

ENVIRONMENTAL IMPACT ASSESSMENT

WICKHAM TRANSPORT INTERCHANGE

APPROVAL

I, BEVAN BROWN, A/Deputy Director General of the Transport Projects Division of Transport for NSW, state as follows:

1. I have considered the Proposed Activity in the Wickham Transport Interchange Review of Environmental Factors and Determination Report in accordance with the provisions of section 111 of the *Environmental Planning and Assessment Act 1979*.
2. I determine on behalf of Transport for NSW (the Proponent) that the Proposed Activity may be carried out in accordance with the Conditions of Approval in this Determination Report, consistent with the proposal described in the Wickham Transport Interchange Review of Environmental Factors.



Bevan Brown
A/Deputy Director General
Transport Projects Division
Transport for New South Wales

CONDITIONS OF APPROVAL

WICKHAM TRANSPORT INTERCHANGE (WTI)

Note: These conditions of approval must be read in conjunction with the mitigation measures identified in the WTI REF and Submissions Report

Abbreviations

CECR	construction environmental compliance report
CEMP	construction environmental management plan
CIR	contamination investigation report
CLP	community liaison plan
ECM	environmental controls map
EPA	NSW Environment Protection Authority
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EPL	Environment Protection Licence issued by the EPA under the <i>Protection of the Environment Operations Act 1997</i>
EPM	Environment and Planning Manager (refer to definitions)
EMR	Environmental Management Representative
EMS	Environmental Management System
IGANRIP	Interim Guideline for Assessment of Noise from Rail Infrastructure Projects
ISO	International Standards Organisation
OEH	NSW Office of Environment and Heritage
ONVMP	operational noise and vibration management plan
OOHWP	out of hours work permit
PCSR	pre-construction sustainability report
PECM	pre-construction environmental compliance matrix
POCR	pre-operational compliance report
PMEM	TfNSW Principal Manager Environmental Management (or nominated delegate)
PMPD	TfNSW Principal Manager Planning & Development (or nominated delegate)
PMS	Principal Manager Sustainability, TfNSW (or nominated delegate)
RAP	remedial action plan
RBL	rating background level
REF	review of environmental factors
SFNMP	Stabling Facility Noise Management Plan
TfNSW	Transport for NSW
TMP	traffic management plan
UDLP	urban design and landscape plan

Definitions

construction	Includes all work in respect of the Project, other than survey, acquisitions, fencing, investigative drilling or excavation, building/road dilapidation surveys, or other activities determined by the EMR to have minimal environmental impact such as minor access roads, minor adjustments to services/utilities, establishing temporary construction sites (in accordance with this approval), or minor clearing (except where threatened species, populations or ecological communities would be affected).
contamination	The presence in, on or under land or any other aspect of the environment of a substance at a concentration above the concentration at which the substance is normally present in, on or under land or any other aspect of the environment in the same locality.
critical construction activity	Activities with the potential to have a significant adverse environmental impact including but not limited to, noise sensitive receivers, heritage (indigenous or non-indigenous) items, threatened or endangered species or communities, critical habitat and traffic, or with the potential to pollute waters, contaminate land or damage property.
designated works	Tunnelling, blasting, piling, excavation, bulk fill or any vibratory impact works (including jack hammering and compaction) for construction.
emergency work	Includes works to avoid loss of life, damage to external property, utilities and infrastructure, prevent immediate harm to the environment, contamination of land or damage to a heritage (indigenous or non-indigenous) item.
review of environmental factors	The documents listed in Condition 1 of this approval.
Environment and Planning Manager	The TfNSW Environment and Planning Manager appointed to the Project.
noise sensitive receiver	In addition to residential dwellings, noise sensitive receivers include, but are not limited to, hotels, entertainment venues, pre-schools and day care facilities, educational institutions (e.g. schools, TAFE colleges), health care facilities (e.g. nursing homes, hospitals), recording studios and places of worship/religious facilities (e.g. churches).
the Project	The Wickham Transport Interchange Project as described in the Wickham Transport Interchange Review of Environmental Factors – July 2014.
the Proponent	A person or body proposing to carry out an activity under Part 5 of the EP&A Act. In the case of the Project, TfNSW.
reasonable and feasible	Consideration of best practice taking into account the benefit of proposed measures and their technological and associated operational application in the NSW and Australian context. Feasible relates to engineering considerations and what is practical to build. Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and nature and extent of potential improvements.

