration of the works the subject of this approval and to be maintained
9.	The marine plant mitigation works must be undertaken generally in accordance with the Farm Expansion Material Change of Use Response to Information Request 1810-7611 SRA prepared by EcoSustainAbility Pty Ltd dated 21 March 2019, Version 1.1, Section 2.3.1 Rehabilitation in Pond 4.	Prior to the commencement of use and to be maintained at all times
10.	No removal, damage or destruction of any marine plants is permitted within the treatment wetland shown on Proposed Pond Layout Lot 3 on SP292103, <b>prepared by</b> Gary T Pozzi, dated 26/03/2018, reference18/03, Version B.	At all times
11.	<b><u>Removal and disposal of marine plants is permitted from within the two constructed drains on the eastern and western boundaries of the property</u></b>	<b><u>For the duration of the works the subject of this approval</u></b>
<b>Material change of use</b>		
<p><b>Schedule 10, Part 6, Division 1, Subdivision 3, Table 1, Item 1—Aquaculture</b> —The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of the <b>Department of Agriculture and Fisheries</b> 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 conditions:</p>		
12.	The approved fisheries resources the subject of this approval are limited to the following species:	Prior to commencement of use and to be maintained at all times

Common Name	Scientific Name
Australian bass	<i>Macquaria novemaculeata</i>
Banded rainbowfish	<i>Melanotaenia trifasciata</i>
Barcoo grunter	<i>Scortum barcoo</i>
Barramundi	<i>Lates calcarifer</i>
Barramundi cod	<i>Cromileptes altivelis</i>
Barred-cheek coral trout	<i>Plectropomus maculatus</i>
Blue-spot coral trout	<i>Plectropomus laevis</i>
Cobia	<i>Rachycentron canadum</i>
Common coral trout	<i>Plectropomus leopardus</i>
Eel tail catfish	<i>Tandanus tandanus</i>
Estuary cod	<i>Epinephelus coioides</i>
Flowery cod	<i>Epinephelus fuscoguttatus</i>
Freshwater shrimp	<i>Macrobrachium rosenbergii</i>
Golden perch (Cooper Creek strain)	<i>Macquaria ambigua n.sp</i>
Golden perch (Dawson River strain)	<i>Macquaria ambigua oriens</i>
Golden perch (Murray-Darling strain)	<i>Macquaria ambigua ambigua</i>
Golden Snapper	<i>Lutjanus johnii</i>
Gulf Saratoga	<i>Scleropages jardinii</i>
Mahi Mahi	<i>Coryphaena hippurus</i>
Mangrove jack	<i>Lutjanus argentimaculatus</i>
Milkfish	<i>Chanos chanos</i>
Mud Crab	<i>Scylla serrata</i>
Mulloway	<i>Argyrosomus japonicus</i>
Murray cod	<i>Maccullochella peeli peeli</i>
Passionfruit trout	<i>Plectropomus areolatus</i>
Queensland groper	<i>Epinephelus lanceolatus</i>
Redclaw crayfish	<i>Cherax quadricarinatus</i>
Sand whiting	<i>Sillago ciliata</i>
Silver perch	<i>Bidyanus bidyanus</i>
Sleepy cod	<i>Oxyeleotris lineolatus</i>

	<p>Snapper <i>Pagrus auratus</i></p> <p>Southern saratoga <i>Scleropages leichardti</i></p> <p>Spangled perch <i>Leiopotherapon unicolor</i></p> <p>Tropical rock lobster <i>Panulirus ornatus</i></p> <p>Yabby <i>Cherax destructor</i></p> <p>Hereafter referred to as the “approved species”.</p>	
13.	<p>The water surface area associated with the additional production ponds (approximate area of 5.323 <b>8.74</b> hectares), settlement pond (approximate area of 0.7 hectares) and treatment wetland (approximate area of 11.58 hectares) is limited to a combined maximum area of 21.4 <b>21.02</b> hectares, and must be carried out generally in accordance with the following plan:</p> <ul style="list-style-type: none"> <li>Proposed Pond Layout Lot 3 on SP 292103, <b>prepared by</b> Gary T Pozzi, dated 26/03/2018, reference 18/03, Version B</li> <li><b><u>SITE PLAN SHEET 2 OF 2 LOT 3 SP150448 WONGA BEACH, prepared by RPS, dated 27/01/2015, reference 9338-9 (as amended in red)</u></b></li> </ul>	Prior to commencement of use and to be maintained at all times
14.	<p>This aquaculture development constitutes a place that is required to be open for inspection by an inspector at all times, pursuant to section 145 of the <i>Fisheries Act 1994</i>.</p>	At all times
15.	<p>Inform the assessing authority Department of Agriculture and Fisheries via notifications@daf.qld.gov.au of any changes to the personal contact details for this development approval.</p> <p><b>Note:</b> Forms for reporting a change in contact details can be found at <a href="https://www.daf.qld.gov.au/fisheries/aquaculture/aquaculture-approvals">https://www.daf.qld.gov.au/fisheries/aquaculture/aquaculture-approvals</a></p>	Within 28 days of change to personal contact details
16.	<p>Aquaculture fisheries resources must not be sold, traded or given away for the purposes of using for bait. This includes the use of whole fish and any part of the fish.</p>	At all times
17.	<p>Provide an annual aquaculture production return in the approved form to the Department of Agriculture and Fisheries. This includes lodging a nil return when no activity has occurred.</p> <p><b>Note:</b> This is an information requirement pursuant to section 118 of the <i>Fisheries Act 1994</i>. Details on how to lodge and electronic aquaculture production return will be sent to operators annually.</p>	By close of business on the 31 July each year
18.	<p>Aquaculture fisheries resources must not be released into Queensland waters (as defined in the <i>Acts Interpretation Act 1954</i>) with the exception of any ponds, tanks, containers approved to hold aquaculture fisheries resources.</p> <p><b>Note:</b> It is an offence under the Fisheries Act 1994 to unlawfully release aquaculture fisheries resources, or cause aquaculture fisheries resources to be released, into Queensland waters. Maximum penalty—2000 penalty units.</p>	At all times
19.	<p>The movement of fisheries resources into, or within, Queensland must comply with the current version of:</p> <p>(a) Health protocol for the importation and movement of live barramundi; <i>and</i></p>	At all times

