



Stage 2 of the Hornsby Ku-ring-gai Hospital Redevelopment

Construction Compliance Report

13 August 2019

Version 0.1

Application No. SSD 8647

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1. Executive Summary

The Hornsby Ku-ring-gai Stage 2 Hospital Redevelopment comprises various design and construction phases. State Significant Development (SSD) approval, SSD8647, was received from NSW Dept Planning & Environment on 30 May 2018.

Health Infrastructure (HI) appointed Watpac Constructions Pty Ltd (WTP) on 20 June 2018 to deliver the works as Principal Contactor and in accordance with the requirements of SSD8647.

This Construction Compliance Report was prepared for the Stage 2 Hornsby Ku-ring-gai Hospital project in order to satisfy SSD8647 Stage 2 condition B37 and B38. Construction Compliance Reports must be submitted to the Department at compliance@planning.nsw.gov.au for information every six months from the date of the commencement of construction, for the duration of construction. Please refer to the extract of the condition clause in the table below.

ID	Condition
B37	Construction Compliance Reports must be submitted to the Department at compliance@planning.nsw.gov.au for information every six months from the date of the commencement of construction, for the duration of construction. The Construction Compliance Reports must provide details on the compliance performance of the development for the preceding six months and must be submitted within one month following the end of each six-month period for the duration of construction of the development, or such other timeframe as required by the Secretary.
B38	The Construction Compliance Reports must include: <ul style="list-style-type: none"> a) a results summary and analysis of environmental monitoring; b) the number of any complaints received, including a summary of main areas of complaint, action taken, response given and proposed strategies for reducing the recurrence of such complaints; c) details of any review of the CEMP and the Environmental Management Strategy and associated sub-plans as a result of construction carried out during the reporting period; d) a register of any modifications undertaken and their status; e) results of any independent environmental audits and details of any actions taken in response to the recommendations of an audit; f) a summary of all incidents notified in accordance with this consent; and g) any other matter relating to compliance with the terms of this consent or requested by Secretary.

Prior to the commencement of construction, a Compliance Monitoring and Reporting Program was submitted to, the Department of Planning, Infrastructure and Environment (DPE).

The project was found to be compliant, with no non-compliances noted.

2. Introduction

2.1 Project Name and Project Application Number

The name of this project is Stage 2 of the Hornsby Ku-ring-gai Hospital Redevelopment.

Application Number: SSD 8647

2.2 Project Address

The site address of the development is Palmerston Road, Hornsby NSW 2077

2.3 Project Phase, Name of Compliance Report

The project is currently at the Construction phase.

Stage 2 Construction includes:

- construction of a seven-storey building including part basement level and rooftop plant level.
- car parking;
- demolition works;
- remediation; and
- landscaping works.

In accordance Conditions B37 and B38, this report is the 'Construction Compliance Report'.

2.4 Compliance Reporting Period

The compliance reporting period for this report is for the duration from the previous submission of the Construction Compliance Report (January 2019) to the current submission of the Construction Compliance Report (August 2019).

2.5 Project Activities Summary

In this reporting period (January to August 2019), the project has completed the following activities.

2.5.1 Authorities

Stage 2 SSD Approval and Conditions of Consent

A modification to SSD8647 was approved by the DPIE on 8 May 2018 for the deletion of Condition B17 (c) – *'include provision for separate storage and collection of organic/food storage.'*

A modification to SSD8647 Condition A2 was approved by DPIE on 25 July 2019 to incorporate future proof provisions with extensions of vertical circulation structure, facade and roof form to accommodate a future operational Helipad.

An Out of Hours Works application has been approved by DPIE for a number of large concrete pours.

Please refer **Appendix E** for register of modifications undertaken to date.

Crown Certificate

Crown Construction Certificate 3 (CC3) for the remainder of the Main Works was issued by the Certifier to Watpac on 30 April 2019.

2.5.2 Construction Activities

In-ground services to the Main Building are mostly complete, with structure substantially underway.

2.6 Construction Activities

The figure below provides reference to the building footprint, boundaries, construction and operational disturbance areas, and adjacent relevant land uses. The below is reflective of the Site Plan approved as part of the SSD.

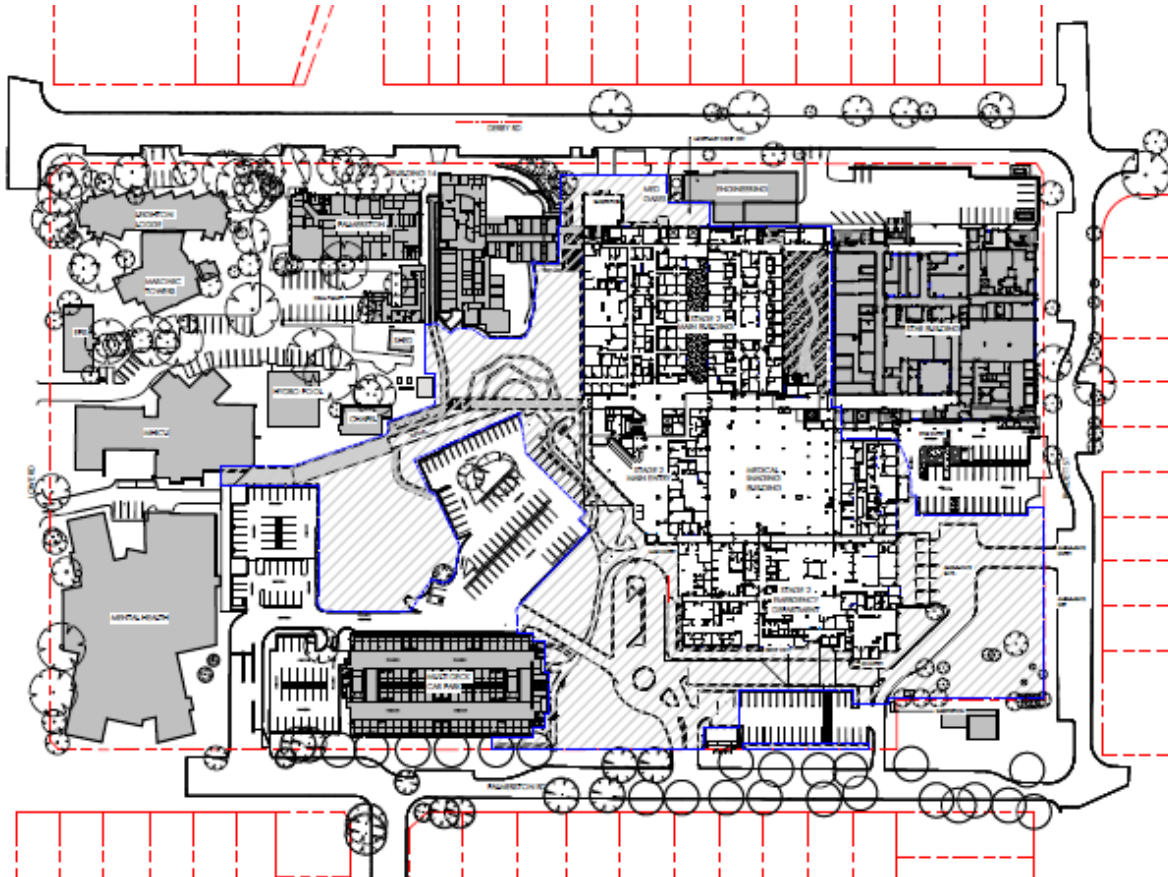


Figure 1: Site Plan

2.7 Key Environmental Management Personnel

HI has engaged WTP as the Principal Contractor.

The name and contact detail of the Key Environmental Management Personnel who are responsible for environmental management of the development as follows:

Nick Limbrey
Project Manager, Watpac
M. 0401 219 362
E. nlimbrey@watpac.com.au

Craig Scott
Site Manager, Watpac
M. 0431 308 944
E. cscott@watpac.com.au

Helena Veljovic
Building Cadet, Watpac
M. 0405 835 203
E. hveljovic@watpac.com.au

HI has engaged AQUAS as the Independent Environmental Auditor in compliance with Condition B39 of the SSD approval. A recent audit was undertaken, with no non-compliances raised.

2.8 Site Inspection

A Site Inspection was conducted as part of the Independent Environmental Audit. Compliance with the obligations was demonstrated during the site walk and through maintenance of the required documentation and various records including crown certificates, inspection reports, dockets, correspondence, etc.

Environmental documentation was available, including the Project Environmental Management Plan, Noise & Vibration, Erosion and Sedimentation, Waste, Traffic Management Plans and other sub-Plans. There was evidence of inductions and regular toolbox talks to maintain environmental awareness of all workers at the site.

The implementation of environmental controls included suitable signage, noise and vibration controls, compliance with working hours, waste management, erosion and sedimentation measures, traffic controls and ongoing site monitoring.

3. Environmental Monitoring

Weekly Environmental Inspections were conducted by WTP throughout the reporting period utilising form C-FRM-061, inclusive of photographs, corrective actions and general notes for record. The inspections involve inspection and review of controls including; spill kits (availability and stock), site cleanliness and waste management, noise levels, washout areas (concrete and wet-trade), sediment control, stormwater management, stockpiles, roads and footpaths, washdown areas, dust / odours and general air quality, tree and flora protection and checks for fauna. Minor improvements and corrective actions were managed week-to-week, with no significant events or non-conformances needing to be raised.

Noise monitoring continues to be undertaken by WTP weekly, or as otherwise specifically requested, adjacent to the nominated sensitive receivers around the site. Noise monitoring is undertaken with a calibrated handheld sound monitor, with readings taken during the course of regular site activity, equalised over a ~2 minute period. No exceedances were recorded during the period.

Vibration monitoring continues to be undertaken by WTP for nuisance and structural damage during demolition and earthworks adjacent existing structures. Vibration monitors gave live output and SMS alerts if vibration limits were being encroached. No exceedances beyond the established vibration limits were recorded during the period.

Water quality sampling and testing continues to be undertaken by WTP on a number of occasions throughout the period, following rain events. The collected water was sampled for PH, turbidity and temperature to ensure it was suitable for discharging to stormwater infrastructure. Liquid flocculant was added if / as necessary to manage turbidity / suspended solids prior to discharge.

Soil classification and tip docket were collated by WTP for all exported soils during the period. No imported soils or fill was brought to site during the period.

Waste management records and recycling reports were collated (on monthly basis) throughout the period, recording an average of 91% recycled content, by weight.

Please refer **Appendix F** for WTP Project Environmental Management Plan (Rev.05 – July 2019)

4. Compliance Status Summary

The compliance status for each condition has been assessed. Please refer to **Appendix A - Compliance Matrix for Stage 2 of Hornsby Ku-ring-gai Hospital** for detail assessment and commentary of the conditions.

Table 1 - Compliance status descriptors

Status	Description
Compliant (C)	The proponent has collected sufficient verifiable evidence to demonstrate that all elements of the requirement have been complied with.
Non-compliant (NC)	The proponent has identified a non-conformance with one or more of the elements of the requirement.
Not triggered (NT)	A requirement has an activation or timing trigger that has not been met at the time when the compliance assessment is undertaken, therefore an assessment of compliance is not relevant.

In summary, the following is the outcome of the compliance assessment of a total of 142 Conditions of Approval:

- **0 non-compliances**
- **106 compliances**
- **10 notes only**
- **26 conditions that were not triggered**

(Note: In relation to the tally above whole conditions of consent have been used to generate the tally. i.e. where a condition contains part a), b), c) etc this has been counted as one condition.)

5. Non-Compliances

A recent Independent Environmental Audit was undertaken by AQUAS 26 June 2019 (report issued on 23 July 2019, see **Appendix C**) in accordance with Condition B39 of the SSD. No non-compliances and one (1) opportunity for improvement were raised during the audit.

Finding No.	Ref.	Finding	Comment/ Recommendation
OFI-01	SSD Cl. C4	Monitoring is done weekly as part of environmental inspections. Currently the monitoring is done for 45 seconds rather than 15 min. as specified in the CNVMP.	Consider conducting noise monitoring for a longer period, e.g. 2 minutes, in order to get a better noise sample.

The above opportunity is to be closed out by the Principal Contractor WTP prior to the next Audit scheduled for December 2019.

6. Previous Report Actions

An Independent Environmental Audit was undertaken by AQUAS 23 January 2019 (report issued 14 February 2019) in accordance with condition B39 of the SSD. Refer **Appendix D** for full report. The audit confirmed that Watpac has implemented its Environmental Management System to a satisfactory level and only a minor non-conformance and opportunities for improvement were identified as part of the review. Table below provides detail of the progress made to address each action and the outcome of each action.

Finding No.	Ref.	Finding	Comment/ Recommendation	Closeout
Minor NC-01	SSD Cl. A17; ISO 14001 Cl 9.1.1	Plant and equipment maintenance records could not always be found, e.g. <ul style="list-style-type: none"> – Merlo forklift maintenance records – Calibration certificate for vibration monitor 	Ensure plant and equipment maintenance/ calibration records are maintained and are easily retrievable.	Maintenance records for Merlo forklift were complete, however not uploaded to the App at the time of inspection. Attached for record the most current maintenance records, and current now on App also. Calibration certificates for Vibration Monitors (x4) from Acoustic Logic also provided. Acoustic Logic have advised that calibration frequency for their device(s) is 2 years. Maintenance records continue to be kept up to date and monitored routinely via the 3DS App, Calibration certificates now managed via Register, and checked monthly.
OFI-01	SSD Cl. A16	The PEMP Rev. 3 was sent to Planning in January 2019 with the Compliance Report. Noted that Rev. 4 was available but not yet sent.	Consider whether it is necessary to send the most recent update of the PEMP to Planning in light of the relevant SSD requirement.	Revised PEMP issued to DPE on 18 April 2019.
OFI-02	SSD Cl. B7	It is not confirmed whether the Hospital's emergency procedures have been updated to include potential emergencies involving the newly replaced gas supply tank.	HI to contact the Hospital about any requirement to update their Emergency Response Plan after replacement of oxygen tank, as per SSD requirements.	Updated procedures uploaded to project website.
OFI-03	SSD Cl. C4, C10	Noise monitoring is conducted during regular environmental inspections, however the measurements are always done in the same locations.	Consider conducting noise monitoring measurements in locations different from the current ones, as works and the site layout have changed.	Noise monitoring locations are conducted at varying locations around the site during weekly Environmental Inspections. However as required by the Construction Noise and Vibration Management Plan and SSD, noise readings are routinely taken at the sensitive receiver locations, as a consistent point

Finding No.	Ref.	Finding	Comment/ Recommendation	Closeout
				of reference. Refer attached marked up site map with the sensitive receivers, and example of Weekly Environmental Site Inspection checklist, with noise monitoring results noted.
OFI-04	SSD Cl. C35 (WHS Regulation)	Some containers with fuel and other chemicals were found onsite without an identification label.	Ensure chemicals used onsite are suitably labelled.	<p>The below information was provided to the DPE on 18 April 2019:</p> <p>The following has occurred to improve the identification of hazardous liquids on site;</p> <ul style="list-style-type: none"> - ensure that proprietary / manufacturer-made containers are used to store hazardous goods, which possess the required labelling characteristics in accordance with AS3833. - use of colour-coded system and indelible labels / tags for small jerry cans to delineate between the small quantities of diesel and unleaded fuels on site. - purchasing and installing after-market Dangerous Goods Labels / Placards to storage cages / vessels where possible and suitable. - general minimisation of the quantum of storage vessels on site i.e. removing unused / empty jerry-cans. <p>As a result of this OFI, the team and subcontractors have also been familiarised in awareness of the requirements of AS/NZS 3833:2007 and the new Globally Harmonised System of Classification and Labelling of Chemicals (GHS).</p>
OFI-05	SSD Cl. B7; ISO 14001 Cl. 8.2	Details of the levels of communication with the Hospital for different emergency scenarios were not available for review.	Ensure details of the levels of communication with Hospital for different emergency scenarios are available and understood by relevant project staff.	Project Emergency Response Plan (PERP), Revision 5, which highlight the various site based emergency scenarios and associated communications.
OFI-06	SSD Cl. B37, B38	The contractor has prepared and submitted the first Construction Compliance Report to Planning. Additional information could be	Consider including additional information in the six-monthly Compliance Report as per the Planning document <i>Compliance</i>	Addressed as part of the July 2019 Compliance Report.

Finding No.	Ref.	Finding	Comment/ Recommendation	Closeout
		considered for inclusion in future releases of this report.	<i>Reporting Post Approval Requirements June2018.</i>	
OFI-07	SSD Cl. C27	Project information has been provided to NSLHD for publication in their website, however it was not confirmed that the information has been uploaded.	HI to follow up on the uploading of project information on the NSLHD website.	Project information available on project website.

7. Incidents

There have been no recorded incidents to date.

8. Complaints

Three complaints were received over the last reporting period.

On 21 January 2019, a complaint was received from DPIE regarding working hours with a response issued within 24 hours stating that workers had commenced works early due to forecast extreme heat conditions. Whole of site reminded of approved working hours via Pre-Start meeting and whole site toolbox talk. Closed.

On 12 February, a complaint received regarding concrete spraying beyond confines of site perimeter fence and onto an adjacent hospital building. A detailed incident investigation with corrective actions, including consultation with workers, change in work method and cleaning of affected roof area. Closed.

On 26 April 2019, complaints received from two separate parties associated with workers arriving on site prior to approved hours creating noise and leaving rubbish. One was responded to with workforce reminded about early arrival to site and will continue to monitor. The second was determined that likely cause of complaint was not associated with construction work, but personnel attending the hospital to refill bulk gas supply. Closed.

Refer **Appendix B** for Project Complaints and Incident Register, which is available on the project's website.

9. Appendices

Appendix A – Compliance Matrix for Stage 2 Hornsby Ku-ring-gai Hospital

**STAGE 2 of the HORNSBY KU-RING-GAI HOSPITAL REDEVELOPMENT
PROJECT SUBMISSIONS MATRIX [B37 / B38 COMPLIANCE REPORT]**



UPDATED **Wednesday, 24 July 2019**

SSD DEVELOPMENT CONSENT #SSD8647 of 30 May 2018

A. ADMINISTRATIVE CONDITIONS

UNIQUE ID.	COMPLIANCE REQUIREMENT	DEVELOPMENT PHASE	MONITORING METHODOLOGY	EVIDENCE & COMMENTS STATUS FEB 2019 - JUL 2019																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
A1	Obligation to Minimise Harm to the Environment In addition to meeting the specific performance measures and criteria in this consent, all reasonable and feasible measures must be implemented to prevent, and if prevention is not reasonable and feasible, minimise, any material harm to the environment that may result from the construction and operation of the development.	General Note		Compliant																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
A2	Terms of Consent The development may only be carried out: a) in compliance with the conditions of this consent; b) in accordance with all written directions of the Secretary; c) generally in accordance with the EIS as amended by the RIS and RIS Addendum; and d) in accordance with the approved plans in the table below: <table border="1" style="font-size: small;"> <thead> <tr> <th colspan="4">Architectural drawings and plans prepared by Architectonika Interiors</th> </tr> <tr> <th>REF ID</th> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td>NET-AR-32-20011</td><td>4</td><td>LEVEL PLAN</td><td>25.08.17</td></tr> <tr><td>NET-AR-32-20011</td><td>4</td><td>LEVEL PLAN - MAIN BUILDING</td><td>25.08.17</td></tr> <tr><td>NET-AR-32-20011</td><td>4</td><td>DEMOLITION PLAN - HOSP BUILDING</td><td>25.08.17</td></tr> <tr><td>NET-AR-32-20011</td><td>4</td><td>DEMOLITION PLAN - HOSP BUILDING</td><td>25.08.17</td></tr> <tr><td>NET-AR-32-20011</td><td>4</td><td>LEVEL 1 - 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118 LANDSCAPE PLAN</td><td>21.09.17</td></tr> <tr><td>SSD-200</td><td>120</td><td>AREA 119 LANDSCAPE PLAN</td><td>21.09.17</td></tr> <tr><td>SSD-200</td><td>121</td><td>AREA 120 LANDSCAPE PLAN</td><td>21.09.17</td></tr> <tr><td>SSD-200</td><td>122</td><td>AREA 121 LANDSCAPE PLAN</td><</tr></tbody></table>	Architectural drawings and plans prepared by Architectonika Interiors				REF ID	NO.	DESCRIPTION	DATE	NET-AR-32-20011	4	LEVEL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL PLAN - MAIN BUILDING	25.08.17	NET-AR-32-20011	4	DEMOLITION PLAN - HOSP BUILDING	25.08.17	NET-AR-32-20011	4	DEMOLITION PLAN - HOSP BUILDING	25.08.17	NET-AR-32-20011	4	LEVEL 1 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 2 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 3 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 4 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 5 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 6 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 7 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 8 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 9 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 10 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 11 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 12 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 13 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 14 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 15 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 16 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 17 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 18 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 19 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 20 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 21 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 22 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 23 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 24 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 25 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 26 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 27 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 28 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 29 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 30 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 31 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 32 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 33 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 34 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 35 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 36 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 37 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 38 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 39 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 40 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 41 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 42 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 43 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 44 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 45 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 46 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 47 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 48 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 49 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 50 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 51 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 52 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 53 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 54 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 55 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 56 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 57 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 58 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 59 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 60 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 61 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 62 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 63 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 64 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 65 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 66 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 67 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 68 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 69 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 70 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 71 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 72 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 73 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 74 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 75 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 76 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 77 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 78 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 79 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 80 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 81 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 82 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 83 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 84 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 85 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 86 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 87 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 88 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 89 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 90 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 91 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 92 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 93 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 94 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 95 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 96 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 97 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 98 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 99 - OVERALL PLAN	25.08.17	NET-AR-32-20011	4	LEVEL 100 - OVERALL PLAN	25.08.17	Landscape drawings prepared by Ecological Design				REF ID	NO.	DESCRIPTION	DATE	SSD-200	1	LANDSCAPE MASTERPLAN	11.11.17	SSD-200	2	AREA 1 LANDSCAPE PLAN	21.09.17	SSD-200	3	AREA 2 LANDSCAPE PLAN	21.09.17	SSD-200	4	AREA 3 LANDSCAPE PLAN	21.09.17	SSD-200	5	AREA 4 LANDSCAPE PLAN	21.09.17	SSD-200	6	AREA 5 LANDSCAPE PLAN	21.09.17	SSD-200	7	AREA 6 LANDSCAPE PLAN	21.09.17	SSD-200	8	AREA 7 LANDSCAPE PLAN	21.09.17	SSD-200	9	AREA 8 LANDSCAPE PLAN	21.09.17	SSD-200	10	AREA 9 LANDSCAPE PLAN	21.09.17	SSD-200	11	AREA 10 LANDSCAPE PLAN	21.09.17	SSD-200	12	AREA 11 LANDSCAPE PLAN	21.09.17	SSD-200	13	AREA 12 LANDSCAPE PLAN	21.09.17	SSD-200	14	AREA 13 LANDSCAPE PLAN	21.09.17	SSD-200	15	AREA 14 LANDSCAPE PLAN	21.09.17	SSD-200	16	AREA 15 LANDSCAPE PLAN	21.09.17	SSD-200	17	AREA 16 LANDSCAPE PLAN	21.09.17	SSD-200	18	AREA 17 LANDSCAPE PLAN	21.09.17	SSD-200	19	AREA 18 LANDSCAPE PLAN	21.09.17	SSD-200	20	AREA 19 LANDSCAPE PLAN	21.09.17	SSD-200	21	AREA 20 LANDSCAPE PLAN	21.09.17	SSD-200	22	AREA 21 LANDSCAPE PLAN	21.09.17	SSD-200	23	AREA 22 LANDSCAPE PLAN	21.09.17	SSD-200	24	AREA 23 LANDSCAPE PLAN	21.09.17	SSD-200	25	AREA 24 LANDSCAPE PLAN	21.09.17	SSD-200	26	AREA 25 LANDSCAPE PLAN	21.09.17	SSD-200	27	AREA 26 LANDSCAPE PLAN	21.09.17	SSD-200	28	AREA 27 LANDSCAPE PLAN	21.09.17	SSD-200	29	AREA 28 LANDSCAPE PLAN	21.09.17	SSD-200	30	AREA 29 LANDSCAPE PLAN	21.09.17	SSD-200	31	AREA 30 LANDSCAPE PLAN	21.09.17	SSD-200	32	AREA 31 LANDSCAPE PLAN	21.09.17	SSD-200	33	AREA 32 LANDSCAPE PLAN	21.09.17	SSD-200	34	AREA 33 LANDSCAPE PLAN	21.09.17	SSD-200	35	AREA 34 LANDSCAPE PLAN	21.09.17	SSD-200	36	AREA 35 LANDSCAPE PLAN	21.09.17	SSD-200	37	AREA 36 LANDSCAPE PLAN	21.09.17	SSD-200	38	AREA 37 LANDSCAPE PLAN	21.09.17	SSD-200	39	AREA 38 LANDSCAPE PLAN	21.09.17	SSD-200	40	AREA 39 LANDSCAPE PLAN	21.09.17	SSD-200	41	AREA 40 LANDSCAPE PLAN	21.09.17	SSD-200	42	AREA 41 LANDSCAPE PLAN	21.09.17	SSD-200	43	AREA 42 LANDSCAPE PLAN	21.09.17	SSD-200	44	AREA 43 LANDSCAPE PLAN	21.09.17	SSD-200	45	AREA 44 LANDSCAPE PLAN	21.09.17	SSD-200	46	AREA 45 LANDSCAPE PLAN	21.09.17	SSD-200	47	AREA 46 LANDSCAPE PLAN	21.09.17	SSD-200	48	AREA 47 LANDSCAPE PLAN	21.09.17	SSD-200	49	AREA 48 LANDSCAPE PLAN	21.09.17	SSD-200	50	AREA 49 LANDSCAPE PLAN	21.09.17	SSD-200	51	AREA 50 LANDSCAPE PLAN	21.09.17	SSD-200	52	AREA 51 LANDSCAPE PLAN	21.09.17	SSD-200	53	AREA 52 LANDSCAPE PLAN	21.09.17	SSD-200	54	AREA 53 LANDSCAPE PLAN	21.09.17	SSD-200	55	AREA 54 LANDSCAPE PLAN	21.09.17	SSD-200	56	AREA 55 LANDSCAPE PLAN	21.09.17	SSD-200	57	AREA 56 LANDSCAPE PLAN	21.09.17	SSD-200	58	AREA 57 LANDSCAPE PLAN	21.09.17	SSD-200	59	AREA 58 LANDSCAPE PLAN	21.09.17	SSD-200	60	AREA 59 LANDSCAPE PLAN	21.09.17	SSD-200	61	AREA 60 LANDSCAPE PLAN	21.09.17	SSD-200	62	AREA 61 LANDSCAPE PLAN	21.09.17	SSD-200	63	AREA 62 LANDSCAPE PLAN	21.09.17	SSD-200	64	AREA 63 LANDSCAPE PLAN	21.09.17	SSD-200	65	AREA 64 LANDSCAPE PLAN	21.09.17	SSD-200	66	AREA 65 LANDSCAPE PLAN	21.09.17	SSD-200	67	AREA 66 LANDSCAPE PLAN	21.09.17	SSD-200	68	AREA 67 LANDSCAPE PLAN	21.09.17	SSD-200	69	AREA 68 LANDSCAPE PLAN	21.09.17	SSD-200	70	AREA 69 LANDSCAPE PLAN	21.09.17	SSD-200	71	AREA 70 LANDSCAPE PLAN	21.09.17	SSD-200	72	AREA 71 LANDSCAPE PLAN	21.09.17	SSD-200	73	AREA 72 LANDSCAPE PLAN	21.09.17	SSD-200	74	AREA 73 LANDSCAPE PLAN	21.09.17	SSD-200	75	AREA 74 LANDSCAPE PLAN	21.09.17	SSD-200	76	AREA 75 LANDSCAPE PLAN	21.09.17	SSD-200	77	AREA 76 LANDSCAPE PLAN	21.09.17	SSD-200	78	AREA 77 LANDSCAPE PLAN	21.09.17	SSD-200	79	AREA 78 LANDSCAPE PLAN	21.09.17	SSD-200	80	AREA 79 LANDSCAPE PLAN	21.09.17	SSD-200	81	AREA 80 LANDSCAPE PLAN	21.09.17	SSD-200	82	AREA 81 LANDSCAPE PLAN	21.09.17	SSD-200	83	AREA 82 LANDSCAPE PLAN	21.09.17	SSD-200	84	AREA 83 LANDSCAPE PLAN	21.09.17	SSD-200	85	AREA 84 LANDSCAPE PLAN	21.09.17	SSD-200	86	AREA 85 LANDSCAPE PLAN	21.09.17	SSD-200	87	AREA 86 LANDSCAPE PLAN	21.09.17	SSD-200	88	AREA 87 LANDSCAPE PLAN	21.09.17	SSD-200	89	AREA 88 LANDSCAPE PLAN	21.09.17	SSD-200	90	AREA 89 LANDSCAPE PLAN	21.09.17	SSD-200	91	AREA 90 LANDSCAPE PLAN	21.09.17	SSD-200	92	AREA 91 LANDSCAPE PLAN	21.09.17	SSD-200	93	AREA 92 LANDSCAPE PLAN	21.09.17	SSD-200	94	AREA 93 LANDSCAPE PLAN	21.09.17	SSD-200	95	AREA 94 LANDSCAPE PLAN	21.09.17	SSD-200	96	AREA 95 LANDSCAPE PLAN	21.09.17	SSD-200	97	AREA 96 LANDSCAPE PLAN	21.09.17	SSD-200	98	AREA 97 LANDSCAPE PLAN	21.09.17	SSD-200	99	AREA 98 LANDSCAPE PLAN	21.09.17	SSD-200	100	AREA 99 LANDSCAPE PLAN	21.09.17	SSD-200	101	AREA 100 LANDSCAPE PLAN	21.09.17	SSD-200	102	AREA 101 LANDSCAPE PLAN	21.09.17	SSD-200	103	AREA 102 LANDSCAPE PLAN	21.09.17	SSD-200	104	AREA 103 LANDSCAPE PLAN	21.09.17	SSD-200	105	AREA 104 LANDSCAPE PLAN	21.09.17	SSD-200	106	AREA 105 LANDSCAPE PLAN	21.09.17	SSD-200	107	AREA 106 LANDSCAPE PLAN	21.09.17	SSD-200	108	AREA 107 LANDSCAPE PLAN	21.09.17	SSD-200	109	AREA 108 LANDSCAPE PLAN	21.09.17	SSD-200	110	AREA 109 LANDSCAPE PLAN	21.09.17	SSD-200	111	AREA 110 LANDSCAPE PLAN	21.09.17	SSD-200	112	AREA 111 LANDSCAPE PLAN	21.09.17	SSD-200	113	AREA 112 LANDSCAPE PLAN	21.09.17	SSD-200	114	AREA 113 LANDSCAPE PLAN	21.09.17	SSD-200	115	AREA 114 LANDSCAPE PLAN	21.09.17	SSD-200	116	AREA 115 LANDSCAPE PLAN	21.09.17	SSD-200	117	AREA 116 LANDSCAPE PLAN	21.09.17	SSD-200	118	AREA 117 LANDSCAPE PLAN	21.09.17	SSD-200	119	AREA 118 LANDSCAPE PLAN	21.09.17	SSD-200	120	AREA 119 LANDSCAPE PLAN	21.09.17	SSD-200	121	AREA 120 LANDSCAPE PLAN	21.09.17	SSD-200	122	AREA 121 LANDSCAPE PLAN
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A23	Incident Notification, Reporting and Response	The Department must be notified in writing to compliance@planning.gov.au within 24 hours after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one), and set out the location and nature of the incident.	General Note		Compliant. No Incidents to report
A24		A written incident notification must also be emailed to the Department at the following address: compliance@planning.nsw.gov.au within seven days after the Applicant becomes aware of an incident. Notification is required to be given under this condition even if the Applicant forms the view that an incident has not occurred. b) Written notification of an incident must: i) identify the development and application number; ii) provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident); iii) identify how the incident was detected; iv) identify when the Applicant became aware of the incident; v) identify any actual or potential non-compliance with the conditions of consent; vi) describe what immediate steps were taken in relation to the incident; vii) identify further action(s) that will be taken in relation to the incident; and viii) identify a project contact for further communication regarding the incident	General Note		Compliant. No Incidents to report
B. PRIOR TO COMMENCEMENT OF WORKS					
ITEM NO.	HEADING	SSD REQUIREMENT			
B1	Notice of Commencement of Works	The Department, Certifying Authority and Council must be notified in writing of the dates of commencement of physical work and operation at least 48 hours before those dates. If the construction or operation of the development is to be staged, the Department, Certifying Authority and Council must be notified in writing at least 48 hours before the commencement of each stage, of the date of commencement and the development to be carried out in that stage.	Prior to Commencement of Works	Crown Certificate	Compliant
B2	Certified Plans	Plans certified in accordance with Section 6.2B of the EPA Act are to be submitted to the Certifying Authority and the Department prior to commencement of each stage of the construction works and must include details as required by any of the following conditions.	Prior to Commencement of Works	Crown Certificate	Compliant
B3	Reflectivity	The building materials used on the facades of the structure must have a maximum normal specular reflectivity of visible light of 20 per cent and must be designed so as not to result in glare that causes any discomfort or threatens the safety of pedestrians or drivers. A statement demonstrating compliance with these requirements or where compliance cannot be met a report that demonstrates that the exceedance would not result in glare that causes any discomfort or threatens the safety of pedestrians or drivers is to be submitted to the satisfaction of the Certifying Authority prior to the commencement of above ground works.	Prior to Commencement of Works	Crown Certificate	Compliant
B4	Outdoor Lighting	All outdoor lighting within the site must comply with, where relevant, AS 1158.3.1:2005 Pedestrian Area (Category P) Lighting and AS 4282-1997 Control of the Ostrusive Effects of Outdoor Lighting. Details demonstrating compliance with these requirements are to be submitted to the satisfaction of the Certifying Authority prior to the commencement of above ground works.	Prior to Commencement of Works	Crown Certificate	Compliant
B5	Hazards	The Applicant must ensure that the design and operation of the hospital's oxygen supply system, including the use of the liquid oxygen bulk storage tanks, any oxygen cylinders connected to the oxygen supply system and any temporary oxygen supply tanks be in accordance with Australian Standards 1894 The storage and handling of non-flammable cryogenic and refrigerated liquids (AS 1894).	Prior to Commencement of Works	Crown Certificate	Compliant
B6		The Applicant must ensure that all control measures or safeguards described in the Preliminary Hazard Analysis (PHA, 9 February 2018) will be implemented.	Prior to Commencement of Works	Crown Certificate	Compliant
B7		The Applicant must update as necessary and in accordance with AS 1894, the hospital's emergency plan and emergency procedures to include emergency situations involving the hospital's oxygen supply system, as described in the PHA (9 February 2018).	Prior to Commencement of Works	Crown Certificate	Compliant
B8		If temporary oxygen supply tanks are to be installed prior to demolition of existing liquid oxygen bulk storage tanks for the purpose of hospital oxygen supply prior to commissioning of new tanks, the design and operation of these temporary tanks must be verified with AS 1894 and/or other relevant Australian Standards.	Prior to Commencement of Works	Crown Certificate	Compliant
B9	Access for People with Disabilities	The works that are the subject of this application must be designed and constructed to provide access and facilities for people with a disability in accordance with the BCA. The Certifying Authority must ensure that evidence of compliance with this condition from an appropriately qualified person is provided and that the requirements are referenced on any certified plans.	Prior to Commencement of Works	Crown Certificate	Compliant
B10	Bicycle Parking and End-of-Trip Facilities	Plans demonstrating compliance with the following requirements for bicycle parking shall be submitted to the satisfaction of the Certifying Authority: a) the provision of a minimum of 18 bicycle parking spaces; b) the layout, design and security of bicycle facilities shall comply with the all applicable minimum requirements of AS 2893.3:2015 Parking facilities — Bicycle parking, and be located in secure, convenient and accessible areas close to the main entries and incorporating adequate lighting and opportunities for passive surveillance; and c) the provision of end-of-trip facilities for staff including showers, changeroom and lockers.	Prior to Commencement of Works	Crown Certificate	Compliant
B11	Erosion and Sedimentation Control	Soil erosion and sediment control measures must be designed in accordance with the document Managing Urban Stormwater — Soils & Construction Volume 1 (Landcom, 2004). Details are to be submitted to the satisfaction of the Certifying Authority prior to the commencement of any works.	Prior to Commencement of Works	Crown Certificate	Compliant
B12	Pre-Construction Dilapidation Reports	The Applicant is to engage a qualified structural engineer to prepare a Pre-Construction Dilapidation Report detailing the current structural condition of all retained existing and adjoining buildings within the site, infrastructure and roads within the 'zone of influence'. Any entry into private land is subject to the consent of the owner(s) and any inspection of buildings on privately affected land must include details of the whole building where only part of the building falls within the 'zone of influence'. The report must be submitted to the satisfaction of the Certifying Authority prior to the commencement of any works. A copy of the report is to be forwarded to Council.	Prior to Commencement of Works	Crown Certificate	Compliant
B13	Structural Details	Prior to the commencement of works, the Applicant must submit for the approval of the Certifying Authority structural drawings prepared and signed by a suitably qualified practicing Structural Engineer that demonstrates compliance with: a) the relevant clauses of the BCA; and b) this development consent.	Prior to Commencement of Works	Crown Certificate	Compliant
B14	Noise Management Measures	Prior to commencement of works, the Applicant must incorporate all relevant noise mitigation recommendations in the letter Hornsby Ku-ring-gai Hospital Stage 2 Redevelopment — Response to Planning NSW Queries prepared by Acoustic Logic, dated 26 April 2016, in the detailed design drawings and submit for the approval of the Certifying Authority. These drawings must demonstrate that the noise impacts have been adequately mitigated to not exceed the project specific criteria identified in condition E2	Prior to Commencement of Works	Crown Certificate	Compliant
B14	Noise Management Measures	Part 2 of the above	Prior to Commencement of Works	Crown Certificate	Compliant
B15	Mechanical Ventilation	All mechanical ventilation systems must be installed in accordance with Part F4.5 of the BCA and must comply with the AS 1688.2:2012 The use of ventilation and air-conditioning in buildings — Ventilation design for indoor air containment control and AS 3666.2:2011 Air-handling and water systems of buildings to ensure adequate levels of health and amenity to the occupants of the building and to ensure environment protection. Details must be submitted for the approval of the Certifying Authority prior to the commencement of the relevant works.	Prior to Commencement of Works	Crown Certificate	Compliant
B16	Warm Water Systems and Cooling Systems	The installation, operation and maintenance of warm water systems and water cooling systems (as defined under the Public Health Act 2010) must comply with the Public Health Act 2010, Public Health Regulation 2012 and Parts 1 and 2 (or Part 3 if a Performance-based water cooling system) of AS/NZS 3666.2:2011 Air handling and water systems of buildings — Microbial control — Operation and maintenance and the NSW Health Code of Practice for the Control of Legionnaires' Disease.	Prior to Commencement of Works	Crown Certificate	Compliant
B17	Storage and Handling of Waste	The building plans and specifications must demonstrate, for the approval of the Certifying Authority, that an appropriate area will be provided within the premises for the storage of garbage bins, recycling containers and all waste and recyclable material generated by the premises. Requirements of these storage areas must: a) ensure all internal walls of the storage area are rendered to a smooth surface, coved at the floor/wall intersection, graded and appropriately drained with a tap in close proximity to facilitate cleaning; b) include provision for the separation and storage, in appropriate categories, of material suitable for recycling; and c) include provision for separate storage and collection of organic/food waste.	Prior to Commencement of Works	Crown Certificate	Compliant. Modification approved by DPE on 8 May 2019 for deletion of 'c'.
B18	Public Footpath	The existing concrete footpath along the boundary of the subject site is to be reinstated where impacted by the proposed works to relevant Council specifications and standards.	Prior to Commencement of Works	Crown Certificate	Compliant

B19	Stormwater and Drainage Works Design	The stormwater drainage system for the development must be designed in accordance with Council's relevant specifications and standards and the following requirements: a) Connected to an existing Council piped drainage system with the following requirements: i) A separate Application must be made to Council for 'Approval To Connect Stormwater Drainage Outlet To Council's System' with all fees paid, prior to connecting to Council's drainage system; ii) The connection to Council's drainage pit or pipeline in accordance with Council's relevant design standard drawing must be inspected by a Council Engineer from Council's Planning Division; Note: An inspection booking can be made by calling Council on 9847 6760 quoting the Application reference number SSD 8647. iii) Connection to Council's drainage system shall include design and construction of Council's standard kerb inlet pit in accordance with Council's Design and Construction Specification 2005. The Applicant's Engineer must prepare the design of system including location of proposed work in the plan. Three (3) copies of the plan shall be submitted with lodgement and payment of the Application; iv) A Traffic Control Plan (TCP) must be prepared by a qualified traffic controller in accordance with the Roads & Traffic Authority's Traffic Control at Worksites Manual 1998 and Australian Standard 1742.3 for all work on a public road. The TCP is to be prepared in consultation with Council and must detail the following: a) Arrangements for public notification of the works; b) Where a drainage connection is proposed within a Classified Road, a copy of the relevant Road Occupation License approved by the Traffic Management Centre with dates and times of proposed Occupations; c) Temporary construction signage; d) Vehicle movement plans; e) Traffic management plans; and f) Pedestrian and cyclist access/safety. v) Where public assets and utilities are impacted by proposed works, the Applicant shall relocate or reconstruct the asset or utility in accordance with the relevant standard at the Applicant's cost; and vi) A Compliance Certificate must be obtained from Council for the connection to Council's drainage system prior to occupation of the development.	Prior to Commencement of Works	Crown Certificate	Compliant
B20	On-Site Stormwater Detention and Water Quality	An on-site stormwater detention system must be designed by a chartered civil engineer and constructed in accordance with the following requirements: a) the developing area of the site shall ensure its 5-year average recurrence interval (ARI) runoff reduced to the pre-development site cover rate. The volume of the on-site detention system shall ensure its capable of detaining the 20-year ARI post-development site cover storm; b) the water quality treatment system shall be designed and constructed to provide water quality outcomes as per Council's HDCP2013 Section 1C.1.2.1 requirements; c) have a surcharge/inspection grate located directly above the outlet; d) discharge from the detention system must be controlled via 1 metre length of pipe, not less than 50 millimetres diameter or via a stainless plate with sharply drilled orifice bolted over the face of the outlet discharging into a larger diameter pipe capable of carrying the design flow to an approved Council system; e) where above ground and the average depth is greater than 0.3 metres, a 'pool type' safety fence and warning signs must be installed; and f) not be constructed in a location that would impact upon the visual or recreational amenity of residents.	Prior to Commencement of Works	Crown Certificate	Compliant
B21	Road Works	Kerb and gutter, stormwater drainage, full road width pavement including traffic facilities (vehicle crossings, if applicable) and paved footpaths must be constructed along the area where road works are to be undertaken. In relation to public roads or classified road (as defined under the Roads Act 1993), all roads and traffic facilities must be designed to meet the requirements of Council and RMS (if applicable) and obtain any necessary permits and approvals from the relevant road authority, prior to the commencement of road or pavement construction works.	Prior to Commencement of Works	Crown Certificate	Compliant
B22	Construction Environmental Management Plan	a) Prior to the commencement of construction works, a Construction Environmental Management Plan (CEMP) must be submitted for the approval of the Certifying Authority. The CEMP must address, but not be limited to, the following matters where relevant: i) hours of work; ii) 24 hour contact details of site manager; iii) traffic management, in consultation with Council and TINSW; iv) construction noise and vibration management, prepared by a suitable qualified person; v) management of dust and odour to protect the amenity of the neighbourhood; vi) erosion and sediment control; vii) stormwater control and discharge; viii) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the Subject Site; ix) procedures for encountering groundwater during construction works; x) external lighting in compliance with AS4282:1997 Control of the Obtrusive Effects of Outdoor Lighting; xi) a protocol detailing appropriate procedures for identifying and dealing with unexpected finds of site contamination (including asbestos containing materials, Polycyclic aromatic hydrocarbons (PAHs), Total recoverable hydrocarbons (TRH) and lead-based paint); xii) a protocol detailing appropriate procedures for identifying and dealing with unexpected finds of archaeological heritage; xiii) waste classification (for materials to be removed) and validation (for materials to remain) be undertaken to confirm the contamination status in these areas of the site; and xiv) waste storage, recycling and litter control; b) The CEMP must not include works that have not been explicitly approved in this development consent. In the event of any inconsistency between the consent and the CEMP, the consent must prevail; and c) The Applicant must submit a copy of the CEMP to the Department and Council prior to commencement of work.	Prior to Commencement of Works	Crown Certificate	Compliant
B23		The CEMP (as revised from time to time) must be implemented by the Applicant for the duration of the construction works.	Prior to Commencement of Works	Crown Certificate	Compliant.
B24	Construction Noise and Vibration Management Plan	a) Prior to the commencement of works, a Construction Noise and Vibration Management Plan (CNVMP) must be submitted for the approval of the Certifying Authority. The CNVMP must address, but not be limited to, the following matters: i) be prepared by a suitably qualified expert; ii) be prepared in consultation with Council and all adjoining noise sensitive receivers where noise levels exceed the construction noise management levels, in accordance with EPA guidelines; iii) describe the measures that would be implemented to ensure: i. best management practices is being employed; ii. compliance with the relevant conditions of this consent; iv) describe the proposed noise and vibration management measures in detail; v) include strategies that have been developed to address impacts to noise sensitive receivers where noise levels exceed the construction noise management level, for managing high noise generating works; vi) describe the consultation undertaken to develop the strategies in v) above; vii) evaluate and reports on the effectiveness of the noise and vibration management measures; and viii) include a complaints management system that would be implemented for the duration of the construction works. b) The Applicant must submit a copy of the CNVMP to the Department and Council prior to commencement of work.	Prior to Commencement of Works	Crown Certificate	Compliant. Provided.
B25		The CNVMP (as revised from time to time) must be implemented by the Applicant for the duration of the construction works.	Prior to Commencement of Works	Crown Certificate	Compliant.
B26	Construction Waste Management Plan	a) Prior to the commencement of works, a Construction Waste Management Plan (CWMP) must be submitted for the approval of the Certifying Authority. The CWMP must address, but not be limited to, the following matters where relevant: i) recycling of demolition materials including concrete; and ii) removal of hazardous materials and disposal at an approved waste disposal facility in accordance with the requirements of the relevant legislation, codes, standards and guidelines, prior to the commencement of any building works. b) Details demonstrating compliance with the relevant legislative requirements, associated with the removal of hazardous waste, particularly the method of containment and control of emission of fibres to the air, are to be submitted for the approval of the Certifying Authority prior to the removal of any hazardous materials; c) The Applicant must notify the RMS Traffic Management Centre of the truck route(s) to be followed by trucks transporting waste material from the Subject Site, prior to the commencement of the removal of any waste material from the Subject Site; and d) The Applicant must submit a copy of the plan to the Department and to the Council prior to the commencement of work.	Prior to Commencement of Works	Crown Certificate	Compliant
B27		The CWMP (as revised from time to time) must be implemented by the Applicant for the duration of the construction works.	Prior to Commencement of Works	Crown Certificate	Compliant.
B28	Construction Traffic and Pedestrian Management Plan	a) Prior to the commencement of construction works, a Construction Traffic and Pedestrian Management Plan (CTPMP) must be prepared in consultation with Council and submitted to the satisfaction of the Certifying Authority. The CTPMP must specify, but not be limited to, the following: i) location of proposed work zones; ii) haulage routes; iii) construction vehicle access arrangements; iv) construction hours; v) construction program; vi) predicted construction traffic volumes and vehicle movements, types and routes including any known road closures and consideration of alternate routes; vii) assessment of road safety at key intersections and locations subject to heavy vehicle movements and high pedestrian activity; viii) details of construction vehicle movements including parking, dedicated vehicle turning areas and ingress and egress points; ix) details of anticipated peak hour and daily truck movements to and from the site; x) details of access arrangements for workers to/from the site, emergency vehicles and service vehicle movements; xi) details of temporary cycling and pedestrian access during construction; xii) details of proposed construction vehicle access arrangements at all stages; xiii) loading and unloading; xiv) details of management measures to minimise traffic impacts, including temporary road works and/or implementation of traffic control measures; xv) pedestrian and traffic management methods; xvi) any potential impacts to general traffic, cyclists, pedestrians and bus services within the vicinity of the site from construction vehicles during the works; xvii) consideration of the cumulative construction traffic impacts of surrounding projects under construction, including those within the Hornsby Ku-ring-gai Hospital precinct. Existing CTPMPs for developments within or around the Subject Site should be referenced in the CTPMP to ensure that the coordination of work activities are managed to minimise impacts on the surrounding road network; and xviii) traffic and transport impacts during construction and how these impacts will be mitigated for any associated traffic, pedestrian, cyclists, parking and public transport, which must include vehicle routes, number of trucks, hours of operation, access arrangements and traffic control measures for all demolition/construction activities. b) The Applicant must submit a copy of the CTPMP to the Department and to the Council, prior to the commencement of works.	Prior to Commencement of Works	Crown Certificate	Compliant. Provided.

