

General Terms of Approval

for proposed development requiring approval
under s89, 90 or 91 of the Water Management Act 2000

Reference Number: IDAS1127241

Issue date of GTA: 29 September 2020

Type of Approval: Water Supply Work

Description: 80mm submersible pump

Location of work/activity: 2 Cotton Crescent Macquarie Park

DA Number: LDA2020/0243

LGA: City Of Ryde

Water Sharing Plan Area: Greater Metropolitan Region Groundwater Sources

The GTA issued by WaterNSW do not constitute an approval under the *Water Management Act 2000*. The development consent holder must apply to WaterNSW for the relevant approval **after development consent** has been issued by Council **and before** the commencement of any work or activity.

| Condition Number | Details |
|-------------------|---|
| Dewatering | |
| GT0062-00001 | Groundwater shall not be pumped or extracted for any purpose other than temporary construction dewatering at the site identified in the development application. |
| GT0063-00001 | An authorisation under the relevant water legislation, such as a Water Access Licence (WAL), shall be obtained for the take of groundwater as part of the activity. For avoidance of doubt, these terms do not represent any authorisation for the take of groundwater, nor do they constitute the grant, or the indication of an intention to grant, any required WAL. |
| GT0064-00001 | An authorisation under the relevant water legislation, such as an Approval, is also required for the works involved in extracting the groundwater. For avoidance of doubt, these terms do not represent any authorisation for the construction or installation of such works. |
| GT0065-00001 | The relevant works must not be carried out, installed or operated until a specialist hydrogeological assessment has been completed by the Department of Planning Industry and Environment, which concludes that adequate arrangements are in force to ensure that no more than minimal harm will be done to any water source, or its dependent ecosystems, as a consequence of the construction or use of the proposed water management work. |
| GT0066-00001 | The design and construction of the building must prevent any take of groundwater after the authorisation has lapsed by making any below-ground levels that may be impacted by any water table fully watertight for the anticipated life of the building. Waterproofing of below-ground levels must be sufficiently extensive to incorporate adequate provision for unforeseen high water table elevations to prevent potential future inundation. |
| GT0067-00001 | Sufficient permanent drainage shall be provided beneath and around the outside of the watertight structure to ensure that natural groundwater flow is not impeded and: a. any groundwater mounding at the edge of the structure shall be at a level not greater than 10 % above the level to which the water table might naturally rise in the location immediately prior to the construction of the structure; and b. any elevated water table is more than 1.0 m below the natural ground surface existent at the location immediately prior to the construction of the structure; and c. where the habitable part of the structure (not being footings or foundations) is founded in bedrock or impermeable natural soil then the requirement to maintain groundwater flows beneath the structure is not applicable. |

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| GT0068-00001 | Construction methods and material used in and for construction shall be designed to account for the likely range of salinity and pollutants which may be dissolved in groundwater, and shall not themselves cause pollution of the groundwater. |
| GT0069-00001 | The Applicant is bound by the above terms and any other terms and conditions of the subsequent authorisation(s) required for the extraction of groundwater and the associated works under the relevant water legislation. |
| GT0070-00001 | Measurement and monitoring arrangements to the satisfaction of WaterNSW are to be implemented. Weekly records of the volumes of all groundwater pumped and the quality of any water discharged are to be kept and a completion report provided after dewatering has ceased. Records of groundwater levels are to be kept and a summary showing daily or weekly levels in all monitoring bores provided in the completion report. |
| GT0071-00001 | Following cessation of the dewatering operations and prior to the surrender of any associated authorisation, the applicant shall submit to WaterNSW the completion report which shall include: a. detail of the volume of water taken, the precise periods and location of water taken, the details of water level monitoring in all of the relevant bores; and b. The location and construction of groundwater extraction works that are decommissioned c. a water table map depicting the aquifer's settled groundwater condition and a comparison to the baseline conditions; and d. a detailed interpreted hydrogeological report identifying all actual resource and third party impacts, including an assessment of altered groundwater flows and an assessment of any subsidence or excessive settlement induced in nearby buildings and property and infrastructure. |
| GT0082-00001 | The Department of Planning, Industry and Environment, Water has determined that an authorisation to account for the temporary and transient impacts on groundwater systems associated with the proposed development for up to twelve months is required (to be issued by WaterNSW). |
| GT0084-00001 | All required monitoring and reporting arrangements are to be designed to demonstrate the activity meets due diligence with respect to the Water Management Act 2000, the relevant water sharing plan(s) and the NSW Aquifer Interference Policy during construction and occupation phases of the building. |
| GT0085-00001 | At the time of application for a Construction Certificate, the developer must be able to demonstrate to the consent authority that an authorisation for the pumping of groundwater for temporary construction dewatering has been obtained for the relevant groundwater source from which water is being taken. |
| GT0086-00001 | At the time of application for an Occupation Certificate, the developer must be able to demonstrate to the consent authority that any unexpected groundwater pumping (resulting from poor construction methods, materials or inadequate waterproofing) has been authorised by a water access licence purchased for the relevant groundwater source from which water is being taken and must be able to demonstrate no impact on neighbouring sites or the integrity of the aquifer. |
| GT0088-00001 | All monitoring data collected for the development and all monitoring and |

