

# WYNYARD STATION UPGRADE CONSTRUCTION ENVIRONMENTAL COMPLIANCE REPORT JULY – DECEMBER 2016

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# 1 Introduction

This Wynyard Station Upgrade (WSU) Construction Environmental Compliance Report (CECR) has been prepared by Novo Rail to address Condition of Approval number 5 of the WSU project. This condition requires that the first CECR be prepared and submitted to Transport for NSW (TfNSW) within six months from the commencement of construction of the WSU project. CECRs shall then 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 TfNSW Principal Manager Environmental Management (PMEM)) for the duration of construction. This report is the third CECR and it covers the period from July to December 2016 (the reporting period).

Novo Rail undertook the following works on the WSU project during the reporting period:

- Installing a new station water supply at York Street.
- Installing new fixtures and finishes on the concourse, stairs and platforms including tiling, lighting, ceiling panels, ceiling units, ceiling sprinkler systems, glazing, seating, permanent signage, painting, shop fronts on retail units, new enamel cladding on columns and walls, closed circuit television and cable trays.
- Modifications to platform control rooms to move platform controls to new hubs on the platforms giving staff greater visibility. Platform control room works included installing new walls and doors and painting and fit out work.
- Relocating public telephones on the concourse.
- Investigating ceilings on the concourse and York Street lobby to remove redundant services, clean ceilings and remove hazardous materials, where required.
- Commissioning of new ticket gates on the north-western concourse, closest to the Wynyard Walk tunnel entrance.
- Trialling a heat relief system on Platforms 3 and 4.

## 2 Compliance with WSU Conditions of Approval

Compliance with the WSU Conditions of Approval is addressed in Appendix A.

## 3 License Compliance

The WSU project is exempt from needing an Environment Protection Licence.

## 4 TfNSW Sustainability Design Guideline Performance

The WSU project is currently on track to achieve a Silver Rating with an overall percentage of 72. There is little scope for WSU to achieve a higher rating due to the limited applicability of some of the sustainability initiatives set out in the NSW Sustainable Design Guidelines (TfNSW 2013).

For the Construction Stage of the project, Novo Rail has selected 13 out of 15 of the compulsory initiatives and 54 out of 75 of the discretionary sustainability design guideline initiatives. This is unchanged from the previous reporting period.

## 5 Environmental Control

The implementation and effectiveness of environmental controls is monitored regularly through Novo Rail environmental site inspections and also by the TfNSW Environment and Planning Manager. The frequency of the inspections is linked to the scale and nature of the works in progress. Five (5) inspections were completed during the reporting period, which reflected the completion of several work scopes and the generally low environmental risk of the works that were being undertaken. At least one TfNSW representative was in attendance at each of the inspections.

During these inspections, seven (7) observations / opportunities for improvement were identified. These were generally addressed within five working days, but often on the same day whenever possible. The observations included:

- Placement of additional acoustic barriers at work sites to reduce noise impacts
- Additional controls to minimise dust generation
- Work site tidiness
- Loss of containment of hydraulic fluid from an elevated work platform requiring clean-up of spilt fluid and reporting as an environmental incident (see below)
- Relocating a spill kit to be closer to an active work site
- Rubbish placed in a spill kit.

One (1) environmental incident was reported during the period. The incident involved a leak of hydraulic fluid from an elevated work platform onto the ground. This incident was identified during an environmental inspection. The incident was reported in accordance with the environmental incident procedure outlined in the Construction Environmental Management Plan (CEMP).

## 6 Environmental Monitoring

### 6.1 Water Discharge

No construction water was discharged during the reporting period. The WSU project site is fully contained within Wynyard Station. Any waste water is stored in intermediate bulk containers within the car park compound and disposed of as liquid waste at a licensed waste facility as required.

### 6.2 Noise Monitoring

Noise monitoring is carried out in accordance with the requirement of the Construction Noise and Vibration Management Plan. In summary, noise monitoring needs to be undertaken during scheduled 'high noise' activities such as rock hammering or concrete cutting if there is a high risk of significant noise impact at identified sensitive receivers. No works were undertaken during the reporting period that required noise monitoring to be undertaken.

### 6.3 Vibration Monitoring

Vibration monitoring was not undertaken during the reporting period. Vibration monitoring undertaken during the early works phase of the project found that vibration from the WSU works would not exceed vibration caused by operating trains in the station.