	<p>(b) Health protocol for the movement of live freshwater crayfish and prawns; and</p> <p>(c) Health protocol for the movement of live freshwater native finfish (other than barramundi and eels; and</p> <p>(d) Health protocol for the movement of live marine crustaceans including crabs, lobsters and bugs; and</p> <p>(e) <i>any approved species not included in a species specific health protocol</i>: “Health protocol for movement of aquatic animals for aquaculture in Queensland”</p> <p><b>Note:</b> Health protocols and application form FDU1398 can be found at <a href="https://www.daf.qld.gov.au/fisheries/aquaculture/management-and-policies">https://www.daf.qld.gov.au/fisheries/aquaculture/management-and-policies</a></p> <p>Note: Commonwealth quarantine protocols must be successfully completed for the relevant organisms of any species prior to their introduction to the approved aquaculture area.</p>	
20.	<p>Maintain control over the release of water from all ponds, tanks and drainage systems within the approved aquaculture area.</p> <p><b>Note:</b> Control may be achieved through ensuring ponds, tanks and containers integrity at all times, having adequate freeboard to avoid any overtopping, preventing overland flow, ensuring all equipment intended to control releases is functioning correctly at all times and backup systems or equipment are in place.</p>	Prior to the commencement of the use and to be maintained at all times
21.	<p>Provide a barrier around any production ponds used to cultivate Freshwater shrimp, Redclaw crayfish or Yabby to prevent the overland release from the approved aquaculture area.</p>	Prior to the commencement of the use and to be maintained at all times
22.	<p>Install screening on all points of water release or discharge from within the approved aquaculture area to prevent the escape of any aquaculture fisheries resources (eggs, juveniles or adults) into Queensland waters (as defined in the <i>Acts Interpretation Act 1954</i>).</p>	Prior to the commencement of the use and to be maintained at all times
23.	<p>Install screening on all intake waters to prevent the movement of any juvenile or adult wild fauna (excepting zooplankton) into the approved aquaculture area.</p>	Prior to the commencement of the use and to be maintained at all times
24.	<p>Ponds, tanks and containers used to cultivate indigenous aquaculture fisheries resources are constructed with the lowest point of the top of wall above Q100 flood level.</p>	Prior to the commencement of the use and to be maintained at all times
<b>Material change of use</b>		
<p><b>Schedule 10, Part 9, Division 4, Subdivision 2, Table 4, Item 1— State transport corridors or future State transport corridors</b> —The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of the <b>Department of Transport and Main Roads</b> 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 conditions:</p>		
25.	<p>Direct access is not permitted between Mossman-Daintree Road and the subject site.</p>	At all times