B29		The CTMP (as revised from time to time) must be implemented by the Applicant for the duration of the construction works.	Prior to Commencement of Works	Crown Certificate	Compliant.
B30	Complaints and Enquiries Procedure	Prior to the commencement of construction works, or as otherwise agreed by the Secretary, the following must be made available for community enquiries and complaints for the duration of construction: a) a toll-free 24-hour telephone number(s) on which complaints and enquiries about the carrying out of any works may be registered; b) a postal address to which written complaints and enquiries may be sent; and c) an email address to which electronic complaints and enquiries may be transmitted.	Prior to Commencement of Works	Crown Certificate	Compliant
B31		A Complaints Management System must be prepared prior to the commencement of any construction works and be implemented and maintained for the duration of these works. The Complaints Management System must include a Complaints Register to be maintained recording information on all complaints received about the development during the carrying out of any works associated with the development. The Complaints Register must record the: a) number of complaints received; b) number of people affected in relation to a complaint; and c) nature of the complaint and means by which the complaint was addressed and whether resolution was reached, with or without mediation. The Complaints Register must be provided to the Secretary upon request, within the timeframe stated in the request.	Prior to Commencement of Works	Crown Certificate	Compliant
B32	Utility Services	Prior to the commencement of construction work the Applicant is to negotiate (where necessary) with the utility authorities (e.g. Ausgrid and telecommunication carriers) in connection with the relocation and/or adjustment of the services affected by the construction of the building structure.	Prior to Commencement of Works	Crown Certificate	Compliant.
B33		Prior to the commencement of above ground works written advice must be obtained from the electricity supply authority, an approved telecommunications carrier and an approved gas carrier (where relevant) stating that satisfactory arrangements have been made to ensure provisions of adequate services.	Prior to Commencement of Works	Crown Certificate	Compliant.
B34	External Walls and Cladding	The external walls of all buildings, including additions to existing buildings, must comply with the relevant requirements of the NCC. Prior to commencement of works, the Applicant must provide the Certifying Authority with documented evidence that the products and systems proposed for use external walls, including finishes and claddings such as synthetic or aluminium composite panels, comply with the requirements of the NCC. The Applicant must provide a copy of the documentation given to the Certifying Authority to the Secretary within seven days after the Certifying Authority accepts it.	Prior to Commencement of Works	Crown Certificate	Compliant
B35	Compliance Reporting	A Pre-Construction Compliance Report must be prepared for the development, and submitted to the Certifying Authority for approval before the commencement of construction works. A copy of the endorsed compliance report must be provided to the Department at com.plance@planning.nsw.gov.au before the commencement of construction works.	Prior to Commencement of Works	Crown Certificate	Compliant.
B36		The Pre-Construction Compliance Report must include: a) details of how the terms of this consent that must be addressed before the commencement of construction have been complied with; and b) the expected commencement date for construction.	Prior to Commencement of Works	Crown Certificate	Compliant.
B37		Construction Compliance Reports must be submitted to the Department at compliance@planning.nsw.gov.au for information every six months from the date of the commencement of construction, for the duration of construction. The Construction Compliance Reports must provide details on the compliance performance of the development for the preceding six months and must be submitted within one month following the end of each six-month period for the duration of construction of the development, or such other timeframe as required by the Secretary.	Construction	Crown Certificate	Compliant.
B38		The Construction Compliance Reports must include: a) a results summary and analysis of environmental monitoring; b) the number of any complaints received, including a summary of main areas of complaint, action taken, response given and proposed strategies for reducing the recurrence of such complaints; c) details of any review of the CEMP and the Environmental Management Strategy and associated sub-plans as a result of construction carried out during the reporting period; d) a register of any modifications undertaken and their status; e) results of any independent environmental audits and details of any actions taken in response to the recommendations of an audit; f) a summary of all incidents notified in accordance with this consent; and g) any other matter relating to compliance with the terms of this consent or requested by the Secretary.	Construction	Crown Certificate	Compliant. a) Weekly Environmental inspections conducted and records maintained. 50 inspections conducted since 4/7/2018. Records available on request. b) Complaints register included. Status date 24 July 2019. c) Revision 5 included d) Register included e) Refer Audit reports dated 23 Jan 2019 and 26 June 2019 from Aquas. Summary provided within compliance report. f) Nil g) Nil
B39	Independent Environmental Audit	No later than one month before the commencement of construction works or within another timeframe agreed with the Secretary, a program of independent environmental audits must be prepared for the development in accordance with the latest version of AS/NZS ISO 19011:2014: Guidelines for Auditing Management Systems (Standards Australia, 2014) and submitted to the Secretary for information. The scope of each audit must be defined in the program. The program must ensure that environmental performance of the development in relation to each compliance requirement that forms the audit scope is assessed at least once in each audit cycle. The environmental audit program prepared and submitted to the Secretary must be implemented and complied with for the duration of the development.	Prior to Commencement of Works	Crown Certificate	Compliant. Aquas Audits conducted in Jan 2019 and June 2019. Responses to DPE queries on the Jan 19 were provided on 18 April 19 with no further comments received.
B40		All independent environmental audits of the development must be conducted by a suitably qualified, experienced and independent team of experts and be documented in an audit report which: a) assesses the environmental performance of the development, and its effects on the surrounding environment including the community; b) assesses whether the development is complying with the terms of this consent; c) reviews the adequacy of any document required under this consent; and d) recommends measures or actions to improve the environmental performance of the development, and improvements to any document required under this consent.	Construction	Crown Certificate	Compliant.
B41		Within three months of commencing an Independent Environmental Audit, or within another timeframe agreed by the Secretary, a copy of the audit report must be submitted to the Secretary, and any other NSW agency that requests it, together with a response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The recommendations must be implemented to the satisfaction of the Secretary.	Construction	Crown Certificate	Compliant. Aquas Audit Conducted 26/9/18
B42	Tree Protection	Prior to commencement and for the duration of works, the tree protection measures outlined in the Arboricultural Development Assessment Report, prepared by Moore Trees, dated October 2017, are to be implemented and maintained	Prior to Commencement of Works	Crown Certificate	Compliant
B43		A project arborist with AQF Level 5 qualifications must be appointed to provide monitoring and certification throughout the construction period.	Construction	Crown Certificate	Compliant
B44		Tree protection fencing for the trees to be retained must be erected around trees to be retained at a minimum distance based on the trees structural root zone.	Construction	Crown Certificate	Compliant
B45		To ensure that all tree protection measures are correctly installed, a certificate from the appointed project arborist must be submitted to the Certifying Authority confirming compliance with the tree protection requirements of this consent.	Construction	Crown Certificate	Compliant
B46	Ecologically Sustainable Development	Prior to the commencement of the construction, the Applicant must submit details of all design measures to the Certifying Authority demonstrating that the proposed new buildings incorporate ecologically sustainable development initiatives equivalent to Green Star Health Care 4 star equivalency rating, as outlined within the NSW Health Engineering Services Guideline dated 2016 and Consultant Advice Note - Mechanical and Electrical Environmental Sustainable Design prepared by Steensen Varming and dated 21 Feb 2018.	Prior to Commencement of Works	Crown Certificate	Compliant.
C. DURING CONSTRUCTION					
ITEM NO.	HEADING	SSD REQUIREMENT			
C1	Approved Plans to be On-site	A copy of the approved and certified plans, specifications and documents incorporating conditions of approval and certification must be kept on the Subject Site at all times and must be readily available for perusal by any officer of the Department, Council or the Certifying Authority.	Construction	Aconex records	Compliant.
C2	Construction Hours	a) Construction, including the delivery of materials to and from the site, may only be carried out between the following hours: i) between 7 am and 6 pm, Mondays to Fridays inclusive; and ii) between 8 am and 1 pm, Saturdays. b) No work may be carried out on Sundays or public holidays. c) Activities may be undertaken outside of these hours: i) if required by the Police or a public authority for the delivery of vehicles, plant or materials; or ii) if required in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or iii) works are inaudible at the nearest sensitive receivers; or iv) if a variation is approved in advance in writing by the Secretary or her nominee. d) Notification of any activities undertaken pursuant to condition C2(c) must be given to affected residents before undertaking the activities or as soon as is practical afterwards	Construction	Site Inductions and supervision	Compliant. Exceptions to the approved hours for extraordinary events i.e. large concrete pours have been notified to HI and previously approved by the Department, as well as community / resident notifications
C3		Rock breaking, rock hammering, sheet piling, pile driving and other noisy works may only be carried out between the following hours: a) 9 am to 12 pm, Monday to Friday; b) 2 pm to 5 pm Monday to Friday; and c) 9 am to 12 pm, Saturday.	Construction	Site Inductions and supervision	Compliant.

C4	Construction Noise Management	The development must be constructed with the aim of achieving the construction noise management levels detailed in the Interim Construction Noise Guideline (Department of Environment and Climate Change, 2009). All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and managed in accordance with the CNVMP required under condition B25.	Construction	Site inductions, supervision and weekly environmental inspections	Compliant.
C5		If the noise from a construction activity is substantially tonal or impulsive in nature (as described in Chapter 4 of the Noise Policy for Industry, 5 dB(A) must be added to the measured construction noise level when comparing the measured noise with the construction noise management levels.	Construction	Site inductions, supervision and weekly environmental inspections	Compliant.
C6		The Applicant must ensure construction vehicles do not arrive at the Subject Site or surrounding residential precincts outside of the construction hours of work outlined under condition C2.	Construction	Site inductions, supervision and weekly environmental inspections	Compliant
C7		The Applicant must schedule intra-day 'respite periods' for construction activities identified in the Interim Construction Noise Guideline (Department of Environment and Climate Change, 2009) as being particularly annoying or intrusive to noise sensitive receivers, including surrounding residents and nearby hospital buildings. These activities are to be carried out after 8 am only and over continuous periods not exceeding three hours (with at least a one hour respite every three hours).	Construction	Site inductions, supervision and weekly environmental inspections	Compliant.
C8		Wherever practical, and where sensitive receivers may be affected, piling activities are completed using bored piles. If driven piles are required they must only be installed where outlined in a CNVMP required under condition B25.	Construction	Site inductions, supervision and weekly environmental inspections	Compliant.
C9		The Applicant must implement, where practicable and without compromising the safety of construction staff or members of the public, the use of audible movement alarms of a type that would minimise noise impacts on surrounding noise sensitive receivers.	Construction	Site inductions, supervision and weekly environmental inspections	Compliant.
C10		Any noise generated during construction of the development must not be offensive noise within the meaning of the Protection of the Environment Operations Act 1997 or exceed approved noise limits for the Subject Site.	Construction	Site inductions, supervision and weekly environmental inspections + noise monitoring weekly	Compliant.
C11	Vibration Criteria	Vibration caused by the construction works at any residence or structure outside the Subject Site must be limited to: a) for structural damage vibration, German Standard DIN 4150 Part 3 Structural Vibration in Buildings, Effects on Structures; b) for human exposure to vibration, the evaluation criteria presented in British Standard BS 6872 — Guide to Evaluate Human Exposure to Vibration in Buildings (1 Hz to 80 Hz for low probability of adverse comment; c) vibratory compactors must not be used closer than 30 metres from residential buildings unless vibration monitoring confirms compliance with the vibration criteria specified above; and d) these limits apply unless otherwise outlined in the CNVMP required under condition B25 and submitted for the approval of the Certifying Authority.	Construction	Site inductions, supervision and weekly environmental inspections + vibration monitors during demolition and excavation	Compliant.
C12	Contamination	Remediation works at the site are to be undertaken in accordance with the recommendations and findings of the Remediation Action Plan prepared by Douglas Partners and dated May 2018.	Construction	Site supervision and competent excavation / demolition contractors	Compliant.
C13		Should any new information come to light during construction works which has the potential to alter previous conclusions about contamination, the Certifying Authority must be immediately notified and works must cease in the vicinity of the suspected contamination. The Certifying Authority will determine whether further investigation, or the need for remediation, is required before construction works can recommence.	Construction	Site supervision and competent excavation / demolition contractors	Compliant.
C14	Waste	All waste generated during construction must be assessed, classified and managed in accordance with the Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014).	Construction	Site inductions, geotechnical and environmental results, supervision and weekly environmental inspections	Compliant.
C15		The body of any vehicle or trailer used to transport waste or excavation spoil must be covered before leaving the premises to prevent any spillage or escape of any dust, waste of spoil, Mud, splatter, dust and other material likely to fall from or be cast off the wheels, underside or body of any vehicle, trailer or motorised plant leaving the site must be removed before leaving the premises.	Construction	Site inductions, supervision, street sweeping and weekly environmental inspections	Compliant.
C16		The Applicant must ensure that concrete waste and rinse water are not disposed of on the Subject Site and are prevented from entering any natural or artificial watercourse.	Construction	Site inductions, wash out trays, supervision and weekly environmental inspections	Compliant.
C17	Handling of Asbestos	The Applicant is to consult with SafeWork NSW concerning the handling of any asbestos waste that may be encountered during construction. The requirements of the Protection of the Environment Operations (Waste) Regulation 2014 with particular reference to Part 7 — 'Transportation and management of asbestos waste' must also be complied with.	Construction	Site inductions, supervision, licenced contractors and provision of waste / tip dockets	Compliant.
C18	Unexpected Finds — Non-Aboriginal Heritage	If any unexpected archaeological deposits/relics are discovered during construction, then all works must cease immediately in that area and the OEH Heritage Division contacted in writing. Depending on the possible significance of the discovery, an archaeological assessment and management strategy may be required before further works can continue in that area. Works may only recommence with the written approval of the OEH Heritage Division.	Construction	Site Inductions, supervision and unexpected finds protocols.	Compliant.
C19	Erosion and Sediment Control	All erosion and sediment control measures, are to be effectively implemented and maintained at or above design capacity for the duration of the construction works and until such time as all ground disturbed by the works have been stabilised and rehabilitated so that it no longer acts as a source of sediment.	Construction	Erosion and sediment control plan, weekly environmental inspections, and blue book	Compliant.
C20	Disposal of Seepage and Stormwater	Any seepage or rainwater collected on-site during construction or groundwater must not be pumped to the street stormwater system unless separate prior approval is given in writing by the relevant approval authority where necessary	Construction	Erosion and sediment control plan, weekly environmental inspections, dewatering records and blue book	Compliant.
C21	Construction Vehicles	All construction vehicles associated with the proposed development are to be contained on site, unless otherwise approved through the approval for a construction zone on the Council roadway.	Construction	Site inductions, supervision and traffic controllers	Compliant.
C22	Demolition	To protect the surrounding environment, all demolition work must be carried out in accordance with 'Australian Standard 2801-2001 — The Demolition of Structures' and the following requirements: a) Demolition material must be disposed of to an authorised recycling and/or waste disposal site and/or in accordance with an approved waste management plan; b) Demolition works, where asbestos material is being removed, must be undertaken by a contractor that holds an appropriate licence issued by WorkCover NSW in accordance with Chapter 10 of the Occupational Health and Safety Regulation 2001 and Clause 29 of the Protection of the Environment Operations (Waste) Regulation 2005; and c) On construction sites where any building contains asbestos material, a standard commercially manufactured sign containing the words 'DANGER ASBESTOS REMOVAL IN PROGRESS' and measuring not less than 400mm x 300mm must be displayed in a prominent position visible from the street.	Construction	Licensed demolition contractors, site inductions, supervision and weekly environmental inspections. Tip and waste dockets	Compliant.
C23	Site Notice	a) A site notice(s) must be prominently displayed at the boundaries of the Subject Site for the purposes of informing the public of project details including, but not limited to the details of the Builder, Certifying Authority and Structural Engineer. b) The site notice(s) is to satisfy all but not be limited to, the following requirements: i) minimum dimensions of the notice are to measure 841 mm x 594 mm (A1) with any text on the notice to be a minimum of 30 point type size; ii) the notice is to be durable and weatherproof and is to be displayed throughout the works period; iii) the approved hours of work, the name of the site/ project manager, the responsible managing company (if any), its address and 24 hour contact phone number for any inquiries, including construction/ noise complaint are to be displayed on the site notice; and iv) the notice(s) is to be mounted at eye level on the perimeter hoardings/fencing and is to state that unauthorised entry to the Subject Site is not permitted.	Construction	Weekly environmental site inspections	Compliant.
C24	Work Cover Requirements	To protect the safety of work personnel and the public, the Subject Site must be adequately secured to prevent access by unauthorised personnel, and work must be conducted at all times in accordance with relevant Work Cover requirements.	Construction	Implementation of independently certified WHS management system and processes, daily WHS inspections and weekly environmental site inspections	Compliant.
C25	Hoarding/Fencing Requirements	A temporary hoarding, fence or awning must be erected between the work site and adjoining lands before the works begin and must be kept in place until after the completion of the works if the works: a) could cause a danger, obstruction or inconvenience to pedestrian or vehicular traffic; b) could cause damage to adjoining lands by falling objects; and/or c) involve the enclosure of a public place or part of a public place.	Construction	Daily WHS inspections and weekly environmental site inspections	Compliant.
C26		The following hoarding requirements must be complied with: a) no third party advertising is permitted to be displayed on the subject hoarding/ fencing; b) the construction site manager must be responsible for the removal of all graffiti from any construction hoardings or the like within the construction area within 48 hours of its application; and c) the Applicant must submit a hoarding application to Council for the installation of any hoardings over Council footways or road reserve.	Construction	Daily WHS inspections and weekly environmental site inspections	Compliant.
C27	Access to Information	At least 48 hours before the commencement of construction until the completion of all works under this consent, or such other time as agreed by the Secretary, the Applicant must: a) make the following information and documents (as they are prepared, obtained or approved) publicly available on its website: i) the documents referred to in condition A2 of this consent; ii) all current statutory approvals for the development; iii) all approved strategies, plans and programs required under the conditions of this consent; iv) regular reporting on the environmental performance of the development in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent; v) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; vi) a summary of the current stage and progress of the development; vii) contact details to enquire about the development or to make a complaint; viii) a complaints register, updated monthly; ix) audit reports prepared as part of any independent environmental audit of the development and the Applicant's response to the recommendations in any audit report; x) any other matter required by the Secretary; and b) keep such information up to date, to the satisfaction of the Secretary. <i>Note: This condition does not require any confidential information to be made available to the public.</i>	Construction	Project website	Compliant.
C28	Incident Reporting	Within 24 hours of the occurrence of an incident that causes (or may cause) significant harm to the environment, the Applicant must notify the Secretary and any other relevant agencies of the incident in accordance with condition A18.	Construction	Incident and complaints management system	Compliant.
C29		Within seven days of the detection of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested in accordance with condition A19.	Construction	Incident and complaints management system	Compliant.

C30	Compliance Tracking and Reporting	The Applicant must provide regular (six monthly) reporting on any environmental performance required by the development consent for the development on its project website, in accordance with the reporting arrangements in any plans or other documents approved under the conditions of this consent.	Construction	Compliance reports	Compliant.
C31	Compliance	The Applicant must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.	Construction	Site Inductions and tender documentation. Records kept on site and copies on Acconex	Compliant.
C32	Building materials and Site Waste	The filling or stockpiling of building materials, the parking of vehicles or plant, the disposal of cement slurry, waste water or other contaminants must be located outside the tree protection zones as prescribed in the conditions of this consent.	Construction	Weekly environmental site inspections	Compliant.
C33	Council Property	To ensure that the public reserve is kept in a clean, tidy and safe condition during construction works, no building materials, waste, machinery or related matter is to be stored on the road or footpath.	Construction	Weekly environmental site inspections	Compliant.
C34	Excavated Material	All excavated material removed from the site must be classified by a suitably qualified person in accordance with the Department of Environment, Climate Change and Water NSW Waste Classification Guidelines prior to disposal to an approved waste management facility.	Construction	Geotechnical and environmental consultant reports, tip and waste dockets and truck registers	Compliant.
C35	Storage of Flammable and Combustible Goods	Flammable and combustible liquids must be stored in accordance with Australian Standard 1940 — The Storage and Handling of Flammable and Combustible Liquids. A bund wall must be constructed around all work and liquid storage areas to prevent any spillage entering into the stormwater system. The bunded area must provide a volume equal to 110 per cent of the largest container stored and graded to a blind sump so as to facilitate emptying and cleansing.	Construction	Weekly environmental site inspections and site inductions	Compliant.
C36	Trade Waste	Liquid trade waste generated on the site must be discharged in accordance with a trade waste agreement with Sydney Water and by a licensed liquid trade waste contractor.	Construction	Weekly environmental site inspections	Compliant.
C37	Traffic Control Plan Compliance	The development must be carried out in accordance with the Construction Management Plan prepared under this consent	Construction	Daily WHS inspections and weekly environmental site inspections	Compliant.

D. PRIOR TO OCCUPATION OR COMMENCEMENT OF USE

ITEM NO.	HEADING	SSD REQUIREMENT			
D1	Stormwater Quality Management Plan	A Stormwater Quality Management Plan (SQMP) is to be prepared to ensure proposed stormwater quality measures remain effective. The SQMP must contain the following: a) maintenance schedule of all stormwater quality treatment devices; b) record and reporting details; c) waste management and disposal; d) relevant contact information; e) renewal, decommissioning and replacement timelines and activities of all stormwater quality treatment devices; and f) Work Health and Safety requirements. Details demonstrating compliance are to be submitted for the approval of the Certifying Authority prior to occupation of the building.	Prior to Occupation / Use		Not Triggered
D2	Mechanical Ventilation	Following completion, installation and testing of all the mechanical ventilation systems, the Applicant must provide evidence for the approval of the Certifying Authority, prior to occupation of the building, that the installation and performance of the mechanical systems complies with: a) the BCA; b) AS 1668.2-2012 The use of airconditioning in buildings — Mechanical ventilation in buildings and other relevant codes; c) the development consent and any relevant modifications; and d) any dispensation granted by the NSW Fire Brigade.	Prior to Occupation / Use		Not Triggered
D3	Road Damage	The cost of repairing any damage caused to Council or other Public Authority's assets as a result of construction works associated with the approved development is to be met in full by the Applicant prior to occupation of the building.	Prior to Occupation / Use		Not Triggered
D4	Compliance Certificate	A Section 73 Compliance Certificate under the Sydney Water Act 1994 must be obtained from Sydney Water Corporation and submitted to the Certifying Authority prior to occupation of the building. Application must be made through an authorised Water Servicing Coordinator. Please refer to the "Your Business" section of the web site www.sydneywater.com.au then follow the "e-Developer" icon or telephone 13 20 92 for assistance.	Prior to Occupation / Use		Not Triggered
D5	Certification of WSUD Facilities	Prior to occupation a certificate from a Civil Engineer is to be obtained stating that the WSUD facilities have been constructed and will meet the water quality targets as specified in the Council's Development Control Plan.	Prior to Occupation / Use		Not Triggered
D6	Public Domain Works	Prior to the occupation of the building, the Applicant must submit to the Council works-as-executed plans of any public domain works. Prior to occupation of the building, the Applicant must also submit documentation to the Certifying Authority demonstrating that the works have been completed.	Prior to Occupation / Use		Not Triggered
D7	Post-construction Dilapidation Report	Prior to occupation of the building: The Applicant must engage a suitably qualified person to prepare a Post-Construction Dilapidation Report at the completion of the construction works. The report is to ascertain whether the construction works created any structural damage to adjoining buildings or infrastructure. b) The report is to be submitted for the approval of the Certifying Authority. In ascertaining whether adverse structural damage has occurred to adjoining buildings or infrastructure, the Certifying Authority must: i) compare the Post-Construction Dilapidation Report with the Pre-Construction Dilapidation Report required by these conditions; and ii) where relevant, have written confirmation from the relevant authority that there is no adverse structural damage to their infrastructure and roads. c) A copy of this report must be submitted to Council.	Prior to Occupation / Use		Not Triggered
D8	Completion of Landscaping	A certificate must be submitted to the Certifying Authority by a practicing landscape architect, horticulturalist or person with similar qualifications and experience certifying that all required landscaping works have been satisfactorily completed in accordance with the approved landscape plans. Note: Advice on suitable species for landscaping can be obtained from Council's planting guide 'Indigenous Plants for the Bushland Shire', available at www.hornsby.nsw.gov.au	Prior to Occupation / Use		Not Triggered
D9	Preservation of Survey Marks	A certificate by a Registered Surveyor must be submitted to the Certifying Authority, certifying that there has been no removal, damage, destruction, displacement or defacing of the existing survey marks in the vicinity of the proposed development or otherwise the re-establishment of damaged, removed or displaced survey marks has been undertaken in accordance with the Surveyor General's Direction No.11 — "Preservation of Survey Infrastructure". A certificate by a Registered Surveyor must be submitted to the Certifying Authority	Prior to Occupation / Use		Not Triggered
D10	Creation of Restrictions and Positive Covenants	The following matter(s) must be nominated on title under s88E of the Conveyancing Act, 1919; Application to be made to Council for Execution of Legal Documents for the following: a) The creation of an appropriate "Positive Covenant" and "Restriction as to User" over the constructed on-site detention/retention/water quality treatment systems and outlet works, within the lots in favour of Council in accordance with terms available from Council. The position of the on-site detention system(s) is to be clearly indicated on the title with a Surveyor's Sketch to accompany Dealing documentation; b) To register the on-site detention/retention/water quality treatment systems Positive Covenant and restriction on the use of land "works-as-executed" details of the on-site-detention system and water quality treatment system must be submitted verifying that the required storage and discharge rates have been constructed in accordance with the design requirements. The details must show the invert levels of the onsite system together with pipe sizes and grades. The details must be accompanied with electronic copies of all treatment systems' technical specifications and maintenance manuals. Any variations to the approved plans must be shown in red on the "works-as-executed" plan and supported by calculations. Note: Council must be nominated as the authority to release, vary or modify any easement, restriction or covenant.	Prior to Occupation / Use		Not Triggered
D11	Car Parking	All car parking must be constructed and operated in accordance with Australian Standard AS/NZS 2890.1:2004 — Off-street car parking, and Australian Standard 2890.2 - 2002 — Off-street commercial vehicle facilities and the following requirement: a) All parking areas and driveways are to be sealed to an all-weather standard, line marked and signposted. b) Car parking, loading and manoeuvring areas to be used solely for nominated purposes. c) Vehicles awaiting loading, unloading or servicing shall be parked on site and not on adjacent or nearby public roads; and d) All vehicular entry on to the site and egress from the site shall be made in a forward direction.	Prior to Occupation / Use		Not Triggered
D12	Remediation	The Applicant must submit to the Certifying Authority a Site Audit Report and Site Audit Statement prepared by an EPA accredited site auditor, prior to occupation of the building. The Site Audit Report and Site Audit Statement must verify that the land is suitable for the uses proposed as part of this consent.	Prior to Occupation / Use		Not Triggered
D13	Fire Safety Certification	Prior to occupation of the building and if required, a Fire Safety Certificate must be obtained for all the Essential Fire or Other Safety Measures forming part of this consent. A copy of the Fire Safety Certificate must be submitted to the relevant authority and Council. The Fire Safety Certificate must be prominently displayed in the building.	Prior to Occupation / Use		Not Triggered
D14	Structural Inspection Certificate	A Structural Inspection Certificate or a Compliance Certificate must be submitted for the approval of the Certifying Authority prior to occupation of the building. A copy of the Certificate with an electronic set of final drawings (contact approval authority for specific electronic format) must be submitted to the Secretary and Council after: a) the site has been periodically inspected and the Certifier is satisfied that the structural works are deemed to comply with the final design drawings; and b) the drawings listed on the Inspection Certificate have been checked with those listed on the final Design Certificate's.	Prior to Occupation / Use		Not Triggered
D15	Signage	Wayfinding signage must be integrated at all entry and exit points and is to be installed prior to occupation of the building.	Prior to Occupation / Use		Not Triggered
D16	Surveillance	CCTV and suitable lighting must be provided on the external perimeter of the building prior to occupation of the building.	Prior to Occupation / Use		Not Triggered
D17	External Walls and Cladding	The external walls of the building, including additions to existing buildings, must comply with the relevant requirements of the NCC. Prior to occupation, the Applicant must provide the Certifying Authority with documented evidence that the products and systems used in the construction of external walls, including finishes and claddings such as synthetic or aluminium composite panels, comply with the relevant requirements of the NCC as built. The applicant must provide a copy of the documentation given to the Certifying Authority to the Secretary within seven days after the Certifying Authority accepts it.	Prior to Occupation / Use		Not Triggered

E. POST OCCUPATION

ITEM NO.	HEADING	SSD REQUIREMENT			
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E1	Plant and Equipment	All plant and equipment used on site, or to monitor the performance of the development must be: a) maintained in a proper and efficient condition; and b) operated in a proper and efficient manner.	Post Occupation		Not Triggered
E2	Noise Control – Operation	Noise associated with the operation of the site, including any plant, machinery or other equipment, must not exceed: a) 40 dB LA eq (15 minute) when measured at the boundary of any sensitive receiver along Burdett Street, Hornsby; b) 35 dB LA eq (15 minute) when measured at the boundary of any sensitive receiver along Derby Road, Hornsby; and c) 39 dB LA eq (15 minute) when measured at the boundary of any sensitive receiver along Palmerston Road, Hornsby.	Post Occupation		Not Triggered
E3		The Applicant must undertake noise monitoring of mechanical plant and equipment, to collect valid data and provide a quantitative assessment of operational noise impacts following the occupation of the building. The noise monitoring must be carried out by an appropriately qualified person and a monitoring report must be submitted to the Secretary within three months of full occupation of the Subject Site to verify that operational noise levels comply with condition E2 and incorporate relevant measures as required by condition B15.	Post Occupation		Not Triggered
E4		Should the short-term noise monitoring required under condition E3 identify any exceedance of the project specific noise levels in condition E2, the Applicant must implement additional appropriate on-site noise attenuation measures to ensure operational noise levels do not exceed these levels and/or provide noise attenuation measures at the affected noise sensitive receivers. The implementation of noise attenuation measures, either on-site or at the affected receiver(s), must be provided within three months of the completion of the short-term noise monitoring required under condition E3, or other appropriate time period as agreed by the Secretary.	Post Occupation		Not Triggered
E5	Green Travel Plan	As part of the ongoing operation of the hospital, the actions and recommendations identified in the Green Travel Plan at Appendix N of the Environmental Impact Statement for Hornsby Ku-ring-gai Hospital Campus Stage 2, prepared by Taylor Thomson Whiting (NSW) Pty Ltd (24 October 2017), must be implemented accordingly and updated on a regular basis.	Post Occupation		Not Triggered
E6	Public Way to be Unobstructed	The public way must not be obstructed by any materials, vehicles, refuse, skips or the like under any circumstances.	Post Occupation		Not Triggered
E7	Landscape Establishment	The landscape works must be maintained until establishment and successful growth of plant material to meet the intent of the landscape design. This must include but not be limited to watering, weeding, replacement of failed plant material and promoting the growth of plants through standard industry practices.	Post Occupation		Not Triggered
E8	External Lighting	External Lighting must comply with AS 4282: 1997 Control of Obtrusive Effects of Outdoor Lighting. Upon installation of lighting, but before it is finally commissioned, the Applicant must submit to the Certifying Authority evidence from a qualified practitioner demonstrating compliance in accordance with this condition.	Post Occupation		Not Triggered
E9	Loading and Unloading	All loading and unloading of service vehicles in connection with these premises must be carried out within the designating loading and unloading areas at all times and between 7am and 6pm Monday to Saturday, and 8am and 6pm Sundays and public holidays.	Post Occupation		Not Triggered
ADVISORY NOTES					
ITEM NO.	HEADING	SSD REQUIREMENT			
AN1	Appeals	The Applicant has the right to appeal to the Land and Environment Court in the manner set out in the EP&A Act and the EP&A Regulation (as amended).	Note Only		Note Only
AN2	Other Approvals and Permits	The Applicant must apply to the relevant authority for all necessary permits including crane permits, road opening permits, hoarding or scaffolding permits, footpath occupation permits and/or any other approvals under Section 68 (Approvals) of the Local Government Act 1993 or Section 138 of the Roads Act 1993.	Throughout		Compliant.
AN3	Responsibility for other consents / agreements	The Applicant is solely responsible for ensuring that all additional consents and agreements are obtained from other authorities, as relevant.	Throughout		Compliant.
AN4	Use of Mobile Cranes	The Applicant must obtain all necessary permits required for the use of mobile cranes on or surrounding the Subject Site, including from the Civil Aviation Safety Authority, prior to the commencement of works. In particular, the following matters must be complied with: a) For special operations including the delivery of materials, hoisting of plant and equipment and erection and dismantling of on-site tower cranes which warrant the on street use of mobile cranes, permits must be obtained from Council; i) At least 48 hours prior to the works for partial road closures which, in the opinion of Council will create minimal traffic disruptions, and ii) At least four weeks prior to the works for full road closures and partial road closures which, in the opinion of Council, will create significant traffic disruptions. b) The use of mobile cranes must comply with the approved hours of construction and must not be delivered to the site prior to the approved construction hours without the prior approval of Council.	Construction		Compliant.
AN5	Temporary Structures	Unless otherwise declared as exempt development under State Environmental Planning Policy (Educational Establishment and Child Care Facilities) 2017 or State Environmental Planning Policy (Exempt and Complying Development Codes) 2008: a) An approval under State Environmental Planning Policy (Temporary Structures) 2007 must be obtained from the Council for the erection of the temporary structures. The application must be supported by a report detailing compliance with the provisions of the BCA. b) Structural certification from an appropriately qualified practicing structural engineer must be submitted to the Council with the application under State Environmental Planning Policy (Temporary Structures) 2007 to certify the structural adequacy of the design of the temporary structures. c) Should the height of any temporary structure and/or equipment (including mobile cranes) be greater than 45.72 metres above existing ground level, approval must be sought in accordance with the Civil Aviation (Buildings Control) Regulation 1988, prior to the commencement of above ground works.	Throughout		Compliant.
AN6	Disability Discrimination Act	This application has been assessed in accordance with the EP&A Act. No guarantee is given that the proposal complies with the Disability Discrimination Act 1992. The Applicant is responsible to ensure compliance with this and other anti-discrimination legislation. The Disability Discrimination Act 1992 covers disabilities not catered for in the minimum standards called up in the BCA which references AS 1428.1 - Design for Access and Mobility. AS1428 Parts 2, 3 & 4 provides the most comprehensive technical guidance under the Disability Discrimination Act 1992 currently available in Australia.	Throughout		Compliant.
AN7	Commonwealth Environment Protection and Biodiversity Conservation Act 1999	a) The Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) provides that a person must not take an action which has, will have, or is likely to have a significant impact on a matter of national environmental significance matter, or Commonwealth land, without an approval from the Commonwealth Environment Minister. b) This application has been assessed in accordance with the EP&A Act. The determination of this assessment has not involved any assessment of the application of the Commonwealth legislation. It is the Applicant's responsibility to consult the Department of Sustainability, Environment, Water, Population and Communities to determine the need or otherwise for Commonwealth approval and you should not construe this grant of approval as notification to you that the EPBC Act does not have application. The EPBC Act may have application and you should obtain advice about this matter. There are severe penalties for non-compliance with the Commonwealth legislation.	Throughout		Compliant.
AN8	Asbestos Removal	All excavation and demolition works involving the removal and disposal of asbestos must only be undertaken by contractors who hold a current WorkCover Asbestos or "Demolition Licence" and a current WorkCover "Class 2 (Restricted) Asbestos Licence and removal must be carried out in accordance with NOHSC: "Code of Practice for the Safe Removal of Asbestos".	Construction		Compliant.
AN9	Site contamination issues during construction	Should any new information come to light during demolition or construction works which has the potential to alter previous conclusions about site contamination then the Applicant must be immediately notified and works must cease. Works must not recommence on site until the consultation is made with the Certifying Authority.	Construction		Compliant.

Appendix B – Projects Complaints and Incident Register

PROJECT COMPLAINT AND INCIDENT REGISTER									
Date	Complain/Incident Description	Source / Contact	Action / Rectification	Client Advised	CAR Req'd	CAR Closed	Recorded By	Status	
4/07/2018	Phone call received by N Limbrey from Helen of 6 Derby Road Hornsby at 10:03am. Resident of 53 years. 10 minute phone conversation regarding; 1. Low hanging aerial consumer cabling servicing her property - she is willing to take up with her providers if necessary, although reassurance was provided that the cabling was not struck during the STAR construction or other works. 2. Lack of consultation regarding the project, especially the appearance of the building from the eastern elevation / loss of sun and daylight 3. Parking and traffic concerns during construction 4. Various grievances regarding the STAR including; a. garbage smells, b. linen and food trucks and general loading dock activities c. her car was damaged by plastic jersey barriers during the STAR construction 5. Was querying whether a Helipad would be installed. She is generally disgruntled and feeling unconsulted. She would appreciate return contact and someone to come and see her regarding her grievances above and provide copies of plans / elevations of the eastern side of Stage 2 including materiality and setback from the road.	Helen 6 Derby Road 9487 1563	Discussed with S. Jeffrey (APP) 10:15am. Noted and passed onto HI / LHD communications officer.	Yes 10:15am 4th July 2018.	No	-	NL	CLOSED	15/2/19 following discussion between HI Comms Manager and Helen
14/09/2018	Alleged traffic accident off site involving truck (LandTrak) and other vehicle at Alexandria Pde Rail Bridge, Waitara. Lady attended site at 7:10am having followed truck to site after allegedly having had an accident with the truck, who failed to stop.	C Scott (WTP) Mick (Delta)	Details taken of both drivers and vehicles, and matter deferred to Police and insurers. Matter resolved via insurance between parties.	No	No	-	NL	CLOSED	Resolved with insurers
20/09/2018	Complaint received from Maternity Department via Anthony Pezzutto regarding alleged foul language and loud music playing adjacent to maternity dept windows.	Anthony Pezzutto (NSLHD)	Include prohibition of foul language and use of radios in daily prestart and toolbox talk. Put signs up in area reminding workers to be conscious of language and unnecessary noise. MATTER CLOSED - ONGOING MONITORING TO CONTINUE	Yes	No	-	NL	CLOSED	Ongoing monitoring required
27/11/2018	Phone call received at 9:33am from resident of 8 Derby Road, complaining that construction workers were smoking on her nature strip / out of the front of her property. Concerns raised regarding health of her asthmatic children, and leaving cigarette butts on the lawn / gutter	Resident 8 Derby Rd (female) Private ph. No.	Addressed immediately with Traffic Controllers, who will continue to police the situation and remind construction workers. Establish designated 'smoking' area on site side of the road (outside hospital campus), with butt-bin. Included in whole-site toolbox talk. MATTER CLOSED - MONITORING TO CONTINUE.	No	No	-	NL	CLOSED	Ongoing monitoring required
21/01/2019	Email received from Dept. Planning via Health Infrastructure regarding working hours, stating: The complainant stated, on 18 January 2019, that the "construction work commenced at 5:52 am, which is contrary to the condition of Consent. In accordance with Condition C2 of the Consent, construction hours, including the delivery of materials to and from the site, may only be carried out between 7 am and 6 pm Monday to Friday and between 8am and 1pm on Saturdays.	Josh Sharfegger - Health Infrastructure	Written response provided to Dept. Planning and HI 21 Jan 2019, stating that workers decided to commence works early due to forecast extreme heat conditions. Whole of site reminded via daily Pre-Start meeting and whole site toolbox talk. MATTER CLOSED.	Yes	No	-	NL	CLOSED	
12/02/2019	Concrete splatter concrete pumping and clean out activities on site were sprayed beyond the confines of the site perimeter fence, onto the adjacent roof of Building 54.	Anthony Pezzutto (NSLHD)	Detailed incident investigation and corrective actions, including consultation with workers, change in work method and cleaning of affected roof area	Yes	-	-	NL	CLOSED	
26/04/2019	1. Anonymous complainant: Builders are arriving on site by 5am. Noise from cars and radios and talking. Rubbish left all over road. Work is starting at 6 or 6:30. 2. Complainant: Antony Milich – 0458 856 482 - Workers are leaving and arriving at the back of hospital at 4am making a lot of noise waking up residents across the road.	Jessica Addison Hornsby Shire Council p 02 9847 6829 e jaddison@horn sby.nsw.gov.au	Response provided to Council and Certifier; 1. Reponse provided, and workforce reminded about early arrival to site. Will continue to monitor and police the matter. 2. determined that likely cause of the complaint was not construction workers, but personnel coming to the hospital to refill bulk gas supply tanks and adjacent loading dock area.	Yes	No	-	NL	CLOSED	

Appendix C – AQUAS Environmental Audit No. 3 dated 26 June 2019

Hornsby Ku-Ring-Gai Hospital Redevelopment Stage 2 Environmental Audit No. 3



Assessment of Watpac's Environmental Management System Compliance Against ISO14001: 2015 and Project Conditions of Consent

Audit Reference:	AQ1236.03
Audit Organisation:	Watpac Pty Ltd
Auditor:	Luis Garzon, AQUAS
Date of Audit:	26 June 2019
Draft Report Submitted:	16 July 2019
Final Report Submitted:	23 July 2019

Amendment, Distribution & Authorisation Record

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This report has been prepared and reviewed in accordance with our Quality control system.

This report has been prepared by:

Luis Garzon
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Date: 23/07/2019

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1. Executive Summary

This report details the findings of the third Environmental audit of the construction works undertaken by Watpac for the Hornsby Ku-Ring-Gai Hospital Redevelopment Stage 2. Construction activities since the previous Environmental audit included:

- Medical Imaging services rough-in is progressing
- Paediatrics and Stage 2 services installations are continuing on Southern portion of the Building
- Internal fit out works are continuing and waterproofing to the wet areas has been completed within the MI Building
- Façade and glazing installation for the Medical Imaging Building is progressing, as well as commencement of the installation to the Stage 2 Building
- Installation of plant within Level 3 plant room is nearing completion, as well as the progression of the MI Communications Room within the HOPE Building
- Level 0 Bulk and excavation of Electrical Service pit progressed
- Stage 2 Building concrete pour progress:
 - Site southern portion has topped out with Level 6 being complete
 - Northern portion, Level 2 has been poured with formwork to Level 3 and second portion of Level 0 commenced
- Stairs and lifts adjacent to the STAR building are complete; Lift Cores adjacent to the north-west adjacent current Building 2 are poured to Level 2.

Watpac is the nominated Principal Contractor for the project and is responsible for the management of environmental aspects associated with the construction works.

The audit was conducted by AQUAS on 26th June 2019 and reviewed implementation of Watpac's Environmental Management System against the requirements of the AS/NZS ISO 14001: 2015 Standard and the requirements of the Project Development Consent SSD 8647.

This audit confirmed that Watpac continues to address the environmental requirements of the Conditions of Consent for current site activities. The significant environmental aspects have been identified and appropriate controls have been implemented, consistent with the current works and conditions of the site. Compliance with the obligations was demonstrated during the site walk and through maintenance of the required documentation and various records including crown certificates, inspection reports, dockets, correspondence, etc. Environmental documentation was available, including the Project Environmental Management Plan, Noise & Vibration, Erosion and Sedimentation, Waste, Traffic Management Plans and other sub-Plans. There was evidence of inductions and regular toolbox talks to maintain environmental awareness of all workers at the site.

The implementation of environmental controls included suitable signage, noise and vibration controls, compliance with working hours, waste management, erosion and sedimentation measures, traffic controls and ongoing site monitoring.

Communication means have been established to allow for community enquiries, feedback and complaints. Communications occur with the Hospital and other stakeholders on a regular basis and as required. Watpac has submitted the first Construction Compliance Report to the Department of Planning in January 2019. The second Construction Compliance Report will be submitted in July 2019.

No environmental incidents have occurred so far and no non-conformances have been raised.

One (1) opportunity for improvement were raised during the audit. The details of the audit process and findings are detailed in the following sections of this report.

2. Audit Scope and Objectives

2.1 Objective and scope of this Audit

This audit was conducted to confirm compliance of the Watpac Environmental Management Plan and its implementation against the requirements of the Standard AS/NZS ISO 14001:2015 and applicable requirements of the Development Consent SSD 8647 for the Hornsby Ku-Ring-Gai Hospital Stage 2 Redevelopment Project.

2.2 Scope of Audit

The audit reviewed Watpac's implementation of their Environmental Management System for the construction activities currently taking place as part of the Hospital Stage 2 redevelopment project.

2.3 Date and Location of Audit

The audit was conducted on 26th June 2019 at the Hornsby Ku-Ring-Gai Hospital Stage 2 site – Palmerston Rd, Hornsby NSW 2077.

3. Audit Methodology

3.1 Opening Meeting

An opening meeting was held with personnel from APP Corporation, Watpac and AQUAS as per the Audit Attendance Sheet (see **Appendix A**) on 26th June 2019 at 8:30am.

Key items were discussed as follows:

- Confirmation of the purpose and scope of the audit.
- Overview of the Project and current status of the works.
- Occurrence of Environmental incidents.
- Overview of the audit process in accordance with the proposed Audit Program.

3.2 Audit Process

The audit commenced with a site walk where status of construction works and relevant environmental controls in place were observed. The site walk was followed by review of records and general discussions with Watpac staff for verification of the Environmental Management System implementation on the project.

Name and position of persons interviewed:

Name	Organisation	Position
Travis Searle	Watpac	Senior Project Engineer
Nick Limbrey	Watpac	Project Manager
Helena Veljovic	Watpac	Environmental Manager/ Cadet

Details of the outcomes of the review can be found in the completed Audit Checklist (see **Appendix B**).

3.3 Audit Criteria

The following audit criteria/ratings were used for the rating of audit findings.

Audit Findings Rating	
N-Major	– Major Non-Conformance
N-Minor	– Minor Non-Conformance
OFI	– Opportunity for Improvement
NA	– Not Triggered/Not Applicable

3.4 Closing Meeting

The closing meeting was held on 26th June 2019 at 3:15pm with representatives of APP Corporation, Watpac and AQUAS. General feedback and the findings of the audit were discussed during the closing meeting.

AQUAS auditors acknowledged the cooperation, openness and hospitality of Watpac staff during the conduct of this audit.

4. Audit Findings

4.1 Audit Overview

The audit determined that Watpac has well implemented controls for environmental management within the construction activities currently being undertaken. One Opportunity for Improvement (OFI) was raised during this audit. The following is an overview of key Environmental areas reviewed in this audit:

4.1.1 Environmental Policy

- An Environmental Policy was in place, dated 1/07/2016. The policy is communicated to staff during inductions and is available on the Watpac website.
- The Project Environmental Management Plan (PEMP) outlines environmental objectives and targets.
- Objectives and targets are measurable and communicated, and achievement of these is being evaluated.

4.1.2 Leadership, Planning and Resources

- The organisational chart Rev. 8 was available for the project reflecting current staff and main roles and responsibilities were outlined in the PEMP.
- Resources are allocated to the project as required. A number of trades work on different activities, e.g. demolition, plumbing, concreting, waste removal, traffic controlling, etc.
- The PEMP contains detailed information of the relevant environmental aspects, impacts and controls. Information is reviewed periodically as part of the six-monthly PEMP reviews (last in January 2019).
- A legal requirements register is in place with general project requirements. The aspects identified in the PEMP have a section where legal requirements are referenced.
- Compliance with BCA requirements, as included in various sections of the SSD, was verified through records of various design certificates and Crown Certificates issued by the Certifying Authority (Blackett Maguire + Goldsmith).

4.1.3 Support

- All employees and subcontractors are required to undertake a site induction, which contains awareness of environmental measures to be considered during construction.
- Weekly Toolbox Talks are conducted to maintain ongoing awareness of safety and environmental matters onsite.
- Internal and external communications are managed through email, regular internal, subcontractor and client meetings, Aconex transmittals, etc. Community communications, e.g. letterbox drops are sent out as required.
- Communications with the Hospital is generally managed through the DWN (Disruption Works Notice) system. DWNs are used to advise of any construction works taking place that will affect the hospital operations.
- A Project Environmental Management Plan (PEMP), Environmental sub-Plans and other environmental documentation were in place to support the operation of the project. These have been submitted to the Certifying Authority, the Department and Council, as required.
- Relevant environmental records are maintained in different ways, e.g. hard copies in folders, stored in the Aconex System and/or filed in the office shared drive.

4.1.4 Operation

- Maintenance of plant and equipment used onsite is controlled through a mobile App. Service and calibration records were available.
- Site signage was in place with information about the Builder, the Certifying Authority, Architect and the Structural Engineer and project contact information.
- After replacement of the bulk oxygen tank by HealthShare communication has been sent to the Hospital noting the need to update their emergency procedures to reflect the changes, as per SSD Condition B7.
- Dilapidation reports were prepared and are made available on the project website.
- Trees had been removed as per the Arborist report. Further controls for tree protection will be implemented later in the project.
- Hours of work are as per the Development Consent, with any adjustments pre-approved by the department.
- A Construction Noise and Vibration Management Plan was available. Controls were in place for noise mitigation including plant that requires low use of reverse alarms and use of plywood panels.
- Noise monitoring was conducted, and communication with Hospital and other sensitive receivers was managed for any exceedances. It was suggested to extend the monitoring period for noise monitoring at the required locations – [OFI-01](#).
- Waste classification is outlined in the Waste Management Plan – Waste Streams report by Grass Hopper was available. The target for recycling is 80% or more (by weight) which has been achieved by Watpac.
- Bins and containers for different waste types were available throughout the site.
- Concrete washout and washout bays were seen in various locations (e.g. 3 bins, one for wash and 2 for filtration).
- Demolition activities involving ACM had been finalised for the current site works. Relevant records for the removal and disposition by a licenced contractor were available.
- Erosion and sedimentation controls were in place around the site, including sandbags around drains, straw wattles and silt fencing.
- A water cart sprays water for dust control during dry days – not seen during site walk.
- A rumble grid for removal of dirt from truck wheels was available during earthworks phases.
- A mix of solid hoardings and fencing was installed in the perimeter of the site and monitored to ensure good condition and absence of graffiti and advertising material.

- Storage of dangerous goods was not observed during this audit, the contractor using them had finished works onsite.
- Watpac has prepared an Emergency Response Plan which includes a number of emergency scenarios and actions to follow for each one of them. There are levels of communication with the Hospital in the event of an emergency.
- The Emergency Plan is periodically reviewed and revised as the site layout changes over time.
- Spill kits were available onsite.

4.1.5 Performance Evaluation

- Environmental inspections are conducted by the contractor weekly. Inspection reports were available.
- Calibration records for vibration monitors and other equipment were in place.
- The first Construction Compliance Report for the Department of Planning was prepared and submitted in January 2019, as per the Condition of Consent. The second Construction Compliance Report was being prepared for submission in July 2019.
- Project information has been provided and published in the NSLHD and Health Infrastructure websites.

4.1.6 Improvement

- A Corrective Actions Register and Corrective Action Report form were available, and corrective actions are raised as necessary.
- No environmental non-compliances have been identified so far in the project.
- There is a 24-hour enquiries number and email address in the signage outside the worksite available for the community.
- A Complaints Register is available where information about the complaints is recorded including resolution reached.
- No environmental incidents have occurred so far in the project.