### 6.4 Heritage

No demolition works or works that involved the removal of potential heritage material were undertaken during the reporting period. Furthermore, the detailed design of the works underwent little change during the period. Therefore, there was minimal need for engagement with or site attendance by the heritage consultant nominated and approved in accordance with Condition 2 of the approved Section 60 application number 2014/S60/189 under Section 60 of the NSW *Heritage Act 1977*.

During the period planning applications were made for Phase 2 of the WSU project, which includes the replacement of the four timber escalators between the station concourse and York Street lobby and upgrades to the lobby area. A Section 60 application for the Phase 2 works was approved by the Heritage Division of the Office of Environment and Heritage on 20 July 2016. Additionally, two Section 65a applications were also approved on 2 December 2016 and 5 December 2016 to modify previous approvals to enable the Phase 2 works. Works on Phase 2 of the project commenced on 3 January 2017.

## 7 Other Environmental Indicators

### 7.1 Waste Management

Monitoring and recording of construction waste has been undertaken since the initiation of the project. Waste records cover general waste, asbestos, demolition waste (concrete waste) and metal recycling.

Wherever possible, waste is being recycled, however this is not always possible due to contamination. Waste dockets are being received and recorded in the WSU Waste Register.

Table 2 provides the recorded waste disposal information for the reporting period:

Table 1: Waste generated (tonnes)

Material	July	August	September	October	November	December	Total
Landfill	7.9	14.2	5.3	1.8	3.4	1.1	<b>33.8</b>
Recycled waste	129.5	136.1	119.1	46.5	70.9	17.3	<b>519.4</b>
<b>Total</b>	<b>137.5</b>	<b>150.4</b>	<b>124.4</b>	<b>48.3</b>	<b>74.3</b>	<b>18.3</b>	<b>553.2</b>

## 7.2 Vegetation Removal

No vegetation clearing was undertaken during the reporting period.

## 7.3 Environmental Complaints

Two environmental complaints were received during the reporting period. All complaints were addressed within response timeframes required by TfNSW. The details of the complaints received are summarised in Table 3.

Table 2: Summary of complaints

Complaint	Date	Response
Traffic – construction works prevented delivery to a business located on the station concourse	14 July 2016	The complainant was provided with the Project’s 24-hour Construction Response Line telephone number for reference should they experience problems with any future deliveries.
Traffic – construction vehicles parked in York Lane	28 July 2016	The subject vehicles were associated with power utility works being undertaken in York Lane. A traffic controller was stationed at the work site to control traffic flows around the works. The complainant was provided with the Project’s 24-hour Construction Response Line telephone number for future reference.

## 7.4 CEMP

An update of the CEMP was prepared during the period to include the planned Phase 2 scope of works.

## 8 Conclusion

Based on the evidence provided above it is concluded that the WSU project was fully compliant with the TfNSW environmental requirements and the conditions of approval.

# APPENDIX A

## Compliance with WSU Project Approval Conditions

Condition No.	Requirement	Comment												
1 (TfNSW)	<p>The Project shall be carried out generally in accordance with the environmental impact assessment (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>Wynyard Station Upgrade Review of Environmental Factors</td> <td>AECOM</td> <td>December 2014</td> </tr> <tr> <td>Wynyard Station Upgrade Submissions Report</td> <td>AECOM</td> <td>March 2015</td> </tr> <tr> <td>Wynyard Station Upgrade Determination Report</td> <td>TfNSW</td> <td>March 2015</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	Wynyard Station Upgrade Review of Environmental Factors	AECOM	December 2014	Wynyard Station Upgrade Submissions Report	AECOM	March 2015	Wynyard Station Upgrade Determination Report	TfNSW	March 2015	<p>All construction activities at WSU have been carried out in accordance with the EIA for the project and in compliance with the CEMP and relevant sub-plans reflecting the EIA requirements.</p>
DOCUMENT	AUTHOR	DATE												
Wynyard Station Upgrade Review of Environmental Factors	AECOM	December 2014												
Wynyard Station Upgrade Submissions Report	AECOM	March 2015												
Wynyard Station Upgrade Determination Report	TfNSW	March 2015												
2 (TfNSW)	<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>	<p>An EIA Checklist was prepared during the reporting period for Phase 2 of the WSU project, which includes proposed works to the York Street entry, escalators and access works. The EIA checklist was approved by TfNSW on 19 December 2016. The checklist concluded that appropriate control measures to reduce the environmental impacts of the works were already identified in the existing Construction Environmental Management Plan for the project.</p>												
3 (TfNSW)	<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>	<p>Noted.</p> <p>Relevant licences and approvals obtained in the last reporting period consist of Road Occupancy Licences (ROs) issued by RMS and Temporary Approvals and Crane Licences through the City of Sydney. Evidence include:</p> <ul style="list-style-type: none"> <li>•</li> <li>• <b>SUP01-APP-SA-0070 – Temp Works – George St Ramp – 5,7,8 July 2016</b></li> <li>• <b>SUP01-APP-SA-0071 – Temp Works – George St Ramp – 11-14 July 2016</b></li> <li>• <b>SUP01-APP-SA-0072 – Temp Works – George St Ramp – 25 July 2016</b></li> <li>• <b>SUP01-APP-SA-0073 – Temp Works – George St Ramp – 16-17 August 2016</b></li> </ul>												



