

Appendix 14

WMA Water Flood Advice

City of Canada Bay Council
15-17 Regatta Road
FIVE DOCK NSW 2046

C:\Users\rwdew\Desktop\Work\Report_TimbrellPk_3June25.docx

3 June 2025

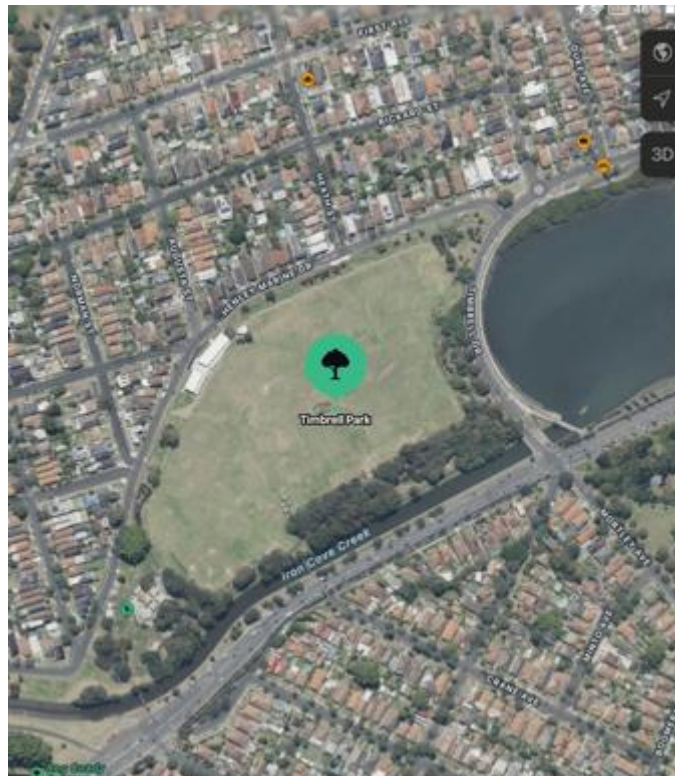
Attention: Mr Ron Pidcock
Coordinator, Projects

Dear Ron,

Re: Proposed Earthworks Timbrell Park
Review of Potential Flood Impacts on Surrounding Property

1 Introduction

The City of Canada Bay are proposing to undertake “cut and fill earthworks “ (i.e the fill is taken from the cut areas with no importation of fill) on the Timbrell Park sports fields (refer Google aerial photograph below) to improve their performance.



Richard Dewar, Technical Director of WMAwater was engaged by Canada Bay Council to provide a review of the attached drawing regarding the potential impacts on flooding (i.e will the works affect flood levels outside the boundary of Timbrell Park) emanating from the adjacent Iron Cove Creek. The scope did not include a review of the stormwater drainage system. Richard Dewar has 40+ years of experience in floodplain management across NSW.

WMAwater Pty Ltd

DIRECTORS

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2 Review of the Proposed Earthworks

The attached earthworks plan indicates that the volume of fill (2,569 m³) is less than volume of cut (2,602 m³) with 33m³ of material is removed from the site. The works generally change the existing surface by a maximum of +/- 0.2m and thus would not significantly impact on the conveyance of flood flows crossing the site.

Based on the existing temporary floodplain storage capacity of the site being retained (it is to be slightly increased) and the fill not being used to form a barrier to impede the conveyance of flow, the works will not significantly impact on flood levels in the surrounding properties.

Should you have any questions or require further clarification regarding the above please do not hesitate to contact the undersigned.