CONDITIONS OF APPROVAL

No	Condition												
	General												
1.	<p>Terms of Approval</p> <p>The Project shall be carried out generally in accordance with the EIA for this Project, which comprises the following documents:</p> <table border="1"> <thead> <tr> <th>DOCUMENT</th> <th>AUTHOR</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>Wickham Transport Interchange Review of Environmental Factors</td> <td>GHD</td> <td>July 2014</td> </tr> <tr> <td>Wickham Transport Interchange Submissions Report</td> <td>GHD</td> <td>October 2014</td> </tr> <tr> <td>Wickham Transport Interchange Determination Report</td> <td>TfNSW</td> <td>November 2014</td> </tr> </tbody> </table> <p>In the event of an inconsistency between these conditions and the EIA, these conditions will prevail to the extent of the inconsistency.</p>	DOCUMENT	AUTHOR	DATE	Wickham Transport Interchange Review of Environmental Factors	GHD	July 2014	Wickham Transport Interchange Submissions Report	GHD	October 2014	Wickham Transport Interchange Determination Report	TfNSW	November 2014
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Wickham Transport Interchange Determination Report	TfNSW	November 2014											
2.	<p>Project modifications</p> <p>Any modification to the project as approved in the EIA would be subject to further assessment by TfNSW. This assessment would need to demonstrate that any environmental impacts resulting from the modifications have been minimised.</p>												
3.	<p>Statutory Requirements</p> <p>These conditions do not relieve the Proponent of the obligation to obtain all other licences, permits, approvals and land owner consents from all relevant authorities and land owners as required under any other legislation for the Project. The Proponent shall comply with the terms and conditions of such licences, permits, approvals and permissions.</p>												
4.	<p>Pre-Construction Environmental Compliance Matrix</p> <p>A pre-construction environmental compliance matrix (PECM) for the Project (or such stages of the Project as agreed to by the Environmental Management Representative (EMR)) shall be prepared detailing compliance with all relevant conditions prior to commencement of construction. The PECM shall also include details of approvals, licences and permits required to be obtained under any other legislation for the Project.</p> <p>The PECM shall include details demonstrating how the design and construction of the Project will be in compliance with the <i>Sustainable Design Guidelines Version 3.0</i>.</p> <p>The Proponent shall:</p> <ol style="list-style-type: none"> submit a copy of the PECM to the EMR and PMS for review. The EMR and PMS are to be given a minimum period of 7 days to review and provide any comments to the Proponent in relation to the PECM upon completion of the EMR and PMS review period, submit a copy of the PECM to the PMEM for approval, at least 14 days (or within such time as otherwise agreed to by the PMEM) prior to commencement of construction of the Project. 												

No	Condition
5.	<p>Construction Environmental Compliance Report</p> <p>The Proponent shall prepare a construction environmental compliance report (CECR) which addresses the following matters:</p> <ul style="list-style-type: none"> (a) compliance with the construction environmental management plan (CEMP) and these conditions (b) compliance with the <i>Sustainable Design Guidelines Version 3.0</i> compliance checklist (c) compliance with any approvals or licences issued by relevant authorities for construction of the Project (d) implementation and effectiveness of environmental controls (the assessment of effectiveness should be based on a comparison of actual impacts against performance criteria identified in the CEMP) (e) environmental monitoring results, presented as a results summary and analysis (f) details of the percentage of waste diverted from landfill and the percentage of spoil beneficially reused (g) number and details of any complaints, including summary of main areas of complaint, actions taken, responses given and intended strategies to reduce recurring complaints (subject to privacy protection) (h) details of any review and amendments to the CEMP resulting from construction during the reporting period (i) any other matter as requested by the PMPD and PMEM. <p>The Proponent shall:</p> <ul style="list-style-type: none"> (a) submit a copy of the CECR to the EMR for review. The EMR is to be given a minimum period of 7 days to review and provide any comments to the Proponent in relation to the CECR (b) submit a copy of the CECR to the PMEM (or nominated delegate) for approval upon completion of the EMR review period (c) make publicly available a copy of the CECR by posting the CECR on the TfNSW website within 7 days of approval of the CECR by the PMEM. <p>The first CECR shall report on the first six months of construction and be submitted within six weeks of expiry of that period (or at any other time interval agreed to by the PMEM). CECRs shall be submitted no later than six months after the date of submission of the preceding CECR (or at other such periods as requested by the PMEM) for the duration of construction.</p>
6.	<p>Pre-Operation Compliance Report</p> <p>A pre-operation compliance report (POCR) for the Project shall be prepared, prior to commencement of operation of the Project. The POCR shall detail compliance with all the conditions and the <i>Sustainable Design Guidelines Version 3.0</i> compliance checklist (refer to condition 40).</p> <p>The Proponent shall:</p> <ul style="list-style-type: none"> (a) submit a copy of the POCR to the EMR for review. The EMR is to be given a minimum period of 7 days to review and provide any comments to the Proponent in relation to the POCR. (b) upon completion of the EMR review period submit a copy of the POCR to the PMEM (or nominated delegate) and PMS for approval. The POCR is to be provided to the PMEM and PMS at least one month prior to the scheduled operation of the Project (or such time as otherwise agreed to by the PMEM).

