

Posted		
Faxed		
Emailed	Х	ray@rfarch.com.au
Courier		
By Hand		
Contact:		Stanley Leung
Our Ref:		P1605714JC02V02
Pages:		1
CC.		

31 August 2017

Ray Fitz-Gibbon & Associates Pty Ltd Attn: Ray Fitz-Gibbon By email

Dear Ray,

DRAINAGE ASSESSMENT - 32 AND 33 CLIFF STREET, WATSON BAY, NSW (REVISED EXHIBITION DRAFT)

We provide comments below in response to Council's comments dated 22 February 2017.

Council's comment	Marten's Response
Should stormwater drain off the site onto Council's Public Domain then a Stormwater Management Plan for the development is required. The Stormwater Management Plan must be in accordance with Woollahra DCP Chapter E2 – Stormwater Flood Risk Management	Only building to be extensively renovated is the Armory (Building C on the location plan). The footprint proposed is on a very minor increase on what exists. No proposal to alter the external envelope or drainage systems to any of the other buildings. Existing site stormwater infrastructures and discharge system are to be retained.
Council's Drainage Engineer has made the following comment with regards to Constables Cottage which may be impacted by Coastal events:	The existing floor level of the Constables Cottage is 5.39 mAHD based on the survey plans prepared by YSCO Geomatics which will be above the FPL – 3.89Mahd advised by council, therefore there will be no specific requirements for flood compactable materials to be used.
 The coastal impact Flood Planning Level (FPL) for structures is 3.89m AHD 	
To protect the buildings, flood compatible materials are to be used for all new construction below the Flood Planning Level (FPL).	

If you require any further information, please do not hesitate to contact the undersigned.

For and on behalf of

MARTENS & ASSOCIATES PTY LTD

STANLEY LEUNG BEng(Hons), MIEAust, CPEng, NPER Project Manager / Senior Engineer

DISCLAIMER

This report was prepared by Gap Bluff Hospitality in good faith exercising all due care and attention, but no representation or warranty, express or implied, is made as to the relevance, accuracy, completeness or fitness for purpose of this document in respect of any particular user's circumstances. Users of this document should satisfy themselves concerning its application to, and where necessary seek expert advice in respect of, their situation. The views expressed within are not necessarily the views of the Office of Environment and Heritage (OEH) and may not represent OEH policy.

© Copyright State of NSW and the Office of Environment and Heritage

World Class Sustainable Engineering Solutions

Environmental FIS & RFF

Streams & rivers Coastal Groundwater Catchments Bushfire Monitoring

Geotechnics
Foundations
Geotechnical survey
Contamination
Hydrogeology
Mining
Terrain analysis
Waste management

Water Supply & storage

Flooding Stormwater & drainage Wetlands Water quality Irrigation Water sensitive design

Wastewater

Re-use

Design

Treatment Biosolids Management Monitoring Construction

Farthworks Excavations Pipelines Roads Pavements Parking Structures

Civil

Head Office

Unit 6 / 37 Leighton Place Hornsby NSW 2077, Australia **Ph** 02 9476 9999 **Fax** 02 9476 8767

> mail@martens.com.au www.martens.com.au MARTENS & ASSOCIATES P/L ABN 85 070 240 890 ACN 070 240 890