## Attachment 2—Advice to the applicant

General advice – Aquaculture	
1.	<p>Immediately report any unusual clinical signs or mortalities of any fisheries resources brought into Queensland, to the Queensland Boating and Fisheries Patrol. If directed, specimens must be forwarded to a veterinary laboratory.</p> <p><b>Note:</b> Information on reporting disease in aquaculture can be found at <a href="https://www.business.qld.gov.au/industry/fisheries/aquaculture/health-pests-and-diseases-of-aquaculture/managing-disease-in-aquaculture-farms/identifying-and-reporting-disease-in-aquaculture">https://www.business.qld.gov.au/industry/fisheries/aquaculture/health-pests-and-diseases-of-aquaculture/managing-disease-in-aquaculture-farms/identifying-and-reporting-disease-in-aquaculture</a></p>
2.	<p>This approval does not permit the harvest of broodstock and culture stock.</p> <p><b>Note:</b> Broodstock and/or culture stock may be purchased from the holder of an authority or licence that authorises the sale of the approved species. In Queensland, this includes from a commercial fisher holding an appropriate <i>Fisheries Act 1994</i> licence.</p> <p><b>Note:</b> Forms to apply for the collection of broodstock or culture stock for aquaculture under a <i>Fisheries Act 1994</i> General Fisheries Permit can be found at <a href="https://www.daf.qld.gov.au/fisheries/aquaculture/aquaculture-approvals">https://www.daf.qld.gov.au/fisheries/aquaculture/aquaculture-approvals</a></p> <p><b>Note:</b> Depending on the species sought and its location, additional permits may be required under other legislation, for example the <i>Environmental Protection and Biodiversity Conservation Act 1999</i>, the <i>Great Barrier Reef Marine Park Act 1975</i>, the <i>Nature Conservation Act 1992</i>.</p>
3.	<p>This approval does not provide any entitlement to access or harvest an aquaculture fisheries resource that becomes an unauthorised escape or release, including but not limited to:</p> <ul style="list-style-type: none"> <li>(a) animal(s) stocked within the approved aquaculture area that move outside the area; or</li> <li>(b) spawn or progeny of an aquaculture fisheries resource should such eggs, larvae, juveniles or adult progeny become distributed outside of the approved aquaculture area.</li> </ul> <p>The responsibility for any impact of unauthorized escapes or releases of aquaculture fisheries resources is with the operator. Additional permits may be required under the <i>Fisheries Act 1994</i> to authorise processes required to be readily available to effectively manage this risk.</p>

## **Attachment 3—Changed reasons for referral agency response**

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

### **The reasons for the department's decision are:**

- The department carried out an assessment of the development application against the relevant state codes and with conditions the proposal complies with the relevant performance outcomes.
- **The development application includes the existing aquaculture operation and the proposed aquaculture expansion area.**
- The proposed aquaculture expansion is to the existing aquaculture facility and cannot feasibly be located elsewhere.
- The proposed development:
  - o is located and designed to conserve coastal processes
  - o is designed, constructed and operated to avoid and mitigate impacts on the wetland protection area environmental values
  - o is located and designed to avoid and mitigate environmental harm on the environmental values of the natural environment
  - o maintains the extent, distribution, diversity and condition of marine plant communities and protects the ecological function to which they contribute
  - o appropriately carries out the use of fisheries and aquaculture fisheries resources
  - o meets standards in the prevention, control and eradication of disease in fish
  - o suitably contains aquaculture fisheries resources to prevent escape and release
  - o meets the relevant standards for aquaculture
  - o minimises and mitigates impacts on the matters of environmental significance and does not result in a significant residual impact; and
  - o does not impact on the safety, efficiency or operation of the state-controlled road.

### **Material used in the assessment of the application:**

- The development application material and submitted plans
- Information request response
- Change to application on 21 May 2019
- *Planning Act 2016*
- Planning Regulation 2017
- The State Development Assessment Provisions (version 2.4) as published by the department
- The Development Assessment Rules
- SARA DA Mapping system
- State Planning Policy mapping system

## **Attachment 4—Change representation provisions**

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## **Attachment 5—Approved plans and specifications**

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# Development Assessment Rules—Representations about a referral agency response (concurrency)

The following provisions are those set out in sections 28 and 30 of the *Development Assessment Rules*<sup>1</sup> regarding **representations about a referral agency response (concurrency)**.

## Part 6: Changes to the application and referral agency responses and Part 7: Miscellaneous

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### 28 Concurrency agency changes its response or gives a late response

- 28.1. Despite part 2, a concurrency 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 concurrency 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 concurrency 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.<sup>2</sup>
- 28.3. A concurrency 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 concurrency agency proposes to change its referral agency response under section 28.2(a), the concurrency 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 concurrency agency has 10 days from the day of giving notice under paragraph (a), or a further period agreed between the applicant and the concurrency agency, to give an amended referral agency response to the assessment manager and a copy to the applicant.

