

0485SYD - Ltr2481-19

19 July 2019

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**SYDNEY MODERN PROJECT: ART GALLERY NSW
\$4.55 COOLING TOWERS MODIFICATION RFI (SSD 6471)**

Dear Andrej,

In response to the Request for Information (RFI) received from the City of Sydney Council (Council) dated 16 July 2019 and Heritage Council of NSW dated 5 July 2019 please see responses relating to trees and landscaping below:

- Air flow through the grille is approx. 50-70m³/s at full load (max flowrate). The max air velocity is calculated to be approximately 2m/s (around 7km/hr). This air flow velocity is not considered to be significant enough to impact the long term health of the surrounding vegetation;
- There are no shrubs located directly on top of the cooling tower grille. The health of surrounding vegetation is not expected to be impacted by the release of warm air from the grill. The proposed landscaping surrounding the grill will screen the grill from the public domain to ensure visual amenity.
- Proposed new trees located adjacent to the cooling tower grill will be offset a minimum of 1.5m away from the edge of the grill, which is a sufficient distance to ensure that the tree's canopies are not impacted by the release of warm air from the grill. Trees surrounding the grill are native Australian species which are heat tolerant and will not be impacted by the maximum air temperature difference of 5-6 degrees directly adjacent to the grill.
- Existing tree T1118 is 12.7m away from outer tree trunk to the edge of grill while T1228 is 4.5m away. They are not expected to be impacted by the warm air released from the grill.
- Existing tree T1228 is sitting within 6x6m root plate as part of the transplanting process, no further excavation is required as part of the new path and cooling tower footprint.
- The intrusion of the cooling tower footprint into the T1118 tree protection zone has been signed off by the arborist (Refer "AGNSW_AIAR_ADD5_v3x");
- Please refer to updated landscape plan and sections "LD_DA_00-17" and "LD_DA_20-01" for further information.



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