4.2 Identified Findings

The table below outlines the findings raised during the audit:

Finding No.	Ref.	Finding	Comment/ Recommendation
OFI-01	SSD Cl. C4	Monitoring is done weekly as part of environmental inspections. Currently the monitoring is done for 45 seconds rather than 15 min. as specified in the CNVMP.	Consider conducting noise monitoring for a longer period, e.g. 2minutes, in order to get

5. Conclusion

This audit was completed to assess the environmental controls established by Watpac against the requirements of the Development Consent for the project. The audit confirmed that Watpac has implemented its Environmental Management System to a satisfactory level and only one opportunity for improvement was identified as part of the review.

The following table summarises the audit findings by rating category:

Findings Rating	Findings
Major Non-Conformance	0

Findings Rating	Findings
Minor Non-Conformance	0
Opportunity for Improvement	1

It is suggested Watpac takes the feedback from this audit as an opportunity to make improvements in Environmental performance during the progress of the Project.

Appendix A. [Audit Attendance Sheet]

Audit Attendance Sheet



PROJECT: Hornsby Hospital Stage 2 AUDIT No.: 3

AUDITEE: Watpac Construction LEAD AUDITOR: Luis Garzon

MEETING LOCATION: APP site office

OPENING MEETING DATE AND TIME: 26/6/19 8:30 am

CLOSING MEETING DATE AND TIME: 26/6/19 3:15 pm

NAME	ORGANISATION	POSITION	SIGNATURE	
			OPENING MEETING	CLOSING MEETING
Luis Garzon	AQUAS	Auditor	<i>Lg.</i>	<i>Lg.</i>
Brend Embery	APP	PM	<i>B.E.</i>	<i>B.E.</i>
Miami Varehs	APP	APM	<i>M.V.</i>	—
Helena Vejovic	Watpac	Cadet	<i>H.V.</i>	—
Nick Limbley	WATPAC	PROJECT MANAGER	<i>N.L.</i>	—
Travis SEARLE	WATPAC	SENIOR PROJECT ENGINEER	<i>T.S.</i>	<i>T.S.</i>

Appendix B. [Audit Checklist]

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
1.0	Environmental Policy (5.2)			
1.1	5.2	The Contractor has an Environmental policy authorised by top management. It includes: <ul style="list-style-type: none"> - commitment to continual improvement and prevention of pollution - commitment to comply with applicable legal and other requirements 	Policy sighted 1/7/2016	Y
1.2	5.2	The policy is communicated to all persons working for or on behalf of the organisation	Done through inductions and displayed in site office	Y
1.3	5.2	The policy is available to the public	Available in the Watpac website and site office.	Y
1.4	Environmental Objectives and planning to achieve them (6.2)			
1.5	6.2.1	The Contractor has documented Environmental objectives and targets for relevant functions and levels of the project. The objectives and targets are consistent with the environmental policy, including the commitment to: <ul style="list-style-type: none"> - prevention of pollution - compliance with applicable legal and other requirements - continual improvement 	PEMP Sec. 5 – key indicators for each of the aspects; 2.3 – KPIs. Objectives address prevention of pollution and compliance with applicable legal and other requirements.	Y
1.6	6.2.1	The objectives and targets are <ul style="list-style-type: none"> - measurable, where practicable - communicated 	Objectives are measurable. These are communicated through the use of the plan (see checklist item above).	Y
1.7	6.2.2	The Contractor has established, implemented and maintained a plan(s) for achieving its objectives and targets	Achievement of objectives and targets through the implementation of the PEMP, and review generally done through inspections and audits. High level monitoring of KPIs in Section 2.3 of the PEMP. Monthly report sent to APP and HI with results of KPIs, e.g. Sighted Master Recycling report – Target recycling is >80% (PEMP 5.10) and report shows 84% accumulated.	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
2.0	Leadership (5.0), Planning (6.0) and Resources (7.1)			
2.1	Resources, roles, responsibility and authority (5.3)			
2.2	7.1	The Contractor has identified and provided the resources required to implement the EMS for the project, including: <ul style="list-style-type: none"> - human resources and specialised skills – Org Chart - technology & financial resources 	Presented Project Organisational Chart Rev. 8 . A new revision was issued 24 June 2019, reflecting recent changes. Resources were in place, as noted during the audit process.	Y
2.3	5.3	Roles, responsibility and authority have been defined, documented and communicated in order to facilitate environmental management.	Position descriptions available for each employee. PEMP Section 3.2 outlines environmental responsibilities for key roles, e.g. <ul style="list-style-type: none"> - Construction/Operations Manager - Quality and Environmental Manager – 3 nationally - Project Manager - Project Environmental Coordinator - Site Manager - Foreman - Direct labour - Subcontractors 	Y
2.4	-	A management representative(s) has been appointed by the Contractor and has defined roles, responsibilities and the authority for: <ol style="list-style-type: none"> ensuring the EMS is established, implemented and maintained in accordance with the Standard reporting to top management on EMS performance for review, including recommendations for improvement 	Project Manager / QSE Manager, assisted by Project Cadet as required.	Y
2.5	Environmental aspects (6.1.2)			
2.6	6.1.2	The Contractor has identified the environmental aspects of its activities, products and services – and those with significant environmental impacts. This has considered planned or new developments, or new or modified activities, products and services.	PEMP Section 5 – Environmental aspects. Sec. 5.3 lists the 'significant' aspects. Sighted Environmental Risk Assessment – analysed all possible risks, some standard for all projects, some specific 12/3/2018 (Appendix 6.2). The format for each aspect includes: <ul style="list-style-type: none"> - Objective - KPI - Actions / strategy 	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
2.7	6.1.2	The Contractor has documented this information and kept it up to date – Aspects/Impacts Register	All documented (see checklist item above). Section 2.2 refers to continuous improvement through reviews and audits; Sections 2.3 and 5.3 refer to 6-monthly reviews, or as required. PEMP Appendix 6.2 shows an Environmental Risk Assessment	Y
2.8	Compliance Obligations (6.1.3)			
2.9	6.1.3	The Contractor has identified all legal and other requirements relevant to its environmental aspects and how they apply to the project.	<ul style="list-style-type: none"> - Legal Requirements Register in Appendix 6.6 has the general requirements for projects (for reference). - PEMP Section 5, under each of the listed aspects has as legal reference. 	Y
2.10	6.1.3	The Contractor has procedures for periodically evaluating compliance with applicable legal requirements. Records of the results of periodic evaluations are maintained	Benchmark requirements against SSD conditions, conduct weekly environmental inspections. Changes are made in the PEMP if required.	Y
2.11	6.1.3 9.1.2	The Contractor periodically evaluates compliance with other requirements to which it subscribes, and keeps records of the results of evaluations.	Six monthly evaluation, e.g. Construction Compliance Reports against SSD conditions – First one done January 2019, and the next report due in July 2019.	Y
2.12	A9, A10	If directed by the Planning Secretary, the Contractor has ensured compliance with updated or revised versions of applicable guidelines, protocols, Standards or policies referenced in the Conditions of Consent (otherwise compliance is required with any referenced guidelines, protocols, Standards or policies in the form they are in as at the date of this consent).	<p>Not Triggered. Note: Watpac consulted about compliance with newer requirements regarding cladding and were not required.</p> <p>Noted that the BCA Code 2016 has been updated, but project works to that one.</p>	NA
2.13	A8	Structural Adequacy – All new buildings and structures, and any alterations or additions that are part of the development, must be constructed in accordance with the relevant requirements of the BCA	<p>Has Blackett Maguire and Goldsmith Certificates – two 12/07/2018 and 11/10/2018.</p> <p>New Crown Certificates received covers 30/4/19 for remaining works (CC3), including extension of Emergency Dept, front of house and others.</p>	Y
2.14	B9	The Contractor has ensured works are designed and constructed to provide access and facilities for people with a disability in accordance with the BCA. The Certifying Authority must ensure that evidence of compliance with this condition from an appropriately qualified person is provided and that the requirements are referenced on any certified plans.	<p>Blackett Maguire is the Certifying Authority.</p> <p>iAccess consultants provided a report 25 September 2017 with all the provisions for DDA requirements. This forms part of submission to the certifying authority for certification, e.g. Crown Certificate 3</p>	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
			references it (revision of 25/02/2019 of the iAccess Report – with design changes incorporated).	
2.15	B13	<p>Structural Drawings</p> <p>Prior to commencement of works, the Applicant must submit for approval of the Certifying Authority structural drawings prepared and signed by a suitably qualified practising Structural Engineer that demonstrates compliance with:</p> <p>a) the relevant clauses of the BCA; and</p> <p>b) this development consent.</p>	<p>BCA Crown Certificate references the SSD 12/07/2018 Blackett Maguire and Goldsmith – drawings and other docs received (e.g. certifications)</p> <p>BCA Crown Certificate 2 of 11/10/2018 – sighted certificate with drawings and structural adequacy.</p> <p>Crown Certificate 3 of 30/4/19 includes any remaining drawings.</p>	Y
2.16	B15	All mechanical ventilation systems must be installed in accordance with Part F4.5 of the BCA and must comply with the AS 1668.2-2012. Details must be submitted for approval of the Certifying Authority prior to commencement of the relevant works.	<p>Permanent design item, done to BCA and relevant Australian Standards.</p> <ul style="list-style-type: none"> - Item 19 of Crown Certificate - Item 7 of Crown Certificate <p>Dewpoint Report of 6/2/2019 has references to SSD conditions B15, B16 and others (part of Crown Cert. 3).</p>	Y
2.17	B16	The installation, operation and maintenance of warm water systems and water cooling systems must comply with the Public Health Act 2010, Public Health Reg. 2012 and Pts 1 and 2 (or Pt 3 if a Performance-based water cooling system) of AS/NZS 3666.2:2011 Air handling and water systems of buildings - Microbial control - Operation and maintenance and the NSW Health Code of Practice for the Control of Legionnaires' Disease.	Addressed in Crown Cert 3 (as above). Cooling towers have been installed, not yet commissioned (will be for next audit).	Y
3.0	Support (7.0)			
3.1	Competency, training and awareness (7.2, 7.3)			
3.2	7.2	<p>The Contractor has ensured that employees and subcontractors are competent on the basis of appropriate education, training or experience.</p> <p>Relevant training and competency records have been retained.</p>	<p>HR recruitment process managed by head office.</p> <ul style="list-style-type: none"> - Subcontractors competencies managed tendering process – selection of qualified personnel – questionnaire to be completed. - Have monthly D&A training for newcomers. - Domestic violence training - Have done water proofing training - Spill kit training, e.g. sighted certificate for H. Veljovic (traffic controllers, site supervisors and engineering team) - Confined space awareness (6 staff, office and site staff) 	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
			Some training is inhouse, other is with trainers. Has approx. 20 subcontractors at this stage, e.g. Demolition, Plumbers, ACI, Concreters, etc.	
3.3	7.3	The Contractor has established a procedure to provide awareness to employees and subcontractors on: <ol style="list-style-type: none"> the importance of conformity with the environmental policy, procedures and requirements of the EMS the significant environmental aspects and related actual or potential impacts associated with their work, and the environmental benefits of improved personal performance, their roles and responsibilities in achieving conformity with the EMS the potential consequences of not following the relevant procedures. 	Go through induction for all staff. Includes working hours, hazardous substances, emergencies, lighting, and other specific environmental elements Sighted site induction. (same as online, some when new staff come to site). Environmental site rules sighted, e.g. no hot works within 6m of gas cylinders. Have some subcontractors providing training in other language e.g. partition and façade contractor delivered training in Chinese. Toolbox talks every Monday (whole site) and daily pre-start (3D safety app) e.g. TT 1/4/19 delivered by A. Napper, discussed slab on ground pour, dewater of work areas, roof sheets, etc.; signed by all attendees (2 pages). An extra TT done on 2/4/19 due to a safety incident on another project.	Y
3.4	C31	The Contractor must ensure that all of its employees, contractors (and their subcontractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.	Apart from inductions and Toolbox Talks there is the provision of the SSD and the requirement to comply with all applicable requirements in the project documentation for the subcontractors. Sighted Scope of Works in the contract for Delta, dated 17/7/2018, which references the SSD conditions, and sent as part of a document transmittal.	Y
3.5	Communication (7.4)			
3.6	7.4.2	Procedures are in place for ensuring internal communication with regard to the environmental aspects and the EMS	<ul style="list-style-type: none"> Communications for updated forms and other system updates from Head Office via email. Fortnightly team meetings e.g. No. 26 of 5/12/2018 – Section 11 – Environmental Management; other e.g. .1/5/19 section 10; discussed out of hours works, complaints, etc. Weekly subcontractor meetings e.g. No. 16 of 10/01/2019 – Plumbing, electrical, scaffolding. Environmental issues discussed – e.g. dewatering, diesel labelling, water to be flocked; e.g. 16/5/19 Section 4 Enviro; includes the chemicals labelling issue. 	Y
3.7	7.4.3	Procedures are in place for communications with external parties, e.g. <ol style="list-style-type: none"> EPA, Council, Hospital, others 	Have a weekly meeting with Hospital – not minuted as they have the details in the 'Disruption Works Notices' (DWN) new e.g. No. 51 of	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		b) Community engagement – provision of information, sensitive receivers, follow up	<p>4/6/19 – related to comms room. Approved by Watpac, APP, Hospital & transition Manager, then distributed to all.</p> <p>Ongoing communications – e.g. via email.</p> <p>With Dept. of Planning: – e.g. to compliance@planning.nsw.gov.au – sent the Compliance Report and other info required e.g. environmental audit report, compliance register, etc.</p> <p>With Council – minor communications e.g. traffic, trees. No recent communications.</p> <p>commencement letter 28th June 2018 – sent to 131 addressees (information about start of the project) – letter box drops.</p> <p>Community – nothing can be sent without APP/Hi and Planning approval e.g. out of hours works – after approved did a letter box drop for neighbours – e.g. 20/5/19.</p>	
3.8	A7	<p>Where conditions of this consent require consultation with an identified party, the Applicant must:</p> <p>a) consult with the relevant party prior to submitting the subject document for approval; and</p> <p>b) provide details of the consultation undertaken, including:</p> <p>i) a description of how matters raised by those consulted have been resolved to the satisfaction of both the Applicant and the party consulted; and</p> <p>ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.</p>	As above; consultation done for out of hours works approval, plus review of issues from previous AQUAS audit.	Y
3.9	B1	<p>Notice of commencement of works</p> <p>If the construction or operation of the development is to be staged, the Contractor has notified the Department, Certifying Authority and Council, of the date of commencement and the development to be carried out in that stage. This is to be done in writing and at least 48 hours before commencement of each stage</p>	<p>Sighted letter of 28th June – ‘Notification of Commencement’</p> <p>A letter was dropped to neighbours for info +/- 130 residents.</p> <p>Note: Next stage will not happen until +/- Jan 2020</p>	Y
3.10	Documentation (7.5)			
3.11	7.5	The Contractor has procedures for control of documents and records, which includes:	- Uses ‘Watkins’ system – has all current system documents, templates, forms, etc.	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		<ul style="list-style-type: none"> a. approval of documents for adequacy prior to issue b. review and update and re-approval c. ensuring that changes and the current revision status of documents are identified d. ensuring that relevant versions of applicable documents are available at points of use e. ensuring that documents remain legible and readily identifiable f. ensuring that relevant documents of external origin for the planning and operation of the EMS are identified and their distribution controlled g. preventing the unintended use of obsolete documents and applying suitable identification to them if they are retained for any purpose 	<ul style="list-style-type: none"> - Aconex – project specific documentation e.g. the EMP + reports - Authorisation in the plan. - Documents are available in the server. - Have access to the NSW Gov. page for the project e.g. for SSD. - Aconex docs – only have the current versions (older not shown) G-Drive – have a 'superseded docs' folder - Some docs / records in G:/ Drive - Web FM – web based portal for management of defects. 	
3.12	B22, B23	<p>Construction Environmental Management Plan</p> <ul style="list-style-type: none"> a. Prior to the commencement of construction works, a CEMP must be submitted for the approval of the Certifying Authority. The CEMP must address, but not be limited to, the following matters where relevant: <ul style="list-style-type: none"> i) hours of work; ii) 24 hour contact details of site manager; iii) traffic management, in consultation with Council and TfNSW; iv) construction noise and vibration management, prepared by a suitable qualified person; v) management of dust and odour to protect the amenity of the neighbourhood; vi) erosion and sediment control; vii) stormwater control and discharge; viii) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the Subject Site; ix) procedures for encountering groundwater during construction works; x) external lighting in compliance with AS4282:1997 Control of the Obtrusive Effects of Outdoor Lighting; xi) a protocol detailing appropriate procedures for identifying and dealing with unexpected finds of site contamination (including asbestos containing materials, Polycyclic 	<p>Sighted CEMP – Rev. 4 of January 2019– authorised by PM.</p> <ul style="list-style-type: none"> a) Transmittal to HI/APP 20/03/2018 via Aconex – original plan Email of 19/09/2018 – sent updated plans to Planning NSW. Sighted Aconex email of 12/04/2018 to the Certifier; no comments have been received from either party. Aspects required in SSD Cl. B22 addressed generally in: <ul style="list-style-type: none"> - PEMP and Sub-Plans - Traffic mgt is an Appendix to the Safety Management Plan. - PEMP Aspects (Section 5) b) Has a Noise and Vibration for Hospital as a 'sensitive receiver' (not in the SSD) – but not been submitted to the client. c) Plan was submitted – as per item a) above. 	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		<p>aromatic hydrocarbons (PAHs), Total recoverable hydrocarbons (TRH) and lead-based paint);</p> <p>xii) a protocol detailing appropriate proced. for identifying and dealing with unexpected finds of archaeological heritage;</p> <p>xiii) waste classification (for materials to be removed) and validation (for materials to remain) be undertaken to confirm the contamination status in these areas of the site;</p> <p>xiv) waste storage, recycling and litter control;</p> <p>b. The CEMP must not include works that have not been explicitly approved in this development consent. In the event of any inconsistency between the consent and the CEMP, the consent must prevail; and</p> <p>c. The Applicant must submit a copy of the CEMP to the Department and Council prior to commencement of work.</p> <p>The CEMP must be implemented by the contractor for the duration of the construction works</p>		
3.13	B24, B25	<p>Construction Noise and Vibration Management Plan to be submitted for approval of the Certifying Authority, to be implemented for the duration of the project and to be revised from time to time. Plan to address the following:</p> <p>i) be prepared by a suitably qualified expert;</p> <p>ii) be prepared in consultation with Council and all adjoining noise sensitive receivers where noise levels exceed the construction noise management levels, in accordance with EPA guidelines;</p> <p>iii) describe the measures to be implemented to ensure > best management practice is being employed; > compliance with the relevant conditions of this consent;</p> <p>iv) describe the proposed noise and vibration management measures in detail;</p> <p>v) include strategies that have been developed to address impacts to noise sensitive receivers where noise levels exceed the construction noise management level, for managing high noise generating works;</p> <p>vi) describe the consultation undertaken to develop the strategies in v) above;</p> <p>vii) evaluate and report on the effectiveness of the noise and vibration management measures; and</p>	<p>CNVMP in place Rev 0 by Acoustic Logic, Doc 20180872.1/0624A/R0/TT of 24/06/18. Sighted submission to Blackett Maguire & Goldsmith, Aconex communication WTPC-GCOR-000647 of 29/6/18.</p> <p>Acoustic logic Report – has recommendations for noise & vibration controls. Baseline reference noise measured.</p> <p>The Council has copy of the Plan. Follow requirements for noise management, e.g. excavation works not to start before 8:00am.</p> <p>Strategies e.g. Acoustic logic did measurements/ monitoring to get info for preparation of the Plan.</p> <p>Consultation was not required at this stage (sighted map – might be relevant at a later stage close to the end of the project).</p> <p>The Plan includes recommendations for complaints management.</p>	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		viii) include a complaints management system that would be implemented for the duration of the construction works. The Contractor must submit a copy of the plan to the Dept. and to the Council prior to commencement of work. B25 – The CNVMP must be implemented by the contractor for the duration of the construction works.		
3.14	B26, B27	<p>Construction Waste Management Plan to be submitted for approval of the Certifying Authority, to be implemented for the duration of the project and to be revised from time to time. Plan to address the following:</p> <ul style="list-style-type: none"> i) recycling of demolition materials including concrete; and ii) removal of hazardous materials and disposal at an approved waste disposal facility in accordance with the requirements of the relevant legislation, codes, standards and guidelines, prior to the commencement of any building works. <p>Details demonstrating compliance with the relevant legislative requirements, associated with the removal of hazardous waste, particularly the method of containment and control of emission of fibres to the air, are to be submitted for the approval of the Certifying Authority prior to the removal of any hazardous materials;</p> <p>The Contractor must notify the RMS Traffic Management Centre of the truck route(s) to be followed by trucks transporting waste material from the Subject Site, prior to the commencement of the removal of any waste material from the Subject Site; and</p> <p>The Contractor must submit a copy of the plan to the Department and the Council prior to commencement of work.</p> <p>B27 – The CWMP must be implemented by the contractor for the duration of the construction works</p>	<p>CWMP in place, Rev. 01 27/June 2018 – Submitted to the Certifier via Aconex communication WTPC-GCOR-000647 of 29/6/18. Sighted Crown Cert. of 12/7/18 referencing the Plan.</p> <p>Use grasshopper as removal subcontractor.</p> <p>Purpose, Goal is to reuse / recycle 80% of waste. Has +/- 8 different waste streams: concrete, steel/ metal, timber, plastic/ paper/ cardboard.</p> <p>Has identification and management of hazardous materials. Also has tracking of vehicles transporting hazardous materials (take number plates) and they send docketts.</p> <p>Grasshopper would collect and segregate waste offsite as required.</p> <p>Delta has communicated RMS routes for hazardous materials.</p> <p>Copy of the Plan submitted – as part of the Crown Certificate.</p>	Y
3.15	B28, B29	<p>Construction Traffic and Pedestrian Management Plan to be submitted for approval of the Certifying Authority, to be implemented for the duration of the project and to be revised from time to time. Plan to address the following:</p>	<p>CTPMP – Part of the Safety Management Plan (Appendix F) Rev. 1 March 2018. Submitted and in implementation.</p>	Y

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Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		<p>i) location of proposed work zones & haulage routes; iii) construction vehicle access arrangements; iv) construction hours & construction program; vi) predicted construction traffic volumes and vehicle movements, types and routes including any known road closures and consideration of alternate routes; vii) assessment of road safety at key intersections and locations subject to heavy vehicle movements and high pedestrian activity; viii) details of construction vehicle movements including parking, dedicated vehicle turning areas and ingress and egress points; ix) details of anticipated peak hour and daily truck movements to and from the site; x) details of access arrangements for workers to/from the site, emergency vehicles and service vehicle movements; xi) details of temporary cycling and pedestrian access during construction; xii) details of proposed construction vehicle access arrangements at all stages; xiii) loading and unloading; xiv) details of management measures to minimise traffic impacts, including temporary road works and/or implementation of traffic control measures; xv) pedestrian and traffic management methods; xvi) any potential impacts to general traffic, cyclists, pedestrians and bus services within the vicinity of the site from construction vehicles during the works; xvii) consideration of the cumulative construction traffic impacts of surrounding projects under construction, including those within the Hornsby Ku-ring-gai Hospital precinct. Existing CTPMPs for developments within or around the Site should be referenced in the CTPMP to ensure that the coordination of work activities are managed to minimise impacts on the surrounding road network; and xviii) traffic and transport impacts during construction and how these impacts will be mitigated for any associated traffic, pedestrian, cyclists, parking and public transport, which must include vehicle routes, number of trucks, hours of operation, access arrangements and traffic control measures for all demolition/ construction activities.</p> <p>The Contractor must submit a copy of the CTPMP to the Department and to the Council, prior to the commencement of works.</p>	<p>3 main types of plans</p> <ol style="list-style-type: none"> 1. CTMP – overarching prepared by RMS <ul style="list-style-type: none"> - Approved routes - Not affected by peak hour traffic 2. TCPs – e.g. for general site entry and egress; for crane erection, delivery of equipment 3. VMP (Vehicle Movement Plans) – e.g. delivery of tower crane equipment 	

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		B29 – The CTPMP must be implemented by the contractor for the duration of the construction works		
3.16	A15, A16	If necessary the strategies, plans and programs required under this consent must be revised, to the satisfaction of the Secretary. Where revisions are required, the revised document must be submitted to the Planning Secretary for approval within six weeks of the review.	The CEMP Rev. 03 was sent to Planning as part of the Construction Compliance Report. Initial documents sent in March 2018 and then updates were sent in September 2018. Updated CEMP sent in Jan 2019 and a further update was sent as per OFI of previous AQUAS audit.	Y
3.17	C1	Approved Plans to be On-site. A copy of the approved and certified plans, specifications and documents incorporating conditions of approval and certification must be kept onsite at all times and must be readily available.	Plans Available in site office and in Server (G: Drive). - 2 REFs - SSD - Certifications (e.g. Crown Cert) – G:Drive - Plans in Aconex	Y
3.18	Control of records (7.5)			
3.19	7.5.3	The Contractor has established and maintained necessary records to demonstrate conformity to the requirements of its EMS and the Standard, and the results achieved.	PEMP Sec. 4.12. - Some are part of safety e.g. Inductions, Toolbox Talks (hard copies, kept in folder in Safety Advisor bookshelf) - Inspections, other environmental records – have a folder in shared drive e.g. complaints, waste diversion reports, meeting inspections 14/01/19 - Reports – Aconex e.g. EIS, contamination, others within SSD, Drawings - Sighted Water Report Card 15/01/19 & 20/12/18 (Turbidity test failed, so water was not discharged) Specific records sighted as per further sections of this checklist.	Y
3.20	7.5.3	Procedures have been established for the identification, storage, protection, retrieval, retention and disposal of records.	Part of the Head Office Management System procedures – Document Control procedure There is a document controller.	Y
4.0	Operation			
4.1	Operational controls (8.1)			
4.2	8.1	The Contractor has identified and planned controls associated with the significant environmental aspects to	All Aspects identified in the CEMP have Management Strategy and specific actions e.g.	Y

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		ensure that operations are carried out under conditions that minimise harm to the environment.	<p>Protection of utility services:</p> <ul style="list-style-type: none"> - Strategy – e.g. awareness; marking - Actions – e.g. scanning (non-destructive); OHW protections; DBYD; etc. <p>Sedimentation controls</p> <ul style="list-style-type: none"> - Silt socks installed along Derby Rd. - Silt fences - Washout drums (one wash, 2 filtration, as seen during site walk). - Reminders to staff through toolbox talks - Etc. 	
4.3		Conditions of Development Consent – Before Commencement of Works		
4.4	A6	No consent is granted for the demolition of the 'Palmerston' building.	Not part of SoW. Was a provision under the submission, not approved at this point.	Y
4.5	A17	<p>All plant and equipment used on site, or to monitor the performance of the development must be:</p> <p>(a) maintained in a proper and efficient condition; and</p> <p>(b) operated in a proper and efficient manner.</p>	<p>Done as part of the safety system. Controlled through 3D Safety app e.g. forklift sighted onsite.</p> <p>Daily inspections and service every 500hs for equipment onsite. Sighted details of machine on the 3D safety app for Forklift (Merlo) during site inspection. Forklift service – 28/11/18.</p> <p>Other records presented include:</p> <ul style="list-style-type: none"> - ETM Calibration Certificate SN:7093 of 12/03/18 - Vibration Meter Calibration Cert. SN VIB01724 10/1/17 - Merlo Service Record 250 hours SN:6004605 of 30/4/19 <p>Ticketed staff operate the equipment.</p>	Y
4.6	A19, EPA Reg. Cl 98A, C23	<p>Prescribed conditions – Signage:</p> <p>2) A sign must be erected in a prominent position on any site on which building work, subdivision work or demolition work is being carried out:</p> <p>(a) showing the name, address and telephone number of the principal certifying authority for the work;</p> <p>(b) showing the name of the principal contractor (if any) for any building work and a telephone number on which that person may be contacted outside working hours;</p>	Sighted during site walk, required items included.	Y

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		(c) stating that unauthorised entry to the work site is prohibited. Site Notice – to include certifying authority, structural engineer, the approved hours of work.		
4.7	B3, B4	Reflectivity, Outdoor lighting Compliance with requirements	Certifier has provided all the architectural drawings including exterior finishing schedule. Sighted: - Certificate of Design for reflectivity of 7/09/18 by Bonacci Group. - Electrical Design Cert. Wood & Grieve Eng. 15/8/18 Crown Certificate 11/10/2018 items 11, 12, 6, 17	Y
4.8	B5-B8	Hazards – design of oxygen supply The Contractor has ensured that: B5 The design and operation of the hospital's oxygen supply system (including the use of the liquid oxygen bulk storage tanks, any oxygen cylinders connected to the oxygen supply system and any temporary oxygen supply tanks) be in accordance with AS 1894 'The storage and handling of non-flammable cryogenic and refrigerated liquids' (AS 1894). B6 All control measures or safeguards described in the Preliminary Hazard Analysis (PHA, 9 February 2018) will be implemented. B7 As necessary and in accordance with AS 1894, the hospital's Emergency Plan and emergency procedures have been updated to include emergency situations involving the hospital's oxygen supply system, as described in the PHA (9 February 2018). B8 If temporary oxygen supply tanks are to be installed prior to demolition of existing liquid oxygen bulk storage tanks for the purpose of hospital oxygen supply prior to commissioning of new tanks, the design and operation of these temporary tanks must be verified with AS 1894 and/or other relevant Australian Standards.	HealthShare has coordinated the replacement of the oxygen tank. Logistics were coordinated with Watpac, as access had to be given through the worksite. The protection shed was lowered after the tank was replaced. - E.g. Signage – minimum exclusion zone for hot works and maintain clear access to the tanks (in case access is required). Communications in place when refuelling. - The Hospital presented their current emergency procedures, which refer to the old oxygen tank. Project Manager has asked for them to be updated to reflect any changes with the new tank, e.g. provider is now Coregas. - N/A	Y

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4.9	B10	<p>The Contractor has submitted Plans demonstrating compliance with the following requirements for bicycle parking, to the satisfaction of the Certifying Authority:</p> <p>a) provision of a minimum of 18 bicycle parking spaces;</p> <p>b) layout, design and security to comply with all applicable minimum requirements of AS 2890.3:2015 Parking facilities - Bicycle parking, and be located in secure, convenient and accessible areas close to the main entries, incorporating adequate lighting and opportunities for passive surveillance; and</p> <p>c) provision of end-of-trip facilities for staff including showers, change room and lockers.</p>	<p>Architectural drawings submitted for certification. Part of Crown Certificate.</p> <p>Note: Construction of the bicycle parking will become relevant at the very end of the project.</p> <p>The initial design has been submitted (covered by Crown Cert 3) – final design is still in progress, as part of landscaping</p>	Y
4.10	B12	<p>Pre-Construction dilapidation reports</p> <p>Report submitted to the satisfaction of the Certifying Authority & copy to Council</p>	<p>Email was sent on 19/09/2018 to Planning and Council with dilapidation reports.</p> <ul style="list-style-type: none"> - Presented 4 reports: <ul style="list-style-type: none"> - Derby – Watpac - Star and Hope – Structural Engineer (Cardno) - Cottage 93 – Watpac - Little Learning School – Structural Eng. 04/09/18 <p>Photographic report / condition of building</p>	Y
4.11	B18	<p>Public Footpath</p> <p>The existing concrete footpath along the boundary of the site is to be reinstated where impacted by the proposed works to relevant Council specifications and standards</p>	<p>Not Triggered. Footpath not affected at the moment under this SSD.</p>	NA
4.12	B19	<p>Stormwater and Drainage Works</p> <p>Designed in accordance with Council's relevant specifications and standards and other specific requirements.</p> <p>Water treatment system designed as per Council requirements</p>	<p>Crown Certificate – Hydraulic outside fence – covered by another works conditions (REF determination – approval 004/2018 – 04/04/2018) – Not relevant to this SSD.</p> <p>For internal stormwater drainage, the design would be approved as part of Crown Certs 1, 2.</p>	Y

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4.13	B20	<p>On-site Stormwater detention and Water Quality</p> <p>An on-site stormwater detention system must be designed by a chartered civil engineer and constructed in accordance with the following requirements:</p> <ul style="list-style-type: none"> a) the developing area of the site shall ensure its 5-year average recurrence interval (ARI) runoff reduced to the pre-development site cover rate. The volume of the onsite detention system shall ensure its capable of detaining the 20-year ARI post-development site cover storm; b) the water quality treatment system shall be designed and constructed to provide water quality outcomes as per Council's HDCP2013 Section 1 C.1.2.i requirements; c) have a surcharge/inspection grate located directly above the outlet; d) discharge from the detention system must be controlled via 1 metre length of pipe, not less than 50 millimetres diameter or via a stainless plate with sharply drilled orifice bolted over the face of the outlet discharging into a larger diameter pipe capable of carrying the design flow to an approved Council system; e) where above ground and the average depth is greater than 0.3 metres, a 'pool type' safety fence and warning signs must be installed; and f) not be constructed in a location that would impact upon the visual or recreational amenity of residents. 	<p>Civil Design Certificate (Crown Certificate, Item 4).</p> <p>Item Not Triggered – will be done in Milestone 4.</p>	NA
4.14	B21	<p>Road Works</p> <p>Kerb and gutter, stormwater drainage, full road width pavement including traffic facilities (vehicle crossings, if applicable) and paved footpaths must be constructed along the area where road works are to be undertaken. In relation to public roads or classified road (as defined under the Roads Act 1993), all roads and traffic facilities must be designed to meet the requirements of Council and RMS (if applicable) and obtain any necessary permits and approvals from the relevant road authority, prior to the commencement of road or pavement construction works.</p>	<p>Not Triggered. No road works conducted at the moment. Road reinstatement as part of the REF (see checklist item 4.12).</p> <p>Possible crossovers may happen later in the project. Nothing with the council.</p>	NA

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4.15	B32, B33	<p>Utility Services</p> <p>Prior to the commencement of construction work the Contractor is to negotiate (as necessary) with the utility authorities (e.g. Ausgrid and telcos) in connection with the relocation and/or adjustment of the services affected by the construction of the building structure.</p> <p>Prior to the commencement of above-ground works written advice must be obtained from the electricity supply authority, an approved telco carrier and an approved gas carrier (as relevant) stating that satisfactory arrangements have been made to ensure provision of adequate services</p>	<p>Communicated with Telcos, Ausgrid about low power lines.</p> <p>A new substation is to be built – will communicate with Ausgrid. Otherwise no interaction required.</p>	Y
4.16	B34	<p>External Walls and Cladding</p> <p>Compliance with requirements of the NCC</p>	<p>Design has been submitted – final design.</p> <p>Sighted various Certificates for Alcadex, Deco, Finesse, Terracade, etc.</p> <p>Will use composite, non-combustible panels, glass, aluminium.</p>	Y
4.17	B42 B45	<p>Tree Protection</p> <p>The tree protection measures outlined in the <i>Arboricultural Development Assessment Report</i>, prepared by Moore Trees, dated October 2017, are to be implemented and maintained.</p> <p>Certification from the arborist required.</p>	<p>Have a report from Moore Trees – provide a Tree Protection Plan</p> <p>Sighted email 25/09/2018 with response from Nick – no action at the moment (for retained trees) – in 2020 +/-</p> <p>Tree removal – sent application to council; some were done by a licenced arborist.</p>	NA
4.18	B43	<p>A project arborist with AQF Level 5 qualifications must be appointed to provide monitoring and certification throughout the construction period.</p>	<p>Moore Trees is the project arborist</p>	Y
4.19	B44, C32	<p>Tree protection fencing for the trees to be retained must be erected around trees to be retained at a minimum distance based on the trees structural root zone</p> <p>Building materials and Site Waste</p> <p>The filling or stockpiling of building materials, the parking of vehicles or plant, the disposal of cement slurry, waste water or other contaminants must be located outside the tree</p>	<p>Not Triggered. Will become relevant at a later stage (as per item 4.17)</p>	NA

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		protection zones as prescribed in the conditions of this consent.		
4.20	B46	Ecologically sustainable development – details of design measures to be submitted, equivalent to Green Star Health Care 4 star rating	Natural ventilation, natural lighting. Steensen Varming (consultant) Report of 21/02/2018 has options regarding façade, ventilation, mechanical (design stage). JV Assessment – building envelope assessment – modelling for interaction with the mechanical system.	Y
4.21	Conditions of Development Consent – During Construction			
4.22	C2, C3	Construction Hours Compliance with requirements	7am – 6pm weekdays – usually end at 4pm 8am – 1pm Saturday No work on Public Holidays Note: REF for alternate project has different working hours Have applied for extended hours, both approved by Planning e.g. 21/05/19, 17/06/19	Y
4.23	B14	Construction Noise Management Contractor must incorporate all relevant noise mitigation recommendations in the letter <i>Hornsby Ku-ring-gai Hospital Stage 2 Redevelopment - Response to Planning NSW Queries</i> prepared by Acoustic Logic, dated 26 April 2018, in the detailed design drawings and submit for the approval of the Certifying Authority.	Noise management during construction is as per the CNVMP. Some design elements (for final building), e.g. generators insulation. – done (Crown Cert design item). Contractor follows the Plan which covers more detail than the Acoustic Logic report.	Y
4.24	C4	All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and managed in accordance with the CNVMP required under condition B25.	Controls established as per Acoustic Logic Report, e.g. - Machinery to be used, e.g. to avoid use of reverse beep where possible - Bored piles (rather than driven piles) – Activity finished - Use of plywood panels (rather than ‘acoustic panels’) Conduct Noise Monitoring readings – Handheld noise monitor used during weekly environmental inspections at the nominated monitoring points. Monitoring is done weekly as part of environmental inspections. Currently the monitoring is done for 45 seconds rather than the 15 min. specified in the CNVMP. It is suggested to conduct monitoring for 2 minutes to get a better noise sample.	OFI-01

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4.25	C5	If the noise from a construction activity is substantially tonal or impulsive in nature (as described in Chapter 4 of the Noise Policy for Industry, 5 dB(A) must be added to the measured construction noise level when comparing the measured noise with the construction noise management levels.	This is associated with checklist item 4.31	Y
4.26	C6	The Contractor must ensure construction vehicles do not arrive at the Subject Site or surrounding residential precincts outside of the construction hours of work outlined under condition C2.	There is a specific area for construction vehicles to park to bring materials or load with waste. Only scheduled during working hours. Note: Sometimes workers arrive before 7am to get ready – there is a shuttle bus from 5am – 5pm, but this is generally is not an issue.	Y
4.27	C7	The Contractor must schedule intra-day 'respite periods' for construction activities identified in the Interim Construction Noise Guideline	Some exceedances are expected – e.g. vibration during pouring – in these cases has communication with the hospital and/or other receivers. Respite taken during staff breaks (two breaks in the day, morning tea and lunch), but would consider others per communications with the Hospital. No complaints about noise have been received.	Y
4.28	C8	Wherever practical, and where sensitive receivers may be affected, piling activities are completed using bored piles	Done, as per checklist item 4.24. Half of the work is completed, to be finished by mid-February. All piling completed.	Y
4.29	C9	The Contractor must implement, where practicable and without compromising the safety of construction staff or members of the public, the use of audible movement alarms of a type that would minimise noise impacts on surrounding noise sensitive receivers.	Minimise use of reversing in vehicles – use of squawkers, no beeping Have a regime for maintenance of equipment – records kept in hard copy in safety folder at the site office.	Y
4.30	C10	Any noise generated during construction of the development must not be offensive noise within the meaning of the Protection of the Environment Operations Act 1997 or exceed approved noise limits for the Subject Site	Has a handheld noise monitoring device, used in nominated locations. 75 – 80 dB(A) as per Noise & Vibration Management Plan, no more than 15min (See OFI under checklist item 4.24). Presented map with sensitive receivers and showing noise monitoring locations. Purple ones are only vibration monitors. No complaints have been received regarding noise.	Y

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4.31	C11	<p>Vibration Criteria</p> <p>Vibration caused by construction works to meet the established limitations.</p>	<p>Criteria to work to: 1mm/s Sighted Vibration Analysis register (exceedances above 0.8). 2 vibration monitors installed (1 close to demolition site, 1 in existing building) – no exceedances. Sighted monitoring report by Acoustic Logic. Demolition and excavation works are completed. Not needed. Sighted Acoustic Logic Vibration Monitoring Report 05, 19/03/19. No issues were reported by the Hospital.</p>	Y
4.32	C14	<p>Waste</p> <p>All waste generated during construction must be assessed, classified and managed in accordance with the Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014)</p>	<p>Letters:</p> <ul style="list-style-type: none"> - Delta Report – including docket ID, material, quantities. - Sighted acceptance letter for Genesis Landfill & Recycling Centre 9/11/18. - Clearway 2/2/18 – acceptance letter for hazardous solid waste. - Kimbriki – 6/3/18 licenced acceptance of waste <p>Grasshopper send reports monthly, e.g. May 2019 – waste streams breakup, quantities recycled. Sighted a Tipping Register (up to Apr 2019) – details tipping records for Hornsby Hospital – from Delta Group about contaminated material.</p>	Y
4.33	B17	<p>Storage and Handling of Waste</p> <p>An appropriate area will be provided within the premises for the storage of garbage bins, recycling containers and all waste and recyclable material generated by the site.</p>	<p>Observed during site walk – Waste bins located in different parts of the site, plus bins in site office and near the canteen.</p>	Y
4.34	C15	<p>The body of any vehicle or trailer used to transport waste or excavation spoil must be covered before leaving the premises to prevent any spillage or escape of any dust, waste of spoil. Mud, splatter, dust and other material likely to fall from or be cast off the wheels, underside or body of any vehicle, trailer or motorised plant leaving the site must be removed before leaving the premises.</p>	<p>Trucks have a cover coming out of a mast. Drivers are liable if the trucks don't get covered. Grass Hopper covers material, except steel bins. Delta – spoil, demolition material</p>	Y
4.35	C16	<p>The Contractor must ensure that concrete waste and rinse water are not disposed of on the Subject Site and are prevented from entering any natural or artificial watercourse.</p>	<p>Observed during site walk – Purple bin was sighted onsite, water pumped, material put in the bin.</p>	Y
4.36	C34	<p>Excavated Material</p>	<p>Sighted various dockets of waste delivered to different waste facilities according to classification.</p>	Y

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		All excavated material removed from the site must be classified by a suitably qualified person in accordance with the Department of Environment, Climate Change and Water NSW Waste Classification Guidelines prior to disposal to an approved waste management facility.	Sighted waste disposal register done by Delta. The same process is followed for excavated material.	
4.37	C36	Trade Waste Liquid trade waste generated on the site must be discharged in accordance with a trade waste agreement with Sydney Water and by a licensed liquid trade waste contractor.	Not Triggered. No trade waste. When required, water is tested, pumped out to stormwater after verification of measurements.	NA
4.38	C21	All construction vehicles associated with the proposed development are to be contained on site, unless otherwise approved through the approval for a construction zone on the Council roadway	Approval letter from Hornsby Shire Council for the 'Work Zone' 5/6/18 – applied on 29/05/18. Ref No. F2004/09773. Vehicles load and unload within the site, the works zone is more for vehicles waiting.	Y
4.39	C22	Demolition To protect the surrounding environment, all demolition work must be carried out in accordance with "Australian Standard 2601-2001 - The Demolition of Structures" and the following requirements: <ul style="list-style-type: none"> - Demolition material must be disposed of to an authorised recycling and/or waste disposal site and/or in accordance with an approved waste management plan - Any asbestos to be removed by a licenced contractor - Meet signage requirements 	Removal of asbestos has been performed. Done by a licenced removal contractor and sent to an approved facility. Acceptance letters by Cleanaway – Ok EPL Licence No. 10939 for Birgo, Auburn (General Waste) EPL Licence No. 13426 for Genesis (Asbestos) EPL Licence No. 13091 for Kimbriki (Asbestos) EPL Licence No. 20339 for Veolia (Asbestos) Removal of asbestos has been completed.	Y
4.40	B11, C19	Erosion and Sediment Control Soil erosion and sediment control measures must be designed in accordance with Blue Book & approved by certifying authority. Control measures to be effectively implemented and maintained for the duration of the works.	TTW – civil consultants – provided a Sediment Control Plan – mostly from Blue Book – CIV-DNG-00-902 Rev. A 28/06/2018 issued for construction. Controls observed during site visits, e.g. sand bags around drains. Some drains have been disconnected. There is a map in Watpac's office – with changing controls, e.g. sediment pond.	Y
4.41	C20	Disposal of Seepage and Stormwater Not to be pumped to the street stormwater system unless approved	Wastewater is tested (e.g. after a rain event) and pumped to stormwater drain if below limits e.g. 'Water Meter Report Cart' of	Y

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			14/09/2018: Turbidity 23 NTU (<50); pH 6.77 (between 6.5 and 8) – Ok to dispose of. Sighted measurement dated 8/5/19: Turbidity 42; pH 6.95.	
4.42	C12, C13	<p>Contamination</p> <p>Remediation works at the site are to be undertaken in accordance with the recommendations and findings of the Remediation Action Plan prepared by Douglas Partners and dated May 2018.</p> <p>C13 Should any new information come to light during construction works which has the potential to alter previous conclusions about contamination, the Certifying Authority must be immediately notified and works must cease in the vicinity of the suspected contamination. The Certifying Authority will determine whether further investigation, or the need for remediation, is required before construction works can recommence</p>	<p>An old fuel storage tank UST had to be removed and soil remediated (unexpected find) – followed a process for cleaning / decommissioning / removal of tank and removal of contaminated soil.</p> <ul style="list-style-type: none"> - stockpile / test / classify / remove - sighted docket (42) of GSW sent to Genesis <p>Remediation Action Plan – Douglas Partners Asbestos removal control plan prepared by ASP – Rev.6 of 14/11/18 (Asbestos found in Building 3 – Watpac stopped works, the area was remediated in accordance with the Remediation Action Plan for that find).</p> <p>There will be remediation called for in the report that will trigger in future milestones.</p>	Y
4.43	C17	<p>Handling of Asbestos</p> <p>The Applicant is to consult with SafeWork NSW concerning the handling of any asbestos waste that may be encountered during construction</p>	<p>Used licenced contractors (Delta / ASP) – sighted Asbestos Removal Control Plan. Sighted docket sent to Genesis (by Delta) – 36 of them August 2018</p> <p>Have: - Asbestos Register</p> <ul style="list-style-type: none"> - Air monitoring and clearance - WorkCover notification – by ASP 20/08/2018 <p>WSP – Occupational Hygienist. 24/11/18 testing, air monitoring, fuel + diesel particles monitoring. No more ACM removal for now.</p>	Y
4.44	C18	<p>Unexpected Finds - Non-Aboriginal Heritage</p> <p>Procedure in place, cease works, contact OEH, assess, take action.</p>	<p>Not Triggered. No cultural / non-Aboriginal Heritage finds. Mentioned statues of lions, which have been saved and will be relocated.</p>	NA
4.45	C25, C26	<p>Hoarding/Fencing Requirements</p> <p>A temporary hoarding, fence or awning must be erected between the work site and adjoining lands before the works begin and must be kept in place until after the completion of the works;</p>	<p>Have a mixture of solid hoardings and fencing in the perimeter of the site. Condition monitored daily. No issues identified during the site walk</p>	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		Other requirements: no advertising material, no graffiti		
4.46	C33	Council Property – no materials on footpath	Site is well enclosed, no materials present on footpath as observed during site walk.	Y
4.47	C35	Storage of Flammable and Combustible Goods in bunded area	No dangerous goods or chemicals sighted onsite during site walk. Contractor that brought chemicals has finished onsite (for the moment)	Y
4.48	C37	Traffic Control Compliance The development must be carried out in accordance with the Construction Traffic Management Plan prepared under this consent.	Have permanent traffic controllers at the site entry as per TMP. TMP prepared by RTMS (staff blue card) Will submit another plan if required (e.g. as it happened before for crane erection). Presented a Vehicle Movement Plan – for long vehicles – sent to all relevant contractors .	Y
4.49	Emergency preparedness and response (8.2)			
4.50	8.2; B7	The Contractor has established procedures to: <ul style="list-style-type: none"> - identify potential emergency situations and potential accidents that can have an impact(s) on the environment - determine how it will respond to them 	Have an Emergency Response Plan Rev.5 of 30/11/18 signed by the PM. Includes different scenarios of safety and environmental emergencies. Have flowcharts for: <ul style="list-style-type: none"> - Notifications; - Injuries; - Evacuation; - Medical emergencies; - Fire An emergency contacts list was provided, updated to Rev 4. of 20/05/19. Aconex communication Ref. WTPC-GCOR-007812 of 18/06/19 notes it has been requested that the Hospital update their emergency procedures to reflect the installation of new oxygen tanks and any associated changes.	Y
4.51	8.2	The emergency response procedures include measures to prevent or mitigate associated adverse environmental impacts.	As above	Y
4.52	8.2	Emergency preparedness and response procedures are periodically reviewed and revised, as necessary, in particular, after the occurrence of accidents or emergency situations. Emergency preparedness and response procedures are periodically tested, where practicable	The Emergency Plan is reviewed periodically, as the site layout changes. Rev. 5 was issued after an evacuation drill. Revision 5 was current at the time of the audit.	Y
5.0	Performance Evaluation (9.0)			