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<sup>1</sup> Pursuant to Section 68 of the *Planning Act 2016*

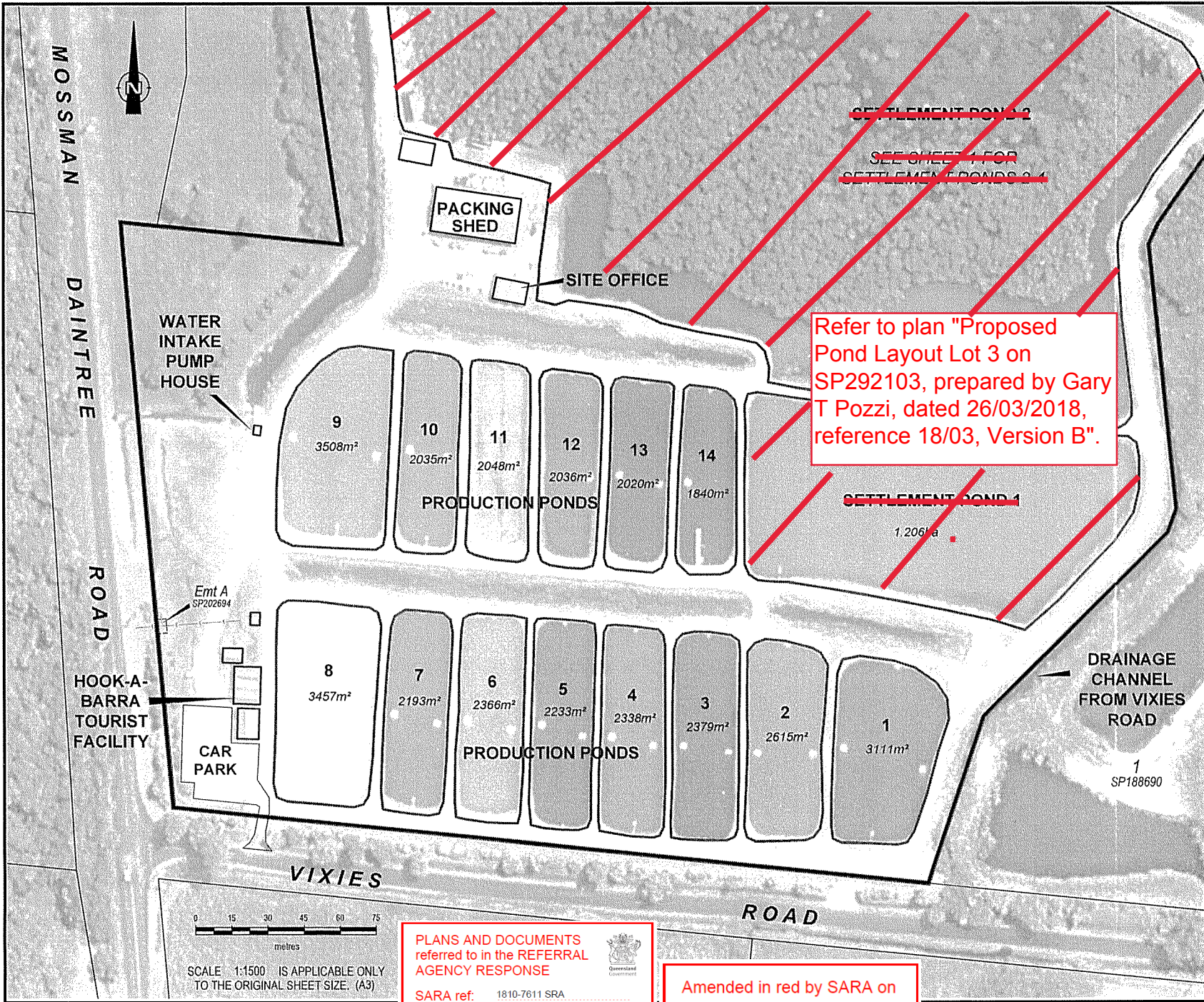
<sup>2</sup> In the instance an applicant has made representations to the concurrency agency under section 30, and the concurrency agency agrees to make the change included in the representations, section 28.2(c) is taken to have been satisfied.

## **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.<sup>3</sup>

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<sup>3</sup> 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.



**IMPORTANT NOTE**  
 This plan was prepared as a concept plan only and accuracy of all aspects of the plan have not been verified. All lots, areas and dimensions are approximate only. Subject to relevant studies, Survey, Engineering and Government approvals.  
 No reliance should be placed on the plan and RPS Australia East Pty Ltd accepts no responsibility for any loss or damage suffered howsoever arising to any person who may use or rely on this plan.

Detail survey data shown has been compiled from various surveys from 2000 to 2005.

**AERIAL IMAGERY.**  
 © Google Earth 2015  
 © 2015 CNES/Asstrum  
 Date of Capture: 2-5-2014

PRODUCTION POND	AREA
1	3111m <sup>2</sup>
2	2615m <sup>2</sup>
3	2379m <sup>2</sup>
4	2338m <sup>2</sup>
5	2233m <sup>2</sup>
6	2366m <sup>2</sup>
7	2193m <sup>2</sup>
8	3457m <sup>2</sup>
9	3508m <sup>2</sup>
10	2035m <sup>2</sup>
11	2048m <sup>2</sup>
12	2036m <sup>2</sup>
13	2020m <sup>2</sup>
14	1840m <sup>2</sup>
<b>TOTAL</b>	<b>34179m<sup>2</sup></b>

Pond areas calculated at top of batter.

