

Subject: FW: Mark O'Brien - Esperance Jetty info - supporting information for Jetty Petition.

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From: **Brad Bell** <bradbelle@hwassociates.com.au>

Date: Mon, 24 Jan 2022 at 15:10

Subject: RE: Esperance Jetty info

To: Mark O'Brien <mobby37@gmail.com>

Hi Mark,

Following your email and our discussion yesterday I have reviewed the estimate and attach a revised estimate that reflects a jetty 550 m long plus also takes into consideration the lower water depths between the Groynes, this hopefully would reduce the length of piling. This is all subject to engineering and design work.

If I use the estimated construction costs only, \$9,568,000 and divide by 550 m this would give a rate of \$17,396/m of jetty.

For comparison I have found a table of other jetty costs and these are as follows:

Esperance Tanker Jetty Reconstruction, 400 long and \$17,000/m of jetty

Broome Town jetty, 110 long and \$48,182/m of jetty

Monkey Mia, 55m and \$72,727/m of jetty

Point Samson Fishing Jetty, 150m and \$54,000/m of Jetty

The lower rates for Esperance I understand are due to economies of scale in overall jetty length, no exposure to cyclones and a much lower deck height.

I believe Geraldton should be similar, however is it correct to assume no exposure to cyclones? There will be issues such as tides, water levels, etc but this will be subject to future engineering.

I have been speaking to an Architect, Julie De Jong from H+H Architects in Albany. Julie did the Esperance project and is currently involved with the Carnarvon Jetty project and also Point Samson. Julie has a very good understanding of jetty design and I am sure she would be happy to provide you with any assistance you may require, whether at this stage or going forward. Julie's office number is 9842 5558.

I hope this helps and is bit more inline with something we can make work.

Regards,

Brad



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From: Mark O'Brien <mobby37@gmail.com>
Sent: Sunday, 23 January 2022 3:18 PM
To: Brad Bell <bradbelle@hwassociates.com.au>
Subject: Re: Esperance Jetty info

Hi Brad,

Many thanks for your email and your work, the actual design of the jetty will be 200m from groyne to groyne. But the perpendicular part heading west to be a length of 350-400m. Instead of a staircase going down to the water, we were looking at a ramp style, so that the disabled would also be able to utilise it.

Looking at that estimated pricing, I'm now worried about the possible implications regarding funding. What has Melissa said regarding those figures mate? Because Esperance's build cost was 7.5m, I was hoping to come in at between 10 and 12m. I really would hate to let the town down.

Many thanks and kind regards

Mark O'Brien.

On Sun, 23 Jan 2022 at 14:23, Brad Bell <bradbelle@hwassociates.com.au> wrote:

Hi Mark,

I have reviewed our Esperance jetty cost estimates and some recent work we have done at Point Samson for the City of Karratha. I have applied these costs to what I understand to be the proposed scope of work at Geraldton.

Attached is an Opinion of Probable cost estimate for the Geraldton Jetty.

Please note the following, the estimate is based upon:

- I have assumed a T shaped jetty, 200 m between the existing groynes and then 200 m out to sea.
- Width is 4.6m the same as Esperance
- Jetty construction is basically based upon steel piles, precast concrete decking
- Balustrades each side of jetty
- A Lower fishing platform at one point on the jetty with staircase access
- A number of ladders for access
- A fish cleaning facility
- Water points for cleaning
- Solar lighting
- Design contingency allowed for at 5% for development of the design
- Construction contingency 5% for unknowns that arise during the construction process
- An allowance for Authority permits, approvals, etc
- Professional fees for design and engineering
- Escalation of costs based a 2 year period for approvals, design and tendering

I hope this is of assistance as a guide only and an indication of costs. All subject to many factors but hopefully is a starting point.

Please let me know if any questions or you wish to discuss.

Regards,

Brad



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From: Mark O'Brien <mobby37@gmail.com>
Sent: Tuesday, 18 January 2022 1:58 PM
To: Brad Bell <bradbells@hwassociates.com.au>
Subject: Fwd: Esperance Jetty info

----- Forwarded message -----

From: **Mark O'Brien** <mobby37@gmail.com>
Date: Sat, 15 Jan 2022 at 12:48
Subject: Esperance Jetty info
To: <bradbells@hwassociates.com>

Hi Brad,

Great to see you again, please find attached that info I was talking about.

Hope you find it useful. Please let me know that you received ok.

Cheers mate.

Mark O'Brien 0447000896

[https://www.esperance.wa.gov.au/sites/default/files/publication/files/shire_of_esperance - esperance jetty - as built drawings - 2021.pdf](https://www.esperance.wa.gov.au/sites/default/files/publication/files/shire_of_esperance_-_esperance_jetty_-_as_built_drawings_-_2021.pdf)

[https://www.esperance.wa.gov.au/sites/default/files/publication/files/tanker_jetty - heritage council - final.pdf#:~:text=Option%204%20%E2%80%93%20Permanently%20close%20and,cost%20of%20%2410%2C000%2C000%20including%20demolition.](https://www.esperance.wa.gov.au/sites/default/files/publication/files/tanker_jetty_-_heritage_council_-_final.pdf#:~:text=Option%204%20%E2%80%93%20Permanently%20close%20and,cost%20of%20%2410%2C000%2C000%20including%20demolition.)

https://www.esperance.wa.gov.au/sites/default/files/publication/files/20190430_jetty_stakeholder_presentation.pdf

https://www.esperance.wa.gov.au/sites/default/files/publication/files/shire_of_esperance_-_esperance_jetty_-_as_built_drawings_-_2021.pdf

https://www.esperance.wa.gov.au/sites/default/files/publication/files/draft_concept_design_report_27.8.2018_re_v1_00000002.pdf