



OUT21/3645

Jonathan Blackmore
Planning and Assessment Group
NSW Department of Planning, Industry and Environment

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Dear Mr Blackmore

**Moorebank Avenue Realignment (SSI-10053)
EIS**

I refer to your email of 17 March 2021 to the Department of Planning, Industry and Environment (DPIE) Water and the Natural Resources Access Regulator (NRAR) about the above matter.

The following recommendations are provided by DPIE Water and NRAR.

Pre-approval:

- The proponent should provide further detail on proposed mitigation measures to prevent geomorphological impacts to downstream watercourses as a result of increased stormwater flow.
- Outlet structures within Anzac Creek should be constructed in accordance with NRAR's Guideline for outlet structures on waterfront land - https://www.industry.nsw.gov.au/data/assets/pdf_file/0020/160463/licensing_approvals_controlled_activities_outlet_structures.pdf
- The EIS incorrectly states no waterfront land is present and should be amended.

Waterfront land is defined as the land measured in-land 40 metres from the top of the highest bank and the bed and banks of the watercourse. See the *Water Management Act 2000* for the full definition. The EIS has correctly identified Anzac Creek as a 1st order watercourse.

Post Approval:

- A hydrogeological assessment should be undertaken to assess the impacts of the excavations on the underlying aquifer and determine where the base of the excavation is with respect to site groundwater levels.
 - This is a risk given the depth to water table in this area can be very shallow and no site-specific data has been provided to confirm the depth to water table or proposed excavation depth.
- The proponent should consult with NRAR to determine any licencing and further assessment requirements needed if/when groundwater is intercepted.
 - Noting that a groundwater impact assessment is required if the project extracts/impacts on groundwater. A groundwater impact assessment is required regardless of the volume taken or if any licencing exemptions apply.
- Each stormwater retention excavation work should be assessed to determine if an impermeable liner is required in order to protect the underlying groundwater quality.



- During the detailed design stage, the proponent should consider the potential for poor quality or contaminated storm water in retention basins infiltrating the water table, buffer zone above the high mark of the water table be assessed at the same time.
- If Acid Sulfate Soils are encountered on the site the proponent should prepare and adopt an Acid Sulfate Soils Management plan to the satisfaction of the Secretary.
- The reference to the Water Sharing Plan for the Greater Metropolitan Region Groundwater Sources 2011 groundwater source applicable to the project area should be updated to the *Sydney Basin Central Groundwater Source*.

Any further referrals to DPIE Water and NRAR can be sent by email to:
landuse.enquiries@dpie.nsw.gov.au.

Yours sincerely

A handwritten signature in black ink, appearing to read 'S. Francis'.

Simon Francis
Senior Project Officer, Assessments, Knowledge Division
Department of Planning, Industry and Environment: Water
19 April 2021