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
5.1		Monitoring and measurement (9.1)		
5.2	9.1	Documented procedures have been established to monitor and measure on a regular basis the key characteristics of operations that can have significant environmental impacts.	Conduct weekly Environmental Inspections – have a folder with inspections e.g. 14/01/19, 24/6/19, included site accommodation; water discharge; erosion & sedimentation controls; air quality management, complaints, etc. Photos included.	Y
5.3	9.1.1	The procedures include: <ul style="list-style-type: none"> - the documenting of information to monitor performance - effectiveness of applicable operational controls - conformity with the organization's environmental objectives and targets 	Monitoring documented in the PEMP. Effectiveness to be assessed when preparing Performance Report for Planning – done for the second semester 2018. Conformity with environmental objectives and targets assessed.	Y
5.4	9.1.1	Monitoring and measuring equipment is calibrated, maintained and stored as necessary. Records or calibration are maintained	Noise monitor self-calibrates – gets a new device each year. Has 2 vibration monitors – calibration certificates were available (records received via Aconex Ref. WTPC-GCOR-007812, 31/5/19).	Y
5.5	A11	Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, noncompliance notification and independent environmental auditing.	E.g. Independent Environmental Audits (by AQUAS) – as per SSD Conditions B39, B40	Y
5.6	B35, B36	Compliance Reporting A Pre-Construction Compliance Report must be prepared for the development, and submitted to the Certifying Authority for approval before the commencement of construction works.	Report by Blackett and McGuire Goldsmith.	Y
5.7	B37, B38, C30	Construction Compliance Reports must be submitted to the Department at compliance@planning.nsw.gov.au for information every six months from the date of commencement of construction, for the duration of construction. The Construction Compliance Reports must provide details on the compliance performance of the development for the preceding six months and must be submitted within one month following the end of each six-month period for the duration of construction of the	First six-monthly Construction Compliance Report has been prepared and submitted 9/01/19. Additional information in the six-monthly Compliance Report has been included as per the Planning document <i>Compliance Reporting Post Approval Requirements June 2018</i> . – The second Compliance Report will be submitted in July 2019.	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		<p>development, or such other timeframe as required by the Secretary.</p> <p>The Construction Compliance Reports must include:</p> <ul style="list-style-type: none"> a) a results summary and analysis of environmental monitoring; b) the number of any complaints received, including a summary of main areas of complaint, action taken, response given and proposed strategies for reducing the recurrence of such complaints; c) details of any review of the CEMP and the Environmental Management Strategy and associated sub-plans as a result of construction carried out during the reporting period; d) a register of any modifications undertaken and their status; e) results of any independent environmental audits and details of any actions taken in response to the recommendations of an audit; f) a summary of all incidents notified in accordance with this consent; and g) any other matter relating to compliance with the terms of this consent or requested by the Secretary. 		
5.8	B39, B40, B41	<p>Independent Environmental Audit</p> <p>No later than a month before the commencement of construction works or as agreed with the Secretary, a program of independent environmental audits must be prepared for the development in accordance with the latest version of ASINZS ISO 19011-2014: Guidelines for Auditing Management Systems (Standards Australia, 2014) and submitted to the Secretary for information.</p> <p>The scope of each audit must be defined in the program. The program must ensure that environmental performance of the development in relation to each compliance requirement that forms the audit scope is assessed at least once in each audit cycle.</p> <p>The environmental audit program prepared and submitted to the Secretary must be implemented and complied with for the duration of the development.</p>	<p>Environmental Audits conducted by AQUAS in September 2018 and January 2019, as per the Audit Program submitted to the client.</p>	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		<p>> All independent environmental audits of the development must be conducted by a suitably qualified, experienced and independent team of experts and be documented in an audit report which:</p> <ol style="list-style-type: none"> assesses the environmental performance of the development, and its effects on the surrounding environment including the community; assesses whether the development is complying with the terms of this consent; reviews the adequacy of any document required under this consent; and recommends measures or actions to improve the environmental performance of the development, and improvements to any document required under this consent. <p>> Within three months of commencing an Independent Environmental Audit, or as agreed with the Secretary, a copy of the audit report must be submitted to the Secretary, and any other NSW agency that requests it, together with a response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The recommendations must be implemented to the satisfaction of the Secretary</p>		
5.9	C27	<p>At least 48 hours before commencement of construction until the completion of all works, the Contractor must make the following information and documents publicly available on its website:</p> <ul style="list-style-type: none"> - statutory approvals - approved strategies, plans and programs - performance reporting & monitoring results - project status - complaints register <p>Information must be kept up to date.</p>	<p>NSLHD have been provided with information for publication in their website. Information has been published, as per audit response Aconex Ref. WTPC-GCOR-007812 of 31/5/2019 with links to Infrastructure and NSLHD webpages.</p>	Y
5.10	Internal Audit (9.2)			
5.11	9.2	<p>The Contractor has ensured that internal audits of the EMS are conducted at planned intervals to determine:</p>	<p>Done by Morasey on 12/12/ 2018. Some low priority suggestions and 2 high priority, regarding labelling of fuel storage and separation of gas and flammable liquids – closed out.</p>	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		<ul style="list-style-type: none"> a. whether it conforms to planned arrangements for environmental management including the requirements of the Standard b. whether it has been properly implemented and is maintained 	Presented Internal Audit Report done 18/06/19, by D. Zanetic – Watpac Quality & Enviro Manager.	
5.12	Management Review (9.3)			
5.13	9.3	Top management reviews the EMS at planned intervals to ensure its continuing suitability, adequacy and effectiveness. Reviews include assessing opportunities for improvement and the need for changes to the EMS, including the environmental policy and environmental objectives and targets.	Happens at a Head Office level. Send Monthly NFR (finance reviews & other project information)	-
6.0	Improvement (10.0)			
6.1	Nonconformity, corrective and preventive action (10.2)			
6.2	10.2	Procedures are in place for: <ul style="list-style-type: none"> a. identifying and correcting nonconformities and taking actions to mitigate their environmental impacts b. investigating nonconformities, determining their causes and taking actions in order to avoid their recurrence c. evaluating the need for actions to prevent nonconformities or avoid their occurrence d. recording the results of corrective and preventive actions taken e. reviewing the effectiveness of corrective and preventive actions 	Have a Corrective Actions Register, which was presented as supplementary evidence, together with example of Corrective Action Report Form, e.g. No 12 about Level 3 Plant Room Structural Steel Finish – sighted emails WTPC-NCR-000012 of 21/02/19 and 20/03/19 with NCR details and closeout actions. 20 NCRs have been raised to date.	Y
6.3	10.2	Any necessary changes arising from corrective and preventive actions are reflected in the EMS documentation.	Not Triggered. Reviews would be made as required.	NA
6.4	A12	The Department must be notified in writing to compliance@planning.nsw.gov.au within seven days after the Applicant becomes aware of any non-compliance. The	Not Triggered. No non-compliances identified so far that need to be notified.	NA

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		Certifying Authority must also notify the Department within seven days after they identify any non-compliance.		
6.5	A13	The notification must identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance	As above	NA
6.6	Complaints Management			
6.7	B30	<p>Complaints and enquiries procedure</p> <p>The following must be made available for community enquiries and complaints for the duration of construction:</p> <ul style="list-style-type: none"> a) a toll-free 24-hour number for complaints and enquiries about the works; b) a postal address to which written complaints and enquires may be sent; and c) an email address to which electronic complaints and enquiries may be transmitted. 	<p>Have a Complaints Register.</p> <p>24-hour number and email address available in signage at worksite entrance. No postal address, but it was agreed with HI that this is not necessary, and can be provided via the phone number or email.</p>	Y
6.8	B31	<p>A Complaints Management System must be implemented, including a Complaints Register to be maintained recording information about all complaints associated with the project, e.g.</p> <ul style="list-style-type: none"> d) number of complaints received; e) number of people affected in relation to a complaint; f) nature of the complaint and means by which the complaint was addressed and whether resolution was reached, with or without mediation. 	<p>Have a Complaints Register, e.g. Sighted the Register – 6 received so far, 12/02/19 is the last one recorded.</p> <ul style="list-style-type: none"> - Complaint dated 4/07/2018 – various grievances from a neighbour (6 Derby Rd). - From Maternity Ward – loud music and foul language. Issue addressed with employees and subcontractors. - Jan/19 (last week) received complaint that works started earlier than allowed. Any works being undertaken were stopped. <p>The register is published in the website. This is included also as part of the Compliance Report.</p>	Y
6.9	Incident Management			
6.10	A23, C28	The Department must be notified in writing to compliance@planning.nsw.gov.au within 24 hours after the Applicant becomes aware of an incident. The notification must identify the development (including the development	Not Triggered. No environmental incidents have been reported.	NA

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
	A14	application number and the name of the development if it has one), and set out the location and nature of the incident. Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.		
6.11	A24	<p>a) A written incident notification must also be emailed to the Department at the following address: <u>compliance@planning.nsw.gov.au</u> within seven days after the Applicant becomes aware of an incident. Notification is required to be given under this condition even if the Applicant forms the view that an incident has not occurred.</p> <p>b) Written notification of an incident must:</p> <ul style="list-style-type: none"> i) identify the development and application number; ii) provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident); iii) identify how the incident was detected; iv) identify when the Applicant became aware of the incident; v) identify any actual or potential non-compliance with conditions of consent; vi) describe what immediate steps were taken in relation to the incident; vii) identify further action(s) that will be taken in relation to the incident; and viii) identify a project contact for further communication regarding the incident. 	As above.	NA
6.12	C29	Within seven days of the detection of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested in accordance with condition A 19.	As above	NA

Appendix D – AQUAS Environmental Audit No. 2 dated 23 January 2019

Hornsby Ku-Ring-Gai Hospital Redevelopment Stage 2 Environmental Audit No. 2



Assessment of Watpac's Environmental Management System Compliance Against ISO14001: 2015 and Project Conditions of Consent

Audit Reference:	AQ1236.02
Audit Organisation:	Watpac Pty Ltd
Auditor:	Luis Garzon, AQUAS
Date of Audit:	23 January 2019
Draft Report Submitted:	7 February 2019
Final Report Submitted:	14 February 2019

Amendment, Distribution & Authorisation Record

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Date: 14/02/2019

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1. Executive Summary

This report details the findings of the second Environmental audit of the construction works undertaken by Watpac for the Hornsby Ku-Ring-Gai Hospital Redevelopment Stage 2. Construction activities since the previous Environmental audit included:

- Completion of level 2 slabs, partition walls and services installation in the Medical Imaging Building.
- Demolition of Building 3 following hazardous materials remediation.
- Installation of stormwater line.
- Replacement of bulk gas tanks completed and overhead protection subsequently lowered.
- Excavation works works.

Watpac is the nominated Principal Contractor for the project and is responsible for the management of environmental aspects associated with the construction works.

The audit was conducted by AQUAS on 23rd January 2019 and reviewed implementation of Watpac's Environmental Management System against the requirements of the AS/NZS ISO 14001: 2015 Standard and the requirements of the Project Development Consent SSD 8647.

The audit confirmed that Watpac continues to address the environmental requirements of the Conditions of Consent for current site activities. The contractor has identified the most significant environmental aspects at the worksite and implemented suitable controls. Compliance obligations were demonstrated through Crown Certificates for compliance with BCA requirements and a Construction Compliance Report for compliance with SSD conditions. There was evidence of inductions and regular toolbox talks to maintain environmental awareness of all workers at the site. Environmental documentation was in place, including the Project Environmental Management Plan, Noise & Vibration, Waste, Traffic Management Plans and other sub-Plans.

The implementation of environmental controls was generally demonstrated through the review of relevant records and during the site walk. These included suitable signage, noise and vibration controls, compliance with working hours, waste management, erosion and sedimentation measures, use of licenced contractors for removal and disposal of asbestos containing materials, and traffic controls. However, improvement was required in certain areas, including the labelling of chemicals used onsite and availability of maintenance and calibration records for plant and equipment. It was also suggested to add new locations for the conduct of noise monitoring, which is done as part of regular environmental inspections.

Communication means have been established to allow for community enquiries, feedback and complaints. Communications occur with the Hospital and other stakeholders on a regular basis or as required. Watpac has submitted the first Construction Compliance Report to the Department of Planning in January 2019.

No environmental incidents have occurred so far and no non-conformances have been raised.

One (1) minor non-conformance and seven (7) opportunities for improvement were raised during the audit. The details of the audit process and findings are detailed in the following sections of this report.

2. Audit Scope and Objectives

2.1 Objective and scope of this Audit

This audit was conducted to confirm compliance of the Watpac Environmental Management Plan and its implementation against the requirements of the Standard AS/NZS ISO 14001:2015 and applicable requirements of the Development Consent SSD 8647 for the Hornsby Ku-Ring-Gai Hospital Stage 2 Redevelopment Project.

2.2 Scope of Audit

The audit reviewed Watpac's implementation of their Environmental Management System for the construction activities currently taking place as part of the Hospital Stage 2 redevelopment project.

2.3 Date and Location of Audit

The audit was conducted on 23rd January 2019 at the Hornsby Ku-Ring-Gai Hospital Stage 2 site – Palmerston Rd, Hornsby NSW 2077.

3. Audit Methodology

3.1 Opening Meeting

An opening meeting was held with personnel from Health Infrastructure, APP Corporation, Watpac and AQUAS as per the Audit Attendance Sheet (see **Appendix A**) on 23rd January 2019 at 8:30am.

Key items were discussed as follows:

- Confirmation of the purpose and scope of the audit.
- Overview of the Project and current status of the works.
- Occurrence of Environmental incidents.
- Overview of the audit process in accordance with the proposed Audit Program.

3.2 Audit Process

The audit commenced with a site walk where status of construction works and relevant environmental controls in place were observed. The site walk was followed by review of records and general discussions with Watpac staff for verification of the Environmental Management System implementation on the project.

Name and position of persons interviewed:

Name	Organisation	Position
Nick Limbrey	Watpac	Project Manager
Helena Veljovic	Watpac	Environmental Manager/ Cadet

Details of the outcomes of the review can be found in the completed Audit Checklist (see **Appendix B**).

3.3 Audit Criteria

The following audit criteria/ratings were used for the rating of audit findings.

Audit Findings Rating	
N-Major	– Major Non-Conformance
N-Minor	– Minor Non-Conformance
OFl	– Opportunity for Improvement

3.4 Closing Meeting

The closing meeting was held on 23rd January 2019 at 3:20pm with representatives of Health Infrastructure, APP Corporation, Watpac and AQUAS. General feedback and the findings of the audit were discussed during the closing meeting.

AQUAS auditors acknowledged the cooperation, openness and hospitality of Watpac staff during the conduct of this audit.

4. Audit Findings

4.1 Audit Overview

The audit determined that Watpac has well implemented controls for environmental management within the construction activities currently being undertaken. One minor non-conformance was identified and 7 Opportunities for Improvement (OFIs) were raised during the audit. The following is an overview of key Environmental areas reviewed in this audit:

4.1.1 Environmental Policy

- An Environmental Policy was in place, dated 1/07/2016. The policy is communicated to staff during inductions and is available on the Watpac website.
- The Project Environmental Management Plan (PEMP) outlines environmental objectives and targets.
- Objectives and targets are measurable and communicated, and achievement of these is being evaluated.

4.1.2 Leadership, Planning and Resources

- The organisational chart Rev. 5 was available for the project and main roles and responsibilities were outlined in the PEMP.
- Resources are allocated to the project as required. A number of trades work on different activities, e.g. demolition, plumbing, concreting, etc.
- The PEMP contains detailed information of the relevant environmental aspects, impacts and controls. Information is reviewed periodically as part of the six-monthly PEMP reviews.
- A legal requirements register is in place with general project requirements. The aspects identified in the PEMP have a section where legal requirements are referenced.
- Compliance with BCA requirements, as included in various sections of the SSD, was verified through records of various design certificates and Crown Certificates issued by Blackett Maguire + Goldsmith.

4.1.3 Support

- All employees and subcontractors are required to undertake a site induction, which contains awareness of environmental measures to be considered during construction.

- Weekly Toolbox Talks are conducted to maintain ongoing awareness of safety and environmental matters onsite.
- Internal and external communications are managed through email, regular internal, subcontractor and client meetings, Aconex transmittals, etc. Community communications, e.g. letterbox drops are sent out as required.
- Communications with the Hospital is generally managed through the DWN (Disruption Works Notice) system. DWNs are used to advise of any construction works taking place that will affect the hospital operations.
- A Project Environmental Management Plan (PEMP), Environmental sub-Plans and other environmental documentation were in place to support the operation of the project.
- A copy of the PEMP Rev. 3 had been submitted to Planning together with the Construction Compliance Report of January/2019; however, a new revision of the PEMP had been issued at the time of the Audit. Watpac should consider the need to submit the PEMP Rev. 4 to Planning in accordance with SSD Conditions A15 and A16 – **OFI-01**.
- Relevant environmental records are maintained in different ways, e.g. hard copies in folders, stored in Aconex and in the office shared drive.

4.1.4 Operation

- Maintenance of plant and equipment used onsite is controlled through a mobile App, however service records for a Merlo forklift (sighted during site walk) could not be verified – **Minor NC-01**.
- Site signage was in place with information about the Builder, the Certifying Authority, Architect and the Structural Engineer and project contact information.
- The existing oxygen tank was replaced with a new one, however this task was undertaken by HealthShare, with some logistics coordinated with Watpac (e.g. access to site). It was suggested to contact the Hospital and verify whether their emergency procedures were updated to include any changes in relation to emergencies involving the gas supply, as per SSD Condition B7 – **OFI-02**.
- Dilapidation reports were prepared and submitted to Planning.
- Trees had been removed as per the Arborist report. Further controls for tree protection will be implemented later in the project.
- Hours of work are as per the Development Consent.
- A Construction Noise and Vibration Management Plan was available. Controls were in place for noise mitigation including plant that requires low use of reverse alarms and use of plywood panels.
- Noise monitoring was conducted, and communication with Hospital and other sensitive receivers was managed for any exceedances. It was suggested to add new locations for the conduct of noise monitoring – **OFI-03**.
- Waste classification is outlined in the Waste Management Plan – Waste Streams report by Grass Hopper was available. The target for recycling is 80% or more (by weight) which has been achieved by Watpac.
- Bins and containers for different waste types were available throughout the site.
- A concrete washout tray was in place with plastic liner.
- Demolition of existing buildings involved removal of Asbestos Containing Materials. Relevant records for the removal and disposition by a licenced contractor were verified.
- Erosion and sedimentation controls were in place around the site, including sandbags around drains, straw wattles and silt fences.
- Stockpiles from excavated material were within a sediment control area and material is removed day by day.
- A water cart sprays water for dust control during dry days.
- A rumble grid for removal of dirt from truck wheels was available.

- o A mix of solid hoardings and fencing was installed in the perimeter of the site and monitored to ensure good condition and absence of graffiti and advertising material.
- o A cabinet and a bunded area was available for storage of dangerous goods. Chemical containers were found in the cabinet (and some outside) without a label for identification – **OFI-04**.
- o Watpac has prepared an Emergency Response Plan which includes a number of emergency scenarios and actions to follow for each one of them. There are levels of communication with the Hospital in the event of an emergency, however the communications procedure could not be verified during the audit – **OFI-05**.
- o Emergency Plan is periodically reviewed and revised as the site layout changes over time.
- o Spill kits were available onsite.

4.1.5 Performance Evaluation

- o Environmental inspections are conducted by the contractor weekly. Inspection reports were available.
- o Calibration records for the vibration monitor were not available during the audit – **Minor NC-01**.
- o The first Construction Compliance Report for the Department of Planning was prepared and submitted in January 2019, as per the Condition of Consent. Watpac could consider adding information to this six-monthly report as per the Planning Document *Compliance Reporting Post Approval Requirements June2018, Section 2.2.1* – **OFI-06**.
- o Information has been provided to the Northern Sydney Local Health District (NSLHD) for publication in their website about statutory approvals, approved strategies, performance reporting, complaints and other project information. This is to be followed up – **OFI-07**.

4.1.6 Improvement

- o A Corrective Actions Register and Corrective Action Report form were available.
- o No environmental non-compliances have been identified so far in the project.
- o There is a 24-hour enquiries number and email address in the signage outside the worksite available for the community.
- o A Complaints Register is available where information about the complaints is recorded including resolution reached.
- o No environmental incidents have occurred so far in the project.

4.2 Identified Findings

The table below outlines the findings raised during the audit:

Finding No.	Ref.	Finding	Comment/ Recommendation
Minor NC-01	SSD Cl. A17; ISO 14001 Cl 9.1.1	Plant and equipment maintenance records could not always be found, e.g. – Merlo forklift maintenance records – Calibration certificate for vibration monitor	Ensure plant and equipment maintenance/ calibration records are maintained and are easily retrievable.
OFI-01	SSD Cl. A16	The PEMP Rev. 3 was sent to Planning in January 2019 with the Compliance Report. Noted that Rev. 4 was available but not yet sent.	Consider whether it is necessary to send the most recent update of the PEMP to Planning in light of the relevant SSD requirement (A16).
OFI-02	SSD Cl. B7	It is not confirmed whether the Hospital's emergency procedures have been updated to include potential emergencies involving the newly replaced gas supply tank.	HI to contact the Hospital about any requirement to update their Emergency Response Plan after replacement of oxygen tank, as per SSD requirements.

Finding No.	Ref.	Finding	Comment/ Recommendation
OFI-03	SSD Cl. C4, C10	Noise monitoring is conducted during regular environmental inspections, however the measurements are always done in the same locations.	Consider conducting noise monitoring measurements in locations different from the current ones, as works and the site layout have changed.
OFI-04	SSD Cl. C35 (WHS Regulation)	Some containers with fuel and other chemicals were found onsite without an identification label.	Ensure chemicals used onsite are suitably labelled.
OFI-05	SSD Cl. B7; ISO 14001 Cl. 8.2	Details of the levels of communication with the Hospital for different emergency scenarios were not available for review.	Ensure details of the levels of communication with Hospital for different emergency scenarios are available and understood by relevant project staff.
OFI-06	SSD Cl. B37, B38	The contractor has prepared and submitted the first Construction Compliance Report to Planning. Additional information could be considered for inclusion in future releases of this report.	Consider including additional information in the six-monthly Compliance Report as per the Planning document <i>Compliance Reporting Post Approval Requirements June 2018</i> .
OFI-07	SSD Cl. C27	Project information has been provided to NSLHD for publication in their website, however it was not confirmed that the information has been uploaded.	HI to follow up on the uploading of project information on the NSLHD website.

5. Conclusion

This audit was completed to assess the environmental controls established by Watpac against the requirements of the Development Consent for the project. The audit confirmed that Watpac has implemented its Environmental Management System to a satisfactory level and only a minor non-conformance and opportunities for improvement were identified as part of the review.

The following table summarises the audit findings by rating category:

Findings Rating	Findings
Major Non-Conformance	0
Minor Non-Conformance	1
Opportunity for Improvement	7

It is suggested Watpac takes the feedback from this audit as an opportunity to make improvements in Environmental performance during the progress of the Project.

Appendix A. [Audit Attendance Sheet]

Audit Attendance Sheet



PROJECT: Hornsby Hospital Stg2 Redevelopment AUDIT No.: AQ1236.02
 AUDITEE: Watpac Construction LEAD AUDITOR: Luis Garzon
 MEETING LOCATION: Watpac Site Office
 OPENING MEETING DATE AND TIME: 23/01/19 8:30 am
 CLOSING MEETING DATE AND TIME: " 3:20 pm

NAME	ORGANISATION	POSITION	SIGNATURE	
			OPENING MEETING	CLOSING MEETING
Luis Garzon	AQUAS	Auditor	<i>[Signature]</i>	<i>[Signature]</i>
Ana Moran	AQUAS	Auditor (obs)	<i>[Signature]</i>	<i>[Signature]</i>
BRAD EMBURY	APP	PM	<i>[Signature]</i>	<i>[Signature]</i>
Nick Lambert	Watpac	Project Mgr	<i>[Signature]</i>	-
John Scharfegger	HI	Project Director	<i>[Signature]</i>	<i>[Signature]</i>
Helena Vojovic	Watpac	Building (code)	<i>[Signature]</i>	<i>[Signature]</i>

Appendix B. [Audit Checklist]

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
1.0	Environmental Policy (5.2)			
1.1	5.2	The Contractor has an Environmental policy authorised by top management. It includes: <ul style="list-style-type: none"> - commitment to continual improvement and prevention of pollution - commitment to comply with applicable legal and other requirements 	Policy sighted 1/7/2016	Y
1.2	5.2	The policy is communicated to all persons working for or on behalf of the organisation	Done through inductions and displayed in site office	Y
1.3	5.2	The policy is available to the public	Watpac website – available	Y
1.4	Environmental Objectives and planning to achieve them (6.2)			
1.5	6.2.1	The Contractor has documented Environmental objectives and targets for relevant functions and levels of the project. The objectives and targets are consistent with the environmental policy, including the commitment to: <ul style="list-style-type: none"> - prevention of pollution - compliance with applicable legal and other requirements - continual improvement 	PEMP Sec. 5 – key indicators for each of the aspects; 2.3 – KPIs. Objectives address prevention of pollution and compliance with applicable legal and other requirements. Continual improvement is included in the policy as per discussion on OFI-01 from the previous audit.	Y
1.6	6.2.1	The objectives and targets are <ul style="list-style-type: none"> - measurable, where practicable - communicated 	Objectives are measurable. These are communicated through the use of the plan.	Y
1.7	6.2.2	The Contractor has established, implemented and maintained a plan(s) for achieving its objectives and targets	Through the implementation of the PEMP, and generally review through inspections and audits. High level monitoring of KPIs in Section 2.3 of the PEMP	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
2.0	Leadership (5.0), Planning (6.0) and Resources (7.1)			
2.1	Resources, roles, responsibility and authority (5.3)			
2.2	7.1	The Contractor has identified and provided the resources required to implement the EMS for the project, including: <ul style="list-style-type: none"> - human resources and specialised skills – Org Chart - technology & financial resources 	Presented Project Organisational Chart Rev. 5 Resources in place.	Y
2.3	5.3	Roles, responsibility and authority have been defined, documented and communicated in order to facilitate environmental management.	Position descriptions available for each employee. PEMP Section 3.2 outlines environmental responsibilities for key roles, e.g. <ul style="list-style-type: none"> - Construction/Operations Manager - Quality and Environmental Manager – 3 nationally - Project Manager - Project Environmental Coordinator - Site Manager - Foreman - Direct labour - Subcontractors 	Y
2.4	-	A management representative(s) has been appointed by the Contractor and has defined roles, responsibilities and the authority for: <ol style="list-style-type: none"> ensuring the EMS is established, implemented and maintained in accordance with the Standard reporting to top management on EMS performance for review, including recommendations for improvement 	Project Manager / QSE Manager, as required	Y
2.5	Environmental aspects (6.1.2)			
2.6	6.1.2	The Contractor has identified the environmental aspects of its activities, products and services – and those with significant environmental impacts. This has considered planned or new developments, or new or modified activities, products and services.	PEMP Section 5 – Environmental aspects. Sec. 5.3 lists the ‘significant’ aspects. Presented an Environmental Risk Assessment – analysed all possible risks, some standard for all projects, some specific 12/3/2018 (Appendix 6.2). Format for each aspect: <ul style="list-style-type: none"> - Objective - KPI - Actions / strategy 	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
2.7	6.1.2	The Contractor has documented this information and kept it up to date – Aspects/Impacts Register	All documented (as above). Section 2.2 refers to continuous improvement through reviews and audits; Sections 2.3 and 5.3 refer to 6-monthly reviews, or as required.	Y
2.8	Compliance Obligations (6.1.3)			
2.9	6.1.3	The Contractor has identified all legal and other requirements relevant to its environmental aspects and how they apply to the project.	<ul style="list-style-type: none"> - Legal Requirements Register (Appendix 6.6) has the general requirements for projects (for reference). - PEMP Section 5, under each of the listed aspects has as legal reference. 	Y
2.10	6.1.3	The Contractor has procedures for periodically evaluating compliance with applicable legal requirements. Records of the results of periodic evaluations are maintained	Done through internal audits, routine reviews of the CEMP, inspections. Any changes are reflected in the PEMP	Y
2.11	6.1.3 9.1.2	The Contractor periodically evaluates compliance with other requirements to which it subscribes, and keeps records of the results of evaluations.	E.g. Construction Compliance Reports against DDS conditions – First one done January 2019	Y
2.12	A9, A10	If directed by the Planning Secretary, the Contractor has ensured compliance with updated or revised versions of applicable guidelines, protocols, Standards or policies referenced in the Conditions of Consent (otherwise compliance is required with any referenced guidelines, protocols, Standards or policies in the form they are in as at the date of this consent).	N/A Note: Watpac consulted about compliance with newer requirements regarding cladding – not required	NA
2.13	A8	Structural Adequacy – All new buildings and structures, and any alterations or additions that are part of the development, must be constructed in accordance with the relevant requirements of the BCA	Has Blackett Maguire and Goldsmith Cert. Has so far 2 Crown certificates 12/07/2018 and 11/10/2018	Y
2.14	B9	The Contractor has ensured works are designed and constructed to provide access and facilities for people with a disability in accordance with the BCA. The Certifying Authority must ensure that evidence of compliance with this condition from an appropriately qualified person is provided and that the requirements are referenced on any certified plans.	June 2018 – TTW	Y
2.15	B13	Structural Drawings Prior to commencement of works, the Applicant must submit for approval of the Certifying Authority structural drawings	BCA Crown Certificate references the SSD 12/07/2018 Blackett Maguire and Goldsmith – drawings and other docs received (e.g. certifications)	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		prepared and signed by a suitably qualified practising Structural Engineer that demonstrates compliance with: a) the relevant clauses of the BCA; and b) this development consent.	BCA Crown Certificate 11/10/2018 – sighted certificate with drawings and structural adequacy	
2.16	B15	All mechanical ventilation systems must be installed in accordance with Part F4.5 of the BCA and must comply with the AS 1668.2-2012. Details must be submitted for approval of the Certifying Authority prior to commencement of the relevant works.	Permanent design item, done to BCA and relevant Australian Standards. - Item 19 of Crown Certificate - Item 7 of Crown Certificate	Y
2.17	B16	The installation, operation and maintenance of warm water systems and water cooling systems must comply with the Public Health Act 2010, Public Health Reg. 2012 and Pts 1 and 2 (or Pt 3 if a Performance-based water cooling system) of AS/NZS 3666.2:2011 Air handling and water systems of buildings - Microbial control - Operation and maintenance and the NSW Health Code of Practice for the Control of Legionnaires' Disease.	Not triggered	NA
3.0	Support (7.0)			
3.1	Competency, training and awareness (7.2, 7.3)			
3.2	7.2	The Contractor has ensured that employees and subcontractors are competent on the basis of appropriate education, training or experience. Relevant training and competency records have been retained.	HR recruitment process managed by head office. - Subcontractors: through the Tendering process – selection of qualified personnel – questionnaire to be completed. - Other, e.g. Spill kit training / emergency drills e.g. asbestos and lead product awareness – booked for 23 October 2018 Has approx. 20 subcontractors at this stage, e.g. Demolition, Plumbers, ACI, Concreters, etc.	Y
3.3	7.3	The Contractor has established a procedure to provide awareness to employees and subcontractors on: a) the importance of conformity with the environmental policy, procedures and requirements of the EMS b) the significant environmental aspects and related actual or potential impacts associated with their work, and the environmental benefits of improved personal performance,	Go through induction for all staff. Includes working hours, hazardous substances, emergencies, lighting, and other specific environmental elements Conduct of Toolbox talks – depending on actual circumstances can have WHS, Environmental and other topics. Done every Monday Have online training modules (corporate) – some are mandatory e.g. company induction (including QEHS)	Y

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Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		<p>c) their roles and responsibilities in achieving conformity with the EMS</p> <p>d) the potential consequences of not following the relevant procedures.</p>	<p>Sighted site induction Rev. 4 (same as online, some when new staff come to site).</p> <p>Environmental site rules sighted, e.g. no hot works within 6m of gas cylinders.</p> <p>Environmental awareness and Spills Management Training done 3/12/2018 e.g. Helena Veljovic + other 10 staff</p> <p>Toolbox talks every Monday (whole site) and daily pre-start (3D safety app)</p>	
3.4	C31	The Contractor must ensure that all of its employees, contractors (and their subcontractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.	<p>Apart from inductions and Toolbox Talks there is the provision of the SSD and the requirement to comply with all applicable requirements in the project documentation for the subcontractors.</p> <p>SSD given to subcontractors e.g. water proofing contractor.</p> <p>Any specific conditions are specified in the scope of works for the subcontractors e.g. noise / vibration monitoring – Delta Group.</p>	Y
3.5	Communication (7.4)			
3.6	7.4.2	Procedures are in place for ensuring internal communication with regard to the environmental aspects and the EMS	<p>Communications for updated forms and other system updates from Head Office via email.</p> <p>Weekly team meetings e.g. No. 26 of 5/12/2018 – Section 11 – Environmental Management</p> <p>Weekly subcontractor meetings e.g. No. 16 of 10/01/2019 – Plumbing, electrical, scaffolding. Environmental issues discussed – e.g. dewatering, diesel labelling, water to be flocked.</p>	Y
3.7	7.4.3	<p>Procedures are in place for communications with external parties, e.g.</p> <p>a) EPA, Council, Hospital, others</p> <p>b) Community engagement – provision of information, sensitive receivers, follow up</p>	<p>Have a weekly meeting with Hospital – not minuted as they have the details in the ‘Disruption Works Notices’ (DWN) e.g.</p> <ul style="list-style-type: none"> - No. 025 3/9/2018 for internal relocation of hoarding on a walkway. - No. 30 – 9/10/2018 – install filter on air vent requiring access to hospital; No. 28 – 19/10/2018 – change of access and site fences – consultation with fire safety staff. - Ongoing communications – e.g. via email <p>With Council – minor communications e.g. traffic, trees; send information required in SSD.</p> <p>Community – nothing to be sent without APP/Hi approval e.g. commencement letter 28th June 2018 – sent to 131 addressees (information about start of the project) – letter box drops.</p>	Y

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Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
			With Dept. of Planning: – e.g. to compliance@planning.nsw.gov.au – sent the Compliance Report and other info required e.g. environmental audit report, compliance register, etc.	
3.8	A7	Where conditions of this consent require consultation with an identified party, the Applicant must: <ol style="list-style-type: none"> a) consult with the relevant party prior to submitting the subject document for approval; and b) provide details of the consultation undertaken, including: <ol style="list-style-type: none"> i) a description of how matters raised by those consulted have been resolved to the satisfaction of both the Applicant and the party consulted; and ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved. 	As above	Y
3.9	B1	Notice of commencement of works If the construction or operation of the development is to be staged, the Contractor has notified the Department, Certifying Authority and Council, of the date of commencement and the development to be carried out in that stage. This is to be done in writing and at least 48 hours before commencement of each stage	Sighted letter of 28 th June – ‘Notification of Commencement’ A letter was dropped to neighbours for info +/- 130 residents. Note: Next stage will not happen until +/- Jan 2020	Y
3.10	Documentation (7.5)			
3.11	7.5	The Contractor has procedures for control of documents and records, which includes: <ol style="list-style-type: none"> a. approval of documents for adequacy prior to issue b. review and update and re-approval c. ensuring that changes and the current revision status of documents are identified d. ensuring that relevant versions of applicable documents are available at points of use e. ensuring that documents remain legible and readily identifiable f. ensuring that relevant documents of external origin for the planning and operation of the EMS are identified and their distribution controlled 	<ul style="list-style-type: none"> - ‘Watkins’ system – has all current system documents, templates, forms, etc. - Aconex – project specific documentation e.g. the EMP + reports - Authorisation in the plan. - Documents are available in the server. - Have access to the NSW Gov. page for the project e.g. for SSD. - Aconex docs – only have the current versions (older not shown) G-Drive – have a ‘superseded docs’ folder - Some docs / records in G:Drive 	Y

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Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		g. preventing the unintended use of obsolete documents and applying suitable identification to them if they are retained for any purpose		
3.12	B22, B23	<p>Construction Environmental Management Plan</p> <p>a. Prior to the commencement of construction works, a CEMP must be submitted for the approval of the Certifying Authority. The CEMP must address, but not be limited to, the following matters where relevant:</p> <ul style="list-style-type: none"> i) hours of work; ii) 24 hour contact details of site manager; iii) traffic management, in consultation with Council and TfNSW; iv) construction noise and vibration management, prepared by a suitable qualified person; v) management of dust and odour to protect the amenity of the neighbourhood; vi) erosion and sediment control; vii) stormwater control and discharge; viii) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the Subject Site; ix) procedures for encountering groundwater during construction works; x) external lighting in compliance with AS4282:1997 Control of the Obtrusive Effects of Outdoor Lighting; xi) a protocol detailing appropriate procedures for identifying and dealing with unexpected finds of site contamination (including asbestos containing materials, Polycyclic aromatic hydrocarbons (PAHs), Total recoverable hydrocarbons (TRH) and lead-based paint); xii) a protocol detailing appropriate proced. for identifying and dealing with unexpected finds of archaeological heritage; xiii) waste classification (for materials to be removed) and validation (for materials to remain) be undertaken to confirm the contamination status in these areas of the site; xiv) waste storage, recycling and litter control; <p>b. The CEMP must not include works that have not been explicitly approved in this development consent. In the</p>	<p>Sighted CEMP – Rev. 4 of January 2019– authorised by PM.</p> <ul style="list-style-type: none"> a) Transmittal to HI/APP 20/03/2018 via Aconex – original plan Email of 19/09/2018 – sent updated plans to Planning NSW. Aconex of 12/04/2018 to the Certifier. No comments have been received from either party. Aspects required in SSD Cl. B22 addressed generally in: <ul style="list-style-type: none"> - PEMP and Sub-Plans - Traffic mgt is an Appendix to the Safety Management Plan. - PEMP Aspects (Section 5) b) Has a Noise and Vibration for Hospital as a ‘sensitive receiver’ (not in the SSD) – but not been submitted to the client. c) Plan submitted – as per item a) above. 	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		<p>event of any inconsistency between the consent and the CEMP, the consent must prevail; and</p> <p>c. The Applicant must submit a copy of the CEMP to the Department and Council prior to commencement of work.</p> <p>The CEMP must be implemented by the contractor for the duration of the construction works</p>		
3.13	B24, B25	<p>Construction Noise and Vibration Management Plan to be submitted for approval of the Certifying Authority, to be implemented for the duration of the project and to be revised from time to time. Plan to address the following:</p> <ul style="list-style-type: none"> i) be prepared by a suitably qualified expert; ii) be prepared in consultation with Council and all adjoining noise sensitive receivers where noise levels exceed the construction noise management levels, in accordance with EPA guidelines; iii) describe the measures to be implemented to ensure <ul style="list-style-type: none"> > best management practice is being employed; > compliance with the relevant conditions of this consent; iv) describe the proposed noise and vibration management measures in detail; v) include strategies that have been developed to address impacts to noise sensitive receivers where noise levels exceed the construction noise management level, for managing high noise generating works; vi) describe the consultation undertaken to develop the strategies in v) above; vii) evaluate and report on the effectiveness of the noise and vibration management measures; and viii) include a complaints management system that would be implemented for the duration of the construction works. <p>The Contractor must submit a copy of the plan to the Dept. and to the Council prior to commencement of work.</p> <p>B25 – The CNVMP must be implemented by the contractor for the duration of the construction works.</p>	<p>CNVMP in place.</p> <p>Acoustic logic Report – has recommendations for noise & vibration controls. Baseline reference noise measured.</p> <p>Council has copy of the Plan.</p> <p>e.g. excavation works not to start before 8:00am</p> <p>Acoustic logic did measurements/ monitoring to get info for preparation of the Plan.</p> <p>Consultation was not required at this stage (sighted map – might be relevant at a later stage close to the end of the project).</p> <p>Includes recommendations for complaints management.</p>	Y
3.14	B26, B27	<p>Construction Waste Management Plan to be submitted for approval of the Certifying Authority, to be implemented for the</p>	<p>CWMP in place, Rev. 01 June 2018</p> <p>Use grasshopper as removal subcontractor.</p>	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		<p>duration of the project and to be revised from time to time. Plan to address the following:</p> <ul style="list-style-type: none"> i) recycling of demolition materials including concrete; and ii) removal of hazardous materials and disposal at an approved waste disposal facility in accordance with the requirements of the relevant legislation, codes, standards and guidelines, prior to the commencement of any building works. <p>Details demonstrating compliance with the relevant legislative requirements, associated with the removal of hazardous waste, particularly the method of containment and control of emission of fibres to the air, are to be submitted for the approval of the Certifying Authority prior to the removal of any hazardous materials;</p> <p>The Contractor must notify the RMS Traffic Management Centre of the truck route(s) to be followed by trucks transporting waste material from the Subject Site, prior to the commencement of the removal of any waste material from the Subject Site; and</p> <p>The Contractor must submit a copy of the plan to the Department and the Council prior to commencement of work.</p> <p>B27 – The CWMP must be implemented by the contractor for the duration of the construction works</p>	<p>Purpose, Goal is to reuse / recycle 80% of waste. Has +/- 8 different waste streams: concrete, steel/ metal, timber, plastic/ paper/ cardboard.</p> <p>Has identification and management of hazardous materials. Also has tracking of vehicles transporting hazardous materials (take number plates) and they send dockets.</p> <p>Grasshopper would collect and segregate waste offsite as required.</p> <p>Delta has communicated RMS routes for hazardous materials.</p> <p>Copy of the Plan submitted – as part of the Crown Certificate.</p>	
3.15	B28, B29	<p>Construction Traffic and Pedestrian Management Plan to be submitted for approval of the Certifying Authority, to be implemented for the duration of the project and to be revised from time to time. Plan to address the following:</p> <ul style="list-style-type: none"> i) location of proposed work zones & haulage routes; iii) construction vehicle access arrangements; iv) construction hours & construction program; vi) predicted construction traffic volumes and vehicle movements, types and routes including any known road closures and consideration of alternate routes; vii) assessment of road safety at key intersections and locations subject to heavy vehicle movements and high pedestrian activity; 	<p>CTPMP – Part of the Safety Management Plan Submitted and in implementation.</p> <p>3 main types of plans</p> <ol style="list-style-type: none"> 1. CTMP – overarching prepared by RMS <ul style="list-style-type: none"> - Approved routes - Not affected by peak hour traffic 2. TCPs – e.g. for general site entry and egress; for crane erection, delivery of equipment 3. VMP (Vehicle Movement Plans) – e.g. delivery of tower crane equipment 	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		<p>viii) details of construction vehicle movements including parking, dedicated vehicle turning areas and ingress and egress points; ix) details of anticipated peak hour and daily truck movements to and from the site; x) details of access arrangements for workers to/from the site, emergency vehicles and service vehicle movements; xi) details of temporary cycling and pedestrian access during construction; xii) details of proposed construction vehicle access arrangements at all stages; xiii) loading and unloading; xiv) details of management measures to minimise traffic impacts, including temporary road works and/or implementation of traffic control measures; xv) pedestrian and traffic management methods; xvi) any potential impacts to general traffic, cyclists, pedestrians and bus services within the vicinity of the site from construction vehicles during the works; xvii) consideration of the cumulative construction traffic impacts of surrounding projects under construction, including those within the Hornsby Ku-ring-gai Hospital precinct. Existing CTPMPs for developments within or around the Site should be referenced in the CTPMP to ensure that the coordination of work activities are managed to minimise impacts on the surrounding road network; and xviii) traffic and transport impacts during construction and how these impacts will be mitigated for any associated traffic, pedestrian, cyclists, parking and public transport, which must include vehicle routes, number of trucks, hours of operation, access arrangements and traffic control measures for all demolition/ construction activities.</p> <p>The Contractor must submit a copy of the CTPMP to the Department and to the Council, prior to the commencement of works.</p> <p>B29 – The CTPMP must be implemented by the contractor for the duration of the construction works</p>		
3.16	A15, A16	<p>If necessary the strategies, plans and programs required under this consent must be revised, to the satisfaction of the Secretary.</p>	<p>Initial documents sent in March 2018 and then updates were sent in September 2018.</p>	

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		Where revisions are required, the revised document must be submitted to the Planning Secretary for approval within six weeks of the review.	The CEMP Rev. 03 was sent to Planning as part of the Construction Compliance Report. However, a more recent version has been issued (Rev. 04), which has not been submitted to Planning as yet.	OFI-01
3.17	C1	Approved Plans to be On-site. A copy of the approved and certified plans, specifications and documents incorporating conditions of approval and certification must be kept onsite at all times and must be readily available.	Plans Available in site office and in Server (G: Drive). <ul style="list-style-type: none"> - 2 REFs - SSD - Certifications (e.g. Crown Cert) – G:Drive - Plans Aconex 	Y
3.18	Control of records (7.5)			
3.19	7.5.3	The Contractor has established and maintained necessary records to demonstrate conformity to the requirements of its EMS and the Standard, and the results achieved.	PEMP Sec. 4.12. <ul style="list-style-type: none"> - Safety e.g. Inductions, Toolbox Talks (hard copies, kept in folder in Safety Advisor bookshelf) - Inspections, other environmental records – have a folder in shared drive e.g. complaints, waste diversion reports, meeting inspections 14/01/19 - Reports – Aconex e.g. EIS, contamination, others within SSD, Drawings - Sighted Water Report Card 15/01/19 & 20/12/18 (Turbidity test failed, so water was not discharged) 	Y
3.20	7.5.3	Procedures have been established for the identification, storage, protection, retrieval, retention and disposal of records.	Part of the Head Office Management System procedures – Document Control procedure Have a document controller.	Y
4.0	Operation			
4.1	Operational controls (8.1)			
4.2	8.1	The Contractor has identified and planned controls associated with the significant environmental aspects to ensure that operations are carried out under conditions that minimise harm to the environment.	All Aspects identified in the CEMP have Management Strategy and specific actions e.g. Protection of utility services: <ul style="list-style-type: none"> - Strategy – e.g. awareness; marking - Actions – e.g. scanning (non-destructive); OHW protections; DBYD; etc. 	Y
4.3	Conditions of Development Consent – Before Commencement of Works			
4.4	A6	No consent is granted for the demolition of the 'Palmerston' building.	Not part of SoW. Was a provision under the submission, not approved at this point.	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
4.5	A17	All plant and equipment used on site, or to monitor the performance of the development must be: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	Done as part of the safety system. Controlled through 3D Safety app e.g. forklift sighted onsite. Daily inspections and service every 500hs for equipment onsite. Sighted details of machine on the 3D safety app for Forklift (Merlo) during site inspection. Forklift service – 28/11/18. Ticketed staff	Minor NC-01
4.6	A19, EPA Reg. Cl 98A, C23	Prescribed conditions – Signage: 2) A sign must be erected in a prominent position on any site on which building work, subdivision work or demolition work is being carried out: (a) showing the name, address and telephone number of the principal certifying authority for the work; (b) showing the name of the principal contractor (if any) for any building work and a telephone number on which that person may be contacted outside working hours; (c) stating that unauthorised entry to the work site is prohibited. Site Notice – to include certifying authority, structural engineer, the approved hours of work.	Sighted during site walk, required items included.	Y
4.7	B3, B4	Reflectivity, Outdoor lighting Compliance with requirements	Certifier has provided all the architectural drawings including exterior finishing schedule. Sighted: - Certificate of Design for reflectivity of 7/09/18 by Bonacci Group. - Electrical Design Cert. Wood & Grieve Eng. 15/8/18 Crown Certificate 11/10/2018 items 11, 12, 6, 17	Y
4.8	B5-B8	Hazards – design of oxygen supply The Contractor has ensured that: B5 The design and operation of the hospital's oxygen supply system (including the use of the liquid oxygen bulk storage tanks, any oxygen cylinders connected to the oxygen supply system and any temporary oxygen supply tanks) be in accordance with	HealthShare has coordinated the replacement of the oxygen tank. Logistics were coordinated with Watpac, as access had to be given through the worksite. The protection shed was lowered after the tank was replaced.	