No	Condition
	Communications
7.	<p>Community Liaison Plan</p> <p>The Proponent shall develop and implement a community liaison plan (CLP) to engage with government agencies, relevant councils, landowners, community members and other relevant stakeholders (such as utility and service providers, bus companies and businesses). The CLP shall comply with the obligations of these conditions and should include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (a) details of the protocols and procedures for disseminating information and liaising with the community and other key stakeholders about construction activities (including timing and staging) and any associated impacts during the construction period (b) details of the community liaison team appointed to manage and implement the plan (c) stakeholder and issues identification and analysis (d) identification of opportunities where community feedback will be sought throughout the project (including sustainability initiatives) (e) procedures for dealing with complaints or disputes and response requirements, including advertising the 24 hour construction response line number (f) details (including a program) of training for all employees, contractors and sub-contractors on the requirements of the CLP. <p>Sub-plans to the CLP will be developed as required. These sub-plans will detail site-specific consultation and communication requirements for construction works that impact residents, other stakeholders and businesses. They will also identify further mitigation measures and processes to reduce construction impacts.</p> <p>The CLP shall be prepared to the satisfaction of the Technical Director Project Communications at least 7 days prior to the commencement of construction and implemented, reviewed and revised as appropriate during construction of the Project.</p>
8.	<p>Community Notification and Liaison</p> <p>The local community shall be advised of any activities related to the Project with the potential to impact upon them.</p> <p>Prior to any site activities commencing and throughout the Project duration, the community is to be notified of works to be undertaken, the estimated hours of construction and details of how further information can be obtained (i.e. contact telephone number/email, website, newsletters etc) including the 24 hour construction response line number.</p> <p>Construction-specific impacts including information on traffic changes, access changes, detours, services disruptions, public transport changes, high noise generating work activities and work required outside the nominated working hours shall be advised to the local community at least seven (7) days prior to such works being undertaken or other period as agreed to by the Technical Director Project Communications or as required by Environment Protection Authority (EPA) (where an Environment Protection Licence (EPL) is in effect).</p>
9.	<p>Website</p> <p>The Proponent shall provide electronic information (or details of where hard copies of this information may be accessed by members of the public) related to the Project, on dedicated pages within its existing website, including:</p> <ul style="list-style-type: none"> (a) a copy of the documents referred to under condition 1 of this approval and any documentation supporting modifications to the approval or related approvals that may be

No	Condition
	<p>granted in the future</p> <p>(b) a copy of each relevant licence approval or permit required and obtained in relation to the Project</p> <p>(c) a list of environmental management reports that are publicly available</p> <p>(d) details of construction information</p> <p>(e) 24 hour contact telephone number for information and complaints.</p> <p>Detailed updates of work progress and construction activities shall be regularly provided on the website.</p>
<p>10.</p>	<p>Complaints Management</p> <p>The Proponent shall set up a 24 hour construction response line number.</p> <p>Details of all complaints received during construction are to be recorded on a complaints register. A verbal response to phone enquiries on what action is proposed to be undertaken is to be provided to the complainant within two (2) hours during all times construction is being undertaken and within 24 hours during non-construction times (unless the complainant agrees otherwise). A detailed written response is to be provided to the complainant within seven (7) calendar days. Responses to written complaints (email/letter) should be provided within 48 hours of receipt of the communication.</p> <p>Information on all complaints received during the previous 24 hours and response times shall be forwarded to the EMR each working day.</p>
	<p>Property</p>
<p>11.</p>	<p>Property Condition Surveys</p> <p>Subject to landowner agreement, property condition surveys shall be completed prior to piling, excavation or bulk fill or any vibratory impact works including jack hammering and compaction (Designated Works) in the vicinity of all heritage listed buildings and other sensitive structures within 25 metres from the edge of the Designated Works unless otherwise determined following geotechnical and vibration assessment as endorsed by a qualified geotechnical engineer and as approved by the PMEM as not likely to be adversely affected.</p> <p>Property condition surveys need not be undertaken if a risk assessment indicates buildings/structures/roads will not be affected as determined by a qualified geotechnical and construction engineering expert with appropriate registration on the National Professional Engineers Register prior to commencement of Designated Works.</p> <p>Selected potentially sensitive buildings and/or structures shall first be surveyed prior to the commencement of the Designated Works and again immediately upon completion of the Designated Works.</p> <p>All owners of assets to be surveyed, as defined above, are to be advised of the scope and methodology of the survey and the process for making a claim regarding property damage within a reasonable time (not less than 14 days) prior to commencement of the surveys.</p> <p>A copy of the survey(s) shall be given to each affected owner. A register of all properties surveyed shall be maintained.</p> <p>Any damage to buildings, structures, lawns, trees, sheds, gardens etc as a result of construction activity direct and indirect (i.e. including vibration and groundwater changes) shall be rectified at no cost to the owner(s).</p>