Condition No.	Requirement	Comment
		<ul style="list-style-type: none"> <li>• SUP01-APP-SA-0074 – Temp Works – George St Ramp – 22-24 August 2016</li> <li>• SUP01-APP-SA-0075 – Temp Works – George St Ramp – 31 August 2016</li> <li>• SUP01-APP-SA-0076 – Temp Works – George St Ramp – 4-14 September 2016</li> <li>• SUP01-APP-SA-0077 – ROL –York St – 18-22 September 2016</li> <li>• SUP01-APP-SA-0078 – ROL –York St – 18-22 September 2016</li> <li>• SUP01-APP-SA-0079 – Temp Works – George St Ramp – 18-21 September 2016</li> <li>• SUP01-APP-SA-0080 – ROL –York St – 28-29 September 2016</li> <li>• SUP01-APP-SA-0081 – Crane licence – York St – 28-29 September 2016</li> <li>• SUP01-APP-SA-0082 – Temp Works – George St Ramp – 5-6 October 2016</li> <li>• SUP01-APP-SA-0083 – Temp Works – George St Ramp – 6 December 2016</li> <li>• SUP01-APP-SA-0084 – Temp Works – York St – 8 December 2016</li> <li>• SUP01-APP-SA-0085 – ROL – York St – 8 December 2016</li> </ul>
4 (TfNSW)	<p>A pre-construction environmental compliance matrix (PECM) for the Project (or such stages of the Project as agreed to by the PMEM) shall be prepared detailing compliance with all relevant conditions and mitigation measures 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 Proponent shall:</p> <p>(a) Submit a copy of the PECM to the Environment &amp; Planning Manager (EPM) for review. The EPM is to be given a minimum period of 7 days to review and provide any comments to the Proponent in relation to the PECM.</p> <p>Upon completion of the EPM 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.</p>	N/A - A PECM for the Project was submitted to the TfNSW EPM before the start of the reporting period.
5 (TfNSW)	<p>The Proponent shall prepare a construction environmental compliance report (CECR) which addresses the matters listed in the CoAs. 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>	The Construction Environmental Compliance Report for the period from January to June 2016 was approved in August 2016 and has been uploaded to the project website.
6 (TfNSW)	<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</p>	N/A – APOCR will be prepared prior to the commencement of operation of the Project.

Condition No.	Requirement	Comment
	<p>conditions of approvals, licences and permits required to be obtained under any other legislation for the Project.</p> <p>The Proponent shall:</p> <p>(a) Submit a copy of the PO CR to the EPM for review. The EPM is to be given a minimum period of 7 days to review and provide any comments to the Proponent in relation to the PO CR.</p> <p>Upon completion of the EPM review period submit a copy of the PO CR to the PMEM (or nominated delegate) and PMS for approval. The PO CR is to be provided to the PMEM at least one month prior to the scheduled operation of the Project (or such time as otherwise agreed to by the PMEM)</p>	
7 (TfNSW)	<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 all items listed in the CoAs. 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 (TDPC) at least 14 days prior to the commencement of construction and implemented, reviewed and revised as appropriate (or at the direction of the TDPC) during construction of the Project.</p>	<p>Revision 2 of the CLP was reviewed and approved by TfNSW on 21 August 2015. No further changes were made to the CLP during this reporting period.</p>
8 (TfNSW)	<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 TDPC or as required by the Environment Protection Authority (EPA) (where an Environment Protection Licence (EPL) is in effect).</p>	<p>Community Construction Notifications are sent to stakeholders on a monthly basis. A copy of the notifications is available on Asite.</p> <p>SUP01 – Wynyard Station Upgrade\20 Development\06 Stakeholder Management\02 Key stakeholder notifications. These are also listed below:</p> <ul style="list-style-type: none"> <li>• SUP01-NOT-CC-0027 - WSU Construction Notification July 2016</li> <li>• SUP01-NOT-CC-0028 - WSU Construction Notification August 2016</li> <li>• SUP01-NOT-CC-0030 - WSU Construction Notification September 2016</li> <li>• SUP01-NOT-CC-0034 - WSU Construction Notification October 2016</li> <li>• SUP01-NOT-CC-0031 - WSU Construction Notification November 2016</li> <li>• SUP01-NOT-CC-0033 - WSU Construction Notification December 2016</li> </ul> <p>A 24-hour Construction Response Line (1800 775 465) is set up and operated by TfNSW.</p>