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		<p>AS 1894 'The storage and handling of non-flammable cryogenic and refrigerated liquids' (AS 1894).</p> <p>B6 All control measures or safeguards described in the Preliminary Hazard Analysis (PHA, 9 February 2018) will be implemented.</p> <p>B7 As necessary and in accordance with AS 1894, the hospital's Emergency Plan and emergency procedures have been updated to include emergency situations involving the hospital's oxygen supply system, as described in the PHA (9 February 2018).</p> <p>B8 If temporary oxygen supply tanks are to be installed prior to demolition of existing liquid oxygen bulk storage tanks for the purpose of hospital oxygen supply prior to commissioning of new tanks, the design and operation of these temporary tanks must be verified with AS 1894 and/or other relevant Australian Standards.</p>	<ul style="list-style-type: none"> - E.g. Signage – minimum exclusion zone for hot works and maintain clear access to the tanks (in case access is required). Communications in place when refuelling. - Suggest that HI consult with the Hospital whether updates to their emergency procedures occurred as a result of the changes in the oxygen tank - N/A 	OFI-02
4.9	B10	<p>The Contractor has submitted Plans demonstrating compliance with the following requirements for bicycle parking, to the satisfaction of the Certifying Authority:</p> <p>a) provision of a minimum of 18 bicycle parking spaces;</p> <p>b) layout, design and security to comply with all applicable minimum requirements of AS 2890.3:2015 Parking facilities - Bicycle parking, and be located in secure, convenient and accessible areas close to the main entries, incorporating adequate lighting and opportunities for passive surveillance; and</p> <p>c) provision of end-of-trip facilities for staff including showers, change room and lockers.</p>	<p>Architectural drawings submitted for certification. Part of Crown Certificate.</p> <p>Note: Construction of the bicycle parking will become relevant at the very end of the project.</p>	Y
4.10	B12	<p>Pre-Construction dilapidation reports</p> <p>Report submitted to the satisfaction of the Certifying Authority & copy to Council</p>	<ul style="list-style-type: none"> - Email of 19/09/2018 sent to Planning and Council with dilapidation reports. - Presented 4 reports: <ul style="list-style-type: none"> - Derby – Watpac 	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
			<ul style="list-style-type: none"> - Star and Hope – Structural Engineer (Cardno) - Cottage 93 – Watpac - Little Learning School – Structural Eng. 04/09/18 Photographic report / condition of building 	
4.11	B18	<p>Public Footpath</p> <p>The existing concrete footpath along the boundary of the site is to be reinstated where impacted by the proposed works to relevant Council specifications and standards</p>	Footpath not affected at the moment under this SSD.	NA
4.12	B19	<p>Stormwater and Drainage Works</p> <p>Designed in accordance with Council's relevant specifications and standards and other specific requirements. Water treatment system designed as per Council requirements</p>	Crown Certificate – Hydraulic outside fence – covered by another works conditions (REF determination – approval 004/2018 – 04/04/2018)	Y
4.13	B20	<p>On-site Stormwater detention and Water Quality</p> <p>An on-site stormwater detention system must be designed by a chartered civil engineer and constructed in accordance with the following requirements:</p> <ol style="list-style-type: none"> a) the developing area of the site shall ensure its 5-year average recurrence interval (ARI) runoff reduced to the pre-development site cover rate. The volume of the onsite detention system shall ensure its capable of detaining the 20-year ARI post-development site cover storm; b) the water quality treatment system shall be designed and constructed to provide water quality outcomes as per Council's HDCP2013 Section 1 C.1.2.i requirements; c) have a surcharge/inspection grate located directly above the outlet; d) discharge from the detention system must be controlled via 1 metre length of pipe, not less than 50 millimetres diameter or via a stainless plate with sharply drilled orifice bolted over the face of the outlet discharging into a larger diameter pipe capable of carrying the design flow to an approved Council system; e) where above ground and the average depth is greater than 0.3 metres, a 'pool type' safety fence and warning signs must be installed; and f) not be constructed in a location that would impact upon the visual or recreational amenity of residents. 	<p>Civil Design Certificate (Crown Certificate, Item 4)</p> <p>Not triggered (will be done in Stage 4)</p>	Y

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Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
4.14	B21	<p>Road Works</p> <p>Kerb and gutter, stormwater drainage, full road width pavement including traffic facilities (vehicle crossings, if applicable) and paved footpaths must be constructed along the area where road works are to be undertaken. In relation to public roads or classified road (as defined under the Roads Act 1993), all roads and traffic facilities must be designed to meet the requirements of Council and RMS (if applicable) and obtain any necessary permits and approvals from the relevant road authority, prior to the commencement of road or pavement construction works.</p>	<p>No road works conducted at the moment. Road reinstatement as part of the REF (see checklist item 4.12)</p>	NA
4.15	B32, B33	<p>Utility Services</p> <p>Prior to the commencement of construction work the Contractor is to negotiate (as necessary) with the utility authorities (e.g. Ausgrid and telcos) in connection with the relocation and/or adjustment of the services affected by the construction of the building structure.</p> <p>Prior to the commencement of above-ground works written advice must be obtained from the electricity supply authority, an approved telco carrier and an approved gas carrier (as relevant) stating that satisfactory arrangements have been made to ensure provision of adequate services</p>	<p>Communicated with Telcos, Ausgrid about low power lines.</p> <p>A new substation is to be built – will communicate with Ausgrid. Otherwise no interaction required.</p>	Y
4.16	B34	<p>External Walls and Cladding</p> <p>Compliance with requirements of the NCC</p>	<p>Design has been submitted – final design. Sighted various Certificates for Alcadex, Deco, Finesse, Terracade, etc.</p>	Y
4.17	B42 B45	<p>Tree Protection</p> <p>The tree protection measures outlined in the <i>Arboricultural Development Assessment Report</i>, prepared by Moore Trees, dated October 2017, are to be implemented and maintained.</p> <p>Certification from the arborist required.</p>	<p>Have a report from Moore Trees – provide a Tree Protection Plan Sighted email 25/09/2018 with response from Nick – no action at the moment (for retained trees) – in 2020 +/- Tree removal – sent application to council; some were done by a licenced arborist.</p>	NA

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4.18	B43	A project arborist with AQF Level 5 qualifications must be appointed to provide monitoring and certification throughout the construction period.	Moore Trees	Y
4.19	B44, C32	Tree protection fencing for the trees to be retained must be erected around trees to be retained at a minimum distance based on the trees structural root zone Building materials and Site Waste The filling or stockpiling of building materials, the parking of vehicles or plant, the disposal of cement slurry, waste water or other contaminants must be located outside the tree protection zones as prescribed in the conditions of this consent.	N/A for now. Will become relevant at a later stage.	NA
4.20	B46	Ecologically sustainable development – details of design measures to be submitted, equivalent to Green Star Health Care 4 star rating	Natural ventilation, natural lighting Steensen Varming (consultant) Report of 21/02/2018 has options regarding façade, ventilation, mechanical.	Y
4.21	Conditions of Development Consent – During Construction			
4.22	C2, C3	Construction Hours Compliance with requirements	7am – 6pm weekdays – usually end at 4pm 8am – 1pm Saturday No work on Public Holidays Note: REF for alternate project has different working hours	Y
4.23	B14	Construction Noise Management Contractor must incorporate all relevant noise mitigation recommendations in the letter <i>Hornsby Ku-ring-gai Hospital Stage 2 Redevelopment - Response to Planning NSW Queries</i> prepared by Acoustic Logic, dated 26 April 2018, in the detailed design drawings and submit for the approval of the Certifying Authority.	Noise management during construction is as per the CNVMP. Some design elements (for final building), e.g. generators insulation. – done (Crown Cert design item). Contractor follows the Plan which covers more detail than the Acoustic Logic report.	Y
4.24	C4	All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and	Controls established as per Acoustic Logic Report, e.g. - Machinery to be used, e.g. to avoid use of reverse beep where possible - Bored piles (rather than driven piles) - Use of plywood panels (rather than 'acoustic panels')	

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Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		managed in accordance with the CNVMP required under condition B25.	Conduct Noise Monitoring readings – Hand held noise monitor used during weekly environmental inspections. Sighted weekly environmental inspection – item 6 M1: 74.3 dB; Canteen: 58.2 dB. Suggested to conduct noise monitoring measurements in locations different from the current ones, as works and the site layout have changed	OFI-03
4.25	C5	If the noise from a construction activity is substantially tonal or impulsive in nature (as described in Chapter 4 of the Noise Policy for Industry, 5 dB(A) must be added to the measured construction noise level when comparing the measured noise with the construction noise management levels.	See Item 4.31	Y
4.26	C6	The Contractor must ensure construction vehicles do not arrive at the Subject Site or surrounding residential precincts outside of the construction hours of work outlined under condition C2.	There is a specific area for construction vehicles to park to bring materials or load with waste. Only scheduled during working hours. Note: Sometimes workers arrive before 7am to get ready – there is a shuttle bus from 5am – 5pm. Generally is not an issue.	Y
4.27	C7	The Contractor must schedule intra-day 'respite periods' for construction activities identified in the Interim Construction Noise Guideline	Some exceedances expected – e.g. vibration during pouring – then communicate with the hospital and/or other receivers. Go by communications with the Hospital. Respite – during staff breaks (two breaks in the day, morning tea and lunch). No complaints about noise have been received.	Y
4.28	C8	Wherever practical, and where sensitive receivers may be affected, piling activities are completed using bored piles	Done, as per checklist item 4.24. Half of the work is completed, to be finished by mid-February.	Y
4.29	C9	The Contractor must implement, where practicable and without compromising the safety of construction staff or members of the public, the use of audible movement alarms of a type that would minimise noise impacts on surrounding noise sensitive receivers.	Minimise use of reversing in vehicles – use of squawkers, no beeping Have a regime for maintenance of equipment – records kept in hard copy in safety folder at the site office.	Y
4.30	C10	Any noise generated during construction of the development must not be offensive noise within the meaning of the Protection of the Environment Operations Act 1997 or exceed approved noise limits for the Subject Site	1 noise monitoring device, used in 2 locations 75 – 80 dB(A) as per Noise & Vibration Management Plan, no more than 15min. Suggest adding more locations for noise monitoring – Refer checklist Item 4.24.	OFI-03

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Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
4.31	C11	<p>Vibration Criteria</p> <p>Vibration caused by construction works to meet the established limitations.</p>	<p>Criteria to work to: 1mm/s</p> <p>Sighted Vibration Analysis register (exceedances above 0.8).</p> <p>2 vibration monitors installed (1 close to demolition site, 1 in existing building) – no exceedances.</p> <p>Sighted monitoring report by Acoustic Logic.</p> <p>Receive live information via SMS.</p>	Y
4.32	C14	<p>Waste</p> <p>All waste generated during construction must be assessed, classified and managed in accordance with the Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014)</p>	<p>Presented report from Grass Hopper – Have a report for August 2018 – waste streams – 85% recycled.</p> <p>Letters:</p> <ul style="list-style-type: none"> - Delta Report – including docket ID, material, quantities. - Sighted acceptance letter for Genesis Landfill & Recycling Centre 9/11/18. - Clearway 2/2/18 – acceptance letter for hazardous solid waste. - Kimbriki – 6/3/18 licenced acceptance of waste <p>Sighted Waste Report Project to date – Aug-Dec 2018.</p> <p>Sighted Watpac Report with all waste tonnage & recycled including quantities of Grass Hopper, Delta and Others. Total average 81% recycled. Target 80% or more (by weight).</p>	Y
4.33	B17	<p>Storage and Handling of Waste</p> <p>An appropriate area will be provided within the premises for the storage of garbage bins, recycling containers and all waste and recyclable material generated by the site.</p>	<p>Observed during site walk – Bins and containers for different waste streams located in different locations within the site.</p>	Y
4.34	C15	<p>The body of any vehicle or trailer used to transport waste or excavation spoil must be covered before leaving the premises to prevent any spillage or escape of any dust, waste of spoil. Mud, splatter, dust and other material likely to fall from or be cast off the wheels, underside or body of any vehicle, trailer or motorised plant leaving the site must be removed before leaving the premises.</p>	<p>Trucks have a cover coming out of a mast – process observed.</p> <p>Grass Hopper covers material, except steel bins.</p> <p>Delta – spoil, demolition material</p>	Y
4.35	C16	<p>The Contractor must ensure that concrete waste and rinse water are not disposed of on the Subject Site and are prevented from entering any natural or artificial watercourse.</p>	<p>Observed during site walk – there is a concrete washout tray.</p> <p>Plastic covering tray – then is tipped in the bin.</p>	Y
4.36	C34	<p>Excavated Material</p>	<p>Sighted various dockets of waste delivered to different waste facilities according to classification.</p>	Y

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		All excavated material removed from the site must be classified by a suitably qualified person in accordance with the Department of Environment, Climate Change and Water NSW Waste Classification Guidelines prior to disposal to an approved waste management facility.	Tipping docket for Dec 2018, e.g. 5/12/18 Delta asbestos soil 7.38 tons.	
4.37	C36	Trade Waste Liquid trade waste generated on the site must be discharged in accordance with a trade waste agreement with Sydney Water and by a licensed liquid trade waste contractor.	No trade waste. When required, water is tested, pumped out to stormwater after verification of measurements.	NA
4.38	C21	All construction vehicles associated with the proposed development are to be contained on site, unless otherwise approved through the approval for a construction zone on the Council roadway	Approval letter from Hornsby Shire Council for the 'Work Zone' 5/6/18 – applied on 29/05/18. Ref No. F2004/09773.	Y
4.39	C22	Demolition To protect the surrounding environment, all demolition work must be carried out in accordance with "Australian Standard 2601-2001 - The Demolition of Structures" and the following requirements: <ul style="list-style-type: none"> - Demolition material must be disposed of to an authorised recycling and/or waste disposal site and/or in accordance with an approved waste management plan - Any asbestos to be removed by a licenced contractor - Meet signage requirements 	Removal of asbestos has been performed. Done by a licenced removal contractor and sent to an approved facility. Acceptance letters by Cleanaway – Ok EPL Licence No. 10939 for Birgo, Auburn (General Waste) EPL Licence No. 13426 for Genesis (Asbestos) EPL Licence No. 13091 for Kimbriki (Asbestos) EPL Licence No. 20339 for Veolia (Asbestos)	Y
4.40	B11, C19	Erosion and Sediment Control Soil erosion and sediment control measures must be designed in accordance with Blue Book & approved by certifying authority. Control measures to be effectively implemented and maintained for the duration of the works.	TTW – civil consultants – provided a Sediment Control Plan – mostly from Blue Book – CIV-DNG-00-902 Rev. A 28/06/2018 issued for construction. Controls observed during site visits, e.g. sand bags around drains. Some drains have been disconnected.	Y
4.41	C20	Disposal of Seepage and Stormwater Not to be pumped to the street stormwater system unless approved	Wastewater is tested (e.g. after a rain event) and pumped to stormwater drain if below limits e.g. 'Water Meter Report Cart' of 14/09/2018: Turbidity 23 NTU (<50); pH 6.77 (between 6.5 and 8) – Ok to dispose of.	Y

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4.42	C12, C13	<p>Contamination</p> <p>Remediation works at the site are to be undertaken in accordance with the recommendations and findings of the Remediation Action Plan prepared by Douglas Partners and dated May 2018.</p> <p>C13 Should any new information come to light during construction works which has the potential to alter previous conclusions about contamination, the Certifying Authority must be immediately notified and works must cease in the vicinity of the suspected contamination. The Certifying Authority will determine whether further investigation, or the need for remediation, is required before construction works can recommence</p>	<p>An old fuel storage tank had to be removed and soil remediated – followed a process for cleaning / decommissioning / removal of tank and removal of contaminated soil.</p> <ul style="list-style-type: none"> - stockpile / test / classify / remove - sighted docketts (42) of GSW sent to Genesis <p>Remediation Action Plan – Douglas Partners Asbestos removal control plan prepared by ASP – Rev.6 of 14/11/18</p>	Y
4.43	C17	<p>Handling of Asbestos</p> <p>The Applicant is to consult with SafeWork NSW concerning the handling of any asbestos waste that may be encountered during construction</p>	<p>Used licenced contractors (Delta / ASP) – sighted Asbestos Removal Control Plan. Sighted docketts sent to Genesis (by Delta) – 36 of them August 2018</p> <p>Have: - Asbestos Register</p> <ul style="list-style-type: none"> - Air monitoring and clearance - WorkCover notification – by ASP 20/08/2018 <p>WSP – Occupational Hygienist. 24/11/18 testing, air monitoring, fuel + diesel particles monitoring</p>	Y
4.44	C18	<p>Unexpected Finds - Non-Aboriginal Heritage</p> <p>Procedure in place, cease works, contact OEH, assess, take action.</p>	<p>No cultural / non-Aboriginal Heritage finds. Mentioned statues of lions, which have been saved and will be relocated.</p>	NA
4.45	C25, C26	<p>Hoarding/Fencing Requirements</p> <p>A temporary hoarding, fence or awning must be erected between the work site and adjoining lands before the works begin and must be kept in place until after the completion of the works;</p> <p>Other requirements: no advertising material, no graffiti</p>	<p>Have a mixture of solid hoardings and fencing in the perimeter of the site. Condition monitored daily.</p>	Y
4.46	C33	<p>Council Property – no materials on footpath</p>	<p>Site is well enclosed, no materials present on footpath as observed during site walk.</p>	Y

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4.47	C35	Storage of Flammable and Combustible Goods in bunded area	Delta has a cabinet for dangerous goods with bunded area. Have a locked cage for gases. Containers found during site visit were not labelled. Ensure labels are placed on containers	OFI-04
4.48	C37	Traffic Control Compliance The development must be carried out in accordance with the Construction Traffic Management Plan prepared under this consent.	Have permanent traffic controllers at the site entry as per TMP. TMP prepared by RTMS (staff blue card) Will submit another plan if required (e.g. as it happened for crane erection). Presented a Vehicle Movement Plan – for long vehicles – sent to all relevant contractors	Y
4.49	Emergency preparedness and response (8.2)			
4.50	8.2; B7	The Contractor has established procedures to: <ul style="list-style-type: none"> - identify potential emergency situations and potential accidents that can have an impact(s) on the environment - determine how it will respond to them 	Have an Emergency Response Plan Rev.5 of 5/11/18 signed by the PM. Different scenarios are included, safety and environmental. Have flowcharts for: <ul style="list-style-type: none"> - Notifications; - Injuries; - Evacuation; - Medical emergencies; - Fire An emergency contacts list is in place, however details of communications with Hospital (+/- 5 levels of notification) could not be sighted	OFI-05
4.51	8.2	The emergency response procedures include measures to prevent or mitigate associated adverse environmental impacts.	As above	Y
4.52	8.2	Emergency preparedness and response procedures are periodically reviewed and revised, as necessary, in particular, after the occurrence of accidents or emergency situations. Emergency preparedness and response procedures are periodically tested, where practicable	Emergency Plan gets reviewed periodically, as the site layout changes. Rev. 5 was issued after evacuation drill	Y
5.0	Performance Evaluation (9.0)			
5.1	Monitoring and measurement (9.1)			
5.2	9.1	Documented procedures have been established to monitor and measure on a regular basis the key characteristics of operations that can have significant environmental impacts.	Conduct weekly Environmental Inspections – have a folder with inspections e.g. 14/01/19, including site accommodation; water discharge; erosion & sedimentation controls; air quality management, complaints, etc.	Y

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5.3	9.1.1	The procedures include: <ul style="list-style-type: none"> - the documenting of information to monitor performance - effectiveness of applicable operational controls - conformity with the organization's environmental objectives and targets 	Monitoring documented in the PEMP. Effectiveness to be assessed when preparing Performance Report for Planning – done for the second semester 2018. Conformity with environmental objectives and targets assessed.	Y
5.4	9.1.1	Monitoring and measuring equipment is calibrated, maintained and stored as necessary. Records or calibration are maintained	Noise monitor self-calibrates – gets a new device each year. Has 2 vibration monitors – calibration certificates were not available for review	Minor NC-01
5.5	A11	Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, noncompliance notification and independent environmental auditing.	AQUAS Audits – as per SSD Conditions B39, B40	Y
5.6	B35, B36	Compliance Reporting A Pre-Construction Compliance Report must be prepared for the development, and submitted to the Certifying Authority for approval before the commencement of construction works.	Report by Blackett and McGuire Goldsmith.	Y
5.7	B37, B38, C30	Construction Compliance Reports must be submitted to the Department at compliance@planning.nsw.gov.au for information every six months from the date of commencement of construction, for the duration of construction. The Construction Compliance Reports must provide details on the compliance performance of the development for the preceding six months and must be submitted within one month following the end of each six-month period for the duration of construction of the development, or such other timeframe as required by the Secretary. The Construction Compliance Reports must include: <ol style="list-style-type: none"> a results summary and analysis of environmental monitoring; the number of any complaints received, including a summary of main areas of complaint, action taken, response given and 	As works commenced approximately 3 months ago the first report has not yet been prepared. First six-monthly Construction Compliance Report has been prepared and submitted. Suggest including additional information in the six-monthly Compliance Report as per the Planning document <i>Compliance Reporting Post Approval Requirements June2018</i> .	OFI-06

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		<p>proposed strategies for reducing the recurrence of such complaints;</p> <p>c) details of any review of the CEMP and the Environmental Management Strategy and associated sub-plans as a result of construction carried out during the reporting period;</p> <p>d) a register of any modifications undertaken and their status;</p> <p>e) results of any independent environmental audits and details of any actions taken in response to the recommendations of an audit;</p> <p>f) a summary of all incidents notified in accordance with this consent; and</p> <p>g) any other matter relating to compliance with the terms of this consent or requested by the Secretary.</p>		
5.8	B39, B40, B41	<p>Independent Environmental Audit</p> <p>No later than a month before the commencement of construction works or as agreed with the Secretary, a program of independent environmental audits must be prepared for the development in accordance with the latest version of ASINZS ISO 19011-2014: Guidelines for Auditing Management Systems (Standards Australia, 2014) and submitted to the Secretary for information.</p> <p>The scope of each audit must be defined in the program. The program must ensure that environmental performance of the development in relation to each compliance requirement that forms the audit scope is assessed at least once in each audit cycle.</p> <p>The environmental audit program prepared and submitted to the Secretary must be implemented and complied with for the duration of the development.</p> <p>> All independent environmental audits of the development must be conducted by a suitably qualified, experienced and independent team of experts and be documented in an audit report which:</p> <p>a. assesses the environmental performance of the development, and its effects on the surrounding environment including the community;</p>	<p>Environmental Audit conducted by AQUAS in September 2018.</p>	Y

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		b. assesses whether the development is complying with the terms of this consent; c. reviews the adequacy of any document required under this consent; and d. recommends measures or actions to improve the environmental performance of the development, and improvements to any document required under this consent. > Within three months of commencing an Independent Environmental Audit, or as agreed with the Secretary, a copy of the audit report must be submitted to the Secretary, and any other NSW agency that requests it, together with a response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The recommendations must be implemented to the satisfaction of the Secretary		
5.9	C27	At least 48 hours before commencement of construction until the completion of all works, the Contractor must make the following information and documents publicly available on its website: - statutory approvals - approved strategies, plans and programs - performance reporting & monitoring results - project status - complaints register Information must be kept up to date.	NSLHD have been provided with information for publication in their website, to be followed up by HI	OFI-07
5.10	Internal Audit (9.2)			
5.11	9.2	The Contractor has ensured that internal audits of the EMS are conducted at planned intervals to determine: a. whether it conforms to planned arrangements for environmental management including the requirements of the Standard b. whether it has been properly implemented and is maintained	Done by Morasey on 12/12/ 2018 Some low priority suggestions and 2 high priority, regarding labelling of fuel storage and separation of gas and flammable liquids.	Y

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5.12	Management Review (9.3)			
5.13	9.3	Top management reviews the EMS at planned intervals to ensure its continuing suitability, adequacy and effectiveness. Reviews include assessing opportunities for improvement and the need for changes to the EMS, including the environmental policy and environmental objectives and targets.	Happens at a Head Office level.	-
6.0	Improvement (10.0)			
6.1	Nonconformity, corrective and preventive action (10.2)			
6.2	10.2	Procedures are in place for: <ol style="list-style-type: none"> identifying and correcting nonconformities and taking actions to mitigate their environmental impacts investigating nonconformities, determining their causes and taking actions in order to avoid their recurrence evaluating the need for actions to prevent nonconformities or avoid their occurrence recording the results of corrective and preventive actions taken reviewing the effectiveness of corrective and preventive actions 	Have a Corrective Actions Register and Corrective Action Report Form, e.g. <ul style="list-style-type: none"> - Sent a notice via Aconex with issue identified during weekly inspection 27/07/2018 (Geofab not well placed in drain). Officially closed out on 1/08/2018. 	
6.3	10.2	Any necessary changes arising from corrective and preventive actions are reflected in the EMS documentation.	Reviews to be made as required.	-
6.4	A12	The Department must be notified in writing to compliance@planning.nsw.gov.au within seven days after the Applicant becomes aware of any non-compliance. The Certifying Authority must also notify the Department within seven days after they identify any non-compliance.	No non-compliances identified so far.	NA
6.5	A13	The notification must identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance	As above	NA

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
6.6		Complaints Management		
6.7	B30	<p>Complaints and enquiries procedure</p> <p>The following must be made available for community enquiries and complaints for the duration of construction:</p> <ul style="list-style-type: none"> a) a toll-free 24-hour number for complaints and enquiries about the works; b) a postal address to which written complaints and enquires may be sent; and c) an email address to which electronic complaints and enquiries may be transmitted. 	<p>Have a Complaints Register.</p> <p>24-hour number and email address available in signage at worksite entrance. No postal address, but it was agreed with HI that this is not necessary, and can be provided via the phone number or email.</p>	Y
6.8	B31	<p>A Complaints Management System must be implemented, including a Complaints Register to be maintained recording information about all complaints associated with the project, e.g.</p> <ul style="list-style-type: none"> d) number of complaints received; e) number of people affected in relation to a complaint; f) nature of the complaint and means by which the complaint was addressed and whether resolution was reached, with or without mediation. 	<p>Have a Complaints Register, e.g.</p> <ul style="list-style-type: none"> - Complaint dated 4/07/2018 – various grievances from a neighbour (6 Derby Rd). - Concrete under a vehicle – other contractor, not for this site. - Vehicle accident - From Maternity Ward – loud music and foul language. Issue addressed with employees and subcontractors. <p>Recent:</p> <ul style="list-style-type: none"> - HI – one received from a local MP (related to other consent); one through Planning. Pass onto the right party for re-certification. - Jan/19 (last week) received complaint that works started earlier than allowed. Any works being undertaken were stopped. 	Y
6.9		Incident Management		
6.10	A23, C28 A14	<p>The Department must be notified in writing to compliance@planning.nsw.gov.au within 24 hours after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one), and set out the location and nature of the incident.</p> <p>Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.</p>	<p>No environmental incidents have been reported.</p>	NA

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
6.11	A24	<p>a) A written incident notification must also be emailed to the Department at the following address: compliance@planning.nsw.gov.au within seven days after the Applicant becomes aware of an incident. Notification is required to be given under this condition even if the Applicant forms the view that an incident has not occurred.</p> <p>b) Written notification of an incident must:</p> <ul style="list-style-type: none"> i) identify the development and application number; ii) provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident); iii) identify how the incident was detected; iv) identify when the Applicant became aware of the incident; v) identify any actual or potential non-compliance with conditions of consent; vi) describe what immediate steps were taken in relation to the incident; vii) identify further action(s) that will be taken in relation to the incident; and viii) identify a project contact for further communication regarding the incident. 	As above.	NA
6.12	C29	Within seven days of the detection of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested in accordance with condition A 19.	As above	NA

Appendix E – SSD 8647 Modifications Register

SSD 8647 Modification Register

Modification Number	Condition Modified	Modification Title	Modification Description	Date of Approval	Status
SSD 8647 MOD 1	B17	Deletion of 'c' - Separate Storage and Collection of Organic waste	Storage and Handling of Waste, to delete requirement 'c' to provide separate storage and collection of organics/food waste.	8-May-19	Approved
SSD 8647 MOD 2	A2	Modification To Incorporate Extensions of the Vertical Circulation Structures and Roof Form to Accommodate a non-operational Helipad	<p>The modification seeks to modify the approved Stage 2 redevelopment to provide the structural elements for a non-operational helipad. The modifications are detailed in the supporting architectural plans prepared by STH Architects attached in Appendix A and include:</p> <ul style="list-style-type: none"> • Extension of the lift shaft to serve Level 7 to provide future access to the concrete landing platform, including the overruns (C1 and the adjacent future lift core); • Extension of fire stair 3 to provide access to Level 7 (the roof); • Construction of the lift lobbies; • All associated façade and cladding works linked to the extensions of the lift and stair cores; and • Replacement of the existing approved metal roof above Level 6 with a concrete roof to accommodate a future helipad landing platform. A steel metal frame is to be constructed around the perimeter of the concrete roof to accommodate a non-operational helipad safety net. 	25-Jul-19	Approved

Appendix F – WTP Project Environmental Management Plan (Rev.05 – July 2019)



Project Environmental Management Plan (PEMP)

Project No. N206
Contract No. HI17381

Hornsby Ku-ring-gai
Hospital Stage 2 and
Medical Imaging Building

Jul 2019

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Revision History

Issue	Date	Revision Description	Authorised by
1	March 2018	Contract Issue	Tim Williams (Construction Manager)
2	25 June 2018	SSD	Nick Limbrey (Project Manager)
3	November 2018	General review / update, incorporating recommendations from Independent Audit (Aquas) 26/9/19 and report 17/10/18	Nick Limbrey (Project Manager)
4	January 2019	General review and update, incorporating recommendations from Audit (Morasey) 12/12/18 and review of objectives & targets	Nick Limbrey (Project Manager)
5	July 2019	General update in accordance with requirements of REF 004/2018	Nick Limbrey (Project Manager)

Abbreviations

Abbreviation	Meaning
AASS	Actual Acid Sulfate Soil
ARMP	Approved Risk Management Plan
ASS	Acid Sulfate Soil
CAR	Corrective Action Request
CEMP	Construction Environmental Management Plan
CMS	Construction Management System
DAF	Department of Agriculture and Fisheries
DEHP	Department of Environment and Heritage Protection
ECC	Environmental Clearance Certificate
EMP	Environmental Management Plan
EMS	Environmental Management System
EPA	Environmental Protection Act
EPBC	Environmental Protection Biodiversity Conservation Act
ESC	Erosion and Sediment Control
ESCP	Erosion and Sediment Control Plan
ESD	Ecologically Sustainable Development
HMP	Heritage Management Plan
HOTO	Handover Takeover
HSEQ	Health, Safety, Environment and Quality
IECA	International Erosion Control Association
KPI	Key Performance Indicator
MSDS	Material Safety Data Sheet
NCR	Non-conformance Report
NEPM	National Environmental Protection Measure
NGER	National Greenhouse and Energy Reporting
NPI	National Pollutant Inventory
NSMS	National Safety Management System
PASS	Potential Acid Sulfate Soil
PEMP	Project Environmental Management Plan
PERP	Project Emergency Response Plan
PFC	Perfluorinated Compound
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctane Sulfonate
PMCA	Project Manager / Contract Administrator
PPE	Personal Protective Equipment
QMS	Quality Management System
RDO	Rostered Day Off
REO	Regional Environmental Officer
RI	Restricted Items
RIFA	Red Imported Fire Ant
SDS	Safety Data Sheet
UXO	Unexploded Ordnance
WOL	Whole Of Life

1. System Application and Authorisation

1.1. Planning Environmental Management

Watpac is committed to safely construct the project, on time and on budget, without harm to the environment.

In particular Watpac will:

- Comply with the ESD and environmental requirements of the Contract and Contract Specifications
- Comply with relevant regulatory and legislative requirements governing the protection of the environment
- Identify environmental issues, opportunities and potential adverse impacts arising from the project and identify appropriate prevention and or mitigation measures that will be applied to minimise any adverse effects
- Ensure all personnel who work on the project receive a site specific induction, which will include relevant environmental aspects / items.

Watpac also commits to managing the construction of the project in conformance with the Company's broader environmental vision, goals and objectives as documented in the Watpac Environmental Policy.

Specific project performance targets have been documented for each of the key environmental aspects in Section 5 of this Project Environmental Management Plan (PEMP).

1.2. Principal Requirements

The Principal requirements of environmental management for the construction phase of this project are as set out in the Contract documents, various development consents and specifications.

The Principal's Environmental objectives expressed in the Conditions of Contract have been addressed within this PEMP.

The Principal's requirements regarding notification of disruptive works have also been addressed; the notification procedure and templates for the Disruptive Works Notice (DWN) and Watpac's register of DWNs are provided in Appendix 6.7.

1.3. Watpac HSEQ Policy

The Watpac HSEQ Policy is:

Watpac considers excellence in health, safety and environmental performance, our quality of service and client satisfaction, essential components to the long term sustainability of its business.

Our goal is to achieve a high level of HSEQ performance for the benefit of all stakeholders, including employees, subcontractors, suppliers, clients, shareholders and the local communities in which we work.

Our Values

Watpac promotes an organisational culture in which the principles of HSEQ are highly valued and upheld through the Watpac core values:

- COMMITMENT: Delivering on promises, safely
- ONE TEAM: Collaborating to accomplish a shared purpose
- INSPIRATION: Leading by example in everything we do
- INNOVATION: Achieving solutions that make a difference
- CANDOUR: Acting with authenticity, integrity and respect

Our Commitments

Watpac is committed to:

- providing a high standard of service.

- conducting our activities in a safe and sustainable manner which includes protection of the environment.
- mitigating foreseeable hazards through proactive risk management practices.
- continual improvement of our health, safety, environmental and quality management systems.
- consistently meeting stakeholder expectations.
- compliance to applicable legal and other requirements and voluntary commitments.
- providing effective HSEQ information, instruction and training to our employees and sub-contractors.

Our Actions

Watpac will achieve this by:

- providing visible support and leadership, with clear accountabilities and expectations that encourages employee, subcontractor and supplier participation in achieving our HSEQ goal.
- establishing and maintaining documented and communicated HSEQ management systems certified to AS/NZS 4801, ISO 14001 and ISO 9001.
- providing and maintaining a proactive HSEQ risk management framework across all aspects of our business.
- ensuring effective consultation and communication strategies and processes are in place which allows all stakeholders to have input and provide feedback on HSEQ matters.
- setting clear, achievable and measurable objectives and targets that promote continual improvement of our HSEQ management systems and performance.

Watpac empowers, promotes and supports all personnel in making the necessary decisions to ensure the intent of this policy is upheld.

1.4. Application

This Project Environmental Management Plan has been prepared by the Watpac Project Team, in consultation with the Watpac Quality and Environment Manager, to document the company's environmental commitments, objectives and procedures for the project. The PEMP is the key environmental management document that the Project Manager and Site Manager relies on to ensure appropriate environmental management practices are followed during construction.

The PEMP has been developed to conform with and satisfy the requirements of:

- AS/NZS ISO 14001: 2015 - Environmental Management Systems
- The environmental performance requirements of the Principal as set out in the Contract and Contract specifications
- The Watpac Environment Management System
- NSW Government Environmental Management System Guidelines (2013), Part 3
- Applicable legal and other requirements
- The broader community's general expectations of an environmentally responsible organisation.
- The Review of Environmental Factors 037/2017 (dated 11 December 2017) prepared by APP for the Medical Imaging Building
- The Review of Environmental Factors 004/2018 (dated 3 April 2018) prepared by APP for the Early Works 1 & 2 (Sewer and Stormwater Infrastructure Works)
- The State Significant Development (SSD) Consent for the Stage 2 Redevelopment (main works) SSD 8647 (dated 30th May 2018).

The PEMP is intended for use on the project and is based on the management systems and procedures currently in place at Watpac.

This PEMP applies to all Watpac Construction personnel, visitors, subcontractors, consultants, Principal Representatives, authority representatives and suppliers involved in the project.

1.5. Scope of Works

The Stage 2 Redevelopment project will deliver the following:

- A new 5-storey building, including:
 - Combined Intensive Care and High Dependency Unit

- Combined Coronary Care and Cardiac Investigations Unit
- Cardiorespiratory Inpatient Unit
- Medical Inpatient Unit (including Dementia / Delirium and Stroke Beds)
- Rehabilitation Inpatient Units (cold shell). Fit out of each IPU (option).
- Ambulatory Care Centre providing a centralised location for all Ambulatory Care services
- Combined Education space with the University of Sydney
- Main Entry with Retail and Front of House (FoH) area located adjacent to the high-traffic Ambulatory Care Centre and the main Hospital Street.
- A refurbished and expanded Emergency Department within the HOPE Building
- PECC Refurbishment to be tendered as an option.
- Demolition of PECC as a tendered option which may be exercised.
- Fit-out of the co-located Paediatrics Inpatient Unit and Paediatric Allied Health clinics on the second floor of the new Medical Imaging building
- Associated civil and landscaping works throughout the campus
- Sewer main upgrade and Stormwater Infrastructure along Derby Road, this is in order to support the Hospital Building Works.

The Hornsby Ku-ring-gai Hospital is located about 25 kilometres north-west of the Sydney CBD. The hospital is within the local government area of Hornsby Shire and is bounded by Palmerston Road to the west, Burdett Street to the south, Derby Road to the east and Lowe Road to the north.

The hospital campus comprises of Lot 2 in DP14774, Lot 3 in DP14774, Lot B in DP363790, Lot 23 in DP814181, Lot 1 in DP232290 and Lot 189 in DP752053.

Refer to the overarching Project Management Plan for more information.

1.6. Site Contact

Craig Scott (Site Manager)	
Mobile Phone	0431 308 944
Work Phone	02 6561 3301
Email	cscott@watpac.com.au

1.7. Environmental Risk Assessment Process

Watpac implements the following systems on all projects:

- Watpac Quality Management System (QMS)
- Watpac National Safety Management System (NSMS)
- Watpac Environmental Management System (EMS)

This PEMP is consistent with and where applicable directly references Watpac Quality, Environmental and OH&S Procedures.

As documented in its Environment Management System, Watpac adopts a systematic approach to environmental management that is designed to ensure potential environmental risks through all phases of project delivery are:

- Identified
- Evaluated and ranked
- Mitigated and controlled
- Subject to ongoing review and assessment.

Following award of the Contract, Watpac has conducted a comprehensive review of Contractual Conditions; Permit conditions; recommendations documented in environmental specialist reports, applicable environmental laws and regulations; Contract Specifications; and site conditions.

Our project team has conducted a number of pre-start meetings addressing environmental issues and have undertaken a detailed environmental risk assessment for the project. The Risk and Opportunity Assessment process incorporates the development of risk profiles, Risk and Opportunity Assessment, mitigation strategies, the identification of opportunities and the development of project specific procedures.

The Watpac Management Plans are dynamic documents that will be reviewed and revised as warranted to ensure they remain current throughout all phases of the project.

Environmental elements have been integrated where applicable into project documents including:

- Site specific inductions
- Safety Plan
- Quality Plan
- Emergency Plan

Our comprehensive and systematic approach will ensure the Principal and community that Watpac will:

- Employ best environmental practice
- Harmonise safety and environment in planning work
- Exceed required quality and performance criteria without compromising the environment
- Satisfy ESD and environmental objectives

1.8. Watpac EMS

Watpac's Environmental Management System (EMS) has maintained third party Certification status for over 20 years, embracing the current Environment Management Standard AS/NZS ISO 14001:2004 without exception. The system has successfully been applied across a variety of projects with no limit as to the value and variability of the project. Our Environmental Management System has delivered high quality projects across diverse ranges of work including: multi-residential, commercial, industrial, infrastructural, medical, Defence, and refurbishment projects.

The key EMS aspects that will be applied on this project include:

- Scheduled inspections, monitoring and maintenance
- Auditing
- Education, training and awareness
- Feedback loop of environmental legislation and continual improvement
- Community Consultation
- Environmental Risk Assessments (C-FRM-018)
- Environmental Legal and Statutory Requirements Register (C-REG-007)

Watpac's core business is separated into modules into which each relevant procedure or form is grouped:

Module	Description
Pre-Contracts	Principal relations, tender opportunities, scoping and pricing tenders
Project Start-Up	Effective planning and coordination
Procurement	Subcontractor assessment for effective safety and quality capabilities
Administration	Financial administration of the project, EOT's, RFI's
Control	Control of the project encompassing quality, environment requirements
Project Completion	Defect management, commissioning, certification and handover
Quality	QMS procedures including document control, record management, audit
Environment	EMS procedures including Aspects, Risk Assessment, Compliance

All elements of AS/NZS ISO 14001 will be required, without exception, in the delivery of our projects and services. Our system is managed into tiers, which inform our integrated approach:

Tier	Type	Description
01	Environmental Policy	Watpac's policy on Environmental Management informs our approach when documenting procedures.
02	Environmental Management System Manual	Outlines Watpac's structure and general principles of the Environmental Management System.
03	Environmental Procedures	These procedures describe how activities within the company are performed. Each Environmental Procedure includes what, how, and when steps are performed; what materials, equipment and documentation are used and, where applicable, how processes are controlled.
04	Environmental Documentation and Records (forms, registers)	These documents prompt the detailed information, work, inspection and review processes. Changes are accommodated with reference to the correct Control of Documents and Data procedures. They will also act as records to document that all due diligence was performed.

1.9. Confidentiality

This PEMP and any attachments shall not be copied or reproduced without the express written permission of the Watpac's Quality and Environment Manager.

1.10. PEMP Authorisation

The issue and use of this PEMP is approved in accordance with the revision history table at the front of this document.

Commitment to implement Watpac's EMS as per this PEMP and internal procedures is made by the **Project Manager**.

Approved by



Date

26 July 2019

1.11. Precedence

Where an ambiguity is detected between the PEMP and the procedures in the Watpac Environmental Management System Manual, the procedures in the Project Environmental Plan shall take precedence.

1.12. Specific Exclusions

Any specific exclusions relative to the requirements of ISO 14001 will be noted in the relevant sections of this PEMP. The works covered by this PEMP are limited to the scope of work as defined by the Contract, drawings, and specification.

1.13. Validity

The currency of this PEMP remains valid from the date of issue until Practical Completion or approved revision and amendment. Construction work cannot commence until this PEMP has been authorised by the HSE Manager. This plan is subject to regular review, generally at minimum 6-monthly increments.

2. Project Environmental Objectives

2.1. Watpac Environment Objectives

Watpac's main environmental objective is to conduct project activities in full consideration of the environmental conditions and requirements of Client Contracts, and environmental legal and other requirements as an environmentally responsible organisation of the broader community.

Watpac will comply with its EMS to control and minimise environmental impacts and preserve the environment through the following:-

- The control and minimisation of contaminate discharges or disturbances to air, land and water
- The control and minimisation of waste
- To review and re-source component materials, as opportunity presents
- Undertake regular review of the EMS against performance targets with the view toward continual improvement and the prevention of pollution.

The objectives of this PEMP are as follows:

- To ensure compliance with environmental legislative requirements
- To ensure the Project Team (including subcontractors) are aware of their environmental responsibilities and are proactive in their approach to environmental management
- To ensure environmental commitments are implemented
- To prevent environmental incidents through the establishment and maintenance of environmental control measures, work practices and the supervision of construction activities
- To minimise environmental, community and system impacts

Proper adherence to the EMS objectives and awareness of environmental issues pertinent to Watpac's activities is a requirement of all Watpac personnel and those entities engaged by Watpac in the delivery of projects.

2.2. Project Environment Commitment

The Watpac Project Team is committed to the implementation of a comprehensive and effective EMS for the design and construction of this project.















Our Project Environmental Management Plan will comply with all elements of the Watpac Environmental System, certified to ISO 14001. The PEMP addresses all environmental elements of managing the design and construction of the Project to ensure full compliance with the requirements of the current legislation and expectations of the Principal and neighbouring community.

The Project Environmental Management Plan and its application will be continuously assessed and improved through processes of review and audit.

All participants in the project are responsible for implementing the PEMP and contributing to its improvement to ensure we meet our objective of providing a project which meets agreed requirements in terms of its construction and operational performance.

2.3. Key Performance Indicators

The environmental performance of the Watpac Project Team is assessed by two Key Performance Indicators (KPIs):

Policy	Objective	Measurement Basis	Target	Responsibility	Compliance Review (WTP)*	
					Dec 2018	Jul 2019
Minimise Impacts	Minimise the impact of the site works to the receiving environment	Internal audits conducted by Management	No more than 5 environmental Corrective Action items issued to a single project from an internal audit.	Project Manager		
			Zero Non-Conformances issued to a single project from an internal audit.	Project Manager		
			Project is audited within 6 months of being established on site.	Project Manager		
			Receipt of written positive feedback form local stakeholders etc. regarding environmental performance or positive experience.	Project Manager		
			No major negative formal complaints received pertaining to poor environmental management or performance.	Project Manager		
Compliance	Comply with all Statutory Requirements	Commonwealth, State and Local Council regulation	Zero Penalty Infringement Notices issued by Local Council or State EPA	Project Manager		
			Zero Prosecutions issued by Local Council or State EPA	Project Manager		

Note *: evidentiary documentation to substantiate review rating available in the project environmental records.

Compliance with KPI's, objectives and targets should be reviewed and self-assessed by the project team at 6-monthly intervals (aligning with PEMP reviews). Any corrections or adjustments to the indicators, objectives or targets shall be incorporated into subsequent revisions.

3. Project Organisation

3.1. Project Organisation Chart

Refer to Appendix B of the overarching *Project Management Plan*.

3.2. Roles and Responsibilities

3.2.1. Construction/Operations Manager

The Construction/Operations Manager has responsibility to:

- Ensure construction activities are undertaken in accordance with Watpac's HSEQ Policy and the objectives and provisions of the PEMP
- Ensure all personnel carrying out activities which may have a significant impact on the environment are appropriately trained to a level commensurate with their role and responsibilities in the project.

3.2.2. Quality and Environment Manager

The Quality and Environment Manager is responsible for establishing and maintaining the Company's Environment Management System and represents Watpac on all environmental matters pertinent to the EMS.

The Quality and Environment Manager is responsible for:

- Ensuring that approval conditions and environmental specialist recommendations made during the design phase are incorporated into the PEMP
- Assisting the Project Manager with the implementation of the PEMP
- Providing support and technical assistance to the Project Environmental Coordinator
- Manage the implementation of the EMS during the project
- Monitoring the effectiveness of the EMS
- Coordinating environmental audits during the project in accordance with KPIs
- Ensuring record keeping is undertaken as required to demonstrate compliance with the EMS, PEMP, and legal requirements
- Ensuring the Project Team (including subcontractors) receive the appropriate environmental induction (including site-specific environmental requirements)
- Coordinating environmental accident/incident investigations
- Issuing external authority notification regarding environmental incidents (following confirmation with the Client)
- Assessing the environmental capabilities of subcontractors during procurement and review/approve their environmental management documentation (if not working under the Watpac PEMP)

The Quality and Environment Manager is authorised to require all employees to comply with the provisions of the documented Environmental Management System and may issue directions to that effect. The Quality and Environment Manager has the authority to stop work in the event of potential or actual environmental damage.

3.2.3. Project Manager

The Project Manager is responsible to the State Manager through the Construction Manager to ensure effective environmental controls are implemented for the duration of the project.

Specifically, the Project Manager shall be responsible for:

- Implementing and maintaining the PEMP
- Ensuring all works comply with environmental legislative requirements and conditions of any statutory approvals
- Reviewing the environmental aspects at project start-up and ensuring the PEMP addresses all requirements
- Providing guidance, motivation and resources to achieve the provisions of the PEMP

- Ensuring that subcontractors and suppliers are aware of Watpac's environmental policy and objectives, through conditions of contract, tender interviews, scopes of work and site environmental inductions as applicable
- Establishing monitoring records and ensuring the scope and frequency of monitoring activities satisfies the requirements of the PEMP. Ensure that site environmental management information (e.g. records, reports, checklists etc) is maintained and accessible.
- Provide adequate equipment, facilities and training (if required) to the Site Manager
- Plan construction activities to minimise environmental impact and to comply with site environmental management requirements
- Assist the Environment Manager with the investigation of environmental incidents
- Assist the Environment Manager with the close out of "non-conformances" and "action requests" arising from audits, site inspections and incident investigations
- Report all environmental incidents to the Environment Manager

The Project Manager shall have sufficient authority and independence to:

- Identify and record any environmental problems
- Initiate solutions to the environmental problem
- Stop the works, if such a decision becomes necessary, in order to prevent or mitigate adverse environmental conditions, or if corrective measures recommended are not being carried out. The Project Manager must notify the Environment Manager as soon as possible regarding any stop work orders relating to environmental management.
- Provide recommendations for EMS and operational improvements to the Quality and Environment Manager

3.2.4. Project Environmental Coordinator

The Project Environmental Coordinator is responsible to the Project Manager for the maintenance of the Project Environmental Management system.

The Project Environmental Coordinator is the document controller for the PEMP and shall prepare/compile registers, records, plans and forms necessary for the implementation of environmental controls. The Project Environmental Coordinator shall review these as necessary and ensure timely distribution to all relevant parties in the Project.

Responsibilities of the Project Environmental Coordinator shall include:

- Monitor the construction processes to ensure that appropriate environmental protection/procedures are in place. Apply EMS procedures as applicable during the project.
- Identify and record any environmental issues
- Recommend and initiate solutions to environmental problems and verify the implementation of solutions
- Investigate all environmental complaints (which shall be recorded on the project records)
- Control and maintain project environmental records, including indexing records, prior to archiving
- Implement any environmental checklists, field records and procedures as applicable to the works
- Maintenance the PEMP and control of distribution
- Conduct site inspections and audits as required
- Provide recommendations to the Quality and Environment Manager for EMS and operational improvements.

The Project Environmental Coordinator has the authority to stop work in the event of pollution or actual environmental damage. The Project Environmental Coordinator must notify the Site Manager and Project Manager as soon as possible regarding any stop work orders relating to environmental management.

3.2.5. Independent Verification Staff

Individual employees or consultants may be appointed to assist the Project Manager to carry out audits, environmental testing and inspection duties. This testing and inspection may be in addition to and separate from any testing and inspection required for Environmental Management purposes.

Independent Verification staff will not be drawn from personnel who are performing or directly supervising the activities being inspected.

3.2.6. Site Manager

The Site Manager is responsible to the Project Manager to:

- Ensure all work under the Site Manager's control is undertaken in accordance with statutory environmental requirements and the PEMP.
- Identify, recommend and initiate solutions to any project environmental issues
- Ensure that site environmental management information (e.g. records, reports, checklists etc) are maintained and accessible
- Seek advice regarding environmental management issues (if in doubt) from the following: Project Manager, HSE Manager, environmental specialist
- Respond to environmental incidents as per the Incident Management Plan and directions provided by Project Manager
- Report all environmental incidents to the Project Manager
- Ensure all workers and subcontractors under the Site Manager's control are properly inducted in the requirements of the Watpac HSEQ Policy and objectives and the PEMP, and are instructed in the following:
 - The role and environmental responsibilities of the project/works for which they are engaged
 - The use and understanding of any environmental documentation for the work
 - Specific environmental procedures for the project/works.

The Site Manager has the authority to stop work in the event of pollution or actual environmental damage, or non-compliance with contractual requirements. The Site Manager must notify the Project Manager as soon as possible regarding any stop work orders relating to environmental management.

3.2.7. Foremen

The Foremen are responsible to the Site Manager to:

- Ensure all work under the Foreman's control is undertaken in accordance with statutory environmental requirements and the PEMP
- Attend environmental inductions and toolbox meetings
- Undertake remedial action as required to ensure environmental controls are maintained in good working order
- Immediately report all environmental incidents (including near misses) to the Site Manager
- Ensure plant/equipment is maintained in good working order
- Identify, recommend and initiate solutions to any project environmental problem.

3.2.8. Contract Administrator

The Contract Administrator shall be responsible to the Project Manager for:

- Ensuring proper procedures are followed for the procurement of goods and services to ensure that Watpac's HSEQ Policy and objectives and the requirements of the PEMP are achieved.

3.2.9. Direct Labour

Each tradesperson, trades assistant, operator and employee shall be responsible for carrying out their work in accordance with Watpac's stated HSEQ Policy and objectives, the PEMP and as instructed by their supervisor.