Refer to plan "Proposed Pond Layout Lot 3 on SP292103, prepared by Gary T Pozzi, dated 26/03/2018, reference 18/03, Version B".

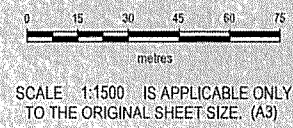
PROJECT MANAGER O. Caddick-King	SURVEYED 2000-2005
COMPLETED AMK	CAD REF 9338-8.DWG
SHEET SIZE A3	SHEET OF SHEETS 1 / 1

**RPS**  
 RPS Australia East Pty Ltd  
 ACN 140 292 762  
 135 Abbott St  
 PO Box 1949  
 CAIRNS QLD 4870  
 T +61 7 4031 1336  
 F +61 7 4031 2942  
 W rpsgroup.com.au

**DAINTREE SALTWATER BARRAMUNDI FISH FARMS PTY LTD**

**SITE PLAN  
 SHEET 2 OF 2  
 LOT 3 SP150448  
 WONGA BEACH**

SCALE <b>1:1500</b>	DATE 27/1/2015	DRAWING NO. <b>9338-9</b>	ISSUE
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**PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE**  
 SARA ref: 1810-7611 SRA  
 Date: 28 May 2019

Amended in red by SARA on 28 May 2019

Earthworks (Hatched Area)  
 (No Allowance for compaction and /or settlement)  
 Net Volume 98720 cub m  
 99140 cub m fill  
 420 cub m cut

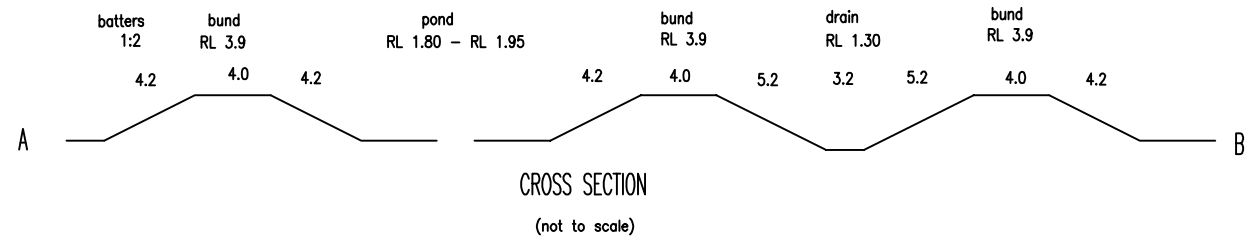


DIAGRAM  
 SCALE 1:1000 (A1)  
 SCALE 1:2000 (A3)

Riprap / Geotech Fabric Protection on Bund walls

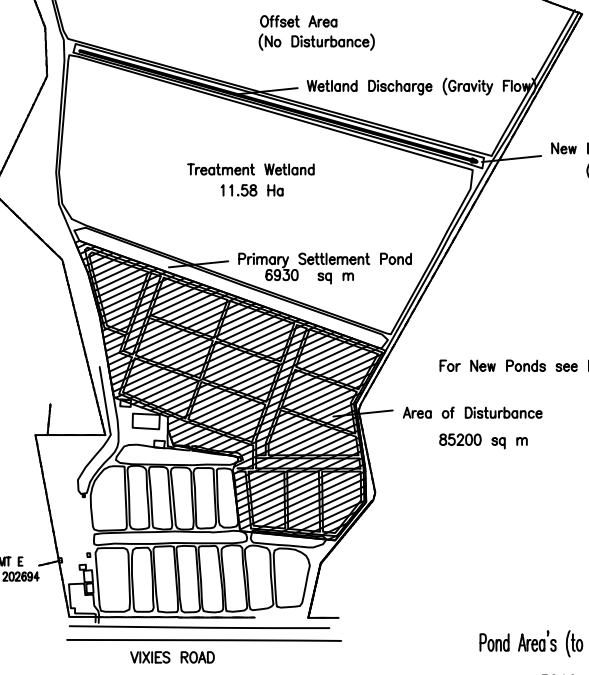
2  
 RP 744082

1  
 SP 292103

278  
 SP 292103

MOSSMAN DAINTREE ROAD

VIXIES ROAD



	Pond Area's (to RL 3.4)	Pond Volumes (to RL 3.4)
15	3010 sq m	4065 cub m
16	3015 sq m	4060 cub m
17	3135 sq m	4225 cub m
18	4500 sq m	6150 cub m
19	4470 sq m	6135 cub m
20	4540 sq m	6255 cub m
21	4445 sq m	6110 cub m
22	4405 sq m	6075 cub m
23	4405 sq m	6075 cub m
24	4195 sq m	5765 cub m
25	4405 sq m	6075 cub m
26	4445 sq m	6110 cub m
27	4255 sq m	5780 cub m