No	Condition
	Environmental Management
12.	<p>Environmental Induction</p> <p>Prior to the commencement of construction, all contractors shall be inducted by the Proponent on the key Project interfaces and associated environmental risks and procedures.</p>
13.	<p>Environmental Management System</p> <p>Construction works shall be undertaken in accordance with the Proponent's Environmental Management System(s) (EMS) which has been accredited as ISO14001 compliant.</p>
14.	<p>Environmental Management Representative</p> <p>Prior to the commencement of construction, the PMEM shall appoint an EMR who is independent of the design and construction personnel of the Project, for the duration of the construction period for the Project.</p> <p>The EMR shall provide advice to the PMEM in relation to the environmental compliance and performance of the Project. The EMR shall have responsibility for:</p> <ul style="list-style-type: none"> (a) considering and advising the Proponent on matters specified in these conditions and compliance with such (b) reviewing and where required by the PMEM, providing advice on the Project's induction and training program for all persons involved in the construction activities and monitoring implementation (c) periodically auditing the Project's environmental activities to evaluate the implementation, effectiveness and level of compliance of on-site construction activities with authority approvals and licences, the CEMP and associated plans and procedures, including carrying out site inspections weekly, or as required by the PMEM; (d) reporting weekly to the Proponent (e) issuing a recommendation to the Proponent for work to stop immediately, if in the view of the EMR circumstances so require. The stop work recommendation may be limited to specific activities if the EMR can easily identify those activities (f) requiring reasonable steps to be taken to avoid or minimise unintended or adverse environmental impacts (g) reviewing corrective and preventative actions to ensure the implementation of recommendations made from the audits and site inspections (h) providing reports to the Proponent on matters relevant to the carrying out of the EMR role as necessary (i) where required by the PMEM, providing advice on the content and implementation of the CEMP and Environmental Controls Map (ECM) in accordance with the conditions. <p>The EMR shall be available during construction activities to inspect the site(s) and be present on-site as required during any critical construction Activities as defined in the CEMP and ECM.</p>
15.	<p>Construction Environmental Management Plan</p> <p>The Proponent shall prepare a CEMP prior to commencement of construction which addresses the following matters:</p> <ul style="list-style-type: none"> (a) traffic and pedestrian management (in consultation with the relevant roads authority) (b) noise and vibration management, including TfNSW's <i>Construction Noise Strategy and EPA's Interim Construction Noise Guideline</i> (July 2009) (c) water and soil management including TfNSW's <i>Water Discharge and Reuse Guidelines</i> (7TP-ST-146)

No	Condition
	<p>(d) air quality management (including dust suppression)</p> <p>(e) indigenous and non-indigenous heritage management</p> <p>(f) flora and fauna management</p> <p>(g) storage and use of hazardous materials</p> <p>(h) contaminated land (including acid sulphate soils)</p> <p>(i) weed management</p> <p>(j) waste management</p> <p>(k) light spill</p> <p>(l) sustainability initiatives</p> <p>(m) environmental incident reporting and management procedures including TfNSW's <i>Environmental Incident Classification and Reporting Procedure</i> (9TP-PR-105)</p> <p>(n) non-compliance and corrective/preventative action procedures</p> <p>The CEMP shall:</p> <p>(o) comply with the conditions of approval, conditions of any licences, permits or other approvals issued by government authorities for the Project, all relevant legislation and regulations, and accepted best practice management</p> <p>(p) be prepared in accordance with the <i>Guideline for Preparation of Environmental Management Plans</i> (Department of Infrastructure, Planning and Natural Resources, 2004)</p> <p>The Proponent shall:</p> <p>(q) consult with government agencies and relevant service/utility providers as part of the preparation of the CEMP</p> <p>(r) submit a copy of the CEMP to the EMR for review. The EMR is to be given a minimum period of 7 days to review and provide any comments to the Proponent in relation to the CEMP</p> <p>(s) submit a copy of the CEMP to the PMEM (or nominated delegate) for approval upon completion of the EMR review period, at least 14 days prior to commencement of construction (or such time as is otherwise agreed to by the PMEM)</p> <p>(t) make publicly available a copy of the CEMP by posting the CEMP on the Proponent's website within 7 days of approval of the CEMP by the PMEM (or nominated delegate where relevant)</p> <p>(u) review and update the CEMP at minimum 6-monthly intervals, and in response to any actions identified as part of the EMR's audit of the document</p> <p>(v) ensure updates to the CEMP are made within 7 days of the completion of the review or receipt of actions identified by any EMR audit of the document, and be submitted to the EMR for approval.</p> <p>The CEMP must be approved by the PMEM prior to the commencement of construction work associated with the Project.</p>
16.	<p>Environmental Controls Map</p> <p>The Proponent shall prepare an ECM in accordance with TfNSW's <i>Guide to Preparing ECMs</i> prior to the commencement of construction for implementation for the duration of construction. The ECM is to be endorsed by the EMR and may be prepared in stages as set out in the CEMP.</p> <p>The Proponent shall submit a copy of the ECM to the EMR for review and endorsement. The EMR is to be given a minimum period of 7 days to review and endorse the ECM. Following receipt of the EMR's endorsement, the ECM shall be submitted to the PMEM (or nominated delegate) for approval, at least 14 days prior to commencement of construction (or such time as is otherwise agreed to by the PMEM).</p> <p>The ECM shall be prepared as a map – suitably enlarged (e.g. A3 size or larger) for mounting on</p>