Condition No.	Requirement	Comment
<b>9 (TfNSW)</b>	<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"> <li>(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 granted in the future.</li> <li>(b) A copy of each relevant licence approval or permit required and obtained in relation to the Project.</li> <li>(c) A list of environmental management reports that are publicly available.</li> <li>(d) Details of construction information.</li> <li>(e) 24 hour contact telephone number for information and complaints.</li> </ul> <p>Detailed updates of work progress and construction activities shall be regularly provided on the website.</p> <p>All documents must be compliant with the Web Content Accessibility Guidelines (WCAG) v2.0.</p>	<p>The project website has been established and can be accessed at: <a href="http://www.transport.nsw.gov.au/projects-wynyard-station-upgrade">http://www.transport.nsw.gov.au/projects-wynyard-station-upgrade</a></p> <p>The website contains electronic information related to the project as well as detailed updates of work progress and construction activities.</p> <p>The website was updated at least monthly during the reporting period.</p>
<b>10 (TfNSW)</b>	<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 EPM each working day.</p>	<p>A 24-hour Construction Response Line (1800 775 465) is set up and operated by TfNSW.</p> <p>A procedure for reporting complaints is outlined in Section 16.3 of the CEMP.</p> <p>TfNSW provides a daily update on all complaints received and the information is shared with the project management team via email.</p> <p>The following complaints were received during this reporting period</p> <ul style="list-style-type: none"> <li>• Traffic (construction) on 14 July 2016</li> <li>• Traffic (construction) on 28 July 2016</li> </ul>
<b>11 (TfNSW)</b>	<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</p>	<p>Property Condition Surveys have been completed for Wynyard Station.</p> <p>A copy of the surveys were passed on to the affected owner.</p> <p>No Property Condition Surveys were undertaken during this reporting period.</p>

Condition No.	Requirement	Comment
	<p>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>	
<b>12 (TfNSW)</b>	<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>	<p>Environmental risks and procedures are communicated through the WSU Site Induction Presentation.</p> <p>A new RESET induction was prepared in February 2016 and all staff and contractors were required to redo the induction, prior to commencing work onsite. The new induction included an update of the existing environmental (and safety) induction approved for use in November 2015. The RESET induction continues to be rolled out to new staff and contractors. The Phase 2 induction was prepared during the period for roll-out upon the commencement of Phase 2 of the Project.</p>
<b>13 (TfNSW)</b>	<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>	<p>WSU has adopted the Laing O'Rourke Australia Environmental Management System which is certified to ISO 14001.</p>
<b>14 (TfNSW)</b>	<p>The Proponent shall prepare a CEMP prior to commencement of construction which addresses the matters listed in the CoAs. The CEMP shall:</p> <ul style="list-style-type: none"> <li>(a) Comply with the CoA, 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.</li> <li>(b) Be prepared in accordance with the Guideline for Preparation of Environmental Management Plans (Department Infrastructure, Planning and Natural Resources, 2004).</li> </ul> <p>The Proponent shall:</p> <ul style="list-style-type: none"> <li>(a) Consult with government agencies and relevant service/utility providers as part of the preparation of the CEMP.</li> </ul>	<p>The CEMP for the Project was prepared in accordance with the requirements of CoA 14.</p> <p>Extensive consultation was undertaken during the project development phase of WSU and included government agencies and utility providers. A complete list is included in Section 11.1 of the CEMP. See page 2 of the CEMP for document status, review history and approval dates.</p> <p>A six monthly review of Revision 11 of the CEMP was undertaken at the start of this reporting period on 21 July 2016. A further update of the CEMP was prepared on 25 November 2016 to incorporate the Phase 2 works.</p> <p>The subplans to the CEMP were also updated during the period to include the Phase 2 works.</p>

