

Appendix W

Recommended Mitigation Measures – 5 March 2024

Issue	Mitigation Measure	Timing
Approved Documentation	The works / activity shall be carried out in accordance with the report, plans, and documents as set out in the Appendix Schedule of the REF proper.	At all times
Traffic, Access and Parking (Construction)	A final demolition and construction-related Traffic Management Plan shall form part of the overall Construction Management Plan, and shall address amongst other things traffic routes, access and accessibility within the site, construction worker parking, and work zones and pedestrian management.	Prior to the commencement of works.
Noise and Vibration (Construction)	<p>A final Construction Noise and Vibration Management Plan shall be prepared addressing physical and noise management measures to be employed during works to limit the likely impacts upon receiver within and outside of the hospital.</p> <p>Measures shall include, but not be limited to the followings as set out in Section 5.4 of the EMM Noise and Vibration Assessment:</p> <ul style="list-style-type: none">• Stakeholder and community consultation• Site hoarding• Temporary noise barriers• Scheduling of works• Plant and equipment• Work practices	Prior to the commencement of works.
Noise and Vibration (Operation)	<p>With respect to the choice of mechanical plant, a detailed review of mechanical plant should be undertaken as part of the detailed design and construction phases to ensure that cumulative noise emissions comply with the PNTLs provided in Table 4.1 and Table 4.2 of the EMM Noise and Vibration Assessment.</p> <p>Noise from the compressor enclosure will likely require acoustic treatment to the air intake path where it is drawn from the eastern façade. This may include internally lined duct work, an attenuator or acoustic louvre.</p> <p>Any additional ventilation or extraction equipment (eg dust extraction) is to be acoustically treated to meet a noise target 10dB below the PNTLs at receivers.</p>	Prior to the commencement of works.
	<p>Noise within each workshop should not exceed 85dB LAeq with the façade open. This would include an open façade not exceeding the following:</p> <ul style="list-style-type: none">• the eastern façade open in each workshop to an extent no greater than 2.5% of the floor area; and• the western façade open in each workshop to an extent no greater than 10% of the floor area. <p>Where noisy works are to be undertaken (eg cutting or grinding) the workshop façade is to be closed (windows and doors).</p>	During operation.
Dust and Air Quality	A final Construction Management Plan shall be prepared, addressing dust and air quality measures (amongst a fuller range of construction impact mitigation measures)	Prior to commencement of works.

to limit the potential for dust and air quality impacts upon the hospital and sensitive receivers outside of the hospital.

Geotechnical matters	<p>A review of the site's and work's potential to generate soil salinity impacts is to be completed to determine the risk of impact upon degradation in soils, groundwater or vegetation; damage to buildings and infrastructure; and ensure development will not significantly increase the salt load in existing watercourses.</p>	Prior to commencement of works.
Soil Management	<p>To manage run-off from stormwater during works, the Erosion and Sediment Control Plans for the TAM site as prepared and provided by ACOR Consultants shall be employed.</p> <p>The measures applied shall be consistent with Erosion and sediment control - Managing Urban Stormwater: Soils and Construction (Landcom, 2004) (the Blue Book).</p>	During works.
Aboriginal heritage matters	<p>Aboriginal objects are protected under the NPW Act regardless of whether they are registered on AHIMS or not.</p> <p>If suspected Aboriginal objects, such as stone artefacts, are located during future works, works must cease in the affected area and an archaeologist called in to assess the finds. If the finds are found to be Aboriginal objects, Heritage NSW must be notified under section 89A of the NPW Act. Appropriate management and avoidance or approval under a section 90 AHIP should then be sought if Aboriginal objects are to be moved or harmed.</p> <p>In the extremely unlikely event that human remains are found, works should immediately cease, and the NSW Police should be contacted. If the remains are suspected to be Aboriginal, Heritage NSW may also be contacted at this time to assist in determining appropriate management.</p>	During works.
Non-Aboriginal cultural heritage matters	<p>A standard unexpected finds process shall be adopted during works associated with the proposal:</p> <ul style="list-style-type: none"> An 'unexpected heritage find' can be defined as any unanticipated archaeological discovery, that has not been previously assessed or is not covered by an existing approval under the Heritage Act 1977 (Heritage Act) or National Parks and Wildlife Act 1974 (NPW Act). These discoveries are categorised as either: <ul style="list-style-type: none"> Aboriginal objects (archaeological remains, i.e. stone tools); Historic (non-Aboriginal) heritage items (archaeological remains, i.e. artefacts) or moveable objects). Human skeletal remains (reportable deaths, Aboriginal objects, or relics). Should any unexpected heritage find be uncovered during any future excavation works, the following procedure must be adhered to: <ul style="list-style-type: none"> Stop all work in the immediate area of the item and notify the Project Manager. Establish a 'no-go zone' around the item. Use high visibility fencing, where practical. Inform all site personnel about the no-go zone. No work is to be undertaken within this zone until further investigations are completed. Engage a suitably qualified and experienced Archaeologist to assess the finds. 	During works.

