

25 March 2020

WaterNSW

Level 14
169 Macquarie Street
Paramatta NSW 2150

Attention: Justine Clark

VIA EMAIL: Environmental.Assessments@waternsw.com.au

Dear Justine

**RE: SSD 9601 BRICKWORKS PLANT 2 UPGRADE, 780 WALLGROVE ROAD, HORSLEY PARK, NSW 2175
WATER NSW RESPONSE TO SUBMISSIONS**

We have reviewed your correspondence dated 25 February 2020 (Ref. D2020/17318) and on behalf of our client Brickworks Ltd hereby provide the following item by item response to address the issues raised.

1. Pre- and Post-Development Flows

Please refer to Table 3.4 in the updated *Soil & Water Management Plan and Civil Engineering Report (REP001-03-18-577)* which compares pre-development flows with post-development peak flows or all storm events between the 1% AEP and 63% AEP. This analysis has been undertaken in DRAINS urban drainage modelling software and a copy of the model file can be provided on request. Post-development results are provided for the mitigated scenario involving installation of the proposed detention basin.

BMT have also undertaken a flood modelling investigation for the proposed development, focused on flows through Eastern Creek. This is the watercourse into which stormwater from the development discharges and from there continues north under the bulk water supply pipelines. The key results of the BMT assessment are summarised in Section 3.8 of the AT&L report and a copy of the BMT assessment is enclosed under Appendix D.

2. On Site Detention Basin Maintenance

As required by Fairfield Council's *Stormwater Management Policy (Sept 2017)*, a maintenance manual and schedule would usually be provided to the PCA following the completion of the basin and prior to the issue of an Occupation Certificate, with a copy also to be provided to Council (and WaterNSW if desired). We request that this requirement is included in the conditions of the approval.

As a guide, we have however included additional information on the anticipated basin maintenance regime in Section 3.6 of the updated *Soil & Water Management Plan and Civil Engineering Report (REP001-03-18-577)*.

3. Neutral or Beneficial Impact on Water Quality

Due to the site's location within the Western Sydney Parklands and adjacent to the Warragamba Prospect Bulk Water Supply Pipelines, it is acknowledged that WaterNSW's NorBe requirements need to be achieved. A water quality model has been prepared for the development in MUSIC software in order to confirm the proposed treatment train is sufficient. A gross pollutant trap device has been added to the stormwater network as a primary treatment device immediately upstream of the proposed sediment basin.

Please refer to Section 3.5.4 and in particular Table 3.9 of the updated *Soil & Water Management Plan and Civil Engineering Report (RE001-03-18-577)* for results of the MUSIC modelling exercise and confirmation that NorBe requirements are achieved. The .sqz model file is also provided for WaterNSW review.

4. Impacts on Bulk Water Supply Pipeline

Clause 13 contains four provisions relating to impacts on the bulk water supply infrastructure:

- (a) *the development will have a neutral or beneficial impact on the quality of the water in the bulk water supply infrastructure shown on the Bulk Water Supply Infrastructure Map;*

Refer to Item 3 above.

- (b) *the development will not impact on the integrity or security of the bulk water supply infrastructure;*

The Plant 2 development is located over 100m away from the bulk water supply pipelines and is contained within a secure industrial parent site. Since the development only involves an upgrade to an existing industrial manufacturing facility there will be no impact to the security of the pipelines. Refer also to Section 3.8 of the report which confirms that there are no adverse flooding impacts as a result of the development which would affect the integrity of the downstream bulk water infrastructure.

- (c) *the development will not increase the risk of illegal access to the bulk water supply or security of the bulk water supply infrastructure;*

The Plant 2 development is located over 100m away from the bulk water supply pipelines and is contained within a secure industrial parent site. There is also existing exclusion fencing at the boundary of the two sites, preventing unauthorised access.

- (d) *access to bulk water supply infrastructure for maintenance and operation activities by Water NSW and Sydney Water Corporation will not be impeded by the development.*

Existing access for WaterNSW and their contractors to the adjoining section of bulk water supply pipelines is from Ferrers Rd and Wallgrove Rd to the east and west respectively, not from the Austral site.

Should you have any questions, please do not hesitate to contact the undersigned.

Yours sincerely,



Simon Haycock

Associate Director – Civil Engineering