No	Condition
	<p>the wall of a site office and included in site inductions, supported by relevant written information.</p> <p>Updates to the ECM shall be made within 7 days of the completion of the review or receipt of actions identified by any EMR audit of the document, and be submitted to the EMR for approval.</p>
	<p>Hours of Work</p>
<p>17.</p>	<p>Construction Hours</p> <p>Construction activities shall be restricted to the hours of 7:00 am to 6:00 pm (Monday to Friday); 8:00 am to 1:00 pm (Saturday) and at no time on Sundays and public holidays except for the following works which are permitted outside these standard hours:</p> <ul style="list-style-type: none"> (a) any works which do not cause noise emissions to be more than 5dBA higher than rating background level (RBL) at any nearby residential property and/or other noise sensitive receivers (b) the delivery of plant, equipment and materials which is required outside these hours as requested by police or other authorities for safety reasons and with suitable notification to the community as agreed by the PMEM (c) Emergency Work to avoid the loss of lives, property and/or to prevent environmental harm (d) any other work as agreed by the PMEM (or nominated delegate), and considered essential to the Project, or as approved by EPA (where an EPL is in effect). <p>Any work undertaken outside of the standard construction hours shall be subject to approval in accordance with TfNSW's <i>Construction Noise Strategy (CNS) (7TP-ST-157)</i>.</p>
<p>18.</p>	<p>High Noise Generating Activities</p> <p>Rock breaking or hammering, jack hammering, pile driving, vibratory rolling, cutting of pavement, concrete or steel and any other activities which result in impulsive or tonal noise generation shall only be scheduled between the following hours unless otherwise agreed to by the PMEM (or nominated delegate), or as approved by EPA (where relevant to the issuing of an EPL), unless inaudible at nearby residential properties and/or other noise sensitive receivers:</p> <ul style="list-style-type: none"> (a) 8:00am to 12:00pm, Monday to Saturday (b) 2:00pm to 5:00pm Monday to Friday.
	<p>Noise and Vibration</p>
<p>19.</p>	<p>Construction Noise and Vibration</p> <p>Construction noise and vibration mitigation measures shall be implemented through the CEMP, in accordance with TfNSW's <i>Construction Noise Strategy</i> and the EPA <i>Interim Construction Noise Guideline</i> (July 2009). The mitigation measures shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (a) details of construction activities and an indicative schedule for construction works (b) identification of construction activities that have the potential to generate noise and/or vibration impacts on surrounding land uses, particularly sensitive noise receivers. (c) detail what reasonable and feasible actions and measures shall be implemented to minimise noise impacts (including those identified in the REF) (d) procedures for notifying sensitive receivers of construction activities that are likely to affect their noise and vibration amenity, as well as procedures for dealing with and responding to noise complaints (e) an out of hours work protocol (OOHWP) for the assessment, management and approval of works outside the standard construction hours identified in condition 17 of this approval, including a risk assessment process which deems the out of hours activities to be of low, medium or high environmental risk, is to be developed. All out of hours works are subject to

No	Condition
	<p>approval by the EMR and/or PMEM or nominated delegate) or as approved by EPA (where relevant to the issuing of an EPL). The OOHWP should be consistent with the TfNSW <i>Construction Noise Strategy</i>.</p> <p>(f) a description of how the effectiveness of actions and measures shall be monitored during the proposed works, clearly indicating the frequency of monitoring, the locations at which monitoring shall take place, recording and reporting of monitoring results and if any exceedance is detected, the manner in which any non-compliance shall be rectified.</p>
20.	<p>Vibration Criteria</p> <p>Vibration (other than from blasting) resulting from construction and received at any structure outside of the Project shall be limited to:</p> <p>(a) for structural damage vibration - German Standard DIN 4150:Part 3 – 1999: <i>Structural Vibration in Buildings: Effects on Structures</i></p> <p>(b) for human exposure to vibration – the acceptable vibration values set out in the <i>Environmental Noise Management Assessing Vibration: A Technical Guideline</i> (DEC 2006).</p> <p>These limits apply unless otherwise approved by the PMEM through the CEMP.</p>
21.	<p>Non-Tonal Reversing Beepers</p> <p>Non-tonal reversing beepers (or an equivalent mechanism) shall be fitted and used on all construction vehicles and mobile plant regularly used on site (i.e. greater than one day) and for any out of hours work.</p>
22.	<p>Noise Impact on Educational Facilities</p> <p>Potentially affected pre-schools, schools, universities and any other affected permanent educational institutions shall be consulted in relation to noise mitigation measures to identify any noise sensitive periods (e.g. exam periods). As much as reasonably possible noise intensive construction works in the vicinity of affected educational buildings are to be minimised.</p>
23.	<p>Operational Noise and Vibration</p> <p>During detailed design an operational noise and vibration management plan (ONVMP) shall be prepared to confirm the final mitigation measures for operational noise and vibration that would be implemented.</p> <p>The ONVMP shall be prepared in consultation with NSW Trains (where relevant) and other relevant stakeholders. The ONVMP shall:</p> <p>(a) consider any changes to the predicted noise and vibration levels resulting from design refinements and any changes to the proposed operational plan for trains</p> <p>(b) examine all reasonable and feasible noise and vibration mitigation measures consistent with the Rail Infrastructure Noise Guidelines and Industrial Noise Policy</p> <p>(c) identify specific physical and other mitigation measures for controlling noise and vibration at the source and at the receiver (if relevant) including location, type and timing of implementation of the proposed operational noise and vibration mitigation measures</p> <p>(d) seek feedback from directly affected receivers on the final mitigation measures proposed in the review</p> <p>(e) consider measures identified in the NSW Government's broader noise mitigation program and the role this would play in mitigation at the project level.</p> <p>The ONVMP is to be prepared for the approval of PMEM prior to the commencement of operation.</p>