- The Heritage Council must be notified if the finds are of local or state significance. Additional approvals will be required before works can recommence on site.
- If the item is assessed as not a 'relic', a 'heritage item' or an 'Aboriginal object' by the Archaeologist, works can proceed with advice provided in writing.
- Should any unexpected human skeletal remains be uncovered during future excavation works, the following procedure must be adhered to:
 - Do not further disturb or move the remains; Immediately cease all work at the particular location;
 - Notify NSW Police;
 - Notify Heritage NSW Environment Line on 131 555 as soon as practicable and provide available details of the remains and their location; and

Not recommence any work at the particular location unless authorised in writing by Heritage NSW.

Arboricultural matters	<p>The only trees able to be removed are Trees 128-139, as set out in the Moore Trees Arboricultural Development Assessment Report, noting four (4) of these have previously been removed.</p> <p>All tree work shall be carried out by a qualified Arborist and work shall be completed following AS 4373 (Pruning of Amenity Trees, 2007).</p>	During works.
	<p>Replacement tree planting is to be carried out within the vicinity of the TAM site, if possible, and otherwise elsewhere within the campus (with a preference for the southern part of the campus. The replacement canopy tree planting shall be for no less than nine (9) new canopy trees.</p> <p>See also Ecology offset requirements further below.</p>	During works.
	<p>All other trees must be retained and protected consistent with the Moore Trees Arboricultural Development Assessment Report as set out in Section 5 and Appendix 1 of the report.</p> <p>The following recommendations also apply:</p>	During works.
	<p>A Project Arborist should be appointed to oversee the arboricultural related works for the project. The Project Arborist should be used for arboricultural certification services and also used as a point of contact should any questions arise during the project. As specified in AS 4970, 2009, a Project Arborist is a person with a minimum Australian Qualification Framework (AQF) level 5 Diploma of Arboriculture or Horticulture qualification.</p>	Prior to the commencement of works.
	<p>Trees not located near the works (south of Tree 87) will require tree protection fencing as specified in Section 5.2 of the arborist's report. Trees 78-81 shall be fenced prior to demolition works occurring. Trees 78-81 shall also require trunk protection (See Section 5.3). The specifications for a TPZ are in Section 5.3 of the arborist's report.</p>	Prior to the commencement of works.
	<p>Building material storage:</p> <p>Areas on the site shall have to be set aside for the exclusive use of:</p> <ul style="list-style-type: none"> • Construction access points • Position of site sheds and latrines and temporary services 	During works.

- Storage of materials

These points are to be outside of any TPZ area. Any area set aside for the stockpiling of soil and waste shall have the appropriate erosion control measures around this area as specified by an engineer. These erosion control measures shall be monitored and maintained regularly throughout the construction period of the site. These measures are to restrict any waste material entering the TPZ areas of the trees to be retained.

