

8th June 2023



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Dear David,

Re: IDAS Reference IDAS S4551148650 Request for further information at Proposed Development DA 887/2018/B 150-162 Barker Street & 8-12 Young Street Randwick

Planning Portal No. A-63180

As the applicant for the above mentioned DA 887/2018/B, the below information is provided in response to the following information requested by WaterNSW.

1. Confirmation that the structures below the predicted highest groundwater table are waterproof (tanked basement) and dewatering management program is designed considering the Minimum requirements for building site groundwater investigations and reporting. Note: Department of Planning & Environment (DPE) require the perimeter walls and floor of the basement being construction using a 'tanked' (waterproof) construction method. Please refer to: [Minimum requirements for building site groundwater investigations and reporting](#) (DPE Oct 2022)

Applicant Response:

The basement structure is designed as a 'tanked' basement.

2. Volume of water to be extracted annually

Applicant Response:

As per Douglas Partner modelling (Attachment A) and outlined in the Dewatering Management Plan (DMP) (Attachment B), the volume is predicted to be a total of 63.1 ML (50.5ML for 12 months for building N1 (subject of this modification) and 12.6 ML for 6 months for building N2 (not the subject of this modification). Further details on volume to be extracted can be found in Douglas Partner's Groundwater inflow Assessment (Attachment C).

3. Duration of the water take for dewatering

Applicant Response:

A duration of 12 months for building N1 has been assumed. This is required to be confirmed by the Head Contractor and structural engineer, once a Head Contractor is engaged to undertake the works.

4. Method of measuring the water take and recording

Applicant Response:

A calibrated flow meter will be established by the appointed contractor to record flow and discharge volumes during all dewatering works (as per Section 6 of the DMP, Attachment B).

5. Provide an updated Geotech report

Applicant Response:

An updated Geotechnical report prepared by Douglas Partners is included in Attachment A.

6. Provide Lot(s) and DP(s) of where excavation of basement and dewatering will occur

Applicant Response:

Lots 1, 2 and 3 DP1041725, Lot 4 DP165055, Lot 4 DP1039981, Lot 1 DP818777, Lot 1 DP932027, Lot 1 DP87614 and Lot B DP344447.

7. Provide dewatering method/plan, Pump description(s) type, quantity, size

Applicant Response:

A draft Dewatering Management Plan (DMP) is included in Attachment B. This report is currently under review by the Site Auditor (Senversa) and will have further revisions based on Auditor feedback.

The DMP will be provided to the Head contractor, who will provide the dewatering method/plan, pump descriptions, type, quantity and size.

8. Confirm if the basement design is going to be tanked or drained

Applicant Response:

The basement structure is designed as a 'tanked' basement.

9. Provide documents updated with the above information

Applicant Response:

The documentation provided in the S4.55 submission has been designed assuming a 'tanked' basement, and in accordance with the reports provided in Attachment A, B and C.

Structural documentation is provided in Attachment D.

10. If a tanked basement design is not possible, DPE will require additional modelled data to support a hydro-geological review and assessment of the alternative drained basement design. The Geotech report will need to be updated accordingly. For details of the additional data requirements for DPE to assess drained basement scenarios, please refer to **Table 1 Modelling Inputs in the attachment.**

Applicant Response:

Not applicable, the basement structure is designed as a 'tanked' basement.

Regards

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Development Manager

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