No	Condition
24.	<p>Operational Noise Compliance Monitoring</p> <p>In order to validate the predicted noise levels identified in the noise and vibration assessment, monitoring shall be undertaken within three months of commencement of operation. This noise and vibration monitoring shall be undertaken to confirm compliance with the predicted noise and vibration levels, or as modified by the reasonable and feasible review.</p> <p>Should the results of monitoring indicate that the predicted noise and vibration levels are exceeded, additional reasonable and feasible mitigation measures would be implemented in consultation with the affected property owners.</p>
25.	<p>Piling</p> <p>Wherever practical, piling activities shall be completed using non-percussive piles. If percussive piles are proposed to be used, approval of the EMR or PMEM shall be obtained prior to commencement of piling activities.</p>
Contamination and Hazardous Materials	
26.	<p>Duty to Notify</p> <p>If previously unidentified contamination is identified within the site, the Proponent is to determine whether there is a Duty to Report under section 60 of the <i>Contaminated Land Management Act 1997</i>, and notify the EPA in accordance with the EPA's <i>Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997</i> (2009).</p>
27.	<p>Unidentified Contamination (other than Asbestos)</p> <p>If previously unidentified contamination (excluding asbestos) is discovered during construction, work in the affected area must cease immediately, and an investigation must be undertaken and report prepared to determine the nature, extent and degree of any contamination. The level of reporting must be appropriate for the identified contamination in accordance with EPA <i>Guidelines for Consultants Reporting on Contaminated Sites</i>.</p> <p>The Proponent shall submit a copy of the report to the PMEM for consideration. The PMEM shall determine whether consultation with the relevant council and/or EPA is required prior to continuation of Construction works within the affected area.</p> <p><i>Note: In circumstances where both previously unidentified asbestos contamination and other contamination are discovered within a common area, nothing in these conditions shall prevent the preparation of a single investigation report to satisfy the requirements of both condition 27 and condition 28.</i></p>
28.	<p>Asbestos Management</p> <p>If previously unidentified asbestos contamination is discovered during construction, work in the affected area must cease immediately, and an investigation must be undertaken and report prepared to determine the nature, extent and degree of the asbestos contamination. The level of reporting must be appropriate for the identified contamination in accordance with relevant EPA and WorkCover Guidelines and include the proposed methodology for the remediation of the asbestos contamination. Remediation activities must not take place until receipt of the investigation report.</p> <p>Works may only recommence upon receipt of a validation report from a suitably qualified contamination specialist that the remediation activities have been undertaken in accordance with the investigation report and remediation methodology.</p>

No	Condition
	<p>Note: In circumstances where both previously unidentified asbestos contamination and other contamination are discovered within a common area, nothing in these conditions shall prevent the preparation of a single investigation report to satisfy the requirements of both condition 27 and condition 28.</p>
<p>29.</p>	<p>Storage and Use of Hazardous Materials</p> <p>Construction hazard and risk issues associated with the use and storage of hazardous materials shall be addressed through risk management measures, which shall be developed by the construction contractor prior to construction as part of the overall CEMP, in accordance with relevant EPA guidelines, TfNSW <i>Chemical Storage and Spill Response Guideline</i> and Australian and ISO standards. These measures shall include:</p> <ul style="list-style-type: none"> (a) the storage of hazardous materials, and refuelling/maintenance of construction plant and equipment to be undertaken in clearly marked designated areas that are designed to contain spills and leaks (b) spill kits, appropriate for the type and volume of hazardous materials stored or in use, to be readily available and accessible to construction workers. Kits to be kept at hazardous materials storage locations, in site compounds and on specific construction vehicles. Where a spill to a watercourse is identified as a risk, spill kits to be kept in close proximity to potential discharge points in support of preventative controls (c) all hazardous materials spills and leaks to be reported to site managers and actions to be immediately taken to remedy spills and leaks (d) training in the use of spill kits to be given to all personnel involved in the storage, distribution or use of hazardous materials.
	<p>Traffic and Access</p>
<p>30.</p>	<p>Traffic Management Plan</p> <p>The Proponent shall prepare a construction traffic management plan (TMP) as part of the CEMP which addresses, as a minimum, the following:</p> <ul style="list-style-type: none"> (a) ensuring adequate road signage at construction work sites to inform motorists and pedestrians of the work site ahead to ensure that the risk of road accidents and disruption to surrounding land uses is minimised (b) maximising safety and accessibility for pedestrians and cyclists (c) ensuring adequate sight lines to allow for safe entry and exit from the site (d) ensuring access to railway stations, businesses, entertainment premises and residential properties (unless affected property owners have been consulted and appropriate alternative arrangements made) (e) managing impacts and changes to on and off street parking and requirements for any temporary replacement provision (f) parking locations for construction workers away from stations and busy residential areas and details of how this will be monitored for compliance (g) routes to be used by heavy construction-related vehicles to minimise impacts on sensitive land uses and businesses (h) details for relocating kiss-and-ride, taxi ranks and rail replacement bus stops if required, including appropriate signage to direct patrons, in consultation with the relevant bus operator. Particular provisions should also be considered for the accessibility impaired. (i) measures to manage traffic flows around the area affected by the Project, including as required regulatory and direction signposting, line marking and variable message signs and all other traffic control devices necessary for the implementation of the TMP. (j) identify crane locations and swing paths <p>The Proponent shall consult with the relevant roads authority during preparation of the TMP, as</p>