Condition No.	Requirement	Comment
	<p>(b) Submit a copy of the CEMP to the EPM for review. The EPM 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>(c) Submit a copy of the CEMP to the PMEM (or nominated delegate) for approval upon completion of the EPM review period, at least 14 days prior to commencement of construction (or such time as is otherwise agreed to by the PMEM).</p> <p>(d) Review and update the CEMP at minimum 6-monthly intervals, and in response to any actions identified as part of any audit of the document.</p> <p>(e) Ensure updates to the CEMP are to be made within 7 days of the completion of the review or receipt of actions identified by any audit of the document, and be submitted to the EPM for approval.</p> <p>The CEMP must be approved by the PMEM prior to the commencement of construction work associated with the Project.</p>	
15 (TfNSW)	<p>The Proponent shall prepare an ECM in accordance with TfNSW’s Guide to Preparing ECMs 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 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>Three ECMs have been prepared for the project that address mitigation measures, environmental aspects and heritage aspects respectively.</p> <p>There were no updates to the ECMs during the reporting period.</p>
16 (TfNSW)	<p>Construction noise and vibration mitigation measures shall be implemented through the CEMP, in accordance with TfNSW’s Construction Noise Strategy and the EPA Interim Construction Noise Guideline (July 2009). The mitigation measures shall include all items listed in the CoA. Monitoring shall be undertaken, but not limited to:</p> <ul style="list-style-type: none"> <li>• for works that have the potential to result in exceedances</li> <li>• periodically during the construction program as the works progress.</li> <li>• measurements would also be undertaken in response to complaints.</li> </ul>	<p>A detailed Construction Noise &amp; Vibrations Management Plan has been prepared that demonstrates how construction noise and vibration mitigation measures are implemented and complied with.</p> <p>Monitoring is undertaken when construction activities with potential for high noise impact are being undertaken e.g. during possessions. No high noise impact construction activities occurred during the period and, accordingly, no noise monitoring was undertaken.</p>

Condition No.	Requirement	Comment
	The results would be reviewed to determine if additional mitigation measures are required.	
17 (TfNSW)	<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: Structural Vibration in Buildings: Effects on Structures.</p> <p>(b) For human exposure to vibration – the acceptable vibration values set out in the Environmental Noise Management Assessing Vibration: A Technical Guideline (DEC 2006).</p> <p>These limits apply unless otherwise approved by the PMEM through the CEMP.</p>	<p>These vibration criteria were addressed in the Construction Noise &amp; Vibrations Assessment Report (SUP01-REP-EN-0002) that was prepared in December 2014 for the early works phase of the project.</p> <p>No vibration monitoring has been undertaken during this reporting period.</p>
18 (TfNSW)	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>Non-tonal reversing beepers have been addressed in the Construction Noise &amp; Vibrations Assessment Report.</p> <p>All construction vehicles and plant used on site were fitted with non-tonal reversing beepers where possible. It is noted that some EWP have been fitted with beepers. Beepers for horizontal movement has been identified as being acceptable due to safety reasons.</p>
19 (TfNSW)	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 practicable, noise intensive construction works in the vicinity of affected educational buildings are to be minimised.	Noise impacts on educational facilities has been addressed in the Construction Noise & Vibrations Assessment Report.
20 (TfNSW)	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 Contaminated Land Management Act 1997, and notify the EPA in accordance with the EPA's Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997 (2009).	<p>The regulatory notification procedure is outlined in Section 16.4 of the CEMP. Any contamination/hazardous material not previous included in the register is being assessed by the occupational hygienist who is issuing an inspection report (and clearance certificate if removed).</p> <p>Asbestos was detected on six occasions during the reporting period, generally comprising fibrous insulation material or asbestos containing fibre cement debris. Lead dust was also identified, generally within accessible ceiling space and floor surfaces. All detected hazardous materials were recorded in the Hazardous Materials Register.)</p>
21 (TfNSW)	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	<p>The stop-work procedure for unidentified contamination finds is outlined in the WSU Hazardous Materials Management Plan.</p> <p>As noted above, any contamination/hazardous material not previous included in the register is being assessed by the occupational hygienist who is issuing an inspection report (and clearance certificate if removed).</p>