LOCATION PLAN  
 SCALE 1:5000 (A1)  
 SCALE 1:10000 (A3)

Any problems associated with the electronic data contained on this disk should be reported to:  
 GARY POZZI - Cadastral Surveyor  
 PO Box 152  
 Trinity Beach, Queensland 4879  
 Ph: 0740 577 177 Mob: 0408 772 213  
 Fax: 0740 577 089 Email: gpozzi@bigpond.net.au

**ELECTRONIC TRANSFER FILES**  
 The electronic data supplied via this modern/diskette transfer is a copy of the drawing file held in the office of G.T. Pozzi - Cadastral Surveyor at the time and date of transfer.  
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**PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE**

SARA ref: 1810-7611 SRA

Date: 28 May 2019

The title boundaries as shown hereon were not marked at the time of survey and have been determined by plan dimensions only and not by field survey. Services shown hereon have been located where possible by field survey. If not able to be located, services have been plotted from relevant authority records and have been noted accordingly on this plan. Prior to any demolition, excavation or construction on this site, the relevant authority should be contacted for possible location of further underground services and detailed locations of all services.

REVISIONS			CALCULATED	DATE	FILE REFERENCE	TITLE	PARISH	associated consultants	SCALE	see plan
NO.	DETAIL	DATE INIT.	SURVEYOR	DATE	180340 sheet 1 ver B .dwg volume files 32 84	Proposed Pond Layout Lot 3 on SP 292103	WHYANBEEL		AHD	
A	Initial version	18/11 AF			PLAN REFERENCE	MOSSMAN DAINTREE ROAD, WONGA BEACH	COUNTY SOLANDER		PSM 92800	
B	Pond and Drain Levels raised	26/3 AF	DRAWN ADLF	DATE JAN 18		project :	LOCAL AUTHORITY DOUGLAS S C		RL 3.489	
			SURVEY EXAMINED	DATE	FIELD BOOK REFERENCE	client : DAINTREE SALTWATER BARRAMUNDI FISH FARMS P/L			AZIMUTH CO-ORD ORIGIN	
			PLAN EXAMINED G E Hopkins	DATE JAN 18	APPROVED				DWG	SHEET VER
NOTE : BEARINGS, DISTANCES AND AREAS ARE / ARE NOT SUBJECT TO SURVEY									18/03	11 B

Gary T. Pozzi  
 Cadastral Surveyor

P O Box 152  
 Trinity Beach 4879  
 11 Kavieng Street  
 Trinity Beach.

Phone: 0740 577 177  
 Mobile 0408 772 213  
 Fax: 0740 577 089  
 Email: gpozzi@bigpond.net.au





### Legend

Low significance marine plants  
(no connection or potential connection with tidal environment)

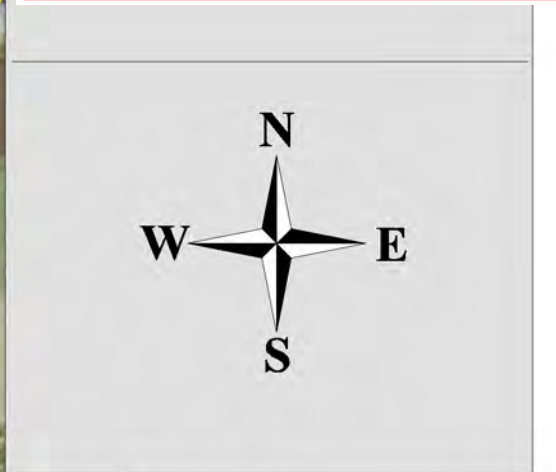
	Very high density marine plants: 60-80 stems/100 sq m Total Area: 3,372 sq m
	High density marine plants: 40-60 stems/100 sq m Total Area: 10,485 sq m
	Moderate density marine plants: 20-40 stems/100 sq m Total Area: 23,609 sq m
	Low density marine plants: Primarily open water 0-10 stems/100 sq m Total Area: 13,405 sq m
	Open water Occasional stems

- Works area Settlement Pond 2
- Cadastre boundaries

**PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE**

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30 0 30 60 90  
Metres

Scale: 1:1,500 Datum: MGA 94 zone 55

Data source: rectified aerial imagery  
Environment Pacific 2018  
Douglas Shire Council DCDB 2017

Drawn: Environment Pacific 2018



**FIGURE 1:  
Marine Plant Disturbance Areas  
Settlement Pond 2**

REV: B

Date: 18/02/2019



### Legend

High fisheries value significance marine plants (direct or seasonal connection with tidal environment)

- Individuals of mangrove fern (*Acrostichum aureum*)  
Between 5 - 7 plants depending on final works disturbance area
- Seedlings of milky mangrove (*Excoecaria agallocha*)  
Between 4 - 6 depending on final works disturbance area.