Contamination matters	Development and implementation of an unexpected finds protocol shall be undertaken before and during the proposed development works.	Prior to the commencement of works and during works.
Hazardous Building Materials matters	If previously unidentified materials (suspected of containing asbestos) are identified during the demolition phase, works should cease and the material should be inspected and classified by an experienced consultant. The area should be isolated and barricaded until the material has been classified as non-hazardous or removed and the area cleared.	During works.
Construction Management and Construction Traffic Management matters	<p>A final Construction Management Plan, including a Traffic and Pedestrian Management Plan, generally consistent with the requirements as set out in the preliminary Construction Management Plan prepared by CBRE / Turner & Townsend and Section 7.0 - Preliminary Construction Traffic Management Plan of the ptc Transport Impact Assessment, shall be developed by the appointed contractor prior to commencement of the works.</p> <p>The hours of works shall be set out in the preliminary Construction Management Plan, namely:</p> <ul style="list-style-type: none"> • Monday to Friday 7:00AM to 5:00PM • Saturdays 8:00AM to 1:00PM • Sundays and Public Holidays..... No works. 	Prior to the commencement of works.
Ecology	Offset tree clearing by planting two trees for each tree removed within the Nepean Hospital Precinct. Tree species are to be characteristic species of the Cumberland Plain Woodland and from local provenance seed.	Prior to the commencement of works.
	A preclearance assessment is to be conducted by a qualified ecologist within 3 weeks of the clearing to check for nests or new hollows. If any nests or hollows are observed a qualified ecologist/fauna handler will be required to supervise the tree clearing of the identified habitat trees.	Prior to the commencement of works.
	Existing felled logs are to be relocated to an area of retained vegetation within the precinct if possible. The relocation site is to be confirmed by an ecologist when undertaking the preclearance survey.	Prior to the commencement of works.
	Any retained vegetation within proximity to the proposed works is to be appropriately protected during the entire extent of the works, e.g. temporary fencing, flagging and tree protection. Tree protection is to be installed in accordance with the Australian Standard AS 4970-2009 'Protection of Trees on Development Sites' (SA, 2009).	During works / construction.
	During clearing or construction works, if any species of threatened flora or fauna are identified, works must stop immediately and a qualified Ecologist must be contacted.	Prior to the commencement of works and during works.
	If any fauna are identified during works and require rescue, a qualified Ecologist, or fauna rescue volunteer, must be notified. Works will not continue until the animal has	Prior to the commencement of works and during works.

been rescued. Call either Sydney Metro Wildlife on 9413 4300 or WIRES on 1300 094 737.

Erosion and sediment control will be detailed in a Construction and Environmental Management Plan (CEMP), including types of control, method of installation, locations, maintenance regime, responsibilities, and stockpile storage. All sedimentation and erosion control measures will be designed, installed, and maintained using procedures outlined in the Standards of the Soil Conservation Service of NSW, WR Volume 4 and Managing Urban Stormwater: Soils and Construction 2004 4th edition (Landcom, 2004). Controls are to be maintained daily and installed prior to any construction activity.	Prior to the commencement of works.
Best practice hygiene will be implemented to prevent the spread of invasive weeds. Vehicles and plant will be inspected for mud and soils before entering and leaving site. Stockpiles of materials containing invasive weed plant matter will be covered and bunded to prevent spread.	Prior to the commencement of works and during works.
Stockpiling or refuelling will be undertaken in allocated areas such as existing asphalt and/or hard standing or cleared grassy areas. Stockpiles and refuelling areas will be clearly marked and have appropriate bunding and erosion and sediment controls in place.	Prior to the commencement of works and during works.
Heavy machinery, plant or equipment are to be stored in allocated areas. These will be on existing hardstand areas or previously cleared areas.	Prior to the commencement of works and during works.
Waste and excess spoil will be managed in accordance with the NSW EPA Waste Classification Guidelines (EPA, 2014). Waste (including weed materials) will be disposed of at an appropriately licenced facility.	Prior to the commencement of works and during works.