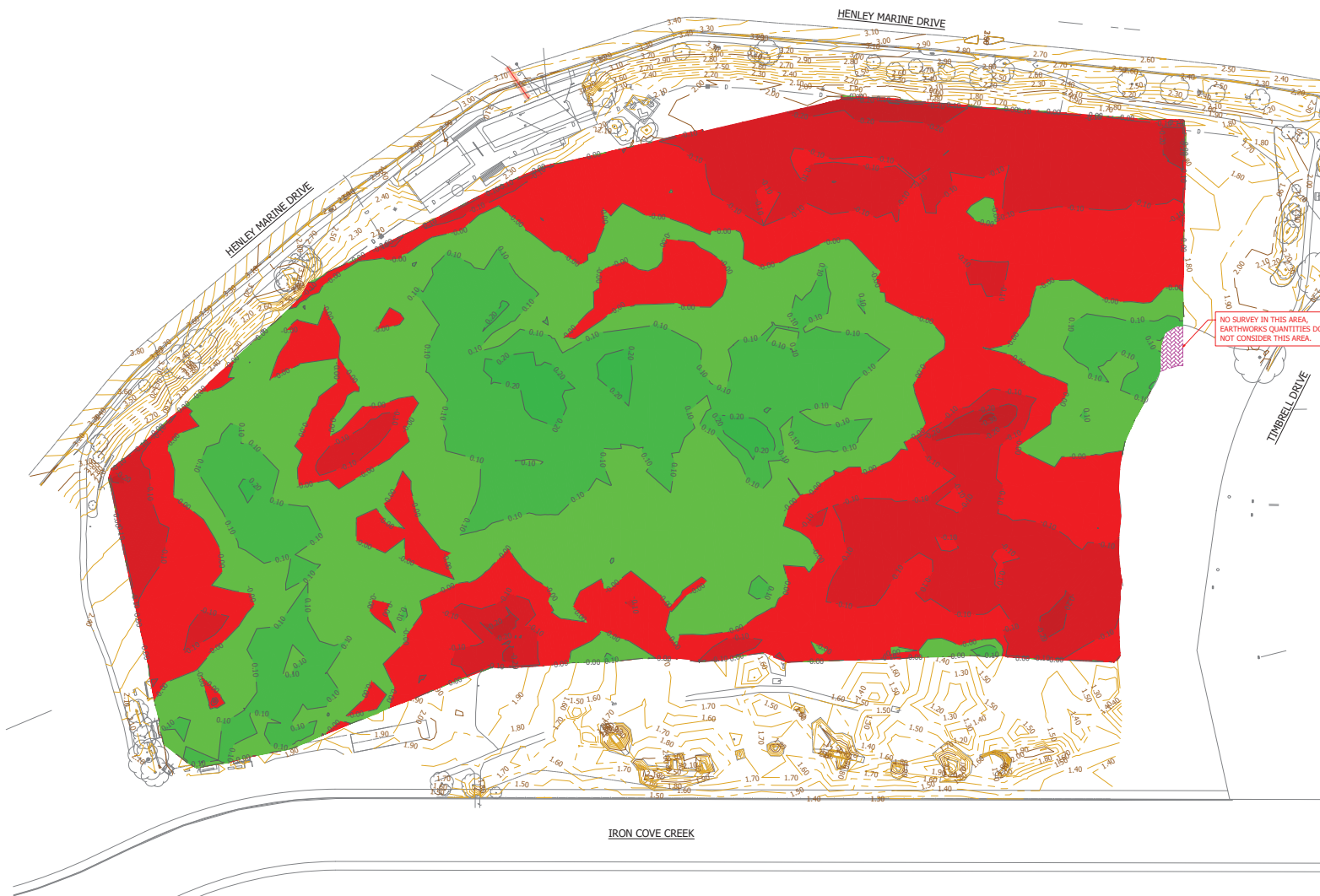
Yours Sincerely,

WMAwater

A handwritten signature in blue ink, appearing to read "R W Dewar", is placed over a light grey rectangular background.