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| | management reports are to be provided in electronic format (tabulated and raw corrected data) to the Department of Planning, Industry and Environment; Water. |
| GT0098-00001 | <p>A specialist Site Hydrogeology Report prepared and certified by a qualified, experienced and practising hydrogeologist must be provided to enable the Department of Planning Industry and Environment to carry out the assessment that includes, but is not limited to, the following:</p> <ul style="list-style-type: none"> a. pre-development (existing) conditions in the form of a baseline monitoring record and comprehensive groundwater system description: <ul style="list-style-type: none"> i. site and neighbouring area stratigraphy, formation description, site groundwater levels, groundwater flow paths, site aquifer and aquitard (if relevant) hydraulic characterisation ii. groundwater quality and specific consideration of groundwater potentially affected by contamination from surrounding land uses or acid sulfate soils where they are found to exist iii. neighbouring users, groundwater dependent ecosystems, water bodies and other relevant features within a one kilometre radius of the subject site iv. the above site information must not date more than six months prior to the date of lodgement of the development application to account for climate trends and maintain the currency of groundwater data b. excavation phase (during dewatering), in the form of a comprehensive impact prediction description as well as a monitoring and management strategy: <ul style="list-style-type: none"> i. predicted impacts (extent, magnitude and duration) that are developed through numerical groundwater modelling ii. corresponding trigger levels (levels, quality, flow, volume and ground surface settlement) to manage any potential impacts iii. construction techniques and approaches that will be used to prevent any ongoing groundwater pumping at the same time as not causing any obstruction to natural groundwater behaviour iv. details of monitoring (groundwater levels, quality as required, rate of inflows, metered pumping) v. where a risk of ground settlement is identified due to the proposed dewatering, the proponent is to provide a program of monitoring, trigger and responses to Council (Note while it is the Proponent's responsibility to identify the risk, the Department recommends that Council enforce this requirement for all applications in all high risk areas which includes sand formations or other unconsolidated ground). c. post-excavation phase (during aboveground construction) in the form of a comprehensive post-dewatering impact review: <ul style="list-style-type: none"> i. collation of monitoring records, ii. analysis of actual impacts compared to predicted impacts, noting that some impacts may be delayed, iii. magnitude and extent of potential long-term effects from the completed structure iv. arrangements for reporting (measurements, technical analysis and future predictions) to the relevant authority d. occupational phase (after building completion) in the form of an annual groundwater monitoring plan: <ul style="list-style-type: none"> i. monthly monitoring to demonstrate the magnitude of groundwater pumping after construction, either through satisfactory photographic and documented evidence of no visible seepage into the building or, if inflows cannot be prevented, measured flow rates into all pump-out sumps ii. recording arrangements to document ongoing compliance, event-based notification of unexpected groundwater take to the relevant authority and annual reporting arrangements |

SCHEDULE 1

The plans and associated documentation listed in this schedule are referred to in general terms of approval (GTA) issued by WaterNSW for integrated development associated with LDA2020/0243 as provided by Council:

- Douglas Partners
- Report on Preliminary Geotechnical Investigation
- Lot D- "8 Cottonwood Crescent"
- 2-10 Cottonwood Crescent, Macquarie Park
- Prepared for
- MP No 1 Holdings Pty Ltd atf MP No 1 Unit Trust