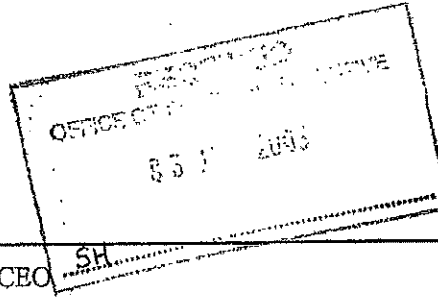


MEMORANDUM



City Design

TO: Jude Munro - CEO

CC: [REDACTED] DMO

FROM: Mary Shortland - MCD DATE: 2 July 2003

SUBJECT: Green Bank and River Walk

Level 3, T.C. Beirne Centre
315 Brunswick Street Mall
Fortitude Valley Qld 4006

Locked Mail Bag 6996
Albion Qld 4010

Ph: 07 3403 3849
Fax: 07 3403 0551

Dear Jude,

I refer to your request for information regarding the flood design parameters that were used for the proposed Green Bridge and the river floating walkway, now under construction. I will discuss each in turn:

Green Bridge.

The piers for the proposed Green Bridge are designed to withstand a Q2000 year event. The estimate for this flow was based on a SKM study undertaken for Ipswich City Council that included a Q2000 estimate of 12000 m³/s. At the time of design, it was understood that this was the only estimate readily available. The Ipswich City Council study is similar to the City Design 1999 study.

The level at which the bridge is set is based on road design and navigational clearances and well above any flood design level.

The proposed bridge was also checked to ensure that it had sufficient waterway so that floodwaters would not be backed up upstream. A flow rate of 8000 m³/s was used to check this. It was found adequate and the available waterway area did not need to be widened.

*get
Park
Office &
Dutton Park?*

In summary, the piers of the proposed Green Bridge were designed to withstand a Q2000 flood. The magnitude of this event was based on a readily available estimate from the Ipswich City Council report. All other flood design parameters has no material influence on the bridge structure.

River Walk

The strength of the river walk pontoons is designed to withstand a flood of 6570 m³/s. A factor of safety of 1.5 was also used.

The level of the top of the piles or piers was based on a flood of 6570 m³/s and a safety factor of a 1 metre was added to this level.

In summary, the River Walk was designed to the 1984 Q100 using appropriate safety factors.

QFCI

Date:

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1008

Jm

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Exhibit Number:

Please do not hesitate to contact me on extension 30465, should you require further clarification of the flood design parameters adopted for these projects.

Yours faithfully



Mary Shortland
Manager