

**REFERENCE : Planning Panels Victoria - Directions Hearing - Directions Letter 28<sup>th</sup> March 2018.**

**Item 1(k).**

***“To provide an Emergency Management Plan that addresses risk of access to and egress from the site in the event of Flooding on Barham River Road and includes a response to the concerns of the Corangamite Catchment Authority regarding flood impact as detailed in the Corangamite CMA letter dated 19<sup>th</sup> March 2018.”***

It should be noted from this report that no Barham Valley catchment based flood Study has ever been carried out. We attach a plan of the Barham Valley Catchment indicating that the area of the catchment is approximately 87.5 square kilometres. Barham River Road has flooded twice (2) times in the past 18 years to a depth of up to 1.1 metres at an average velocity of 0.9 metres per second. Residents on Barham River Road attest that the maximum period of flooding over the past 18 years has been 12 hours. The length of the Barham River Road that may flood above .5 metres is one section of 350 metres and another of 200 metres. The CCMA calculate that the duration of flooding may last 1 day.

In the case of the 1:100 year flood, we repeat the only evidence available, which is anecdotal from the current owner as CCMA apparently do not have any records –

*“ In the 17 years we have lived at 275 Barham River Rd the river has flooded twice to the extent we have not been able to travel to Apollo Bay, once for about 5 hours and another for 8. Since a willow removal program (CCMA) about 8 years ago there has not been any flooding in my recollection. About 800 meters of river bed was cleared.”*

The Floor Levels of all proposed Resort Buildings vary from 60 to 85 metres above the flood levels described so that only access to and egress from the site along Barham River Road may be an issue.

The initial Planning Application included a preferred option to construct a new road directly from the site to the Great Ocean Road adjacent to the Apollo Bay Airstrip. This new road would be in lieu of upgrading Barham River Road.

This preferred option was discussed as an item of enabling infrastructure with Regional Development Victoria.

A further Option is to reopen the centre section of the Old Hordern Vale Road, classified by the Colac Otway Shire as a Public Road providing access to properties and running between Barham River Road and The Great Ocean Road. The Old Hordern Vale Road is a Public Road and proclaimed as such on the 1<sup>st</sup> July 2004. Since that time the road has only partially been used for access to property and the overgrown section can readily be cleared and maintained as an emergency access to and egress from the Site. It has a measured width of 4.8 metres.

Irrespective of any other options we are prepared to meet the cost of clearing and maintaining Old Hordern Vale Road as emergency access/egress when Barham River Road is in flood.

As a Tourism attraction we propose to provide an amphibious tourist vehicle for the purposes of tours across the bay. The vehicle would be fitted with underwater cameras to view the wide variety

of marine life including, whales, seals, sharks and reef areas. This vehicle can be suitably adapted if necessary as an emergency vehicle to navigate flood waters through road marker poles as a further measure to maintain safe access/egress. This vehicle would be available to suitably trained State Emergency Services personnel to be used as a rescue vehicle in other area of the Barham River catchment area.