3.2.10. Subcontractors and Suppliers

Watpac will ensure all subcontractors and suppliers are responsible for conducting their activities in an environmentally sensitive manner and in compliance with the requirements of this PEMP. While it is envisaged that subcontractors will work under the requirements of this PEMP, there are potentially two situations where this may not be the case:

- Subcontractor requests to perform works under their own EMP
- Watpac requests that subcontractor perform works under their own EMP

In both situations, the approval of approach and EMP documentation is required from the Watpac Project Manager and/or HSE Manager.

Site inductions will include detailed and site specific environmental information. Activities conducted by any trade likely to have a significant impact on the environment is required to submit their own EMP, which is assessed using the Subcontractor EMP assessment checklist to ensure it is comprehensive.

All personnel shall notify the Watpac Site Manager of any activity or incident, or any deviations from work place practices and procedures set out in this PEMP.

Subcontractor audits can be conducted. The checklist C-FRM-082 Environment Audit 100 includes environmental criteria which can be adapted to the nature of the trade work. C-FRM-082 Environment Audit 100 is available on the Watpac intranet.

Contractors shall ensure their personnel working at the site:

- Have the appropriate environmental awareness training and / or qualification for the task undertaken
- Are aware of the potential environmental impacts of their activities on the site and the procedures by which such impacts are to be minimised or prevented.
- Attend environmental inductions and toolbox meetings
- Undertake remedial action as required to ensure environmental controls are maintained in good working order
- Immediately report all environmental incidents (including near misses) to the Site Manager
- Ensure plant/equipment is maintained in good working order

4. Implementation

4.1. Legal and Other Requirements

All activities associated with the Project must comply with the relevant environmental legislative requirements. The Watpac Environmental Legal and Statutory Requirements Register (C-REG-007) provides an overview of existing legislation that is related to environmental matters enacted by the Federal and NSW Governments that could be directly or indirectly related to project activities. A copy of the Watpac Environmental Legal and Statutory Requirements Register can be obtained via request from the Watpac HSE Manager.

The construction activities do not require any State Government licensing arrangements, control approvals or permits for environmental protection at this stage.

The development will be undertaken in accordance with the NCC / Building Code of Australia and relevant Australian Standards, in accordance with the various Development Consents for the project and contract plans and documentation noted therein. Pursuant to the Development Consents, the hours of work shall be:

- Monday to Friday (inclusive): 7.00am to 6.00pm;
- Saturdays: 8.00am to 1.00pm;
- Sundays and Public Holidays: No work permitted.

The Quality and Environment Manager is responsible for identifying and assessing amendments to statutory and regulatory requirements potentially applicable to the project (such as State Government licensing arrangements, control approvals or permits for environmental protection) and initiating a review of the PEMP as warranted.

4.2. Monitoring

The responsibility for general environmental monitoring rests with all personnel engaged in the project.

More specifically the Project Environmental Coordinator shall:

- Monitor each element of the construction process to ensure that appropriate environmental protection/procedures are in place
- Undertake daily monitoring of the implementation and effectiveness of environmental controls
- Conduct and record weekly site inspections of environmental controls and direct such action as may be considered necessary to protect, minimise or rectify any environmental concerns.

The Project team shall undertake random site inspections and direct such action as may be considered necessary to protect, minimise or rectify any environmental concerns.

Before the commencement of works and at the conclusion of works, dilapidation reports shall be undertaken of areas adjacent to the works that may be affected by the works. Such areas may include public roads, internal roads, the exterior of hospital buildings, and the interior of hospital buildings.

4.3. Consultation

Watpac undertakes to advise adjacent property owners/managers of the timing and duration of activities likely to give rise to environmental concerns e.g. ground works or proposed out of normal hours activities.

Where applicable a list of adjoining building managers with their business and out-of-hours contact numbers will be maintained on the project records together with notations of pertinent advices.

4.4. Environmental Complaints

The Project Manager and/or the Project Environmental Coordinator will investigate all environmental complaints. Details of complaints and the remedial action taken will be recorded in the project records.

Watpac will notify the Principal of all applicable complaints received.

Any complaints received by the Principal will be investigated and recorded by Watpac as appropriate.

4.5. Environmental Incidents

Should an environmental incident occur during the course of the works, Watpac shall take prompt action to minimise any impact and inform the Principal or the Principal's Representative accordingly in accordance with the HI Stakeholder Management Procedure. Procedures to respond to an emergency incident have been documented in the Project Emergency Plan.

Subcontractors who become aware of an environmental incident shall report the matter immediately to the Site Manager.

All incidents will be:

- Addressed as expeditiously as possible to minimise the potential environmental impacts
- Investigated; where necessary Watpac will seek the advice of relevant Authorities and comply with their instructions
- Recorded on the Environmental Complaint and Incident Report Form (C-FRM-060).

If the incident has the potential to cause material environmental harm, there is a legal obligation to notify the NSW EPA. As with any environmental incident, the following process should be followed:

- Complete the Environmental Complaint and Incident Report Form (C-FRM-060).
- Send report to your State Environmental Manager.
- Environmental Manager will advise if the incident is a notifiable event, at which point the report form should be issued to the Principal with the recommendation that the incident be reported to the State Environmental Protection Agency.

4.6. Reporting

The Client will be notified of applicable environmental incidents and complaints, as soon as possible thereafter, including notification of the proposed corrective action.

Project Reports submitted to the Client will report on all applicable environmental matters including environmental incidents, non-conformances, complaints, performance and the implementation and effectiveness of the PEMP. This reporting will generally take the form of the monthly Project Control Group (PCG) report.

All communication of information concerning the project environmental performance shall be reported internally via the Monthly Project Review and Quarterly Project Review reporting templates to senior management.

The Development Consents for the project require various informative and compliance reporting to occur to Council and/or Department of Planning. This reporting shall be managed via email correspondence as articulated in the Development Consents.

4.7. Notifiable Events – Duty to Notify

The duty to notify is set out in section 148 of the Protection of the Environment Operations Act 1997 (POEO Act). Pollution incidents causing or threatening material harm to the environment must be notified. A 'pollution incident' includes a leak, spill or escape of a substance, or circumstances in which this is likely to occur. 'Material harm to the environment' is defined in section 147. Material harm includes on-site harm, as well as harm to the environment beyond the premises where the pollution incident occurred.

The duty to report pollution incidents is a legal requirement that ensures that the appropriate regulatory authority (ARA) and other relevant persons are made aware of incidents that may have caused or threaten serious environmental harm or material environmental harm, and that appropriate action can be taken to minimise the extent of environmental harm caused.

Under the POEO Act, the following people have a duty to notify a pollution incident occurring in the course of an activity that causes or threatens material harm to the environment:

- the person carrying on the activity
- an employee or agent carrying on the activity
- an employer carrying on the activity

- the occupier of the premises where the incident occurs.

Notification must be given immediately, i.e. promptly and without delay, after the person becomes aware of the incident.

Only persons engaged in the activity resulting in the pollution incident, and occupiers of the land where the incident occurs, have a duty to report the incident.

Pollution incidents posing material harm to the environment should be notified to each 'relevant authority' as defined in section 148(8) of the POEO Act. 'Relevant authority' means:

- the appropriate regulatory authority (ARA)
- the Environment Protection Authority (EPA) if they are not the ARA
- the Ministry of Health
- SafeWork NSW (formerly WorkCover)
- the local authority, e.g. the local council, if this is not the ARA
- Fire and Rescue NSW

In general terms, sufficient detail of the incident must be reported to enable appropriate follow-up action. The information required is listed in section 150. Any required information that is not known when the incident is notified must be notified immediately once it becomes known.

If you fail to report a pollution incident posing material harm to the environment as required under Part 5.7 of the Act, you commit an offence. The maximum penalty is \$2,000,000 for corporations, or \$500,000 for individuals.

Under the Act, Watpac is classified an employee, contractor, or agent, who causes or becomes aware of a notifiable event, must notify the person who employs them or engaged them as a contractor or agent (i.e. the Principal) within 24 hours of becoming aware of the event.

The notice must contain sufficient details to provide notice of the event, its nature, and the circumstances in which it happened (for simplicity referred to as the details of the event). Watpac must always keep a record of when and to whom they gave notice of a notifiable event.

If the Principal cannot be contacted, then Watpac must give the administering authority (the State Environmental Authority) written notice with details of the event no later than 24 hours after first becoming aware of the event.

The Principal has a duty to give written notice with details of the event to the administering authority no later than 24 hours after becoming aware of the event.

As soon as possible Watpac must also either:

- Give written notice with details of the event to any combination of the occupiers or registered owners of affected land; or
- Give public notice of the details of the event.

The Environmental Complaint or Incident Report (C-FRM-060) can be used to notify the department (as administering authority) about notifiable events.

In addition to the written notice, if a person becomes aware of a notifiable event, the person should immediately call the State Environmental Protection Authority and report the matter.

Relevant legislative provisions under the POEO Act include:

- section 147: Meaning of material harm to the environment
- section 148: Pollution incidents causing or threatening material harm to the environment
- section 149: Manner and form of notification
- section 150: Relevant information to be given
- section 151: Incidents not required to be reported
- section 152: Offence for breaching duty to notify pollution incidents
- section 153: Incriminating information

4.8. Emergency Response Plan

Actions to respond to foreseeable environmental emergencies are detailed in Aspect 5.19 in Section 5.0 of this PEMP, as well as the Project Emergency Plan (separate document).

The response procedures, emergency contact numbers, responsibilities and required actions for responding to environmental emergencies have been integrated into the Project Emergency Plan.

4.9. Environmental Training & Induction

As part of their site environmental induction/training all personnel engaged in the works shall be made aware of the provisions of this Project Environmental Management Plan in order to promote a general awareness of the environment and to minimise any potential impact upon it. The following inductions are required on the Project:

- Watpac general company induction
- Site-specific induction including environmental component

Watpac General Company Induction

The Watpac general company induction provides an overview of the following items:

- Watpac HSEQ Policy
- Watpac EMS
- Watpac PEMP
- Protection of the Environment Operations Act (POEO Act) 1997
- Environmental responsibilities
- Environmental management issues (e.g. soil and water, flora and fauna, waste, fuel and chemical storage, noise and vibration, air quality and dust, traffic and property access, heritage, community and site restoration)
- Response to and reporting of environmental incidents (including pollution incidents)

This induction is compulsory for all site personnel including subcontractors involved with onsite construction works. Records of inductions are to be documented.

Site-Specific Induction

Prior to any personnel starting work at the project site, they must complete the site-specific environmental induction. This induction will be conducted by the Site Manager or Project Manager and will focus on the environmental management requirements for the project. Records of inductions are to be documented in the Induction Register.

Toolbox Talks

Toolbox talks will be held weekly at the project site. The purpose of the weekly toolbox talks is to facilitate two-way discussion of safety, community, and environment and construction matters at a site level. Details of toolbox meetings held (e.g. site, date, time, Site Manager, topics and attendance record) are to be maintained.

Environmental induction and training will be appropriately commensurate with their roles and environmental responsibilities in the project.

Evidence of environmental induction and training of personnel for this project shall be maintained on the project records.

Contractors shall be responsible for providing evidence to Watpac, as applicable, prior to commencing work that:

- Environmental training needs of their personnel working at the site have been assessed and satisfied
- Contractor personnel have received the appropriate environmental awareness training and / or qualification for the task to be undertaken.

Training requirements for Watpac personnel are identified and planned on appointment to their role, and for each project. The Project Manager will monitor the skills required by Watpac personnel and contractors to effectively implement the PEMP and its procedures on site. Any further training needs will be identified, implemented and recorded in the project records.

4.10. Audits & Site Inspections

To ensure the EMS is implemented and maintained in accordance with the principles of AS/NZ ISO 14001:2004, the Site Manager and/or the Watpac HSE Manager (or delegate) will conduct regular evaluations of the implementation and effectiveness of the PEMP via Weekly Site Inspections.

In addition to Weekly Site Inspections, the HSE Manager (or a third party) will conduct periodic environment audits including an audit of the implementation and effectiveness of this PEMP. The project KPIs include that an audit must be conducted within 6 months of project commencement.

Audits and site inspections will identify any deficiencies in the implementation and effectiveness of environmental management practices at the site. The HSE Manager will issue Non-Conformance Reports (NCRs) or Corrective Action Requests (CARs) as applicable. C-FRM-082 Environment Audit 100 will be used to conduct the site audits and C-FRM-061 Weekly Environmental Inspection will be used to conduct site inspections.

Client, Independent or regulatory audits may also be conducted from time-to-time, however these are not programmed by Watpac. Independent auditing as required by Development Consents will be arranged by the Client.

4.11. Environmental Non-Conformances, Corrective and Preventive Actions

Watpac will identify and evaluate all non-conformances with legal requirements; applicable permits; specifications and the requirements with this PEMP. Non-conformance can be identified via audits, as part of the accident/incident management process and site inspections.

Non-conformance Reports shall be raised as appropriate to clearly identify the nature of the non-conformance and document the proposed remedial action and the person responsible.

The Site Manager will verify follow-up action is implemented and effective. Reports will be filed in the project records.

Corrective and Preventive Action Requests will be raised, where appropriate, as a result of complaints, incidents, non-conformances and deficiencies identified in the implementation of environmental practices and procedures. Corrective and Preventive Action Requests shall be raised, where appropriate, to correct and/or prevent non-conformances in construction activities and in the operation of the Environmental Management System.

Actions as a result of Corrective and Preventive Action requests will be implemented, followed-up and recorded in the Project records.

4.12. Project Environmental Records

The following documents are to be retained in the project records:

- Weekly Environmental Inspection Reports (C-FRM-061)
- Environmental Incident and Complaint Reports (C-FRM-094)
- Environmental Non-Conformance Reports
- Environmental Corrective and Preventive Action Requests
- Environmental Reports (e.g. waste classification, soil/groundwater sampling, geotechnical, external audits)
- Copies of all applicable Environmental Permits
- Environmental Monitoring Records
- Environmental Induction and Training Records
- Environmental Audit Reports (C-FRM-082)
- Project Environmental Risk Assessment (C-FRM-018)
- Any correspondence regarding environmental issues relating to the site.

4.13. Issue and Control of the Project Environmental Management Plan

The Controlled copy of this PEMP is located in the project's environmental folder on the shared network drive. All hard copies of this document are uncontrolled.

The Project Manager is responsible for the issue of the PEMP. Copies of the PEMP shall be distributed electronically via Aconex. The distribution list shall be maintained within Aconex and is available from the Project Document Controller. The PEMP is to be revised with any applicable changes to the environmental requirements for this project.

4.14. Environmental Procedures

The Watpac Environmental Management System includes, but is not limited to, written procedures for controlling the following:

Internal Procedure Number	Description
C-PRO-003	Project Start-Up – Environment
C-PRO-004	Project Start-Up – Emergency Planning
C-PRO-014	Control of Non-Conformances
C-PRO-017	Environmental Control
C-PRO-021	Internal Audit
C-PRO-023	Control of Monitoring and Measuring Devices
C-PRO-028	Corrective and Preventive Action
C-PRO-030	Competence, Training and Awareness
C-PRO-031	Evaluation of Compliance
C-PRO-032	Aspects and Risk Assessment
C-PRO-033	Legal, Statutory and Other Requirements
C-PRO-034	Complaint and Incident Management
C-PRO-036	Environmental Responsibilities
C-FRM-060	Complaint and Incident Report
C-FRM-094	Project Complaint and Incident Register Template
C-PLA-014	Erosion and Sediment Control Guidelines
C-PRO-021	Internal Audit (Q&E)
C-PRO-022	External Audit (Q&E)
C-PRO-034	Complaint and Incident Management
C-REG-007	Environmental Legal and Statutory Requirements Register
C-FRM-018	Environmental Risk Assessments
C-FRM-061	Weekly Environmental Inspection
C-FRM-082	Environment Audit 100
C-PLA-004-N	Project Environmental Management Plan (NSW)

5. Aspects Management

5.1. Environmental Risk Assessment

An Environmental Risk Assessment (C-FRM-018) has been conducted for the project and is presented as Appendix 6.2 to this PEMP. The risk assessment includes issues within the following areas:

- Emissions to air
- Releases to water
- Releases to land
- Waste management, energy and resources
- Biodiversity
- Noise and vibration
- Traffic, transport and access
- Heritage
- Visual amenity
- Utilities and services
- Social and economic impacts
- Site restoration

5.2. Environmental Aspects

The Project Team in consultation with the HSE Manager have identified and addressed the environmental aspects associated with this project. They have:

- Reviewed the environmental requirements of the Contract and Contract Specifications
- Reviewed all environmental consent conditions including licence, permit and development approval consent conditions applicable to the project
- Reviewed specialist environmental reports and recommendations developed in the Project Design Phase (e.g. waste classification, soil and groundwater assessments, geotechnical, heritage, noise and vibration, community consultation, air quality etc.)
- Reviewed the site conditions and proposed construction activities
- Reviewed the Watpac Environmental Legal and Statutory Requirements Register (C-REG-007) to identify applicable legal and other statutory requirements
- Identified for each activity, the environmental aspects and associated actual and potential environmental impacts for normal and uncommon circumstances
- Assessed the inherent and residual significance of each identified environmental risk using the likelihood of occurrence of the impact and the consequence of the impact.
- Documented within this PEMP (and in the Environmental Risk Assessment (C-FRM-018)) project specific action plans and control measures to manage each identified environmental aspect and associated impact.

The environmental aspects associated with the project are documented in the Environmental Risk Assessment (C-FRM-018)

5.3. Action Plans and Control Measures for Identified Environmental Aspects

Environmental Action Plans have been developed to manage each environmental aspect pertinent to this project, as identified in the Environmental Risk Assessment (C-FRM-018)

These procedures document the Objective, Management Strategy, Control Measures, and Performance Indicators for each identified aspect. The procedure for each identified environmental aspect is documented in the sections below.

The Environmental Aspects, Actions and Control Measures included herein shall be routinely monitored, reviewed and updated. Generally this shall occur in line with the 6-monthly review of the PEMP, or any major change to the work scope.

Aspect 5.1	
Erosion and Sediment Control (Water Quality Control)	
Objective	Maintain the health of any impacted nearby waterbodies.
Management Strategy	Site environmental induction to address: <ul style="list-style-type: none"> • The issues concerned with the conservation of water usage in construction activities. • The issue of water quality and protective measures to prevent avoidable discharge into, or contamination of, waterways or established drainage systems.
Control Measures	Project Manager shall ensure: <ul style="list-style-type: none"> • Any water leaving the site must be compliant with the following discharge limits: • Less than 50mg/L Turbidity, or 50 NTU, or less than 10% of the receiving environment (to IECA guidelines). • pH must be betwn 6.5 and 8.5, and • Zero oils, hydrocarbons, coarse material, cement or other chemicals can be present in discharge (by visible inspection). • Wet discharge must be managed. This includes designated areas for washing out of concrete trucks, concrete pumps, paint, masonry cutting, and plaster. Refer to C-PLA-014 for more information. • Painter to utilise environmental washup facility • Use of water for wet trades' clean-up is minimal. • Paint, solvents, oils etc. are correctly stored. • Stockpiles of bulk materials are located well clear of any waterway or drainage systems, protected by sediment fences, and covered by tarp, seed, mulch or chemical binder wherever possible. • Inspect erosion and sediment control measures daily and after rain events. • Maintain erosion and sediment controls until disturbed surfaces are restored. • Limit plant/equipment movements on surfaces susceptible to erosion and unsealed areas. • Suspend construction during and/or after heavy rain if erosion and sediment cannot be controlled. • Minimise on-site storage time of spoil or other eroding materials in stockpiles and/or skip bins. • Where available, a recycled water source will be used for dust suppression. • If water discharge compliance can't be achieved, contaminated water is to be disposed to sewer under Trade Waste Agreement, or collected by a licenced contractor to licenced facility. • Roadways can be swept, not washed down. Machine operated street sweepers shall be used to ensure spoil and debris does not get tracked onto Council or RMS Roads. The frequency of use shall be increased during periods of unfavourable weather • Work in or around watercourses should be managed to minimise impact in accordance with Watpac plan C-PLA-014. • Sediment basins: Refer to C-PLA-014 for establishing, managing and servicing sediment basins. • During bulk excavation, truck shakers shall be installed at all exit points to manage spoil within the site. These shall be at least 6m in length. The bottom shall be lined with geotech fabric • Provide spill kits and training to relevant workers on the use of spill kits • Refer to C-PLA-014, Erosion and Sediment Control Guide, for a detailed manual on following ESC Plans and establishing on site.
Performance Indicators	<ul style="list-style-type: none"> • No incidents of inadvertent waste of water. • No run-off of sediment • No pollution or contamination of waterways.
Reporting	<ul style="list-style-type: none"> • Daily monitoring reflected in daily site diary entries when required • Weekly Inspections undertaken and recorded on the Weekly Environment Inspection Form (C-FRM-061)
Applicable Permits	<ul style="list-style-type: none"> • Authority from local Council and/or NSW EPA required prior to discharge to stormwater. Written authorisation to be obtained. • Trade Waste Permit from Sydney Water required if discharge to sewer infrastructure is required.

Reference

- Managing Urban Stormwater: Soils and Construction. Volume 1, 4th Edition. Blue Book’.
- NSW EPA Approved Methods for the Sampling and Analysis of Water Pollutants in NSW
- Protection of the Environment Operations Act 1997 (NSW), Section 120
- Standard Methods for the Examination of Water and Wastewater, 20th Edition (APHA).
- Water Management Act 2000 (NSW) and Amendment Act 2010
- Water Management (General) Regulation 2011 (NSW)
- SSD Conditions: B11, B22, C20, C35, C36
- REF Conditions: 7, 17, 19, 21
- TTW Erosion & Sediment Control Plan (CIV-DNG-00-902)

Aspect 5.2	
Protection of Existing Trees	
Objective	Protect existing trees from damage and maintain them in their condition as found at time of contractor site possession.
Management Strategy	<ul style="list-style-type: none"> • Site environmental induction to address the issue of tree protection to prevent damage caused by construction activities. • Establishment of tree protection zones (in accordance with AS4970-2009) around trees identified as significant or otherwise worthy of retention in the Arboricultural Development Assessment Report (<i>Moore Trees Arborist Report, Hornsby Ku-ring-gai Hospital S2 24/10/2017, Appendix K of SSD Application 17_8647</i>)
Control Measures	<p>Project Manager shall ensure:</p> <ul style="list-style-type: none"> • Tree Protection Zones (TPZs) are established around trees identified as significant or otherwise worthy of retention in the Arboricultural Development Assessment Report, and access is restricted to TPZs by the use of protective fencing which is maintained and regularly checked. • If fencing cannot be installed, or must be temporarily removed, other tree protection measures must be used such as: signage, trunk and branch protection, ground protection, root protection during works within the TPZ. <p>All subcontractors engaged by Watpac are to ensure:</p> <ul style="list-style-type: none"> • Protective measures (i.e. fencing) around TPZs are not disturbed without express written permission from Watpac site management. • Works including but not limited to the following are not undertaken within TPZs: machine excavation including trenching, excavation for silt fencing, removal of turf and topsoil, storage/stacking of items, preparation of chemicals (including cement products), vehicle and plant parking, refuelling, dumping of waste, washing and cleaning of equipment, placement of fill, lighting of fires, changing of soil levels, temporary or permanent installation of utilities and signs, physical damage to the tree.
Performance Indicators	<ul style="list-style-type: none"> • No damage to protected trees.
Reporting	<ul style="list-style-type: none"> • Daily monitoring reflected in daily site diary entries when required • Weekly Inspections undertaken and recorded on the Weekly Environment Inspection Form (C-FRM-061)
Reference	<ul style="list-style-type: none"> • Australian Standards 4970-2009: Protection of trees on development sites • Environment Protection and Biodiversity Conservation Act 1999 • Environment Protection and Biodiversity Conservation Regulations 2000 • Threatened Species Conservation Act 1995 • Native Vegetation Act 2003 • Contract Specifications • SSD Conditions: B42-45 • REF Conditions: 7, 12 • Arboricultural Development Assessment Report (<i>Moore Trees Arborist Report, Hornsby Ku-ring-gai Hospital S2 24/10/2017, Appendix K of SSD Application 17_8647</i>)

Aspect 5.3	
Noise and Vibration Management	
Objective	Control, minimise or avoid environmental nuisance caused by ‘unreasonable’ levels of noise or vibration in ground works or other structural activities.
Management Strategy	<ul style="list-style-type: none"> • Engage expert consultant (Acoustic Logic) to prepare Noise and Vibration Management Plan • Site environmental induction to address the issue of noise and protective measures to prevent ‘unreasonable’ noise caused by construction activities. • Site environmental induction to address the issue of vibration and protective measures to prevent disturbance/incidents caused by vibration. • Identify works likely to cause high vibration—communicate this to the Principal and to neighbours. • Where possible and feasible, adjust construction methodology / techniques to implement less obtrusive noise / vibration generating construction or demolition techniques. • If ongoing complaints regarding noise levels are received, review construction methods and where necessary undertake noise monitoring • Abide by the approved site working hours as follows; <ul style="list-style-type: none"> SSD Approval <ul style="list-style-type: none"> - M-F 7:00am - 6:00pm - Sat. 8:00am - 1:00pm - Sun & P. Hols. No Work REF Approval for Stormwater and Sewer works <ul style="list-style-type: none"> - M-F 7:00am - 5:00pm - Sat. 7:00am – 3:30pm - Sun & P. Hols. No Work • Noisy works to be restricted to 9:00am-12:00pm and 2:00-5:00pm M-F and 9:00am-12:00pm Saturday. Respite periods shall be provided at minimum 3 hourly increments.
Control Measures	<p>All subcontractors engaged by Watpac are to ensure:</p> <ul style="list-style-type: none"> • Works are carried out in accordance with the Noise and Vibration Management Plan prepared by expert consultant Acoustic Logic • Utilise fixed vibration monitoring as identified by Consultant, and routine hand-held noise monitoring. Maintain records.
Performance Indicators	<ul style="list-style-type: none"> • No repeat complaints concerning noise nuisance from the project site • No structural damage to existing and retained buildings caused by vibration • No fines received from the regulator
Reporting	<ul style="list-style-type: none"> • Daily monitoring reflected in daily site diary entries when required • Weekly Inspections undertaken and recorded on the Weekly Environment Inspection Form (C-FRM-061)
Reference	<ul style="list-style-type: none"> • Protection of the Environment Operations Act 1997 (NSW) • Protection of the Environment Operations (Noise Control) Regulation 2008 (NSW) • Contract Specifications • Australian Standard 2436-1981 Guide to Noise Control on Construction, Maintenance and Demolition Sites • Protection of the Environment Operations Act 1997 (NSW) • Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth), s12, 15B, 16, 18, 20, 21, 23, 24B, 24D • Assessing vibration: a technical guideline 2006 • AS 2670.2-1990 Evaluation of human exposure to whole-body vibration Continuous and shock-induced vibration in buildings (1 to 80 Hz) • BS6472 Guide to Evaluate Exposure to Vibration in Building (1Hz to 80Hz) • DIN4150 Part 3 Structural Vibration – Effects of vibration on structures • Interim Construction Noise Guideline (Department of Environment and Climate Change NSW) 2009. • SSD Conditions: B14, B24, C4-C10

- REF Conditions: 7, 16, 20, 22, 23

Aspect 5.4

Dust, fumes & air quality control

Objective	Avoid, control or minimise contaminant emissions to the atmosphere caused by rising dust, vehicle/plant emissions, noxious fumes/odours, or paint spraying activities.
Management Strategy	<ul style="list-style-type: none"> • Site environmental induction to address the issue of air quality and protective measures to prevent avoidable discharge of contaminant to the atmosphere • Implement measures for control and suppression of dust
Control Measures	<p>All subcontractors engaged by Watpac are to ensure:</p> <ul style="list-style-type: none"> • Dust is minimised throughout work areas. During the demolition phase dust will be minimised by heavy duty shade cloth, water suppression and demolition strategy. • Materials deliveries such as fill, soil, sand, gravel, landscaping supplies etc, are transported to the site under covered loads. • Stockpiles are dampened down or covered as necessary. • Trucks are not overloaded and load covers are used when excavated material is transported from site. • Plant and equipment is operated and maintained in accordance with acceptable industry standards and will be turned off when not in use. • Putrescible waste is regularly removed from site. • Site conditions are regularly inspected and hand held sprinklers and/or water cart are used as required to minimise dust. • On-site speed restrictions and the need to control dust are formally discussed during site inductions. • Roads bordering the site kept free of dust and mud (regular mechanical and manual sweeping as required). • External paint spraying activities are undertaken in accordance with local authority requirements and not carried out during adverse weather conditions. • Refer Appendix 6.2 • Access roads and materials handling areas to be swept regularly.
Performance Indicators	<ul style="list-style-type: none"> • Visual observance of dusts levels; vehicle and plant emissions • No dust complaints
Reporting	<ul style="list-style-type: none"> • Daily monitoring reflected in daily site diary entries when required • Weekly Inspections undertaken and recorded on the Weekly Environment Inspection Form
Reference	<ul style="list-style-type: none"> • Protection of the Environment Operations Act 1997 (NSW) • Protection of the Environment Operations (Clean Air) Regulation 2010 (NSW) • National Greenhouse and Energy Reporting Act 2007 (NGER Act) • National Environmental Protection Measure (NEPM) for Ambient Air Quality • Contaminated Land Management Act 1997 (NSW) • SSD Conditions: B22, C15 • REF Conditions: 7, 15, 20, 21 • CG21 Preliminaries: 5.17

Aspect 5.5

Retention of the Timber of Angophora Trees for Use by the Public Artist

Objective	Avoid, control, or minimise damage to nominated Angophora trees during removal and temporary on-site storage prior to handover to artist engaged by client.
Management Strategy	<ul style="list-style-type: none"> • Trees removed by others prior to Watpac engagement. Stored off-site. • If transferred to site, timber shall be protected until used by the artist engaged by the client or another authorised client’s representative.
Control Measures	<p>Project Manager shall ensure:</p> <ul style="list-style-type: none"> • Adequate storage is provided to reasonably protect the timber from damage by both human and natural causes.
Performance Indicators	<ul style="list-style-type: none"> • Acceptance by the artist engaged by the client or another authorised client’s representative.
Reporting	<ul style="list-style-type: none"> • Weekly Inspections undertaken and recorded on the Weekly Environment Inspection Form, in accordance with Aspect 5.2 above.
Reference	<ul style="list-style-type: none"> • Contract Specifications and Preliminaries

Aspect 5.6	
Vehicular and Pedestrian Traffic Management	
Objective	Avoid interference of, or obstruction to, roadways, footpaths or access points by the use of appropriate traffic control measures.
Management Strategy	<ul style="list-style-type: none"> • Site environmental induction to address the issues of access and delivery arrangements for materials including timing and unloading of materials. • Coordinate construction programme and delivery times to avoid hold-ups and traffic congestion. • Provide appropriate fencing/hoardings and protection for the public.
Access	<ul style="list-style-type: none"> • Access to the site will be determined to minimise impact.
Control Measures	<p>Project Manager shall ensure:</p> <ul style="list-style-type: none"> • Prior to site establishment ensure a Traffic Management Plan (TMP) has been prepared and approved by appropriate authority (Council or Roads and Maritime Services (RMS)). • Controls documented in the approved Traffic Management Plan are implemented • Refer to approved TMP for specific management actions related to road closures (diversions, signage, barricading etc.). • Control of traffic on public roads to be conducted by RMS-certified Traffic Controller (as per specifications in TMP). • Ensure a Road Occupancy Licence is obtained from the RMS. Confirm times and dates approved under the Road Occupancy Licence and comply with any conditions. • Ensure a Road Opening Permit is obtained from the local Council, where required. • Vehicle entry/exits with shakedown grids will be established to remove the potential for vehicles departing the site to deposit debris on the roads. Watpac will deploy street sweepers as required. Retain records / note in site diary. • Site fencing/hoarding is properly secured and lockable; access points are clearly designated and appropriate signage erected. • Materials set-down areas are established. • Construction program and delivery times are coordinated to avoid delays and possible traffic congestion. • Access points for each stage of construction are unobstructed to facilitate prompt service to set-down areas within the site. • Materials handling is managed to cause least disruption to traffic and local amenity. • Traffic Controllers are RMS accredited • There shall be no trucks permitted to queue on local roads. All trucks will be required to queue on state roads until they can be wholly accommodated within the site or within an approved work zone. Two-way radios and/or mobile phones shall be used to manage this condition. • Where required, all pedestrians shall be escorted across the site by RMS accredited Traffic Controllers.
Performance Indicators	<ul style="list-style-type: none"> • Reports or complaints of interruption or interference with pedestrian or vehicular traffic movement around the site.
Reporting	<ul style="list-style-type: none"> • Daily monitoring reflected in daily site diary entries • Weekly Inspections undertaken and recorded on the Weekly Environment Inspection Form
Applicable Permits	<ul style="list-style-type: none"> • Road Occupancy Licence (RMS) • Road Opening Permit (Council) • Traffic Control Permit (Traffic Controller)
Reference	<ul style="list-style-type: none"> • Public Health Act 2010 (NSW) • Road Transport Act 2013 (NSW) • Road Transport (General) Regulation 2013 (NSW) • Roads Act 1993 (NSW) • SSD Conditions: B21, B22, B28, C37 • REF Conditions: 7, 15, 20

Aspect 5.7	
Commuting Mass Transport & Local Car Parking	
Objective	Encourage commuting mass transport on site and minimise impact to local neighbourhood associated with car parking congestion.
Management Strategy	Inform and promote alternative transports options on site.
Control Measures	Project Manager shall ensure that:- <ul style="list-style-type: none"> • Inductions and Safety Meetings address and promote carpooling, company buses, or public transport options. • Nearby public transport hubs should be identified during inductions. • Provide shuttle bus service during peak morning and afternoon times to/from site to local public transport hub/exchange.
Performance Indicators	<ul style="list-style-type: none"> • Site personnel are using alternative means of transport.
Reporting	<ul style="list-style-type: none"> • Performance to be noted in monthly PCG report.
Reference	<ul style="list-style-type: none"> • None • REF Conditions: 7, 20

Aspect 5.8	
Accidental Discovery of Artefacts	
Objective	Avoid damage or disturbance to archaeological/cultural artefacts including skeletal remains, shell middens or other cultural artefacts.
Management Strategy	<ul style="list-style-type: none"> • Review historical information of the site (where available) to establish, as far as practical, the likelihood of existence of archaeological/cultural artefacts. • Site environmental induction to address possibility of discovery of archaeological/cultural artefacts • Excavation personnel to remain vigilant over ground penetration points.
Control Measures	<p>Project Manager shall ensure:</p> <ul style="list-style-type: none"> • Where archaeological/cultural artefacts are discovered, personnel cease work in the subject area and call a heritage specialist for advice. • The Client and the NSW Heritage Office is promptly advised of significant discoveries. This would be most likely done through the engagement of a heritage consultant. • Directions from the NSW Heritage Office are followed • If suspected human remains are discovered that work is ceased and the Site Manager, Police and State Coroner’s Office are contacted, and if applicable, Aboriginal Affairs NSW • In the event that archaeological ‘relics’ are unexpectedly discovered during excavation, work must immediately cease in the affected area and the Client and historical specialist contacted to inspect and record the remains. The NSW Heritage Council must be notified in writing of the discovery of any relics. Depending on the nature of the discovery, additional assessment and approval may be required prior to the recommencement of excavation in the affected area. • If any Aboriginal objects are discovered on the site, excavation or disturbance is to cease and the Client and NSW National Parks and Wildlife Service is to be informed.
Performance Indicators	<ul style="list-style-type: none"> • No damage, or minimal disturbance, to any archaeological/cultural artefacts discovered.
Reporting	<ul style="list-style-type: none"> • Superintendent is immediately notified of any discovery • Daily monitoring reflected in daily site diary entries • Weekly Inspections undertaken and recorded on the Weekly Environment Inspection Form
Reference	<ul style="list-style-type: none"> • Environment Protection and Biodiversity Conservation Act 1999 • Heritage Act 1977 • Aboriginal and Torres Strait Islander Heritage Protection Act 1984 • Aboriginal and Torres Strait Islander Heritage Protection Regulations 1984 • Australian Heritage Council Act 2003 • Environmental Planning and Assessment Act 1979 • SSD Conditions: B22, C18 • REF Conditions: 7, 20, 24

Aspect 5.9	
Demolition Works	
Objective	Avoid, control, or minimise disruptive or damaging environmental effects of demolition works.
Management Strategy	<ul style="list-style-type: none"> • Site environmental induction to address issues of air quality, noise, vibration and vermin/pests, and relevant protective measures. • Implement site-wide measures for control and minimisation of dust, odours, fumes, noise, vibration, and vermin/pests.
Control Measures	<p>All subcontractors engaged by Watpac are to ensure:</p> <ul style="list-style-type: none"> • All demolition work is undertaken in accordance with AS2601-2001: Demolition of Structures. • Dust is minimised throughout work areas. During the demolition phase dust will be minimised by heavy duty shade cloth, water suppression and demolition strategy. • Plant and equipment is operated and maintained in accordance with acceptable industry standards and will be turned off when not in use. • Trucks are not overloaded and load covers are used when demolished material is transported from site. • All construction activities will be undertaken mindful of the provisions of AS 2436:1981 - Guide to Noise Control on Construction & Demolition Sites. • Each item of plant is fitted with effective noise suppression devices (generally exhaust mufflers) as applicable. • All plant, equipment and machinery is operated and maintained in accordance with acceptable industry standards and turned off when not in use. • Vibration is controlled in accordance with AS 2670.2. • Six weeks prior to the commencement of any demolition, individual blocks, properties and the surrounding area should be inspected in order to identify the presence and extent of any infestations. Where infestations are identified, appropriate treatments must be implemented by licenced Pest Control Contractors to eliminate infestation before demolition.
Performance Indicators	<ul style="list-style-type: none"> • Visual observance of timber condition before and after felling. • Acceptance by the artist engaged by the client or another authorised client’s representative.
Reporting	<ul style="list-style-type: none"> • Weekly Inspections undertaken and recorded on the Weekly Environment Inspection Form, in accordance with Aspect 5.2 above.
Reference	<ul style="list-style-type: none"> • Australian Standard 2601-2001: Demolition of Structures • Australian Standard 2436-1981: Guide to Noise Control on Construction, Maintenance and Demolition Sites • SSD Conditions: A6, B26, C22, AN8 • REF Conditions: 6, 7, 14, 15, 20, 25, 26

Aspect 5.10

Waste Management

Objective	To control the disposal of waste generated from construction activities.
Management Strategy	<ul style="list-style-type: none"> • Site induction to address the issue of waste management and protective measures to prevent environmental incidents caused by inappropriate methods of waste disposal. • Designated bin storage locations (for both wheelie bins & skips), and an appropriate regime for clearance.
Control Measures	<p>Project Manager shall ensure:</p> <ul style="list-style-type: none"> • A Waste Management Plan (C-PLA-012) is developed and implemented to ensure at least 80% of waste generated during demolition and construction by weight is reused or recycled. • The SDS of Chemicals and Hazardous Substances should be consulted before disposal instructions, which will usually involve dropping of containers to Chemical Waste/Hazardous Collection stations. Containers must not be washed out and disposed of as normal. • Waste is minimised through the use of detailed measurement and conservative ordering to prevent oversupply of materials. • All waste will be sorted (including that from clearing, demolition, off cuts, etc.) into appropriate categories for recycling or disposal. • Spoil is to be loaded directly to appropriate vehicle for transport to approved disposal or recycling facility (if pre-classified) or stockpiled in a designated area on site to enable samples to be collected for chemical testing. Spoil that can be classified as VENM by observation does not require chemical testing. VENM classifications are to be made by an environmental specialist and documented. • All waste (liquid and non-liquid) must be classified prior to disposal/ reuse/ recycling. Contact the Watpac HSE Manager to confirm waste classification requirements or refer to the Watpac Waste Classification Procedure. • Where required, ensure waste transportation company is appropriately licensed (refer Watpac Waste Classification Procedure). • Ensure hazardous waste transporters and receiving facilities are licenced to transport and receive hazardous waste. Obtain copies of licences. • Watpac will ensure that all recyclables are placed into appropriate recycling processes and uses (e.g. scrap metal, mulch, road base) and that wastes are safely disposed of. • Work with the waste contractor engaged for the project to ensure that all practicable initiatives to minimise, segregate, re-use and recycle construction waste are identified and implemented. • “Ship to point of use” techniques will be deployed where practical to minimise protective wrappings or enclosures. • Waste skips/bins are covered and located to be easily accessible and protected from weather. • A recycling bin will be provided separately to the bin for Construction waste material and general waste (food scraps, cans, etc). • Paper and toner waste will be collected and recycled in specific office bins. • The construction site is kept free from build-up of waste materials by directing regular clean-ups by subcontractors. • No burning of waste takes place on-site. • Concrete washouts will be provided on site, allowing evaporation of slurry water. Refer to C-PLA-014 for more info on correct establishment. • Paint washouts will be provided. • Neither Watpac nor any subcontractor will discharge or dump any deleterious materials into the drainage system, onto any roads or at any locations that have not been reviewed and approved by the Principal. • Limit the storage of chemicals (e.g. fuels, lubricants, hydraulic fluids, etc) on site. Where chemicals are stored on site, they must be stored appropriately (location and storage) in accordance with the WHS Act and Regulation 2011, and AS 1940 – 2004: The Storage and Handling of Flammable and Combustible Liquids and the chemical’s Safety Data Sheet (SDS). • The SDS for Hazardous Chemicals should be consulted for disposal instructions, which will usually involve dropping of containers to Chemical Waste/Hazardous Collection stations (or collection by supplier). Containers must not be washed out and disposed of as general waste.

	<ul style="list-style-type: none"> Any liquid waste, including backwash of wet trades, should be collected by a licensed liquid waste collection contractor (look for 'Waste Reduction and Disposal Services')
Performance Indicators	<ul style="list-style-type: none"> No incidents arising from the disposal of end waste.
Reporting	<ul style="list-style-type: none"> Waste Reports including details of the percentage of waste diverted from landfill, to be maintained, where applicable Daily monitoring of waste facilities reflected in daily site diary entries Weekly Inspections undertaken and recorded on the Weekly Environment Inspection (C-FRM-061)
Reference	<ul style="list-style-type: none"> National Environment Protection (Movement of Controlled Waste between States and Territories) Measure. Protection of the Environment Operations Act 1997 Protection of the Environment Operations (Waste) Regulation 2014 Waste Avoidance and Resource Recovery Act 2001 EPA Waste Classification Guidelines 2014 Construction and Demolition Waste Guide - Recycling and Reuse across the Supply Chain National Waste Policy: less waste, more resources 2009 National Packaging Covenant Work Health and Safety Act 2011 Work Health and Safety Regulation 2011 AS 1940 – 2004: The Storage and Handling of Flammable and Combustible Liquids and the chemical's Safety Data Sheet (SDS)SSD Conditions: B17, B22, B26, C14-16, C32-34. REF Conditions: 7, 14, 20 CG21 Preliminaries: 5.16, 6.3

Aspect 5.11	
Hazardous Substances and Dangerous Goods	
Objective	To avoid contamination of the environment or risk to human health To appropriately manage the discovery of Hazardous Materials on site
Management Strategy	Site environmental induction to make personnel aware of the project handling and storage procedures to manage Hazardous Substances and Dangerous Goods <ul style="list-style-type: none"> All hazardous materials introduced onto site must be accompanied by a MSDS and the material entered onto the project register. All hazardous materials must be stored in compliance with the manufacturer's recommendations and in accordance with Australian Standards No bulk fuels are to be retained on site. Refuelling of plant is to be undertaken on as required basis and only within a prepared designated area (or as otherwise approved). Any discovery of a hazardous material is immediately reported to the client.
Control Measures	All subcontractors engaged by Watpac are to ensure: <ul style="list-style-type: none"> The quantities of Hazardous Substances and Dangerous Goods on site are minimised Fuelling and maintenance of vehicles and equipment on site is avoided. Where refuelling is unavoidable, the location and procedures will be strictly controlled. Subcontractors advise the Site Manager of the type of material, location, volume and any special handling / storing precautions in relation to any dangerous gases or flammable materials that are proposed to be brought on site. Subcontractors do not use any materials which are classified as Hazardous in or adjacent to occupied areas without the prior approval of the Site Manager. Subcontractors provide a current MSDS for all Hazardous Substances and Dangerous Goods proposed to be brought onto site. A Site MSDS Register is developed and maintained. Storage and handling of hazardous materials is monitored daily. A Spill Kit and Site Emergency Plan are readily accessible. Clean up materials are disposed of in compliance with regulatory requirements. All oxygen and acetylene cylinders are properly stored in an upright position and adequately restrained away from heat sources.
Performance Indicators	<ul style="list-style-type: none"> No spillages, incidents or complaints
Reporting	<ul style="list-style-type: none"> Licensed removal contractor to provide site safety clearance certificate and documented evidence of proper disposal. Health Infrastructure must be notified in accordance with the HI Stakeholder Management Plan Process. Refer to Appendix 6.1
Reference	<ul style="list-style-type: none"> Work Health and Safety Regulation 2011 (NSW), s 357 National Code of Practice for the Storage and Handling of Workplace Dangerous Goods [NOHSC: 2017 (2001)]. Environmentally Hazardous Chemicals Act 1985 (NSW) SSD Conditions: B5-8, B17, B26, C12-17, C35, AN8, AN9 REF Conditions: 7, 10, 14, 15, 20, 25, 26 CG21 Preliminaries: 5.6, 5.7

Aspect 5.12	
Spill Management and Response	
Objective	Control, minimise or avoid spillage of hazardous or prohibited substances, and react quickly to contain spills in the event they occur.
Management Strategy	<ul style="list-style-type: none"> Induct all personnel to handle chemicals with care. Provide spill kits to all sites.
Control Measures	<p>In event of spill:</p> <ul style="list-style-type: none"> Assess: Evaluate the spill to determine if it can be dealt with by an individual, the spill response team or if outside assistance is required i.e. hazchem, police, fire brigade, specialist spill response company. Secure: Make the site safe for all personnel and the general public. Contain: Spill response equipment such as spill booms, drain covers or bunding can be used to contain the spill. For solids, tarps may be used to cover and prevent dampness to granules or possible dispersion by wind. PPE: Identify the liquid and check the MSDS to ascertain the required PPE. Absorb: Once the liquid is contained, it will need to be converted to a solid by absorption. Use the appropriate absorbing pads or absorbent (according to the type of material spilled) to soak up the spill by placing them over the liquid. Remove the saturated pads and replace as necessary. On porous surfaces, sprinkle loose absorbent over the spill and broom through until surface appears dry. Dispose: Place the spent absorbent in the disposal bags. Correctly dispose of contaminants off site using a licensed contaminated waste disposal contractor. Report: Document the incident and include what happened, when it happened, where it happened; and what was done to eliminate or minimise the impact. Restock: Order and replace used up PPE and absorption materials. <p>Project Manager shall ensure:</p> <ul style="list-style-type: none"> Spill containment and treatment equipment and materials will be available near storage areas of hazardous materials. Spill kits and other suitable incident response equipment will also be located at other key points around the site and maintained ready for use. Subcontractors will be required to maintain their own spill kits where required. Spills of hazardous materials will be collected by licensed contractor and collected for treatment at a licensed waste disposal facility. All hazardous waste will be tracked as per the Protection of the Environment Operations (Waste) Regulation 2014 and the NSW EPA Waste Classification Guidelines 2014 Contaminated ground is remediated in accordance with the Contaminated Land Management Act 1997 and Regulation 2013. SWMS must be submitted and approved for the handling and use of hazardous chemicals. Any waste oils, lubricants and contaminated cloths, resulting from maintenance of plant on-site, are placed in suitable containers prior to removal and disposal at an approved waste receiving facility. Wastes generated on site are to be managed in accordance with the Watpac Waste Management Plan (C-PLA_012). Project Environment Consultant to prepare a Remediation Plan for the management of all contaminated soil. The Remediation Plan shall be submitted to Principal for approval.
Performance Indicators	<ul style="list-style-type: none"> No spillages. Spill kits readily accessible.
Reporting	<ul style="list-style-type: none"> Daily monitoring reflected in daily site diary entries when required Weekly Inspections undertaken and recorded on the Weekly Environment Inspection Form (C-FRM-061) Health Infrastructure must be notified in accordance with the HI Stakeholder Management Plan Process. Refer to Appendix 6.1
Reference	<ul style="list-style-type: none"> Work Health and Safety Regulation 2011 (NSW) Protection of the Environment Operations Act 1997 (NSW) Protection of the Environment Operations (Waste) Regulation 2014

- EPA Waste Classification Guidelines 2014
- National Code of Practice for the Storage and Handling of Workplace Dangerous Goods [NOHSC: 2017 (2001)].
- SSD Conditions: B22, C15, C35
- REF Conditions: 7, 17, 19, 20, 21

Aspect 5.13	
Management of Radiation and Radioactive Material	
Objective	To avoid contamination of the environment or risk to human health during demolition, construction, commissioning and post-handover operation.
Management Strategy	<p>Site induction to make personnel aware of the radiation-specific design and construction requirements of the Medical Imaging building and any other location where radiation-related activities will be required during operation of the facility.</p> <p>Certification of compliance with the <i>Radiation Control Act 1990</i> and <i>Radiation Control Regulation 2013</i> before commencement of construction works and again before commencement of hospital operation by a suitably qualified radiation consultant.</p>
Control Measures	<p>Project Manager shall ensure:</p> <ul style="list-style-type: none"> • Site induction makes personnel aware of the radiation-specific design and construction requirements of the Medical Imaging building and any other location where radiation-related activities will be required during operation of the facility. • Prior to the release of the certificate under Section 109R of the EP&A Act 1979, certification of design compliance with the <i>Radiation Control Act 1990</i> and <i>Radiation Control Regulation 2013</i> is provided to the certifying authority. • Construction works are undertaken in accordance with the Radiation Shielding Assessment Report (dated 22/04/2016 by Radiation Services Group, received as part of the tender documentation). • Prior to commencement of hospital operation, certification from a suitably qualified radiation consultant is provided to verify that the construction of the work satisfies all relevant requirements. <p>All subcontractors engaged by Watpac are to ensure:</p> <ul style="list-style-type: none"> • They are aware of the radiation-specific design and construction requirements of the Medical Imaging building and any other location where radiation-related activities will be required during operation of the facility as detailed in the site induction. • Their works are undertaken in accordance with the Radiation Shielding Assessment Report (dated 22/04/2016 by Radiation Services Group, received as part of the tender documentation), as well as the <i>Radiation Control Act 1990</i> and <i>Radiation Control Regulation 2013</i>.
Performance Indicators	<ul style="list-style-type: none"> • Certifications of compliance received. • No incidents or complaints.
Reporting	<ul style="list-style-type: none"> • Works to be certified by a suitably qualified radiation consultant; certifications to be provided to the Principal.
Reference	<ul style="list-style-type: none"> • Work Health and Safety Regulation 2011 (NSW) • Radiation Control Act 1990 • Radiation Control Regulation 2013 • Radiation Shielding Assessment Report (dated 22/04/2016 by Radiation Services Group, received as part of the tender documentation) • REF Conditions: 7, 13, 28