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	<p>contamination in accordance with EPA Guidelines for Consultants Reporting on Contaminated Sites.</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>	
22 (TfNSW)	<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>	<p>The stop-work procedure for unidentified asbestos contamination is outlined in the WSU Asbestos Removal Control Plan.</p> <p>As noted above, any contamination/hazardous material not previous included in the register is being assessed by the occupational hygienist who is issuing an inspection report (and clearance certificate if removed).</p> <p>Asbestos was detected on six occasions during the reporting period, generally comprising fibrous insulation material or asbestos containing fibre cement debris. Lead dust was also identified, generally within accessible ceiling space and floor surfaces. All detected hazardous materials were recorded in the Hazardous Materials Register.</p>
23 (TfNSW)	<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 Chemical Storage and Spill Response Guideline and Australian and ISO standards. These measures shall include:</p> <ul style="list-style-type: none"> <li>(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.</li> <li>(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.</li> <li>(c) All hazardous materials spills and leaks to be reported to site managers and actions to be immediately taken to remedy spills and leaks.</li> </ul> <p>Training in the use of spill kits to be given to all personnel involved in the storage, distribution or use of hazardous materials.</p>	<p>The procedure for the use and storage of hazardous materials is outlined in the WSU Hazardous Materials Management Plan</p> <p>Four spill kits are available on site and are generally located in the areas that have the most activity. Use of spill kits has been discussed at a number of toolbox talks.</p> <p>Any spills or leaks have been reported in INX and IMPACT in accordance with the CEMP.</p>
24 (TfNSW)	<p>The Proponent shall prepare a construction traffic management plan (TMP) as part of the CEMP which addresses the items listed in the CoA. The Proponent shall consult with the</p>	<p>A TMP has been prepared. The TMP is submitted to RMS and the City of Sydney with every Road Occupancy Licence (ROL) or Temporary Works (TW) application.</p>



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	relevant roads authority during preparation of the TMP, as required. The performance of all Project traffic arrangements must be monitored during construction.	A 6 monthly review of the TMP was undertaken during the period and included the addition of the use of the Cumberland Street access to the Wynyard Lane car park for deliveries. The updated TMP was submitted to TfNSW on 21 November 2016.
25 (TfNSW)	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	A dilapidation report was prepared during the early works phase of the project and included surveys of the road pavement, kerb and gutter and footpath of all streets with access to the station. No further dilapidation surveys have been required during this reporting period.
26 (TfNSW)	All permanent lighting for the Project must be designed, installed and operated in accordance with the requirements of AS 1158 Road Lighting and AS 4282 Control of the Obtrusive Effects of Outdoor Lighting and other relevant standards.	N/A – there is no project requirement for permanent outdoor lighting.
27 (TfNSW)	<p>All cleared vegetation shall be replaced and/or offset in accordance with the following, unless otherwise agreed or directed by the PMEM:</p> <ul style="list-style-type: none"> <li>(a) Sydney Train's Biodiversity Offset Calculator for non-significant impacts on vegetation within the rail corridor.</li> <li>(b) TfNSW's Vegetation Offset Guide for non-significant impacts on vegetation outside of the rail corridor.</li> </ul> <p>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.</p>	N/A - There is no project requirement for vegetation clearing.
28 (TfNSW)	Separate approval is required in accordance with TfNSW's Application for Removal or Trimming of Vegetation for the trimming, cutting, pruning or removal of trees or vegetation where the impact has not already been identified in the REF for the Project.	N/A - There is no project requirement for tree or vegetation removal. Should this requirement arise, a separate approval will be sought.
29 (TfNSW)	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 Managing Urban Stormwater; Soils and Construction 4th Edition (Landcom, 2004).	N/A - There is no project requirement for soil excavation. Should this requirement arise, soil and water management measures will be implemented. Any erosion and sediment control requirements will be outlined in the WSU ECMs.
30 (TfNSW)	<p>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 Division.</p> <p>Refer to Condition 42 for additional heritage requirements.</p>	<p>A Heritage Construction Management Plan (HCMP) has been prepared that includes a stop-work and notification procedure.</p> <p>An update of the HCMP was prepared during the period to include the Phase 2 works.</p> <p>No previously unidentified heritage finds were uncovered during this reporting period.</p>