No	Condition
	required. The performance of all Project traffic arrangements must be monitored during construction.
31.	Road Condition Reports Prior to construction commencement, the Proponent shall prepare road condition surveys and reports on the condition of roads and footpaths affected by construction, to the satisfaction of the infrastructure owner(s). The Proponent shall carry out rectification work at the Proponent's expense to repair infrastructure to the asset condition prior to commencement of construction.
	Lighting
32.	Lighting Control All permanent lighting for the Project must be designed, installed and operated in accordance with the requirements of <i>AS 1158 Road Lighting</i> and <i>AS 4282 Control of the Obtrusive Effects of Outdoor Lighting</i> and other relevant standards.
	Flora and Fauna
33.	Replanting Program All cleared vegetation shall be replaced and/or offset in accordance with the following, unless otherwise agreed or directed by the PMEM: a) Sydney Train's <i>Biodiversity Offset Calculator</i> for vegetation within the rail corridor b) TfNSW's <i>Vegetation Offset Guide</i> for vegetation outside of the rail corridor All vegetation planted on-site is to consist of locally endemic native species, unless otherwise agreed by the PMEM, following consultation with the relevant Local Authority, where relevant, and/or the owner of the land upon which the vegetation is to be planted.
34.	Removal of Trees or Vegetation Separate approval is required in accordance with TfNSW's <i>Application for Removal or Trimming of Vegetation</i> for the trimming, cutting, pruning or removal of trees or vegetation where the impact has not already been identified in the EIA for the Project.
	Erosion and Sediment Control
35.	Erosion and Sediment Control Soil and water management measures shall be prepared as part of the CEMP for the mitigation of water quality and hydrology impacts during construction of the Project. The management measures shall be prepared in accordance with <i>Managing Urban Stormwater; Soils and Construction 4th Edition (Landcom, 2004)</i> .
	Heritage
36.	Indigenous and Non-Indigenous Heritage If previously unidentified indigenous or non-indigenous heritage/archaeological items are uncovered during construction works, all works in the vicinity of the find shall cease and appropriate advice shall be sought from a suitably qualified heritage consultant (and in consultation with the Heritage Division where appropriate). Works in the vicinity of the find shall not re-commence until clearance has been received from the heritage consultant and/or Heritage

No	Condition
	<p>Division.</p> <p>Refer to Conditions 43 and 44 for additional heritage requirements.</p>
	<p>Urban Design and Landscaping</p>
<p>37.</p>	<p>Urban Design and Landscaping Plan</p> <p>Prior to the finalisation of the Project's detailed design, the Proponent shall prepare an urban design and landscaping plan (UDLP) which addresses the following matters:</p> <ul style="list-style-type: none"> (a) materials, finishes, colour schemes and maintenance procedures including graffiti control for new walls, barriers and fences (b) location and design of pedestrian pathways, street furniture including relocated bus and taxi facilities, bicycle storage (where relevant), telephones and lighting equipment (c) landscape treatments and street tree planting to integrate with surrounding streetscape (d) design detail that is sympathetic to the amenity and character of the local heritage items (e) opportunities for public art created by local artists to be incorporated, where considered appropriate, into the Project (f) total water management principles to be integrated into the design where considered appropriate (g) design measures included to meet the <i>Sustainable Design Guidelines Version 3.0</i> (h) identification of design and landscaping aspects that will be open for community input (i) any other matters which the conditions require the UDLP to address. <p>The UDLP shall be prepared in consultation with Council, relevant stakeholders and accepted by the Director Technical Services, Transport Projects Division, TfNSW.</p> <p>Refer to condition 43 for consideration of non-Aboriginal heritage in detailed design.</p>
	<p>Sustainability</p>
<p>38.</p>	<p>Sustainability Officer</p> <p>The Proponent shall appoint a Sustainability Officer who is responsible for implementing sustainability objectives for the Project.</p> <p>Details of the Sustainability Officer, including defined responsibilities consistent with the Proponent's sustainability objectives, included in the REF, are to be submitted to the satisfaction of the PMS prior to preparation of the PCSR.</p>
<p>39.</p>	<p>Pre-Construction Sustainability Report</p> <p>Prior to commencement of construction, a pre-construction sustainability report (PCSR) shall be prepared to the satisfaction of the PMS. The Report shall include the following minimum components:</p> <ul style="list-style-type: none"> (a) a completed electronic checklist demonstrating compliance with the <i>Sustainable Design Guidelines Version 3.0</i> to a Silver level standard (b) a statement outlining the Proponent's own corporate sustainability obligations, goals, targets, in house tools, etc (c) a section specifying any areas of innovation that will be explored and/or implemented on the Project during the course of the construction period. <p>The Proponent shall submit a copy of the PCSR to the PMS for approval, at least 14 days prior to the commencement of construction (or within such time as otherwise agreed to by the PMS).</p>