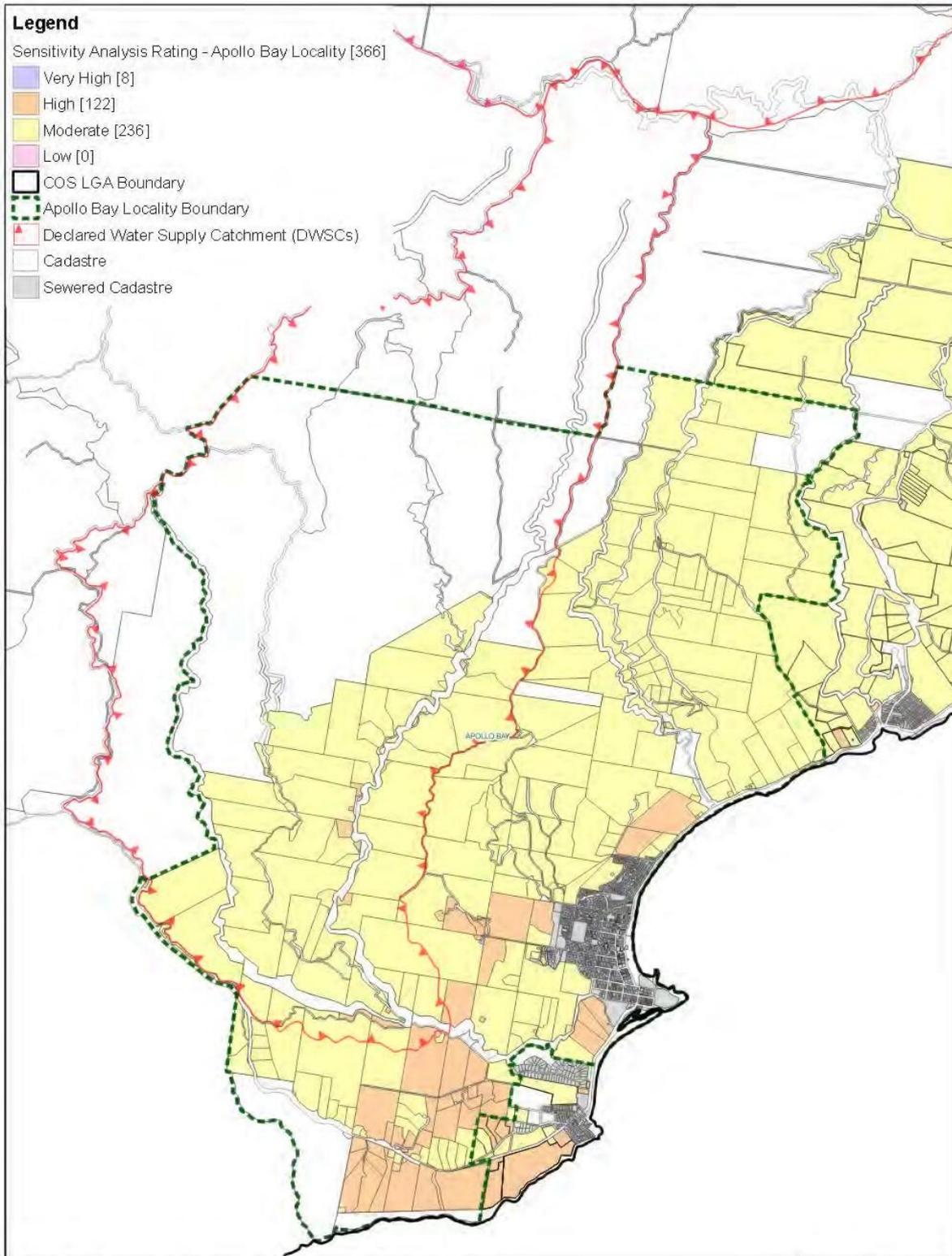
We agree that in the event of flood warnings being issued or becoming obvious at any time that we will work closely with the emergency authorities to provide an emergency warning system for our staff and guests and to install appropriate boom gates to ensure no public access to flooded areas.

The details of the operation of this early warning system and the implementation of our designated emergency access/egress option will be developed with State Emergency services as required and as a condition of the Planning Permit.

In addition, and as a normal feature of our five-star accommodation we will provide helicopter transfers for our guests to the Apollo Bay Airport. In the case of flooding of Barham River Road, we will designate, construct and maintain an emergency Helipad on the site well above flood levels.

All of our Emergency flood options will be available to members of the community disadvantaged by flooding to Barham River Road in cooperation with the SES "Local Flood Guide- Apollo Bay".

We will of course, develop an emergency evacuation and safety plan and would expect to receive a Conditional Consent from CCMA similar to point 4 in the CFA Conditional Consent dated 3 August 2017. ...."an Emergency Management plan in line with AS 3745." A final plan will be submitted when we engage the Hotel Operator.