Aspect 5.14	
Landscape Maintenance	
Objective	Avoid, control, or minimise damage to landscaped areas within the contractor’s site boundary and associated loss of amenity for hospital users/stakeholders.
Management Strategy	<ul style="list-style-type: none"> • Site environmental induction to address preservation of landscaped areas that are within the contractor’s site boundary but are not targeted for construction/demolition works. • Allow for landscaping subcontractor to make good any damaged landscaped areas that are not included with the scope of works for new landscaping.
Control Measures	All subcontractors engaged by Watpac are to ensure: <ul style="list-style-type: none"> • Vehicles are not driven or parked on landscaped areas. • Landscaped areas are not used as materials storage areas.
Performance Indicators	<ul style="list-style-type: none"> • Visual observance of landscaped areas.
Reporting	<ul style="list-style-type: none"> • Daily monitoring reflected in daily site diary entries when required. • Weekly Inspections undertaken and recorded on the Weekly Environment Inspection Form, in accordance with Aspect 5.2 above.
Reference	<ul style="list-style-type: none"> • Protection of the Environment Operations Act 1997 (NSW) • Environmental Planning and Assessment Act 1979 (NSW) • Native Vegetation Act 2003 (NSW) • SSD Conditions: D8, E7 • REF Conditions: 27

Aspect 5.15	
Construction Site Management	
Objective	To avoid nuisance, disruption or danger to local residents and hospital staff, patients and visitors.
Management Strategy	Site induction to make personnel aware of the rules and requirements of the site, and relevant workplace safety legislation and principles. Vigilant monitoring of site conditions and subcontractor behaviour by Watpac staff.
Control Measures	<p>Project Manager shall ensure:</p> <ul style="list-style-type: none"> • Site induction makes personnel aware of the rules and requirements of the site, and relevant workplace safety legislation and principles. • Construction fencing is installed and maintained along the site boundary, and around any zones of work that are required outside of the established boundary. Vehicle and workforce access points and roads to the construction compounds are clearly designated and controlled for authorised access only. • The worksite is left tidy and free of rubbish each day prior to leaving the site and at the completion of works. • Suitable arrangements are made for temporary parking for hospital staff, visitors, patients and construction workers for the duration of the construction program. • All materials on-site or being delivered to the site are wholly contained within the site. The requirements of the <i>Protection of the Environment Operations Act 1997</i> are to be complied with when placing/stockpiling loose material or when disposing of waste products or during any other activities likely to pollute drains or watercourses. • The public roadway and internal roadway are not obstructed by any materials, vehicles, refuse, skips or the like, under any circumstances, except without prior approval of the road authority under the <i>Roads Act 1993</i>. • A copy of the approved and certified plans, specifications and documentation shall be kept on site at all times and shall be available for perusal. • Any contractor(s) meets all workplace safety legislation and requirements. • Any loose material stockpiles are stored within the temporary construction compound(s) and are protected from possible erosion.
Performance Indicators	<ul style="list-style-type: none"> • No incidents or complaints.
Reporting	<ul style="list-style-type: none"> • Daily monitoring reflected in daily site diary entries when required. • Weekly Inspections undertaken and recorded on the Weekly Environment Inspection Form.
Reference	<ul style="list-style-type: none"> • Work Health and Safety Regulation 2011 (NSW) • Protection of the Environment Operations Act 1997 (NSW) • Environmental Planning and Assessment Act 1979 (NSW) • SSD Conditions: A23, B22, B23-31, C1-C37 • REF Conditions: 7, 20

Aspect 5.16	
Site Accommodation	
Objective	<ul style="list-style-type: none"> Control, minimise or avoid contamination or spoiling of areas in the establishment, operation and disestablishment of temporary site accommodation facilities.
Management Strategy	<ul style="list-style-type: none"> Establish temporary site offices, amenities and ablution facilities, including provision for sanitary waste, in accordance with the requirements of the relevant local authority, all relevant Acts and Regulations and industry best practice. Remove all temporary buildings and facilities from site when no longer needed and make good all disturbed areas, including landscaping where required.
Control Measures	<p>Project Manager shall ensure:</p> <ul style="list-style-type: none"> Site offices, amenities and ablution facilities are located and operated in such a manner as not to cause environmental concern Site offices, hoarding, crossovers and fencing complies with the approved Site Plan or approved revision The site is made good upon disestablishment of the site accommodation facilities. Adequate firefighting equipment is provided and maintained for the works Required permits and approvals are received prior to commencing works Install automatic shut-off taps to water points and utilise low voltage luminaries to site facilities No trees or vegetation is damaged or removed for site accommodation facilities. Adequate tree protection will be provided. The Contractor must ensure that construction routes are cleaned regularly at weekly intervals or as required. The hours of work for the project are: <ul style="list-style-type: none"> - Monday to Friday – 7:00am – 6:00pm - Saturday 8:00am – 1:00pm - Excluding Public Holidays No work is undertaken outside the specified Hours of Work without Contract Administrator approval
Performance Indicators	<ul style="list-style-type: none"> Appropriate location and operation of all facilities. Site reinstated upon completion of project.
Reporting	<ul style="list-style-type: none"> Daily monitoring reflected in daily site diary entries when required Weekly Inspections undertaken and recorded on the Weekly Environment Inspection Form (C-FRM-061)
Reference	<ul style="list-style-type: none"> Approved Site Plan Australian Standard 2436-1981 Guide to Noise Control on Construction, Maintenance and Demolition Sites Hornsby Shire Council Local Environment Plan Environmental Planning and Assessment Act 1979 (NSW) Native Vegetation Act 2003 (NSW) Protection of the Environment Operations (Noise Control) Regulation 2008 (NSW)

Aspect 5.17	
Site Amenities	
Objective	Maintain hygiene and reduce nuisance created by site accommodation.
Management Strategy	<ul style="list-style-type: none"> • Keep site clean and tidy • Monitor area
Control Measures	<p>Project Manager shall ensure that:-</p> <ul style="list-style-type: none"> • Septic waste issues from overflowing portable toilets and unaccounted sewerage pipe burst is avoided. • Adequate lavatory systems are provided within reasonable proximity of working areas • Septic waste removal service is scheduled • Toilet facilities are well maintained • Clean up procedures are included in induction • There is bunting around temporary septic systems • There is a suitable and adequate amount of signage • Site induction demonstrate proper site behaviour • Waste paper waste from site office is collected in paper recycling bins and regularly collected. • Cardboard waste bin is provided on site. • All putrescible waste is stored in secure containers until removal and disposal off site. • A daily 'sweep' of the entire area is done to remove any stray/windblown litter. • Designate specific areas on site for the temporary management of waste; i.e. general domestic waste, works waste and contaminated waste. • Waste streams will be segregated to enhance recycling opportunities where practicable i.e. general domestic waste, works waste and contaminated waste. • All domestic and hazardous waste to be disposed of in dedicated industrial bins. • Waste bin lids to be closed at all times to avoid rainwater ingress, windblown littering, access by birds and scavenging by vermin, birds or native wildlife. • Waste oils to be recycled where practicable. • No waste will be burnt on site.
Performance Indicators	<ul style="list-style-type: none"> • No odour or vermin present
Reporting	<ul style="list-style-type: none"> • Monthly waste reports from waste contractor
Reference	<ul style="list-style-type: none"> • None

Aspect 5.18	
Identification and Protection of Existing Utility Services	
Objective	Avoid damage to, or unplanned interruption of, utility, overhead and underground services.
Management Strategy	<ul style="list-style-type: none"> Site environmental induction to address location of and protective measures for utility services. Identify, mark and protect utility services (electricity, water, gas etc.). Ensure all necessary interruptions to utility services are planned and communicated to all relevant persons and Authorities.
Control Measures	<p>Project Manager shall ensure:</p> <ul style="list-style-type: none"> Existing services plans will be studied and services will be located and marked prior to commencing any works. Comprehensive “consolidated services plans” will be procured and prepared for all works areas including type, location, depth etc. of all known or identifiable services (to be prepared by surveyor). Services Detection will be undertaken wherever services are likely to be encountered. Non-destructive excavation techniques to be implemented wherever possible, especially around existing services. Contact telephone numbers for emergency services for utilities are established and readily available in the Site Emergency Plan Storage areas are located remote from utility services. Access ways, haul roads and turning points are arranged to avoid possible clashes with utility services. Overhead protection/warning is provided for high loads, vehicles, cranes etc. Spotters are provided when work is undertaken beneath overhead power lines. Where it is found necessary to temporarily interrupt, remove, divert or make connection to an existing service or other existing work beyond the control of the Watpac, written approval from the Principal will be sought prior to undertaking Works.
Performance Indicators	<ul style="list-style-type: none"> No unplanned interruptions to any utility service.
Reporting	<ul style="list-style-type: none"> Health Infrastructure must be notified in accordance with the HI Stakeholder Management Plan Process. Refer to Appendix 6.1 Notification to relevant authorities Daily monitoring reflected in daily site diary entries Weekly Inspections undertaken and recorded on the Weekly Environment Inspection Form
Applicable Permits	<ul style="list-style-type: none"> Dial Before You Dig Permit to Dig (Watpac NSMS Form)
Reference	<ul style="list-style-type: none"> Work Health and Safety Act 2011 Energy and Utilities Administration Act 1987 (NSW) SSD Conditions: B32, B33, C33 REF Conditions: 7, 18, 20 CG21 Preliminaries: 5.4, 5.15

Aspect 5.19	
Vermin and Pest Control	
Objective	Minimise the possibility of infestation from rats, mice, insects, bats, possums etc.
Management Strategy	<ul style="list-style-type: none"> Keep site clean and tidy Monitor area for infestation Consult Pest Management Contractor if required
Control Measures	<p>Project Manager shall ensure that:-</p> <ul style="list-style-type: none"> Keep site clean and tidy with daily clean-ups. Ensure all putrescible waste is disposed of in an appropriately sealed receptacle. Six weeks prior to the commencement of any demolition, individual blocks, properties and the surrounding area should be inspected in order to identify the presence and extent of any infestations. Where infestations are identified, appropriate treatments must be implemented by licenced Pest Control Contractors to eliminate infestation before demolition. Minimise ponding and exposed water sources to prevent mosquitos and midgeys. Ideally, licenced Pest Control Contractors should be consulted for management strategies after the substructure is completed. Frequently the dark cold environment can be a pest habitat which presents an unacceptable working environment. To prevent rat egress from live drains and sewers to new systems, the live systems should be temporarily sealed off with expanding drainage stoppers until connection to new drainage is completed. Where vermin presents itself as a problem on site, consult a Pest Control company for advice. Do not attempt to address the problem internally.
Performance Indicators	<ul style="list-style-type: none"> No infestations.
Reporting	<ul style="list-style-type: none"> None
Reference	<ul style="list-style-type: none"> Work Health and Safety Regulation 2011 CG21 Preliminaries: 6.4

Aspect 5.20	
Environmental Emergency Plans	
Objective	<p>The Project Manager shall ensure that:-</p> <ul style="list-style-type: none"> • A Spill kit is available on site at all times • All reasonable measures are taken to prevent environmental emergencies • The Project Emergency Plan is readily accessible to all site personnel • Emergency Plans are part of site Inductions
Reporting	<ul style="list-style-type: none"> • Health Infrastructure must be notified in accordance with the HI Stakeholder Management Plan Process. Refer to Appendix 6.1 • All emergency situations to be reported, investigated and recorded
In the event of an environmental incident	<ul style="list-style-type: none"> • Stop work and secure the area if safe to do so • Initiate the Project Crisis Checklist • Prevent the incident from escalating • Notify applicable management, emergency services and authorities • Clean up the affected area. Engage specialist help if required • Investigate the circumstances • Record the incident • Implement actions to prevent a recurrence • Follow-up to ensure the actions were correctly implemented and effective
In the event of an incident involving a dangerous goods spill, leak or explosion;	<p>In event of spill:</p> <ul style="list-style-type: none"> • Assess: Evaluate the spill to determine if it can be dealt with by an individual, the spill response team or if outside assistance is required. • Secure: Make the site safe for all personnel and the general public. • Contain: Spill response equipment such as spill booms, drain covers or bunding can be used to contain the spill. For solids, tarps may be used to cover and prevent dampness to granules or possible dispersion by wind. • PPE: Identify the liquid and check the MSDS to ascertain the required PPE. • Absorb: Once the liquid is contained, it will need to be converted to a solid by absorption. Use the appropriate absorbing pads or absorbent to soak up the spill by placing them over the liquid. Remove the saturated pads and replace as necessary. On porous surfaces, sprinkle loose absorbent over the spill and broom through until surface appears dry. • Dispose: Place the spent absorbent in the disposal bags. Correctly dispose of contaminants off site using a licensed contaminated waste disposal contractor. • Report: Document the incident and include what happened, when it happened, where it happened; and what was done to eliminate or minimise the impact. • Restock: Order and replace used up PPE and absorption materials.
Extreme Wet Weather	<ul style="list-style-type: none"> • Alert site personnel and stop all external work on if applicable • Check site for plant, equipment and materials and secure anything not in immediate use • Check water outlets, water catchments, stormwater and sedimentation controls
Unplanned Interruptions to Existing Services	<ul style="list-style-type: none"> • Shut down and isolate plant if safe to do so • Immediately notify relevant emergency services and service providers • Secure the area and erect hazard markers as required • Protect stormwater outlets, implement controls if required. • Do not recommence work until approved by the relevant authority
High Wind Warning	<ul style="list-style-type: none"> • Alert outdoor workers of potential dangers and stop all external work • Secure any loose object that could become missiles
Discharge to Trade Waste	<ul style="list-style-type: none"> • Immediately notify relevant authorities of any event relating to a discharge to sewer that may: cause a breach of the trade waste agreement; endanger the life or compromise the safety of water authority workers; prevent or disrupt the operation of any sewerage; treatment plant; detrimentally affect any aspect of the environment

Aspect 5.21	
Earthworks and Groundwater Contamination	
Objective	<p>To detect and manage contaminated land, prevent leaching of contaminated materials or groundwater infiltration during earthworks, and detect services prior to commencement</p> <p>Mitigate potential environmental and operational consequences of encountering groundwater during excavation and piling.</p> <p>Avoid or minimise contamination of land caused by the use of imported materials, or by spillage of fuels, paint, form oil, chemicals etc.</p>
Management Strategy	<ul style="list-style-type: none"> • Expert consultants are engaged to investigate project site geotechnical conditions and provide a detailed assessment of the quality of the earth, and existence of groundwater table, before earthworks begin. • Services will be identified before earthworks commences • Controls are in place to capture and treat contaminated soil and groundwater. • An 'unexpected finds protocol' would be prepared and included to assist with the identification, assessment, management, health and safety implications, remediation and/or disposal (at an appropriately licenced facility) of any potentially contaminated soil and/or water. • If dewatering is required during construction, the water would be tested (and treated if necessary) prior to re-use, discharge or disposal.
Control Measures	<p>Project Manager shall ensure:</p> <ul style="list-style-type: none"> • Obtain soil testing for waste classification prior to excavation and removal off site. Tests would confirm the presence and type of any contaminants, and classify the soil for the purpose of spoil management and removal. • Hoarding is in place prior to any excavations being undertaken on-site. • Dial Before You Dig permits will be obtained before earthworks commence. • All materials on-site or being delivered to the site shall be contained within the site. The requirements of the Protection of the Environment Operations Act 1997 shall be complied with when placing/stockpiling loose material or when disposing of waste products or during any other activities likely to pollute drains or watercourses. • Cease work in the immediate vicinity of any areas of suspected contamination that are identified prior to or during work. Ensure that these areas are not disturbed and are cordoned off as a safety risk. • In the event that indicators of contamination are encountered during construction (e.g. odours or visually contaminated materials), work in the area will cease until an occupational hygienist can advise on the need for remediation or other action. • If remediation is required then a Remedial Action Plan is to be prepared and remediation works are to be carried out in accordance with State Environmental Planning Policy No. 55 – Remediation of Land. • Plant and equipment to be inspected prior to start up. Any defects that may result in an environmental incident (spills, leaks, etc.) are to be repaired prior to operation. <ul style="list-style-type: none"> - Check machinery daily for oil, fuel or other liquid leaks. - No water used or generated by machinery or equipment is to be discharged to stormwater, drainage lines, water course/bodies, or the sewage system unless a permit/license is acquired. • Where reasonably practicable, contingent timing of earthworks when water levels are low, that is, avoiding periods of heavy rain to avoid extensive soil saturation. • Remediation plans will be developed if required. This will either involve off-site disposal or on-site remediation, which may be stockpiling and treating. <ul style="list-style-type: none"> - If disposal, a permit for removal and disposal of contaminated soil will be required • Imported materials will be certified as being as per the specifications and free from deleterious organic matter. <ul style="list-style-type: none"> - All imported materials are procured from known sources and must be validated to ensure it is suitable for the proposed land use from a contamination perspective in accordance with National Environment Protection Measure (NEPM: Assessment of Site Contamination) measure which defines criteria for different land uses. - Validation as suitable clean fill must either be in the form of suitable

	<p>documentation from the supplier or by sampling and analysis in accordance with relevant legislative requirements</p> <ul style="list-style-type: none"> • Manage stockpiles by implementing sediment and erosion control devices in accordance with Managing Urban Stormwater, Soils & Construction, Volume 1 (Landcom, 2004). <ul style="list-style-type: none"> - Stockpiling will be in approved locations, and tested for contamination/suitability before being re-used on site - Stockpiles will be surrounded by sediment fences/screens and covered to prevent weather effects. - Any proposed re-use on site to be considered in accordance with NEPM (Assessment of Site Contamination) • Stabilisation of any excavated areas occurs as soon as reasonably practicable. <ul style="list-style-type: none"> - Sediment traps and cut-off drains are provided to control surface drainage. • Any contamination caused by construction related activities must be notified to the PM/CA in accordance with the environmental incident report outlined in this PEMP and fully remediated to satisfaction. All contaminated material to be managed in strict compliance with the approved remediation plan. • All waste generated from earthworks/civil works will be classified and immobilised as per EPA Waste Classification Guidelines. • If Asbestos or other extremely hazardous material (PAHs,TRHs and leads) are encountered, a hygienist will be engaged to develop a Remediation Plan. Certified asbestos removalists will be engaged and monitored by the Hygienist. <ul style="list-style-type: none"> - Asbestos removal and management in NSW is regulated under the WHS Act 2011 and WHS Regulation 2011. The handling of asbestos and asbestos work will be carried out in accordance with relevant codes/guides including, but not limited to, Code of Practice: How to Safely Remove Asbestos (Safe Work Australia, 2016) and Code of Practice for the Safe Removal of Asbestos 2nd Edition (NOHSC: 2002 (2005)). - If leads, fuels or other NPI trackable substances that do not present an immediate extreme danger are encountered, soil is to be stockpiled and the civil engineer or geotechnical engineer consulted for treatment purposes. • If any suspicious material is encountered the 'Unexpected find checklist' is followed and completed (see appendix 6.8)
Performance Indicators	<ul style="list-style-type: none"> • No pollution or contamination of waterways • No release of contaminated materials or compromised water from the site • Zero harm – no harm to anyone (worker/PCBU/hospital staff or patrons/public)
Reporting	<ul style="list-style-type: none"> • All spillages and discovery of contaminated material to be reported to the Project Manager or Contract Administrator • Daily monitoring during associated works, reflected in daily site diaries when required • Weekly Inspections undertaken and recorded on the Weekly Environment Inspection Form
Applicable Permits	<ul style="list-style-type: none"> • Permits for removal and disposal of contaminated soil
Reference	<ul style="list-style-type: none"> • NSW State Groundwater Quality Protection Policy (Department of Land & Water Conservation 1998) • Environmental Planning and Assessment Act 1979 • Protection of the Environment Operations Act 1997 • State Environmental Planning Policy No. 55 – Remediation of Land (July, 2014) • Managing Urban Stormwater, Soils & Construction, Volume 1 (Landcom, 2004) • EPA Waste Classification Guidelines (2014) • Workplace Health and Safety (WHS) Act 2011 • Workplace Health and Safety (WHS) Regulation 2011 • Code of Practice: How to Safely Remove Asbestos (Safe Work Australia, 2016) • Code of Practice for the Safe Removal of Asbestos 2nd Edition (NOHSC: 2002 (2005)) • SSD Conditions: C12, C13, C34, AN9 • REF Conditions: 7, 10, 14, 15, 20, 25, 26

Aspect 5.22	
External Lighting	
Objective	Control or minimize the obtrusive effects of outdoor lighting used on the project site for works, safety and/or security.
Management Strategy	Outdoor/external lighting designed and implemented in accordance with AS4282 - 1997 Control of the Obtrusive Effects of Outdoor Lighting
Control Measures	<p>Project Manager shall ensure:</p> <p>Outdoor lighting is controlled in accordance with AS4282 - 1997.</p> <p>External lighting principles, as described in Appendix A - AS4282, are adhered to where reasonably practicable:</p> <ul style="list-style-type: none"> - Switch off lights when not required for safety, security or enhancement of the night-time scene. (In this respect, one can introduce the concept of a curfew with further limitations on lighting levels between agreed hours, e.g. the reduction or switching of advertising and decorative floodlighting between 11pm and dawn. - Whenever possible, direct light downwards, not upwards, to illuminate the target area. If there is no alternative to up-lighting, then the use of shield and baffles will help reduce spill light to a minimum. - Use specifically designed lighting equipment that, once installed, minimises the spread of light near to, or above, the horizontal. - Do not 'over' light. It is a cause of light pollution and a waste of money. Recommended light levels exist for some applications – see relevant standards. - To keep glare to a minimum, ensure that the main beam angle of all lights directed towards any potential observer is kept below 70°. It should be noted that the higher the mounting height, the lower can be the main beam angle. In places with low ambient light, glare can be very obtrusive and extra care should be taken in positioning and aiming. - Wherever possible use floodlights with asymmetric beams that permit the front glazing to be kept at or near parallel to the surface being lit. <p>Lighting that efficiently directs the light into the area required, thereby minimising the energy consumption and waste light.</p> <p>Illuminance calculated as per Section 5 <i>Calculation of Light Technical Parameters</i>, AS4282.</p> <p>A survey of properties in the immediate precinct of the site is undertaken and notes made, particularly on buildings within the hospital grounds and residential buildings along Derby Road.</p> <p>Lighting is sufficient to safely carry out any works required in any given area</p>
Performance Indicators	No disturbances/incidents or complaints.
Reporting	<p>Monitoring records to be maintained during any activities with potential to generate obtrusive light infliction on local environment.</p> <p>Weekly Inspections undertaken and recorded on the Weekly Environment Inspection Form</p>
Reference	<p>AS4282 - 1997 Control of the Obtrusive Effects of Outdoor Lighting</p> <ul style="list-style-type: none"> • SSD Conditions: B4, E8

6. Appendices

6.1. HI Incident Stakeholder Management Plan

Contents

1. Overview
2. Links to other policies and plans
3. Incident Management Framework
4. Incident Management Team
5. Stakeholder relationship managers
6. Incident Checklist
7. Communications Tools
8. Draft Key Message guide
9. Media holding statement template

Appendix 1

Incident Media Response Protocols – for communications staff liaison with Minister’s Office and Local Health Districts

Version Control					
Version	Date	Document Author	Reviewed	Endorsed By	Document owner
1.0	02/05/16	HI Communications team	Martin Cook, Executive Director Delivery	Sam Sangster, Chief Executive	Martin Cook, Executive Director Delivery
	September 2016	HI Communications team	HI Board	Sam Sangster, Chief Executive	

1. Overview

Health Infrastructure is the NSW Government's dedicated health capital works arm, with the overarching responsibility for the planning, design and delivery of hospitals and associated facilities in metropolitan, regional and rural New South Wales.

The organisation is, as at early 2016, planning or delivering more than 80 hospitals, ambulance stations, multipurpose services and other health related infrastructure across the state. Of the \$5 billion investment allocated to the health portfolio in the current term of government, Health Infrastructure is delivering projects with a capital value of around \$1.4 billion in 2015-16, which is around 11 per cent of the State's total capital works program.

Health Infrastructure's projects include major civil works at hospitals, including brownfield projects where entire hospital campuses are reconfigured and redeveloped, extensive refurbishments to existing civil structures, and greenfield developments involving the construction of entirely new major structures.

While the organisation co-ordinates and manages the health capital works program, on the ground, all Health Infrastructure projects are delivered by the market, via competitively tendered contracts, with the aim of engaging suitably qualified and capable construction firms to undertake the physical work. Projects are delivered through contractors and sub-contractors who engage their own staff.

As the co-ordinating body for the health capital works program, with direct reporting lines to the NSW Government and day-to-day responsibility for high level stakeholder management and public communications, Health Infrastructure reinforces with its contractors the importance of safety on projects – safety for construction workers, safety for employees on 'live' hospital sites, and safety for local communities and the environment near our projects.

As such, Health Infrastructure has developed this Incident Communications & Stakeholder Management Plan, to be deployed in the event of safety or other incidents at our sites. The plan establishes an Incident Management Framework (Section 2), to be put into action in the event of incidents on our projects. It also includes a high-level overview of incident management response management (Section 3), stakeholder relationship managers (Section 4), an incident checklist (Section 5), a list of communications tools (Section 6), a key message guide (Section 7) and a template media holding statement (Section 8). Incident media response protocols are enclosed.

While a major driver for the development of this plan is project safety, key aspects of the plan can also be adapted and deployed in the event of major non-safety related incidents, for example, incidents with the potential for severe corporate reputational impacts.

The protocols and tools contained in this plan will be deployed, in the case of Critical and Major Incidents, when the Chief Executive declares an incident to have taken place. This plan is a 'living document' and will be reviewed and updated at frequent intervals over time to ensure it remains current and up-to-date.

2. Links to other policies and plans

NSW Health Incident Management Policy

This Health Infrastructure Incident Communications & Stakeholder Management Plan has been developed for the purposes of providing an incident-specific, proactive framework for the management of incidents and issues with the potential to arise in the construction of major capital works. Health Infrastructure, as the dedicated planning and delivery arm of NSW Health, is also subject to the policies and procedures developed and implemented from time to time by the Ministry of Health.

As such, this plan underpins Ministry of Health policy directive PD2014_004 – Incident Management Policy – as published by the Ministry in February 2014. This policy directive sets out the Ministry’s incident management protocols, reporting requirements and evaluation and review processes in dealing with clinical, operational and corporate issues and incidents.

As the Ministry’s Incident Management Policy is focused primarily on, and tailored to meet the needs of Local Health Districts or respond to high-level corporate issues at the Ministry level, Health Infrastructure has developed this plan to ensure an incident response process is in place specific to the needs of potential incidents likely to impact the construction/infrastructure sector and projects. These may include incidents during the planning phase of hospital redevelopments (eg. discovery of hazardous materials on work sites) and incidents during the delivery phase (eg. incidents or accidents that may pose a risk to life or property).

To the extent that there are inconsistencies between the Ministry’s Incident Management Policy and HI’s Incident Communications & Stakeholder Management Plan, the provisions contained within the Ministry’s policy will prevail.

Trigger Action Response Plans

The Ministry of Health has requested that, for certain critical issues which require a longer term risk / incident management approach, agencies in the Health portfolio should consider the development of Targeted Action Response Plans (TARPs). TARPs should take the form of a useful escalation tool that can be quickly referenced by staff and contractors in the field including specific information on who to contact in the event of issues and incidents.

The Ministry has advised that the precise form of TARPs may be tailored to suit the business model of the agency. Health Infrastructure considers that the Incident Management Framework on page five of this document meets the requirements of the TARP escalation, notification and incident response / management process, on a whole-of-organisation basis. Given this, specific TARPs developed for the management of individual likely risks and issues may also be developed, and would underpin the overall plan.

3. Incident Management Framework

Category 1 – Critical Incident Trigger: Incident involving fatality or severe injury or incident resulting in potential severe corporate reputational damage, or major impact to critical hospital operations.	Category 2 – Significant Incident Trigger: Incident involving major detrimental impact to project, including damage to civil structures, extreme weather impacts, and threats to life or property or major environmental impact, or significant impact to critical hospital operations.	Category 3 – Minor Incident Trigger: Incident involving impact on project delivery which may involve regulatory investigation eg. injury resulting in LTI, minor environmental impact, or significant near miss.	Category 4 – Local Incident Trigger: Minor incident on worksite, eg. medical treatment not likely to lead to an LTI.
Step 1 – Immediate Contractor informs: Project Manager Regulators HI Senior Project Directors	Step 1 – Immediate Contractor informs: Project Manager Regulators HI Senior Project Directors	Step 1 – Within 1 hour Contractor informs: Project Manager Regulators HI Senior Project Director	Step 1 – Within 4 hours Contractor informs: Project Manager HI Project Directors
Step 2 – Immediate Senior Project Director informs: HI Chief Executive Executive Director Delivery	Step 2 – Immediate Senior Project Director informs: HI Chief Executive Executive Director Delivery	Step 2 – Within 1 hour Senior Project Director / Project Director and Inform Minister, Ministry, Local Health District/s engage with Director Communications and Engagement	Step 2 – Within 8 hours Project Director: Engage with HI Communications as required
Step 3 – Immediate Chief Executive and Executive Director: Inform Minister, Ministry, Local Health District/s Informs the HI Board Chair Engage with Director Communications and Engagement	Step 3 – Immediate Chief Executive and Executive Director: Inform Minister, Ministry, Local Health District/s Informs the HI Board Chair Engage with Director Communications and Engagement	Step 3 – Within 4 hours HI Communications: Deploy communications strategy as required	Notes: Incident Management Team not required – managed through routine project governance and reporting
Step 4 – Immediate HI Chief Executive / Executive Director Delivery officially declare incident	Step 4 – Immediate HI Chief Executive / Executive Director Delivery officially declare incident	Step 4 – If required Incident Management Team not required Managed through routine project governance and reporting Employee status monitored and incident escalated if condition becomes serious	
Step 5 – Within 1 hour Upon CE / ED officially declaring incident, a HI Incident Management Team is formed – see Section 2 below	Step 5 – Within 1 hour Upon CE / ED officially declaring incident, a HI Incident Management Team is formed – see Section 2 below		
Step 6 – Ongoing Incident Management Team assumes control of incident response Media and stakeholder communication managed in line with Section 3 – Stakeholder Relationship Managers and Appendix 1 – Incident Media Protocols	Step 6 – Ongoing Incident Management Team assumes control of incident response Media and stakeholder communication managed in line with Section 3 – Stakeholder Relationship Managers and Appendix 1 – Incident Media Protocols		

4. Incident Management Team

In accordance with the Incident Management Framework in Section 2 (on page 5 above), the Chief Executive of Health Infrastructure may declare an incident meeting the criteria for category 1 or 2 incidents, as either 'Critical Incidents' or 'Major Incidents' respectively.

In the event such a declaration is made, Health Infrastructure will then manage the incident via a dedicated 'offline' Incident Management Team, until such time the Chief Executive declares the incident closed.

The Incident Management Team will have a dedicated workspace made available in Health Infrastructure's office at North Sydney. The team will comprise of five senior staff, acting in the following capacities:

Role	Responsibility	HI Equivalent
Incident Controller	Ultimate responsibility for control of incident response	Chief Executive / Executive Director Delivery
Incident Technical Manager	To provide engineering and technical advice	Executive Director Delivery / Senior Project Director
Incident Planning Manager	To co-ordinate response planning	Senior Project Director
Incident Logistics Manager	To provide logistical support to the response and to ensure the response is being managed in line with HI's policies and procedures	Project Director
Incident Communications Manager	To act as a dedicated resource on all communications issues during the life of the incident	Director Communications and Engagement

The Health Infrastructure Chief Executive will have ultimate responsibility for the management of the incident response. The Chief Executive and Executive Director Delivery will also have responsibility for ensuring:

- Staff engaged on the Incident Management Team during the course of an incident, will disengage from their day-to-day duties, to ensure a focused response to the incident
- Project Directors will be allocated from within Health Infrastructure to ensure projects whose staff are temporarily deployed in the Incident Management Team are appropriately resourced on an interim basis
- If an incident is expected to continue for several days and may require overnight resources, members of the Incident Management Team will be provided with adequate breaks and rest periods, with 'alternate' team members replacing them at regular intervals.

5. Stakeholder Relationship Managers

While the Chief Executive of Health Infrastructure is ultimately responsible for stakeholder management and liaison during the course of managing an incident, on-going communication with key stakeholders will be assigned to dedicated officers at Health Infrastructure. See below a stakeholder relationship framework, to be used as a guide in assigning relationship management for individual stakeholders during the course of an incident. This guide is most relevant to Critical Incidents and Major Incidents.

Stakeholder	Primary contact	Secondary contact
NSW Premier	Chief Executive	NA
NSW Minister for Health	Chief Executive	NA
Minister's Chief of Staff	Chief Executive	Director Communications and Engagement
Minister's Office (staff)	Director Communications and Engagement	Chief Executive
HI Board Chair	Chief Executive	Executive Director Delivery
NSW Health Secretary	Chief Executive	Executive Director Delivery
Ministry of Health (Dep Secs)	Chief Executive	Executive Director Delivery
Ministry of Health (staff)	Executive Director Delivery / Senior Project Director	Director Communications and Engagement
Ministry of Health Communications and Media teams	Director Communications and Engagement	NA
Local Health District Boards	Chief Executive	Executive Director Delivery
Local Health District Staff	Senior Project Director	Project Director
Local Health District Communications and Media	Director Communications and Engagement	Senior Project Director
Hospital GM / Management	Chief Executive	Senior Project Director
Hospital staff	Senior Project Director	Project Director
Local Councils	Senior Project Director	Director Communications and Engagement
Local Member of Parliament	Senior Project Director	Director Communications and Engagement
Project Manager	Senior Project Director	Project Director
Lead Contractor	Senior Project Director	Project Director
Health Infrastructure Staff	CE / EDD / DC&E	NA
Regulators	EDD	Senior Project Director
Emergency Services	Senior Project Director	Project Director
Local community	Director Communications and Engagement	Local project / LHD comms resource
General public	Director Communications and Engagement	Local project / LHD comms resource
General media (interviews and inquiries)	Chief Executive	Director Communications and Engagement

6. Incident Checklist

The checklist below has been developed as a guide for the Health Infrastructure Incident Controller, Health Infrastructure Incident Management Team and Health Infrastructure Project Directors to ensure appropriate steps are taken and relevant stakeholders are informed at the appropriate time in the event of a critical incident. The checklist is a useful guide to ensure a number of significant steps are followed during the incident response, but it in no way limits the response actions available to the Incident Controller and Incident Management Team.

Task	Responsibility	Completed
Incident Controller appointed	Chief Executive	<input type="checkbox"/>
Engage immediately with lead contractor and establish points of contact	Chief Executive, Executive Director Delivery, Senior Project Director	<input type="checkbox"/>
Advise contractors / project managers of media protocols – all media inquiries directed to HI	Senior Project Director	<input type="checkbox"/>
Declaration of critical incident once facts are known (under categories 1 and 2)	Chief Executive	<input type="checkbox"/>
Incident Management Team selected	Chief Executive, Executive Director Delivery	<input type="checkbox"/>
Text message to relevant project staff to advise an incident is declared	Senior Project Director / Project Director	<input type="checkbox"/>
Establish incident co-ordination centre	Executive Director Delivery	<input type="checkbox"/>
Appoint incident contact at project site	Senior Project Director / Project Director	<input type="checkbox"/>
Establish contact point with key authorities / emergency services	Senior Project Director / Project Director	<input type="checkbox"/>
Inform Minister's Office / Ministry within an hour of declaration of Category 1 or 2 incident	Chief Executive / Director Communications and Engagement	<input type="checkbox"/>
Appoint media spokesperson and develop immediate key messages and media statement	Chief Executive / Director Communications and Engagement	<input type="checkbox"/>
Inform HI staff of incident by 8am on the next working day	Chief Executive / Director Communications and Engagement	<input type="checkbox"/>
Continue to engage with contractor and any external specialists required to manage response	Executive Director, Delivery / Senior Project Director / Project Director	<input type="checkbox"/>
Monitor stakeholder and media response during deployment of incident management measures	Communications Lead	<input type="checkbox"/>

7. Communications Tools

During a critical incident, the Health Infrastructure Communications Lead on the incident management team, working in conjunction with the Chief Executive and team members, will be solely responsible for communications activities relating to the incident and will be 'offline' from any other HI communications tasks.

See below a list of proactive communications tools that should be deployed when an incident is declared. These tools are available for use across any Health Infrastructure incidents, although they are particularly relevant to category 1 and 2 incidents:

- Key messages – developed immediately and continuously updated
- Media Holding Statement (early stage when detail is limited)
- Media Release (once more information is known)
- Direct contact with Minister / NSW Health Secretary
- Regular formal briefing notes to the Minister and Ministry
- Regular updates to Minister's staff
- Automated text message to internal staff
- All Health Infrastructure staff email/s throughout incident response
- Liaison with local media re: site safety, security
- Hourly Situation Reports (generated by incident management team)
- Media conference on site by Chief Executive
- Direct communication with families of injured / deceased workers
- Door-knocking local community if threat to life / property
- Monitoring media and stakeholder public response
- Proactive / reactive interviews with media
- Use of social media channels (eg. Twitter) to disseminate information
- Project website to provide updates

8. Draft Key Message Guide

At the onset of an incident being declared, the Incident Management Team will develop an immediate set of key messages about the nature of the incident, based on information that has been received and is verifiable. In the early stages of a major incident, it is very common that information received is later found to be incorrect or missing key elements.

It is therefore crucial that the early key messages only include verified information – it is often better to provide more details to the media and public as an incident unfolds, rather than providing detail later found to be inaccurate early in the incident. See below a list of initial details to be included, if possible, in the initial key messages.

Key message guide:

- Time of incident
- Location / name of hospital
- Basic description of what occurred
- HI initial steps to manage incident
- Initial lines of communication established between Health Infrastructure, contractors and authorities
- What HI will do over the initial hours
- Assurance HI will keep community, staff, families of those impacted informed as more detail is known

9. Draft Holding Statement

See below a template media holding statement for the initial response to a critical incident (categories 1 and 2). This is a guide only and will be tailored for the individual circumstances of incidents.

Date

TITLE

At [time] Health Infrastructure became aware of a serious incident at [project / location].

The initial reports received by Health Infrastructure indicate [details of incident].

Health Infrastructure has declared this to be a critical incident, and a comprehensive incident management plan has been put in place.

Safety is Health Infrastructure's highest priority and we are working with the principal contractor for the project [contractor name] to address immediate issues including [eg. contacting relatives of injured worker, securing the site, setting up exclusion zone etc].

Health Infrastructure and [contractor] have been in immediate contact with the [relevant authorities eg. NSW Emergency Services authorities, NSW Police, NSW Fire Brigade etc] to ensure the area is safe. Health Infrastructure has also notified the appropriate safety [or other eg EPA] regulators.

HI's immediate concern is the wellbeing of the [impacted worker/s, staff, local community etc].

[Any other steps Health Infrastructure has taken immediately].

Detailed investigations will take place into this incident in due course. In the immediate future, however, Health Infrastructure's priority is to work with the contractor and authorities to ensure the site is safe and secure. No work will take place on the project until it can be certain that it is safe to do so.

Health Infrastructure will continue to keep the [public / local community] informed as the incident management plan is put in place and further details become known.

[Contact / communication channels]

APPENDIX 1

PROJECT INCIDENT MEDIA RESPONSE PROTOCOLS

All media enquiries in regard to project incidents should be referred to HI Communications in the first instance. HI Communications will then discuss the enquiry with the Senior Project Director / Project Director, to determine a response strategy, while keeping key stakeholders informed. Relevant parties may approve responses, including the Ministry of Health, LHD, and the Minister's Office.

Project Directors, LHDs, hospitals, contractors and project managers are required to refer all project incident-related media enquiries to HI Communications as soon as possible after the incident occurs. The overarching management of project incidents will be in accordance with the *HI Incident Management Communications & Stakeholder Management Plan* and *Incident Management Framework*.

ROLE OF HI COMMUNICATIONS

HI Communications takes the lead on all project incident media enquiries related to HI hospital redevelopments, Multipurpose Services, Primary and Integrated Care and ambulance station upgrade projects. This includes print, radio, television and online media. HI Communications will liaise with the Project Director/s and Local Health Districts and hospitals as required, in the development of media responses. HI Communications will liaise with the Minister's Office / Ministry of Health, to ensure a co-ordinated response.

ROLE OF CONTRACTORS / PROJECT MANAGERS

Contractors, project managers and their staff at work **sites must not comment to the media on any issues, under any circumstances**. All media requests or enquiries, including journalists approaching staff on work sites or filming nearby, should be referred to the HI Project Director/s, who will in turn alert HI Communications.

ROLE OF PROJECT DIRECTOR/S

For non-critical incidents (categories 3 and 4 in the *Incident Communications & Stakeholder Management Plan*), HI Project Directors have over-arching responsibility for incident media response material issued by HI Communications in consultation with LHDs / hospitals.

For matters declared by the Chief Executive or Executive Director Delivery as critical or significant incidents (categories 1 and 2 in the *Incident Communications & Stakeholder Management Plan*), the HI Executive will take the lead in managing incident media responses.

ROLE OF HI EXECUTIVE – CRITICAL OR SIGNIFICANT INCIDENTS

Certain major incidents, involving potential threat to life or major damage to property, may be declared **critical or significant incidents** by the HI Chief Executive and Executive Directors, hereafter referred to as ‘the Executive’. In this case, the Executive assumes overall control and approvals of incident response and media strategy. Critical or significant incident responses will be developed by the Incident Management Team formed as per Section 3 of the *Incident Communications & Stakeholder Management Plan*.

ROLE OF LHDS / HOSPITALS / PROACTIVE PROJECT COMMUNICATIONS LEADS

In the event of an incident relating to a HI capital works project, HI assumes overall responsibility for responding to media enquiries. HI will consult with LHDS and hospitals in formulating a response.

The LHD media teams and hospital General Managers remain responsible for media enquiries on operational matters and are authorised to provide comment on the on-going operational status of a hospital in the event of an incident (eg. hospital remaining open, certain wards closed, patient and staff relocations and impacts etc).

The LHDS and individual health facilities will also act in compliance with relevant policy directives and their local incident management processes. Project Communications Resources should familiarise themselves with such local processes so they can provide appropriate advice and coordination across Health Infrastructure, the LHDS and hospitals.

HI project communications leads, working with LHDS or at hospitals, are generally responsible for proactive, non-incident communications, and should refer all enquiries to HI. After hours media enquiries can be referred to the HI Communications after hours contact phone number.