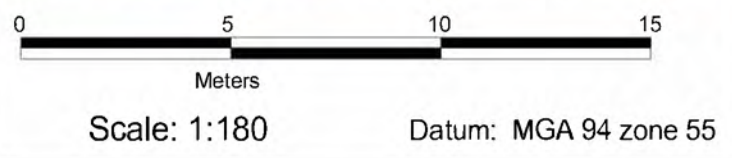
Total marine plant disturbance area <10sq m

- Drainage outlet works area
- N Cadastre boundaries

PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE

SARA ref: 1810-7611 SRA

Date: 28 May 2019



Data source: rectified aerial imagery  
Environment Pacific 2018  
Douglas Shire Council DCDB 2017  
Drawn: Environment Pacific 2019



**FIGURE 2:**  
**Marine Plant Disturbance**  
**Drainage Works Area**

**REV: B**  
Date: 18/02/2019



Works are proposed for the eastern end of the main tidal drain between settlement pond 3 and settlement pond 4. The internal drain and batters between settlement pond 3 and 4 are subject to maintenance and generally free of any mature vegetation. Seedlings of *Excoecaria agallocha* (tallest noted approximately 30cm high) have recruited into the maintained area of the internal drain within the general area of works (approximately 400m<sup>2</sup>). Between four to six seedlings will be affected by the works. *Acrostichum aureum* is ubiquitous across the entire development area, and small examples have become established in the maintained internal drain between settlement pond 3 and 4, and on the outside of the road batter within the tidal external drain. Between five to seven immature plants will be disturbed depending on extent of drainage works. This work location is directly connected to tidal lands, and the marine plants present are classed as high fisheries significant plants under *FHMOP 001 (2007)*.

All these individuals are small/juveniles, and may be easily relocated through simply digging out manually with a shovel and relocating immediately into the same drainage line upstream or downstream of the drainage works area. Relocation in this manner and location will meet all FMHOP 001 (2007) guidelines relevant to the relocation of marine plants (refer Appendix 2 of the FMHOP 001).

## 2.3 Item 3 - Tidal and Fisheries Connectivity

### Information Request

Opening an old bund to restore tidal connectivity is offered within supporting information to mitigate impacts to marine plants. No detailed information is provided on how the bund is to be removed and tidal fish habitats restored. If this is proposed as a mitigation strategy additional information is requested.

### Information requested

- a. Provide a response to State code 11, PO29 and PO30 and include detailed information on:
  - i. How the restoration is to occur, and
  - ii. What total benefits to fisheries productivity will result.
- b. Include any marine plant disturbance required to gain access to the bund in the total area of marine plant disturbance (refer item 3.1).

### 2.3.1 Rehabilitation in Pond 4

Settlement pond 4 occupies an area of approximately 16.5 ha, with a surveyed area of 9.38 ha being within the bunded section most of which is isolated from tidal connectivity owing to an old bund. This bund runs along either side drain and also across the pond in a generally South-east to north-west direction.

The proposal is to open up the bund to restore connectivity and hence fisheries habitat values. This is proposed to offset the marine plant disturbance in Pond 2 and the outlet works.

It is proposed to minimise any disturbance to marine plants in the process of opening the bund by using hand tools to dig away the bund back to surrounding ground surface level in initially six to ten locations. Along the bund there are clearly lower areas with past tidal flow and these will be opened up. Any marine plant seedling by way of the area to be opened will be translocated. The opening may disturb roots of adjacent trees, but will be done to ensure that the root system of each mangrove tree remains essentially intact, without threat to the viability of the individual. Each opening will be about 1–2m wide with material removed placed back onto the adjoining bund or, if practical without causing further disturbance removed from the bund area.

PLANS AND DOCUMENTS  
referred to in the REFERRAL  
AGENCY RESPONSE



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## Daintree Saltwater Barramundi Response to SARA Information Request

Succession and recruitment south of the bund wall has been strongly influenced by breaches in the bund wall (through natural erosion via root penetration and water flow) allowing tidal water to influence the otherwise arrested successional state of the vegetation south of the bund wall. With increasing saline influences on the surrounding communities, recruitment is expected to reflect the species composition and general complexity of South Arm Creek immediately north of the bund wall, albeit with a higher number of mangrove species typically associated with upper freshwater influenced areas. and successional processes. In areas where the bund wall has already some breaches there are mangroves include *Lumnitzera racemosa* (tallest examples of these species in all surveyed areas) with large examples of *Excoecaria agallocha*. The understorey and subcanopy are expected to host recruiting mangrove species typically found in more tidal areas: *Brugiera* spp, *Rhizophora* spp, *Xylocarpus* spp, and *Aegialitis annulata*.

With additional openings along the bund wall and increasing tidal influence it is expected that this community will continue to be replaced by a more complex mangrove community (similar to the north side of the bund wall).