No	Condition
	Miscellaneous
40.	<p>Graffiti and Advertising</p> <p>Hoardings, site sheds, fencing, acoustic walls around the perimeter of the site, and any structures built as part of the Project are to be maintained free of graffiti and advertising not authorised by the Proponent during the construction period. Graffiti and unauthorised advertising will be removed or covered within the following timeframes:</p> <ul style="list-style-type: none"> (a) offensive graffiti will be removed or concealed within 24 hours (b) highly visible (yet inoffensive) graffiti will be removed or concealed within a week (c) graffiti that is neither offensive or highly visible will be removed or concealed within a month (d) any unauthorised advertising material will be removed or concealed within 24 hours
41.	<p>Authorised Water Servicing Coordinator</p> <p>The Proponent shall engage a Hunter Water authorised water servicing coordinator to manage the design and construction of any works to the existing potable water or sewer reticulation.</p>
	Project Specific
42.	<p>Bat Management Plan</p> <p>A Bat Management Plan shall be prepared, as part of the CEMP for the proposal, to minimise the potential for any impacts on bats particularly those that roost under the Maitland Road overpass.</p>
43.	<p>Non Aboriginal Heritage</p> <p>An approval under section 60 of the <i>Heritage Act 1977</i> has been obtained from the NSW Heritage Division for works at Hamilton Station. All NSW Heritage Division approval conditions are to be implemented.</p> <p>Detailed design of the new station at Wickham, including materials selection would be sympathetic to the surrounding heritage items/elements and the significance of the Newcastle City Centre Heritage Conservation Area, while clearly marking the building as contemporary. These measures are to be detailed in the UDLP prepared under condition 37.</p> <p>Potential impacts on the heritage significance of Wickham, Civic and Newcastle stations as a result of ceasing rail operations at these stations would be addressed as part of the Residual Corridor Management Plan.</p>
44.	<p>Aboriginal archaeology</p> <p>Prior to commencing any excavation or piling works where there is a risk of interfering with or destroying Aboriginal artefacts at the new transport interchange, an approval under section 90 of the <i>National Parks and Wildlife Act 1974</i> is required from the Office of Environment and Heritage. All approval conditions are to be implemented.</p>
45.	<p>Residual Corridor Management Plan</p> <p>To manage potential environmental impacts on the residual rail corridor of the Newcastle Branch Line, east of Stewart Avenue, following the cessation of rail services, the Proponent shall prepare a Residual Corridor Management Plan.</p> <p>Potential impacts on the heritage significance of Wickham, Civic and Newcastle stations as a result of ceasing rail operations at these stations would be addressed as part of the Residual Corridor Management Plan.</p>

No	Condition
	<p>The Residual Corridor Management Plan would be developed with consideration of the recommendations of the socio-economic assessment to enhance future access within the city centre.</p> <p>The Residual Corridor Management Plan is to be prepared by to the cessation of rail services east of Stewart Avenue.</p>
<p>46.</p>	<p>Stabling Facility Noise Management Plan</p> <p>Within 6 months of the date of this approval, the Proponent shall prepare a Stabling Facility Noise Management Plan (SFNMP) with the objective of minimising noise impacts on surrounding sensitive receivers. The SFNMP shall:</p> <ul style="list-style-type: none"> (a) be prepared in accordance with relevant noise criteria including INP and RING; (b) be prepared in consultation with NSW Trains and relevant stakeholders and the surrounding receivers; (c) identify preferred mitigation measures with an established hierarchy of mitigating at the source prior to at the boundary of the facility followed lastly by at receiver treatments; and (d) at source mitigation measures shall include the potential for testing train horns at less sensitive locations and/or the use of low noise yard warnings. <p>The SFNMP shall be approved by the PMEM.</p>