R W Dewar

Technical Director



DEPTH RANGE TABLE			Colour
Lower_value	Upper_value		
-1.0	to -0.9	m	Dark Red
-0.9	to -0.8	m	
-0.8	to -0.7	m	Red
-0.7	to -0.6	m	
-0.6	to -0.5	m	Light Red
-0.5	to -0.4	m	
-0.4	to -0.3	m	Pink
-0.3	to -0.2	m	
-0.2	to -0.1	m	Light Pink
-0.1	to 0.0	m	

DEPTH RANGE TABLE			Colour
Lower_value	Upper_value		
0.0	to 0.1	m	Light Green
0.1	to 0.2	m	
0.2	to 0.3	m	Green
0.3	to 0.4	m	
0.4	to 0.5	m	Dark Green
0.5	to 0.6	m	
0.6	to 0.7	m	Very Dark Green
0.7	to 0.8	m	
0.8	to 0.9	m	Black
0.9	to 1.0	m	

NOTES:

- FOR GENERAL NOTES REFER TO DRAWING SE_12085_F010.
- CONTRACTOR TO COMPLETE SITE CLEARING AND STRIPPING OF TOPSOIL PRIOR TO BULK EARTHWORKS. REFER TO DRAWING SE_12085_F100.
- PRIOR TO COMMENCING EXCAVATION, CONTRACTOR IS TO PROBE AND VERIFY ALL EXISTING SERVICES. ALL EXISTING SERVICES TO BE PROTECTED DURING WORKS.
- EARTHWORKS VOLUMES ARE INCLUDED FOR INFORMATION ONLY AND DO NOT FORM PART OF THE CONTRACT. VARIATIONS BETWEEN THE ESTIMATED VOLUMES AND ACTUAL BULK EARTHWORKS VOLUMES WILL NOT BE A VALID BASIS FOR VARIATION TO THE CONTRACT.
- EARTHWORKS VOLUMES REPRESENT AN OPINION ONLY OF THE MATERIAL VOLUME BETWEEN THE STRIPPED EXISTING SURFACE (I.E. AFTER CLEARING) AND THE DESIGN SUBGRADE LEVELS. REFER CUT/FILL DIAGRAM BELOW.
- ALL VOLUMES ARE UNBULKED.
- THE DESIGN SUBGRADE AS MODELLED IS AN APPROXIMATION OF THE SURFACE UPON WHICH THE PROPOSED PAVEMENT PROFILES ARE TO BE CONSTRUCTED. AS SUCH, EARTHWORKS VOLUMES DO NOT INCLUDE ALLOWANCES FOR:
 - EXCAVATION FOR DEMOLITION, SOFT SPOTS, GRUB HOLES AND THE LINE
 - EXCAVATION FOR IN-GROUND SERVICES AND DRAINAGE
 - EXCAVATION FOR FOOTINGS
 - VARIATIONS TO PROFILE FOR PAVEMENT INTERFACES
 - BENCHING AND TEMPORARY BATTERS
 - BULKING (I.E. QUANTITY IS SOLID / UNBULKED)
- FOR PROPOSED PAVEMENT PROFILES REFER TO DRAWING SE_12085_F650.
- CONTRACTOR TO CONSULT WITH JEMENA AND OBTAIN APPROVAL FOR BULK EARTHWORKS OVER GAS MAIN.

TRIM PROFILE

EXISTING S.L.

TRIM LEVEL

PROPOSED F.S.L.

PROPOSED PAVEMENT

PROPOSED SUBGRADE

PROPOSED PAVEMENT PROFILE

CUT

FILL

EARTHWORKS VOLUMES

CUT	-2,602 m ³
FILL	2,569 m ³
BALANCE	-33 m ³

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROBE THEIR EXACT POSITION ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

WARNING
OVERHEAD ELECTRICITY IN VICINITY OF WORKS.

NOT FOR CONSTRUCTION



T2	24/04/25	LZW	BJC	CON	REVISED TENDER DOCUMENTATION
T1	17/04/25	TPC	BJC	CON	TENDER DOCUMENTATION
Issue	Date	By	Chkd	Appd	Description

Job Title
TIMBRELL PARK SPORTSFIELD
TURF DESIGN MINOR WORKS

Drawing Title
BULK EARTHWORKS
LAYOUT PLAN

SCALE 1:750 @ A1

FIELD OF PLAY

Drawing Status
TENDER

Drawing Number
SE_12085_F3150

Issue
T2