**[After hours contact - Kara Giltinan, Director Communications and Engagement:
0411 897 570]**

HEALTH INFRASTRUCTURE

Incident Communications & Stakeholder Management Plan

Diagram 1 – HI Non-Critical Incident Media Approvals Process

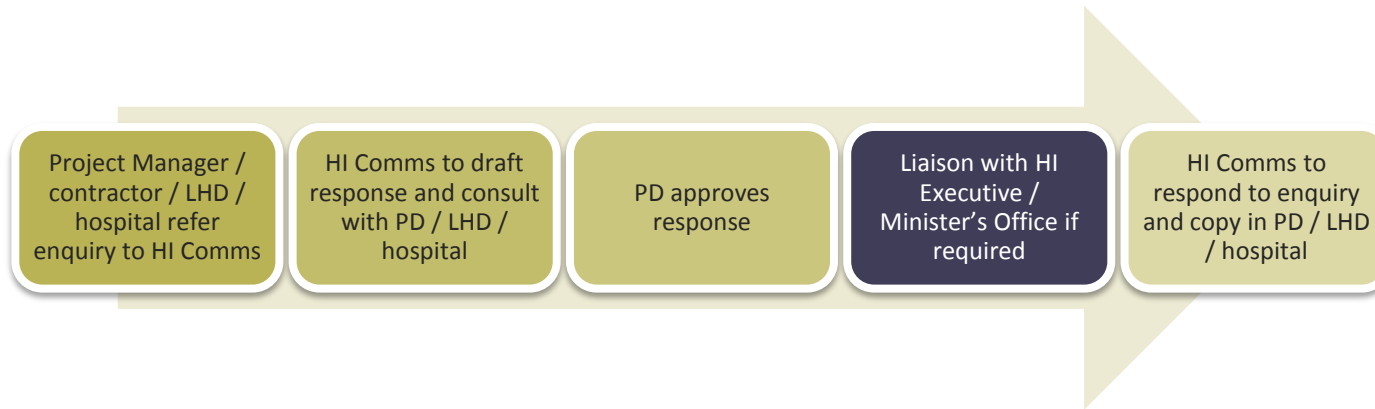
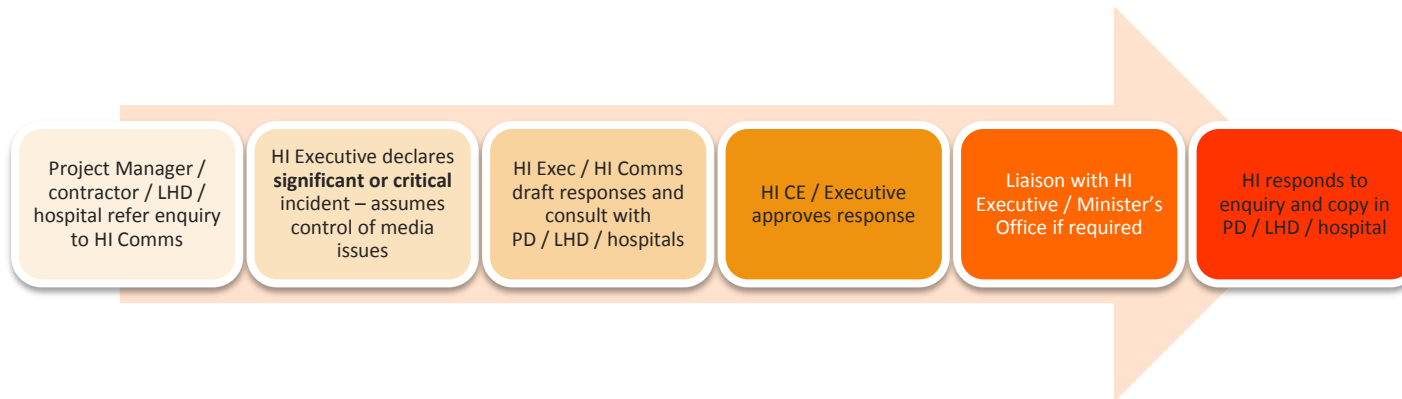


Diagram 2 – HI **Critical or Significant** Incident Media Approvals Process



6.2. Environmental Risk Assessment

- | | |
|---|---|
| 1 Emissions to Air | 5 Community and Neighbours |
| 2 Releases to Water | 6 Flora and Fauna |
| 3 Releases to Land | 7 Heritage and Cultural |
| 4 Use of Raw Materials, Natural Resources | 8 Hazardous Substances including Asbestos |

1 EMISSIONS TO AIR				INHERENT RISK		RESIDUAL RISK		
				Likelihood	Consequence	Risk	Likelihood	Risk
				Possible	Minor	Medium	Unlikely	Low
Environmental ASPECT	Associated IMPACT	LEGAL & OTHER REQUIREMENT Relevant Document Title/Section/Clause	CONTROLS	COMPLIANCE	VERIFICATION/RECORD			
1.1 Exhaust Fumes	Air Pollution Annoyance Nuisance	Protection of the Environment Operations (Clean Air) Regulation, 2010 Part 4 Div 2 (cl 15 and 165) - Part 4, Div 4 (cl 21 and 22) Protection of the Environment Act, 1997 Part 5.4 Div 1 - (Cl 124 -132)	Ensure vehicles, plant & equipment are regularly maintained and assess if an air pollution device is required to be fitted. Air quality monitor to be used when deemed necessary. Switch off engines when not in use. Do not operate a motor vehicle which emits visible emissions for more than 10 seconds after start-up Do not cause air pollution by failing to maintain and operate plant, or carry out maintenance work on plant, in a proper and efficient manner	Check trucks / plant on arrival to site for defects to exhausts and mufflers. Check service records to ensure machines/trucks are regularly maintained. Ensure pre-start plant inspections	Plant and Equipment induction records Site Diary Environment Inspection Records Project Induction Records			
1.2 Excavation Dust Demolition Dust Construction Dust	Air Pollution Annoyance Nuisance	Protection of the Environment Operations Act 1997 - Part 5, Div 1, (Cl 124&125), Part 5.4 Div 1 (Cl 126) Protection of the Environment Operations (Clean Air) Regulation, 2010 Part 5 Div 2&3 (cl32-46) Protection of the Environment Operations (General) Regulation 2009 (Schedule 6 - 123-124 and 126) Protection Environmental Legislation Environmental Amendment Act 2011 Cl148	Implement dust suppression methods: • barriers to prevent the spread of dust • cover loads, restrict vehicle speeds • minimise areas being worked • use water cart and water sprays Do not pollute the atmosphere so that it becomes potentially harmful to the health, welfare, safety or property of people; detrimental to any beneficial use. Notify parties potentially impacted by activities Cease activities if dust is not controlled. under Amendment act report immediately instead of as soon as reasonable practicable	Monitor site conditions Conduct site inspections Penalties not incurred as per the POEO General Regs	Plant and Equipment induction records Site Diary Environment Inspection Records Project Induction Records			
1.3 Chemical Fumes and odours from products or excavation of contaminated soils	Air Pollution Annoyance Nuisance	Protection of the Environment Operations (Clean Air) Regulation, 2010 Part 5 Division 2 (Cl 36,28,39,40,42.) , Division 5 (cl 55) Div 2 60&61	Use low VOC products such as paints, waterproofing and adhesives. Provide correct waste containers for disposal. Do not allow any odours to be emitted which may be offensive to the sense of human beings or a nuisance to any persons beyond the boundary of the premises.	Monitor site conditions Conduct site inspections	Plant and Equipment induction records Site Diary Environment Inspection Records Project Induction Records			
1.4 Environmental Emergency (Fire, Explosion, Chemical Spill)	Air Pollution Annoyance Nuisance	Protection of the Environment Act,1997 (Cl91,284)	Minimise volumes of materials stored on site Provide initial-response fire fighting equipment and appropriate spill kits.	Induct staff and subcontractors in Emergency Preparedness and Response. And ensure are adequately trained in site procedures.	Plant and Equipment induction records Site Diary Environment Inspection Records Project Induction Records			

2 RELEASES TO WATER:				INHERENT RISK		RESIDUAL RISK		
				Likelihood	Consequence	Risk	Likelihood	Risk
				Possible	Minor	Medium	Unlikely	Low
Environmental ASPECT	Associated IMPACT	LEGAL & OTHER REQUIREMENT Relevant Document Title/Section/Clause	CONTROLS	COMPLIANCE	VERIFICATION/RECORD			
2.1	Potential Spills - General spills - Leaks from plant and equipment - Refuelling spills	Stormwater and / or groundwater pollution	Protection of the Environment Act, 1997 Part 5.3 (cl120,121,123,125) Environmentally Hazardous Chemical Act 1985, part 3, Div 2&3 (Cl 10,11,13)	<ul style="list-style-type: none"> Ensure all liquids are stored in appropriate containers. Ensure availability of appropriate spill kits and conduct induction / training in their use. Maintain an MSDS register for all products on site Locate chemicals away from water courses and protect waterways in the event of a spill Store minimal amounts on site Clean up spills immediately Contain any spills on site Do not cause water pollution (other than to a sewer), except in accordance with the conditions of any EPA licence Ensure that in each area of the premises where dangerous goods are stored or handled, provision is made for spill containment that will so far as is practicable, contain the spill within the premises.	Induct staff and subcontractors in Emergency Preparedness and Response.	Induction Records Environmental Inspection Records SDS Register Site Diary Trade Waste Agreement and discharge records (where applicable)		
2.2	Pollutants entering the Stormwater System • litter • sediment from contaminated runoff • water from wash-down • wash out of concrete trucks and pumps • brick and paver cutting	Stormwater Pollution	Project Sedimentation and Stormwater Management Plan and Project Environmental Management Plan Protection of the Environment Act 1997 (cl 120-123) - Water Management Act, 2000, Div 7 (cl 34) Protection of the Environment Operations (General) Regulation 2009 Chapter 3 Part 1 (cl 56,59)	Implement a Sediment and Erosion Management Plan <ul style="list-style-type: none"> Minimise and control all stormwater run-off from site Identify and protect stormwater outlets using geo-fabric, gravel saudades and silt fences Plan and protect stockpiles and locate away from stormwater drains and low points Establish hard stand haul roads and site entrance/exit Contaminated waste water to be disposed of to sewer in compliance with a Trade Waste Agreement or by licensed contractor to a licensed facility Establish designated areas for washdown of concrete chutes etc. and for wet trades Plan and protect stockpiles. Locate away from stormwater drains and low points Establish stormwater connections as soon as practicable Control water from wheel wash, rumble strip and road cleaning No washing of roadways into unprotected drains All stormwater discharges to be in accordance with regulatory requirements Ensure that discharges to stormwater drains, surface waters and groundwater do not put at risk any beneficial use of these waters.	Induct staff and subcontractors in Stormwater and Erosion Management Daily monitoring of site conditions Weekly inspection to be undertaken and recorded Controls inspected before, during and after storm events. All incidents and non-compliance with controls to be reported, investigated and recorded	Induction Records Environmental Inspection Records SDS Register Site Diary Trade Waste Agreement and discharge records (where applicable)		
2.3	Environmental Emergency (Fire, Explosion, Chemical Spill)	Stormwater Pollution	Water Management Act, 2000 Div 7 (cl 34) Protection of the Environment Act 1997 (cl 120-123)	Provision of initial response fire fighting equipment and appropriate spill kits. Induction and training staff of staff/Subcontractors in Emergency Preparedness and Response. Manage construction work to minimise land disturbance, soil erosion and discharge of sediments and other pollutants to surface waters Do not pollute any waters so they become poisonous, harmful or potentially harmful to animals, vegetation or to the detriment of any beneficial use made of those waters. Do not place waste in a position where it might reasonably be expected to pollute surface water or groundwater, or where it does not comply with any prescribed standard. Take all practicable measures to prevent the pollution of groundwater. Do not cause or permit anything other than sewerage or trade waste discharged in accordance with a Trade Waste Agreement to be discharged into the sewerage system.	Induction of staff subcontractors in Emergency Preparedness and Response.	Induction Records Environmental Inspection Records SDS Register Site Diary Trade Waste Agreement and discharge records (where applicable)		

3 RELEASES TO LAND:				INHERENT RISK		RESIDUAL RISK		
				Likelihood	Consequence	Risk	Likelihood	Risk
				Possible	Minor	Medium	Unlikely	Low
Environmental ASPECT	Associated IMPACT	LEGAL & OTHER REQUIREMENT Relevant Document Title/Section/Clause	CONTROLS	COMPLIANCE	VERIFICATION/RECORD			
3.1	Construction activities	Significant impacts	Environment Protection and Biodiversity Conservation Act 1999 s26, 27, 29	Receive approval from the Environmental Minister before work commences	Do not take an action on Commonwealth land that could have a significant impact on the environment without approval from the Commonwealth Environment Minister.	Environmental Inspection Records Audit PEMP		
3.2	Site accommodation and setup	Significant impacts	Environment Protection and Biodiversity Conservation Act 1999 s26, 27, 29 Client Specifications	Contain works to approved Site Plan. Remediate the site on removal of the site sheds. If assessing site contamination, ensure samples are taken and analysed.	Any significant spill event is immediately reported, investigated and prevented from recurring.	Approved Site Plan Environmental Inspection Records		
3.3	Contamination on site through relocation or import of contaminated material	Significant impacts	Protection of the Environment Act 1997 Part 5.6 Divisions 1,2,3 - Part 5.7 and 5.7A	Engage Environment Specialist to assess, test and classify excavated material to be transported off-site. No contaminated material to be reused on site without the written approval of the Client. Do not transport prescribed industrial waste except to a licensed receiver without EPA approval.	Nil non conformances of fines by EPA	Environment Inspection records Environmental Audits		
3.4	Transport and disposal of contaminated material offsite	Significant impacts		All excavated materials transported off-site to be disposed of in compliance with EPA regulations. Do not transport prescribed industrial waste except to a licensed receiver without EPA approval. Do not transport prescribed industrial waste except to a licensed receiver without EPA approval. Take reasonable steps to ensure receiver of prescribed industrial waste is licenced.	Nil non conformances of fines by EPA	Environment Inspection records Environmental Audits		
3.5	Weed control	Significant impacts	Environment Protection and Biodiversity Conservation Act 1999 s26, 27, 29 Client Specifications	Strictly maintain vehicle hygiene to prevent weed transfer. Imported materials, particularly landscape supplies to be certified to be weed free, of local provenance and drawn from known sources. Do not remove machinery or other equipment from land onto a road without first taking reasonable precautions to ensure that the equipment is free from noxious weeds and the seeds of noxious weeds.	Nil non conformances of fines by EPA	Environment Inspection records Environmental Audits		
3.6	Spill of dangerous goods or hazardous substance	Significant impacts	Waste Avoidance and Resource Recovery Act, 2001	Do not dilute, mix or treat prescribed industrial waste without approval. Ensure that in each area where dangerous goods are stored or handled, provision is made for spill containment that will eliminate/reduce as far as is practicable, the risk of any spill.	Nil Incident	Environment Inspection records Environmental Audits		

4 USE OF RAW MATERIALS, NATURAL RESOURCES				INHERENT RISK		RESIDUAL RISK		
				Likelihood	Consequence	Risk	Likelihood	Risk
				Possible	Minor	Medium	Unlikely	Low
Environmental ASPECT	Associated IMPACT	LEGAL & OTHER REQUIREMENT Relevant Document Title/Section/Clause	CONTROLS	COMPLIANCE	VERIFICATION/RECORD			
4.1	Water	Unnecessary use and waste of natural resource	Protection of the Environment Operations (General) Regulation, 2009 Chapter 3 (cl 56-59)	<ul style="list-style-type: none"> Comply with any water restrictions and exemptions granted by the relevant water authority. Use water saving taps and devices during construction. Use captured water for irrigation, wash down and dust suppression. Ensure all hoses/pipework is watertight / leaks free. Reuse topsoil, excavated material and green waste 	complying with standards set by the relevant authorities and audits to PEMP	Induction Records Environmental Inspection Records MSDS Register Site Diary Plant Induction Records		
4.2	Fossil Fuels	Use of non-renewable resource	Project PEMP	Vehicles and plant & equipment to be regularly maintained. Engines to be switched off when not in use. As a land owner or occupier, take reasonable steps to: <ul style="list-style-type: none"> Avoid causing or contributing to land degradation which causes or may cause damage to the land of another land owner conserve soil protect water resources 	complying with standards set by the relevant authorities and audits to PEMP	Induction Records Environmental Inspection Records MSDS Register Site Diary Plant Induction Records		
4.3	Electricity	Non-Renewable Resource Greenhouse Gas Emission	Project PEMP	Promote water and energy savings. <ul style="list-style-type: none"> Use energy efficient electrical installations with sensor switching. Use timer switches for high voltage security lighting. Use natural lighting where practicable. Switch off all stand-by equipment and office lighting at the end of each day. 	Office monitoring	Office Inspections		
4.4	Material selection	Reduced use of natural resources	Protection of the Environment Operations (Waste) Regulation 2014Part 8	Use products made from recycled materials Recycle office, construction and demolition waste	Selection of materials	verification that a recycled product has been used		
4.5	Excavated Materials	Use of Landfill	Environment Protection & Biodiversity Conservation Regulation, 2000 Subdivision 12.2.2—General offences 12.11	All practicable measures taken to recycle/re-use excavated materials transported from site as clean fill Minimise amount of material being sent to landfill		Civil subcontractor to supply monthly recycling report for all spoil removed from site.		
4.6	Construction Waste	Use of Landfill	Environment Protection & Biodiversity Conservation Regulation, 2000 Subdivision 12.2.2—General offences 12.14	Waste contractor engaged to segregate materials offsite for recycling. Agreement with suppliers and subcontractors to where practicable minimise packaging or to return packaging to manufacturing plant/factory for re-use. Provision of and regular emptying of readily accessible waste containers.Minimise amount of material being sent to landfill	Waste contractor to provide monthly waste reports documenting waste and recycling volumes.	Waste recycling subcontractor to supply monthly recycling report for all construction waste removed from site.		

5 COMMUNITY & NEIGHBOURS:				INHERENT RISK		RESIDUAL RISK		
				Likelihood	Consequence	Risk	Likelihood	Risk
				Likely	Moderate	High	Unlikely	Moderate
Environmental ASPECT	Associated IMPACT	LEGAL & OTHER REQUIREMENT Relevant Document Title/Section/Clause	CONTROLS	COMPLIANCE	VERIFICATION/RECORD			
5.1	Noise	Disturbance to nearby residents	Protection of the Environment Act, 1997 - Part 55 (C136-141) Protection of the Environment Operations (Noise Control) Regulation, 2008 Part 4 - Subdivision 1 (c136&37), Subdivision 3 (c144,46&47) Part 5, Schedule 1 and 2 Contract Specifications	Comply with specified operating hours. Maintain noise suppression devices on all applicable plant and equipment. Advise neighbours of planned noisy activities and duration. Do not emit unreasonable noise (having regard to its volume, intensity, duration). Construction equipment cannot be operated outside of 7am - 10pm M-F and 9 to 10 weekends and public holidays (depending on project, location and contract specifications)	Monitor noise levels. Record and address all complaints.	Dilapidation survey.		
5.2	Dust	Disturbance to nearby residents	Protection of the Environment Act, 1997-part 5.4 Division 1 (c126) Protection of the Environment (clean air) Regulation 2010 Contract Specifications	Use dust suppression/control techniques by: - wetting down floors; - use wet cutting of stone & tiles; - use vacuum attachments to drilling/cutting tools; - isolate areas where possible; and - use barriers to prevent spread of dust. Do not allow dust, water, mud/silt, paint, oil or other chemicals to be blown, deposited or discharged into a public place.	Monitor activities and control all dust. Cease works if dust is not controlled.	Dilapidation survey.		
5.3	Vibration	Disturbance to nearby residents. Damage to physical assets	Contract Specifications	Minimise inconvenience to adjoining property owners. Conduct a dilapidation survey prior to commencing works. Monitor and control vibration levels. Avoid disturbance caused by vibration.	Carry out surveys and monitoring as required	Dilapidation survey.		
5.4	Traffic and pedestrian management	Disturbance to nearby residents, road users and pedestrians	ROADS ACT 1993 -PART 4 ROADS REGULATION 2008 - PART 2 - DIV 4 Contract Specifications	Comply with approved Traffic Management Plan • Vehicle wheels to be checked and cleaned before leaving site. • Use street sweeper if required • Do not overload vehicles. Cover applicable loads to and from site • Provide signage, traffic controllers in conformance with the TMP The wheels and undercarriage of vehicles driven onto public roads must be free of earth, clay and refuse. Do not allow dust, water, mud/silt, paint, oil or other chemicals to be blown, deposited or discharged into a public place.	Monitor compliance with approved Traffic Management Plan. Record and address all complaints.	Inspections to confirm compliance		
5.5	Protection of Existing Services	Interruption of services to other users	WHS Regulation 2011 - Part 3 .1 (c132-38) Part 6.2 Div 3 Div 7 (cl 166) CoP Excavation Work 2014 3.5 Contract Specifications	Identify and protect overhead and inground services. Contact Dial-before-you-dig and client records. Ensure service authority requirements are met. Notify Client prior to planned interruptions to services. Project Emergency Plan in place with correct emergency contact numbers on display. Excavation Permits approved before commencing excavations.	Monitor activities, implementation of site identification and protection, compliance with Excavation Permits.	Excavation Permits. Notifications to Client of planned interruptions Project Emergency Plan Dial-before-you-dig Records		

6 FLORA & FAUNA:				INHERENT RISK		RESIDUAL RISK			
				Likelihood	Consequence	Risk	Likelihood	Risk	
				Possible	Moderate	High	Unlikely	Low	
Environmental ASPECT	Associated IMPACT	LEGAL & OTHER REQUIREMENT Relevant Document Title/Section/Clause	CONTROLS	COMPLIANCE	VERIFICATION/RECORD				
6.1	Destruction/Removal of Habitat	Loss Of Habitat	Native Vegetation Act 2003 Part 3 Native Vegetation Regulation 2013 Part 2 National Parks and Wildlife Act, 1974 PART 7	Site clearance to comply with approved Site Plan. Trees to be removed to be marked. Site inspection to be conducted with Client prior to felling. Tree protection zones to be established as required at the drip line of trees to be retained. Where practicable, topsoil to be stripped and retained for reuse on site. Site induction to address awareness of Base Flora and Fauna Management Strategy If planning to do works or other activities which might kill, injure or disturb protected native plants, obtain a permit under the	Monitor damage to Flora and Fauna and contact WIRES or the EPA for any toher requirements.	Site Induction Environmental Inspections Environmental Audits			

7 HERITAGE & CULTURAL:				INHERENT RISK		RESIDUAL RISK			
				Likelihood	Consequence	Risk	Likelihood	Risk	
				Possible	Minor	Medium	Unlikely	Low	
Environmental ASPECT	Associated IMPACT	LEGAL & OTHER REQUIREMENT Relevant Document Title/Section/Clause	CONTROLS	COMPLIANCE	VERIFICATION/RECORD				
7.1	Discovery of Aboriginal and or Cultural Objects	Loss of cultural history	Aboriginal and Torres Strait Islander Heritage Protection Act, 1984 - National Parks and Wildlife Act, 1974 PART 6	Cease works in the event that artefacts believed to be of Aboriginal culture are discovered. Client to be immediately advised and instructions to be followed. Do not disturb or damage an Aboriginal place, object or relic without the consent or authorisation. Notify within reasonable time of becoming aware of the location or discovery of certain Aboriginal objects and relics Ensure that objects and areas with significance to Aboriginals are treated in accordance with Aboriginal tradition and are preserved and protected from injury and desecration. Do not fail to report to the Minister the discovery of remains which are believed to be Aboriginal remains. Report the discovery to the DVC as soon as practicable.	Generate procedures identifying action to be taken on discovery of artefacts/remains.	Environmental inspections			

8 HAZARDOUS SUBSTANCES INCLUDING ASBESTOS				INHERENT RISK		RESIDUAL RISK			
				Likelihood	Consequence	Risk	Likelihood	Risk	
				Possible	Catastrophic	Extreme	Unlikely	High	
Environmental ASPECT	Associated IMPACT	LEGAL & OTHER REQUIREMENT Relevant Document Title/Section/Clause	CONTROLS	COMPLIANCE	VERIFICATION/RECORD				
8.1	Asbestos		WHS Regulations 2011 Chapter 8 - Asbestos CoP how to manage and control asbestos in the workplace 2011 Protection of the Environment Operations (Waste) Regulation 2014 Part 7 Transportation and management of asbestos waste	Review the Asbestos Register. If asbestos is located on site, engage the project Hygienist and licensed asbestos contractor to conduct Risk Assessment, develop an Asbestos Management Plan and to remove and dispose of all asbestos. Site induction to make personnel aware of the potential presence of asbestos contaminated materials and the procedures of its identification and removal. Ensure that waste asbestos is only removed by a person holding an asbestos removal licence; contained to prevent the release of airborne asbestos fibres; transported in an EPA permitted vehicle; and disposed of as soon as practicable at a site licensed by the EPA		When applicable: • Asbestos Management Plan • Clearance Certificates			

6.3. Weekly Environmental Inspection Checklist

Project Name: Hornsby Ku-ring-gai Hospital Stage 2

Project No: N206

Reviewed By: _____

Date: _____

Additional Attendees: _____

Condition or Practice		Status ✓/*/NA	Comments
Site Accommodation			
1	Spill kit(s) accessible		
2	Hazardous substance storage areas defined, impervious, containment volume is 110% of total stored substances		
3	Lunch Room and amenities kept clean and tidy		
4	Skips protected from weather dispersal		
5	Site and surrounding area is clean, tidy		
6	Noise levels are acceptable		
Water Discharge			
7	Concrete washout lined, no leakage, not overfull		
8	Concrete/masonry cutting and grinding controlled; no slurry run-off escaping		
9	Paint and Plaster washout functional, not discharging unclean water		
10	No visible leakages on site		
Erosion and Sediment Control			
11	Sediment fences as per ESC plans, no breaks or failures		
12	No visible erosion caused by run-off		
13	Stormwater inlets protected with sediment traps and filter fabric, clean		
14	Stockpiles effectively protected from weather, banded with sediment fencing		
15	Sediment basin functional and unrefined run-off is not escaping site; not overfull		
16	Dewatering events monitored for acceptable discharge		
17	Site entry/exit functional; surrounding roads are clean		
18	Wash down bays isolated from stormwater and prevented from seepage and leakage		
19	No significant weed colonies detected (herbicide may be required)		
Air Quality Management			
20	Dust levels are acceptable		
21	Plant emissions are acceptable		
22	There are no noticeable odours		
Protection of Flora and Fauna			
23	Tree Protection Zones clearly established		
24	Stockpiling of materials are kept clear of trees		

Condition or Practice		Status ✓/✗/NA	Comments
25	No clearing taking place without arborist supervision, pre-inspection for wildlife		
Other			
26	Site compliant to section 5.0 of the PEMP		
27	Other monitoring continuing (water quality, dust, vibration etc)		
28	Fire Ant inspections maintained and recorded		
DISTRIBUTION: Project Records		SIGNATURE OF REVIEWER:	

Comments and Action Plan

6.4. Project Complaint and Incident Register



Project Complaint and Incident Register

C-FRM-061

Project: Hornsby Ku-ring-gai Hospital Stage 2 Redevelopment & Medical Imaging Building

PROJECT COMPLAINT AND INCIDENT REGISTER							
Date	Complaint/Incident Description	Source / Contact	Action / Rectification	Client Advised	CAR Req'd	CAR Closed	Recorded By

6.5. Complaint and Incident Report Form

Project Number: N206 Incident Report #: _____Project Name: Hornsby Ku-ring-gai Hospital Stage 2 Redevelopment & Medical Imaging Building **1 Brief description of incident or complaint****2 Time and date of incident****3 Details of incident****4 Location of incident****5 Did the incident cause evident harm to the receiving environment? If so, please describe:****6 Did any discharge escape from the site boundary in any way? If so, please describe:****7 Activity being performed at the time of incident****8 Organisations involved/responsible**

9 Root cause of incident**10 Immediate actions taken****11 Restorative actions taken, if any****12 Corrective actions taken to prevent future recurrence****13 Were emergency services required?**

Yes / No

14 Details of person submitting this form:

Name:

Position/Title:

Contact Telephone No:

Date:

15 Communication

Client Advised:

Yes / No

Project Manager Advised

Yes / No

Quality and Environment Manager Advised:

Yes / No

6.6. Environmental Legal and Statutory Requirements Register

Item	Description	Executor	Access	Last Updated	Extracted Legal Requirements
1 General Environmental Duties					
1.1	Protection of the Environment Operations Act 1997 (NSW)	State of NSW	Link	Mar-14	The Regulation contains provisions relating to: <ul style="list-style-type: none"> • environment protection licences, including the calculation of administrative and load-based licence fees, • the definition of water pollution and exemptions from the offence of polluting waters under the Act, • compliance with the National Environment Protection (National Pollutant Inventory) Measure made under the National Environment Protection Council Act 1994 (Cth), • vehicle testing and inspection requirements in accordance with a notice given under s207 of the Act, • the issuing of penalty notices under the Act and certain related environmental legislation, • the appropriate regulatory authority for certain type of activities, • exemptions from certain provisions of the Act, • the prohibition on the burning of native forest bio-material in electricity generating works, • fees for environmental protection notices, • notification of pollution incidents, • forms for police warrants of entry to premises concerning noise, • time for making an appeal against a control notice relating to the keeping of animals, • the evaluation of green offset schemes or green offset works, • restrictions on requirements for financial assurances, and • matters to be included in the public register kept under s308 of the Act.
1.2	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth)	Commonwealth	Link	Oct-13	Biodiversity Conservation: If undertaking development or other activities that may have a significant impact on matters of national environmental significance, comply with the Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth). Do not take an action on Commonwealth land that could have a significant impact on the environment (or on land outside Commonwealth areas where the significant impact would be on Commonwealth land), without approval from the Commonwealth Environment Minister (or State Government if a relevant bilateral agreement is in place). Note that further obligations apply to work in Commonwealth Reserves. Offences for breaching the EPBC Act: Action that is likely to have a significant impact on a matter of national significance, without first obtaining approval - Civil Penalty of up to \$550,000 to individual, Up to \$5.5m to body corporate; Criminal Penalty of Up to 7 years jail and/or \$46,200. Action that is likely to have a significant impact on Commonwealth land, without first obtaining approval - Civil Penalty of up to \$110,000 to individual, up to \$1.1m to body corporate; Criminal Penalty of up to 2 years jail and/or \$13,200. A person who takes, or fails to take, an action that results in contravening a condition of their approval - Civil Penalty of up to \$110,000 to individual, up to \$1m to body corporate; Criminal Penalty of up to 2 years jail and/or \$13,200. A person who provides false or misleading information to obtain approval or permit - Criminal Penalty of up to 2 years jail and/or \$13,200.
1.3	Native Vegetation Act 2003 (NSW)	State of NSW	Link	Mar-14	Do not take, use, keep or interfere with a cultural or natural resource of a protected area, unless under a management intent, a conservation agreement, or a lease, agreement, licence, permit or other authority under an Act; or a licence, permit or other authority issued under a regulation; or if the area is a conservation park, resources reserve, nature refuge, coordinated conservation area, wilderness area, World Heritage management area or international agreement area - an exemption under a regulation.
1.4	Environmental Planning and Assessment Act 1979	State of NSW	Link	Mar-14	Obtain a development permit before carrying out assessable development. When seeking approval, be aware of the requirements for code assessment that may apply to the application for a development permit. Be aware that prescribed matters may also be made by the Authority. For development requiring compliance assessment, obtain a compliance permit before carrying out the development. If the holder of a development permit, obtain a new development permit before making any alteration to plant, equipment or premises if the changes will result in a material increase in the intensity or scale of the activity. See material change of use.
2 Emissions to Air					
2.1	Protection of the Environment Operations (Clean Air) Regulation 2010	State of NSW	Link	Mar-14	The Regulation deals with the sale of domestic solid fuel heaters (generally wood heaters) and requires the heaters to be certified as complying with emission limits set out in the relevant Australian Standard. It also prohibits tampering with such heaters. In relation to motor vehicles and motor vehicle fuels, the Regulation deals with the following matters: <ul style="list-style-type: none"> • the emission of air impurities, including excessive smoke from motor vehicles; • the compulsory fitting and maintenance of anti-pollution devices, and exemptions from these requirements; and • the method of transfer of petrol into a vehicle's fuel tank; • the volatility of petrol; and • vapour recovery at petrol service stations. In relation to industry, the Regulation: <ul style="list-style-type: none"> • sets maximum limits on emissions from activities and plant for a number of substances, including chlorine, dioxins, furans, smoke, solid particles and sulphur; • deals with the transport and storage of volatile organic liquids; • restricts the use of high sulphur liquid fuel; • imposes operational requirements for certain afterburners, flares, vapour recovery units and other treatment plant. In relation to household burning, the Regulation: <ul style="list-style-type: none"> • controls burning in the open or in incinerators in local government areas; • allows the OEH or local councils to grant approvals for burning in the open or in an incinerator in certain circumstances; • prohibits the burning of certain articles (including tyres, paint and solvent containers, and certain treated timbers); • imposes a general duty on persons to prevent or minimise air pollution when burning in the open or in an incinerator; and • allows the OEH to grant a written exemption to a public authority in certain circumstances

Item	Description	Executor	Access	Last Updated	Extracted Legal Requirements
2.2	National Environment Protection (Diesel Vehicle Emissions) Measure 2001	Commonwealth	Link	Sep-13	Ensure emission from all internal combustion engines including diesel engines are not visible for a continuous period of 10 or more seconds. Otherwise the vehicle must not be used until serviced.
2.3	Ozone Protection and Synthetic Greenhouse Gas Management Act 1989 and Regulations 1995 (Commonwealth)	Commonwealth	Link	Sep-13	Do not allow an ODS or SGG to be discharged to the atmosphere. Ozone Depleting Substances include: - Chlorofluorocarbons (CFCs) - Halon - Carbon tetrachloride (CCl4) - Methyl chloroform (CH3CCl3) - Hydrobromofluorocarbons (HBFCs) - Hydrochlorofluorocarbons (HCFCs) - Methyl bromide (CH3Br) - Bromochloromethane (CH2BrCl) SGG or synthetic greenhouse gas means an HFC, a PFC, or sulfur hexafluoride (SF6).
2.4	Greenhouse and Energy Minimum Standards Act 2012 (Commonwealth)	Commonwealth	Link	Sep-13	Ensure all appliances, electronics, Refrigeration and Air Conditioning units (RAC), lighting, and power units are certified energy efficient.
3 Releases to Water					
3.1	Protection of the Environment Operations Act 1997 (NSW)	State of NSW	Link	Sep-13	Do not deposit prescribed water contaminants in a roadside gutter, stormwater drain or waterway. Do not store material where environmental harm could result from pollution of water. Water contaminants include: 1 a chemical, or chemical waste containing a chemical (e.g. biocide, including herbicide, fungicide and pesticide chemical that causes biochemical or chemical oxygen demand, chemical toxicant for which guidelines are prescribed in the document 'Australian and New Zealand guidelines for fresh and marine water quality', degreasing agent) 2 a gas other than oxygen 3 a liquid containing suspended or dissolved solids 4 a liquid that has a temperature different by more than 2°C from ambient water temperature 5 animal matter, including dead animals, animal remains and animal excreta, and water used to clean animals, animal enclosures or vehicles used for transporting animals 6 ashes, clay, gravel, sediment, stones and similar organic or inorganic matter 7 a substance that has a pH outside the range 6.5 to 8.5 8 building and construction materials, including bitumen, brick, cement, concrete and plaster 9 building, construction and demolition waste, including bitumen, brick, concrete cuttings, plaster and waste water generated by building, construction or demolition 10 clinical waste 11 glass, metal parts, paper, piping, plastic and scrap metal 12 industrial waste 13 oil, including, for example, petroleum or vegetable based oil 14 paint, paint scrapings or residues, paint sludge, water used for diluting paint or washing painting utensils, and waste from paint stripping 15 plant matter, including, for example, bark, lawn clippings, leaves, mulch, pruning waste, sawdust, shavings, woodchip and other waste from forest products 16 putrescible waste, including, for example, food scraps 17 sewage and sewage residues, whether treated or untreated, and any other matter containing faecal coliforms or faecal streptococci, including, for example, waste water pumped out from a septic tank 18 vehicles and components of vehicles, including, for example, batteries and tyres 19 waste and waste water, generated from indoor cleaning, including, for example, waste from carpet or upholstery cleaning and steam cleaning 20 waste and waste water, generated from outdoor cleaning, including, for example, waste generated from high pressure water blasting of commercial or industrial premises, fuel dispensing areas, plant or equipment, roofs, streets, vehicles and wharves 21 waste generated from repairing or servicing motor vehicles, including, for example, engine coolant, grease, lubricants and oil 22 waste water, including backwash from swimming pools, condensate from compressors, water from air-conditioning or cooling systems and waste water from grease traps
3.4	Water Efficiency Labelling and Standards (New South Wales) Act 2005	State of NSW	Link	Mar-14	Specify, procure and install WELS certified water efficient hydraulic fixtures where possible.
3.5	Water Management Act 2000	State of NSW	Link	Sep-14	To the extent it is reasonable to do so, release of waste water or contaminants to waters must be dealt with using the following hierarchy of preferred procedures— (a) step 1—evaluate water conservation measures to reduce the use of water and the production of waste water or contaminants; (b) step 2—evaluate waste prevention options and implement appropriate waste prevention measures; (c) step 3—if waste prevention does not, or is not likely to, eliminate the release of waste water or contaminants to waters, evaluate treatment and recycling options and implement appropriate treatment and recycling; (d) step 4—if treatment and recycling does not, or is not likely to, eliminate the release of waste water or contaminants to waters, evaluate the following options for waste water or contaminants, in the order in which they are listed— (i) appropriate treatment and release to a waste facility or sewer; (ii) appropriate treatment and release to land; (iii) appropriate treatment and release to surface waters or ground waters.
4 Releases to Land					
4.1	Protection of the Environment Operations Act 1997 (NSW)	State of NSW	Link	Mar-14	Do not release a contaminant where it could cause serious or material environmental harm or an environmental nuisance. Advise the Department of Environment and Heritage Protection (EHP) if an activity listed in Schedule 3 to the Act is carried out, or if the land has been or is being contaminated by a hazardous contaminant, within 22 business days Comply with a notice to prepare or commission a site management plan for a contaminated site unless a waiver is received from the Department of Environment and Heritage Protection (EHP).
4.2	Environmental Planning and Assessment Act 1979	State of NSW	Link	Dec-14	Obtain development approval before undertaking development on land wholly or partly in a coastal management control district, as defined under the Coastal Protection and Management Act, other than an area declared as a coastal district under section 54(2) of that Act. The objective of the amending Act (December 2014) is to substantially increase the maximum penalties for offences against the Environmental Planning and Assessment Act 1979 and the Environmental Planning and Assessment Regulation 2000, including to prescribe a maximum penalty of \$5 million in the case of a corporation or \$1 million in the case of an individual, and additional daily penalties, for an intentional offence that caused, or was likely to cause, significant harm to the environment, or the death of or serious injury or illness to a person.

Item	Description	Executor	Access	Last Updated	Extracted Legal Requirements
4.3	Native Vegetation Act 2003 (NSW)	State of NSW	Link	Oct-13	<p>Do not destroy vegetation within an area of declared high nature conservation value or declared vulnerability to land degradation.</p> <p>Do not clear vegetation in an area where an area management plan is in force for specified activities without giving notification of your intention, in the approved form, to the Department of Environment and Heritage Protection (EHP).</p> <p>Do not unlawfully destroy vegetation, excavate or place fill in a watercourse, lake or spring. A permit may be sought under section 269 of the Water Act 2000. Lawfully permitted exemptions are in the regulation.</p> <p>Do not destroy a forest product, construct a road or carry out excavation works on land within the Wet Tropics Area without a licence issued by the Authority or issued under other legislation. Comply with the list of prohibited activities in the Wet Tropics Area.</p>
4.5	National Parks and Wildlife Act 1974 (NSW)	State of NSW	Link	Oct-13	Identifies forest reserves.
5 Cultural and Heritage					
5.1	Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (Commonwealth)	Commonwealth	Link	Oct-13	<p>Do not fail to report (to the Minister) the discovery of remains which are believed to be Aboriginal remains. Details of the remains and their location must be given.</p> <p>Do not engage in conduct which contravenes the terms of a declaration relating to an Aboriginal place or object.</p> <p>Do not (without consent) do any act which is likely to endanger, cause damage to, deface or interfere with an Aboriginal object or place.</p> <p>Protection of Areas and Objects: Ensure that objects and areas with significance to Aboriginals are treated in accordance with Aboriginal tradition and are preserved and protected from injury and desecration.</p> <p>Comply with any declaration made by the Commonwealth Minister in relation to a particular area to protect or preserve Aboriginal heritage. Declarations are published in the Government Gazette and local newspapers, and a register of declarations is kept in the library of the Australian Institute of Aboriginal Studies.</p>
5.2	Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (Cth)	Commonwealth	Link	Mar-14	<p>Cultural Heritage Management Plan</p> <p>A cultural heritage management plan may be developed voluntarily, however it is mandatory if:</p> <ol style="list-style-type: none"> a lease, licence, permit, approval or other authority is required for the project, and an EIS or any other environmental assessment is required for the project; or a development application is made relating to the project, and the chief executive is a concurrence agency for the application; or Prescribed by any legislation. <p>Ensure that:</p> <ul style="list-style-type: none"> all reasonable and practicable measures are taken to ensure an activity does not harm Aboriginal cultural heritage; Aboriginal cultural heritage is not harmed; Aboriginal cultural heritage is not excavated, relocated or taken away; and an object that is Aboriginal cultural heritage is not in your possession. <p>It is a defence to prove that at the time of the alleged offence the defendant could not be reasonably expected to know that the thing to which the charge relates is Aboriginal cultural heritage.</p>
5.3	Australian Heritage Council Act 2003 (Cth)	Commonwealth	Link	Mar-14	<p>Report the discovery of any archaeological artefact that is an important source of information about an aspect of Queensland's history to the chief executive. Do not interfere with an artefact about which notice has been given for at least 20 business days</p> <p>Obtain a development permit before commencing work at a place listed in the heritage register, unless an exemption certificate has been obtained from the chief executive. An exemption certificate can be issued for development that:</p> <ul style="list-style-type: none"> is permitted under a heritage agreement for the place; or will not have a detrimental impact on the cultural heritage significance of the place.
5.4	Environmental Planning and Assessment Act 1979	State of NSW	Link	Mar-14	<p>Work at a Heritage Registered Place</p> <p>Obtain a development permit before commencing work at a place listed in the heritage register, unless an exemption certificate has been obtained from the chief executive. An exemption certificate can be issued for development that:</p> <ul style="list-style-type: none"> is permitted under a heritage agreement for the place; or will not have a detrimental impact on the cultural heritage significance of the place.
6 Flora and Fauna					
6.1	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth)	Commonwealth	Link	Oct-13	<p>Damage to Sensitive Environments: Do not take an action that may:</p> <ul style="list-style-type: none"> result in the death, injury, taking, trading, keeping or moving of a member of a listed threatened species or ecological community result in the death, injury, taking, trading, keeping or moving of a member of a listed migratory species knowingly cause significant damage to critical habitat of a listed threatened species or ecological community result in the death, injury, taking, trading, keeping, moving of, or interfering with, a cetacean (eg whales, dolphins, porpoises, narwhals) result in the death, injury, taking, trading, keeping or moving of a member of a listed marine species result in a significant ecological impact on a relevant wetland. <p>Ensure that the Department of Sustainability, Environment, Water, Population and Communities (SEWPaC) is notified within 7 days if an action results in the death, injury, taking, trading, keeping, moving of, or interfering with:</p> <ul style="list-style-type: none"> a listed threatened species or ecological community a member of a listed migratory species a cetacean a listed marine species.
6.3	Threatened Species Conservation Act 1995 (NSW)	State of NSW	Link	Oct-13	<p>Do not take a protected plant unless as specified in Section 89 of the Nature Conservation Act 1992. Do not take a protected animal unless the taking is authorised under the Nature Conservation Act 1992.</p> <p>Restriction on Taking Native Wildlife in Areas of Major Interest and Critical Habitats</p> <p>Do not take, use, keep or interfere with native wildlife in an area of major interest or critical habitat (as identified in a conservation plan), unless permitted under a conservation plan; or a licence, permit or other authority issued under a regulation</p>

Item	Description	Executor	Access	Last Updated	Extracted Legal Requirements
6.5	Soil Conservation Act 1938 (NSW)	State of NSW	Link	Mar-14	<p>Land Conservation Do not destroy vegetation within an area of declared high nature conservation value or declared vulnerability to land degradation.</p> <p>Do not clear vegetation in an area where an area management plan is in force for specified activities without giving notification of your intention, in the approved form, to the Department of Environment and Heritage Protection (EHP).</p> <p>Do not unlawfully destroy vegetation, excavate or place fill in a watercourse, lake or spring. A permit may be sought under section 269 of the Water Act 2000. Lawfully permitted exemptions are in the regulation.</p> <p>Do not destroy a forest product, construct a road or carry out excavation works on land within the Wet Tropics Area without a licence issued by the Authority or issued under other legislation. Comply with the list of prohibited activities in the Wet Tropics Area.</p>
7 Waste Management					
7.1	Protection of the Environment Operations (Waste) Regulation 2005	State of NSW	Link	Mar-14	<p>This Regulation:</p> <ul style="list-style-type: none"> • makes requirements relating to non-licensed landfill sites, non-licensed waste activities and non-licensed waste transporting, for e.g. the way in which waste must be stored or transported, reporting and record-keeping requirements; • provides for the contributions to be paid by the occupiers of scheduled waste facilities for each tonne of waste received at the facility or generated in a particular area; • exempts certain occupiers or types of waste from these contributions; • allows rebates to be claimed in relation to certain types of waste; • provides for certain reporting and record-keeping requirements in relation to scheduled waste facilities and scheduled landfill sites; <p>• exempts certain waste streams from the full waste tracking and recordkeeping requirements;</p> <ul style="list-style-type: none"> • makes requirements relating to the transport of controlled waste to interstate destinations; • allows the OEH to approve the immobilisation of contaminants in waste; • makes special requirements relating to asbestos and clinical waste; and • makes it an offence to apply, or to cause or permit the application of, residue waste to land that is used for the purpose of growing vegetation, subject to any exemptions <p>Do not deposit litter or conduct dangerous littering at a place. For places other than a road, exemptions apply for littering. Do not litter from a vehicle.</p> <p>Dumping of Waste Do not dump 200L or more of waste at a place or from a vehicle. Dumping of waste at a place other than a road is exempted if:</p> <ul style="list-style-type: none"> • done by the occupier of the place, or • with the consent of the occupier, or • to a litter bin or other container provided <p>Ensure waste is managed in accordance with the waste and resource management hierarchy and principles and any State waste management strategy.</p>
7.3	Waste Avoidance and Resource Recovery Act 2001 (NSW)	State of NSW	Link	Mar-14	<p>An Act which promotes waste avoidance and resource recovery and establishes a scheme to promote extended producer responsibility in place of industry waste reduction plans.</p>
8 Nuisance					
8.1	Protection of the Environment Operations (Noise Control) Regulation 2008	State of NSW	Link	Mar-14	<p>This Regulation repeals and remakes, with minor amendments, the provisions of the Protection of the Environment Operations (Noise Control) Regulation 2000. The Regulation makes provision with respect to the following:</p> <ul style="list-style-type: none"> • the selling or using of motor vehicles with a temporary noise reduction device or with temporary noise reduction packing and the modification or repair of a vehicle to include any such device or packing • the selling or using of certain classes of motor vehicles and motor vehicle accessories that are capable of emitting noise levels above a prescribed level, • the use of motor vehicle horns and motor vehicle intruder alarms, • the times during which it is not permissible to use certain motor vehicles if they emit noise that can be heard in other residential premises, <ul style="list-style-type: none"> • the sounding of sirens and similar devices and the use of sound systems on vessels, • the emission of noise from the engines or exhausts of motor vehicles and vessels, • the maintenance of noise control equipment on motor vehicles and vessels, • the issue of defective vehicle notices and defective vessel notices, • the prohibition on selling certain articles that are capable of emitting noise levels above a prescribed level, • the obligation to label certain articles, • the times during which it is not permissible to use certain articles (including musical instruments) if they emit noise that can be heard in any residential premises, • the inspection and testing procedures for the purpose of determining noise emission levels of certain motor vehicles, motor vehicle accessories, vessels, articles or equipment.

6.7. Disruptive Works Notices – Process and Templates

a) Disruptive Works Notices Process

For the construction of Hornsby Ku-ring-gai Stage 2 Redevelopment and Medical Imaging Building, Watpac proposes to implement a full and partial DWN system, whereby a full DWN would be submitted for works directly affecting the NSLHD interfaces and a partial DWN as a courtesy notice for works where a Contractor may be outside the site undertaking minor works or when works are undertaken within the site that may be perceived as out of the ordinary, such as additional hours on site (if approved by the relevant authority) or increased noise or vibration.

The procedures and process for both full and partial DWN's will be consistent with the following steps undertaken:

STEP 1: PRE-PLANNING OF WORKS

- Works will be assessed with the following items considered and documented within the DWN form
 - Durations of works
 - Sequencing of works
 - – Stakeholders affected
 - – Disruptions with services shutdowns and reconnections
 - – Impacts to access and egress
 - – Temporary signage
 - – Traffic Management
 - – Potential Industrial Relations issues and sensitive matters
 - – Environmental impact
- Drawings to be provided to articulate intent of works with sequencing where required.
- DWN form to be reviewed and approved internally prior to submission to Health Infrastructure and APP

STEP 2: DRAFT DWN SUBMITTED

- Watpac will submit the DWN form to APP for review, discussion and approval
- Should any amendments be required Watpac will update the form accordingly and re-submit

STEP 3: SUBMIT DWN FORM TO APP / STAKEHOLDER

- APP will submit the DWN to the relevant stakeholder.
- If required APP will arrange a meeting with the stakeholders to discuss the works in more detail. Watpac will facilitate the meeting and incorporate any amendment to the DWN before resubmitting for final approval

STEP 4: PRIOR TO WORKS COMMENCING

- Subcontractors and direct employees involved in the works will be required to participate in a Tool Box Talk to review the proposed risk control measures and to confirm the control measures are appropriate before works proceed. A copy of the Notice of Disruptive Works Form will be attached to the Tool Box Talk.
- 24 hours prior to the work commencing Watpac will send a notice to APP confirming works will proceed as scheduled.

STEP 5: WORKS UNDERTAKEN

- Works will be undertaken in line with DWN. If these works are scheduled over a long duration Watpac will provide APP with status updates to ensure works as progressing as scheduled.

STEP 6: COMPLETION OF WORKS

- Upon completion of the works subcontractors and direct employees involved will sign off the DWN form to confirm all works are complete.
- When works are completed Watpac will send APP a notification identifying all works have ceased and confirm the area of work has been re-instated to its original condition or to the agreed condition endorsed within the DWN.

Coordination of Services Shutdowns, Diversions and Reconnection

Watpac recognises the importance of full coordination and planning when undertaking services shutdown, diversions and reconnections in order to maintain stakeholders, LHD staff and public safety at all times and minimise disruption to surrounding operational buildings business continuity. For a successful outcome all activities must be appropriately managed through open communication and collaboration with the relevant stakeholders and staff during all stages of the process.

Watpac personnel have extensive experience with undertaking an array of different types of shutdowns, diversions and reconnection successfully on health and science projects and provide the following key principles and methodologies that apply to all situations.

Planning for the Works

When planning shutdowns, diversions and reconnections the involvement of all key stakeholders in the development of the plan facilitates a collaborative approach, avoids incorrect assumptions being made and promotes a streamlined process by reducing the production of unnecessarily documents.

Early Warning

When undertaking shutdowns, diversions and reconnections stakeholders and LHD staff will require sufficient time to coordinate and communicate the proposed activities to the relevant people affected by the works. Depending on the complexity of works several meetings may be required to confirm activities. Engineering may require a supplier / vendor / authority to undertake pre works, checks and balances prior to the commencement of the shutdown, diversion and reconnection, or supplier / vendor / authority may be required on site during the works.

Timing

Depending on the type of shutdown, diversion, and reconnection stakeholders and LHD staff may request the works are undertaken on certain days that are quieter, days when particular staff are rostered on or when case lists are not scheduled.

Open communication

Maintaining open communication channels throughout the entire process is paramount. Shutdowns, diversions, and reconnections often require real time communication on the day to coordinate the exact timing and ensure all parties aware of the situation.

Delaying or Postponing Works

If the shutdown, diversion, and reconnection affecting critical areas works may need to be delayed or postponed if for some reason there is an issue relating to safety. Typically these type of issues will normally not be known until a few minutes prior to the agreed time. Should this occur, all parties must be patient and understanding, as works must only be carried out if all parties agree it is safe to continue. While Watpac acknowledge most shutdowns, diversions and reconnection have specific methodologies and or processes to implement, the following steps outline the overarching principles for works to be implemented.

b) Disruptive Works Notice Template

DISRUPTIVE WORKS NOTICE (DWN)
 HORNSBY KU-RING-GAI HOSPITAL
 STAGE 2 & MEDICAL IMAGING BUILDING



A minimum 14 days' notice is to be given for any works that may interfere with hospital operation

TO	COMPANY	
Stuart Diver	APP	
Samuel Jeffrey	APP	

DWN (Number & Description)

DWN DESCRIPTION

Date of DWN Issue:	Start Date / Time:
Required date of approval:	Finish Date / Time:
Marked-up Plan attached: <i>(Yes/No)</i>	Duration in Days:
Reason for Works:	
Description of Activity to Occur:	
Anticipated Disruption:	
List any control measures, precautions, monitoring reporting, to be undertaken:	

AUTHORITIES

AUTHORITIES TO BE NOTIFIED	DATE ISSUED	DATE APPROVED

ENVIRONMENTAL

ENVIRONMENTAL EFFECT	YES	NO	IMPACT	MITIGATION
NOISE				
VIBRATION				
DUST				
FUMES				
TRAFFIC INTERRUPTION				
PEDESTRIAN ACCESS INTERRUPTION				
Other				

APP RECOMMENDED

SIGNED	DATE
Stuart Diver:	
Comments:	

HINSW APPROVAL

SIGNED	DATE
Name:	
Comments:	

c) Disruptive Works Notices Register Template

DISRUPTIVE WORKS NOTICES REGISTER

Project: Hornsby Ku-ring-gai Hospital - Stage 2 and Medical Imaging Building



#	TITLE	DESCRIPTION	ISSUED TO	SUBMISSION (ACONEX)	DATE ISSUED	APPROVAL (ACONEX)	DATE APPROVED	PROPOSED COMMENCEMENT DATE	ACTUAL COMMENCEMENT DATE	PROPOSED COMPLETION DATE	ACTUAL COMPLETION DATE	STATUS	COMMENTS
1												Complete	Conditional Approval - See Aconex correspondance for details
2													
3													
4													
5													
6													
7													
8													
9													
10													

FORECAST DWN WORKS

A													
B													
C													
D													
E													
F													
G													
H													
I													
J													

6.8. Unexpected Finds Checklist

Unexpected Finds Checklist

Business Unit Details

Business Unit Name: Watpac Construction **State :** 27T

Project No: _____ **Project Name:** _____

Location of Project: _____

Watpac Representative Name: _____ **Date:** _____

Subcontracting Business Name: _____ **Time:** _____

Subcontractor Representative Name: _____ **Mobile:** _____

UNEXPECTED FIND CHECKLIST

Location on Project: _____

Specific works being carried out: _____

Details of work crew and equipment being used: _____

Suspected Material identified: _____

Weather conditions at the time: _____

Was direct contact made with the material by the workers and equipment? Yes No Unknown

What actions were taken: _____

What actions were made to make area safe: _____

Name of OH/LAA*/ Environmental Consultant contacted: _____ **Date Contacted:** _____ / _____ / _____

Date OH/LAA*/ Environmental Consultant arrived on site: _____ / _____ / _____ **Time On-Site:** _____ : _____ AM PM

Samples taken? Yes No

Was any specialist advice provided? _____

Was any risk to worker health or environment identified? _____

Action to be taken _____

Actions taken to remediate contamination or mitigate risk during works _____

Work recommencement date: _____ / _____ / _____

Other Comments: _____

*OH/LAA (Occupational Hygienist / Licensed Asbestos Assessor)