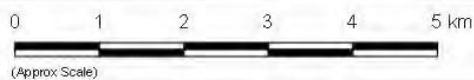


**Figure b1: Sensitivity Analysis - Apollo Bay Locality**

Colac Otway Shire DWMP Review



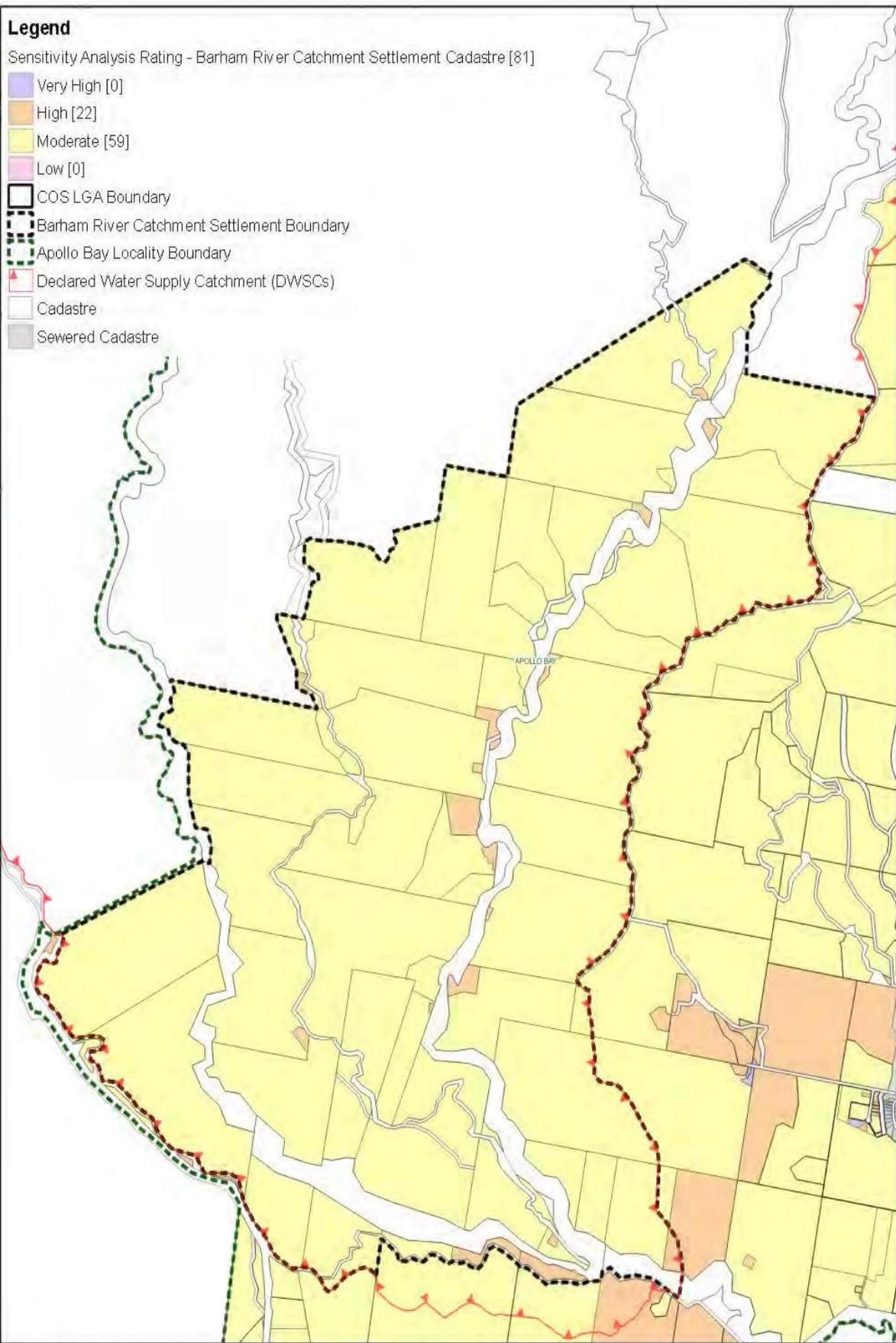
**W Whitehead & Associates**  
Environmental Consultants



Revision	3
Drawn	JK
Approved	MS

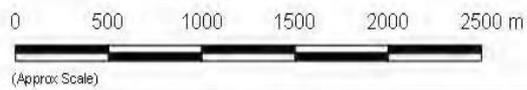
Whitehead and Associates Environmental Consultants

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**Figure b2: Sensitivity Analysis - Barham River Catchment Settlement**

Colac Otway Shire DWMP Review



Revision	4
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Approved	MS