After the initial works an assessment will be made during spring/and king tides to review the flow and identify any further areas which are desirable to open. It is expected that sesamid crab activity and fisheries productivity will be re-established within a few years in the lower lying areas and over a longer period in the rest of the area.

See Appendix 6 for the 2017 Marine Plant survey which sets out in more detail the conditions within the previously bunded area.

PLANS AND DOCUMENTS  
referred to in the REFERRAL  
AGENCY RESPONSE

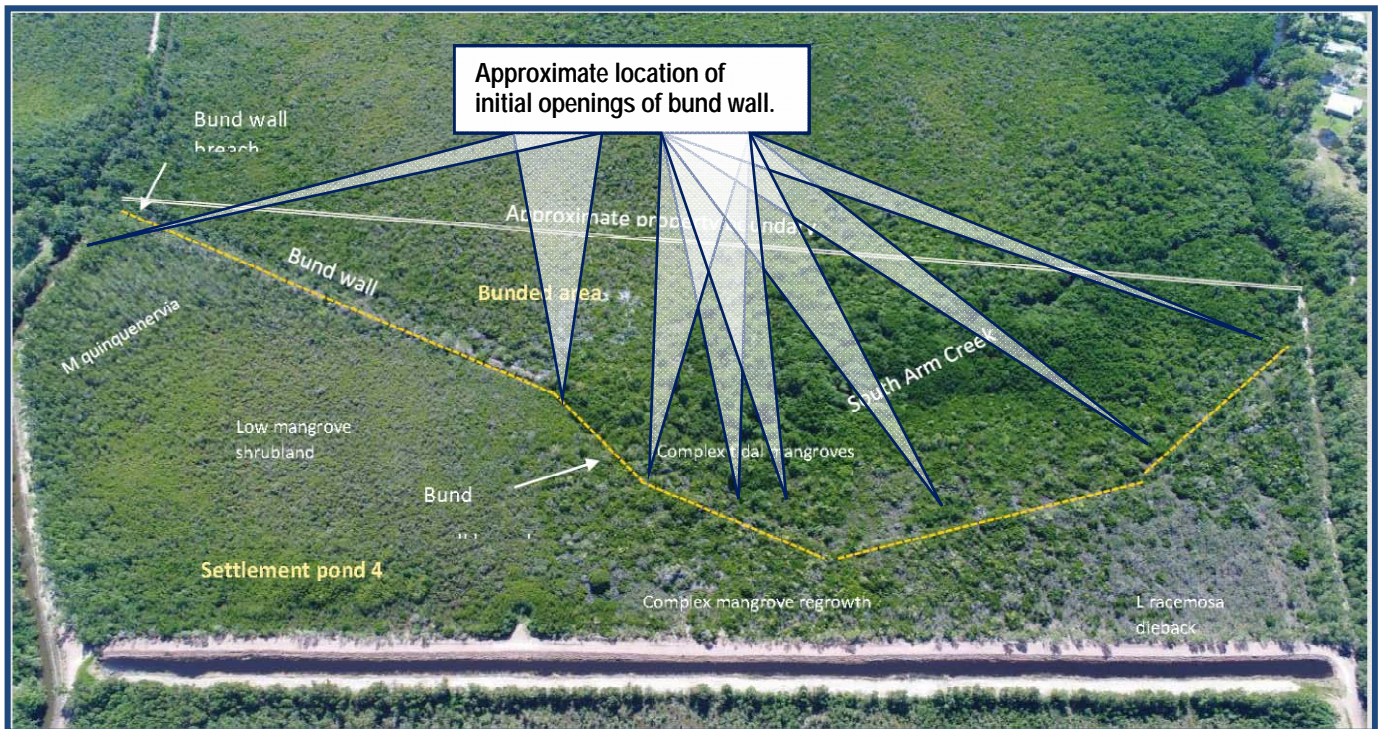


SARA ref: 1810-7611 SRA

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Figure 1: Re-establishment of Fish Habitat Connectivity in Settlement Pond 4



From: Small, A (2017) Marine Plant and Fisheries values Assessment Report (see Appendix 6).

**Fisheries Productivity**

The net result of this will be a over 16.5 ha of Lot 3 which is essentially natural habitat with thriving fisheries values. This will contribute an additional 9 ha of fisheries habitat and productivity to the South Arm of the Daintree River.

**Disturbance**

To avoid any doubt, disturbance will be minimised by only "on-foot" access along the bund, use of hand tools to dig away the bund in select locations and removal of the excess material, or placement on adjoining areas of the bund. Any seedling by way of the areas of bund to be disturbed will be translocated, they can be placed on the bund wall opening channel banks as immediate revegetation.

**2.3.2 State Code 11**

Please see a revised response to State Code 11 at Attachment 5.

<p><b>PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE</b></p>		
SARA ref:	1810-7611 SRA .....	
Date:	28 May 2019 .....	