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31 (TfNSW)	<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 Pre-Construction Sustainability Report (PCSR).</p>	<p>A Sustainability Officer has been appointed (Lucy Baker), who was supported by the Project Environmental Coordinator, Heather Tilley, during the reporting period.</p>
32 (TfNSW)	<p>Prior to commencement of construction, a 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"> <li>(a) A completed electronic checklist demonstrating compliance with the Sustainable Design Guidelines Version 3.0 to a Silver level standard.</li> <li>(b) A statement outlining the Proponent's own corporate sustainability obligations, goals, targets, in house tools, etc.</li> <li>(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.</li> </ul> <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>	<p>N/A - This requirement falls outside of the reporting period.</p> <p>A Pre-Construction Sustainability Report was submitted to the PMS prior to the commencement of main construction.</p> <p>The sustainability checklist was submitted to TfNSW on 4 April 2016. The checklist continues to be updated to take into account the completion of construction of Phase 1 aspects and updated to include Phase 2 aspects (lifts and escalators).</p>
33 (TfNSW)	<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"> <li>(a) Offensive graffiti will be removed or concealed within 24 hours.</li> <li>(b) Highly visible (yet inoffensive) graffiti will be removed or concealed within a week.</li> <li>(c) Graffiti that is neither offensive nor highly visible will be removed or concealed within a month.</li> </ul> <p>any unauthorised advertising material will be removed or concealed within 24 hours</p>	<p>Graffiti and advertising has been addressed in Section 13.7 of the CEMP.</p> <p>No graffiti incidents have been reporting during this reporting period.</p>
34 (TfNSW)	<p>Construction is permitted 24 hours a day, 7 days a week, subject to the restrictions detailed in Conditions 42 and 43.</p>	<p>Noted.</p> <p>This requirement is listed on relevant ECMs and included in site induction training.</p>
35 (TfNSW)	<p>Where feasible and reasonable, the following measures shall be investigated and implemented:</p> <ul style="list-style-type: none"> <li>(a) Works that generate significant levels of noise shall be scheduled for times when they would have the least impact, e.g. undertaking noise or vibration intensive activities</li> </ul>	<p>A detailed Construction Noise &amp; Vibration Assessment Report has been prepared that demonstrates how construction noise and vibration mitigation measures are implemented and complied with.</p> <p>Where very noisy works are anticipated, echo barriers (and sometimes double layers of echo barriers) and smoke baffles have been installed to minimise potential impacts. In</p>

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	<p>outside retail business hours, or during periods of low retail activities and low passenger numbers.</p> <p>(b) Consultation with receivers impacted by noise from the proposed works which are expected to exceed the construction NMLs, or where there is continued elevated noise levels (including structure borne noise), prior to the commencement of the particular activity. The highest consideration shall be given to those that are predicted to be most affected as a result of the works.</p> <p>(c) Consultation shall be used to determine and inform:</p> <ul style="list-style-type: none"> <li>i. Periods of low retail activity and schedule work accordingly, thus minimising potential impact.</li> <li>ii. If periods of respite are appropriate.</li> </ul> <p>(d) Comply with predicted noise levels.</p> <p>(e) Consideration of alternative works methods and lower noise machinery to minimise noise and vibration levels (e.g. saw cutting instead of impact hammering would reduce structure-borne noise).</p> <p>(f) Noisy construction works should be conducted behind hoardings. The hoardings should be full height and be constructed from =10 mm plywood or similar.</p> <p>(g) In the event that a Wynyard Park compound is required, noisy equipment would be orientated away from residential and hotel receivers and/or shielded behind structures where feasible and reasonable.</p> <p>Any activities undertaken outside of standard construction hours and have not been already assessed in the REF shall be subject to further assessment to the satisfaction of the PMEM.</p>	<p>addition, noisy works are generally undertaken during the night shift to minimise potential impacts on commuters during the day.</p> <p>Monthly notifications have been letterbox dropped/doorknocked to local stakeholders, placed on the project website and emailed to a number of interested parties and community consultation has occurred to address any noise complaints.</p>
36 (TfNSW)	<p>A noise monitoring program shall be identified in the CEMP, that shall be undertaken</p> <ul style="list-style-type: none"> <li>(a) Periodically during the construction program as the works progress.</li> <li>(b) For works that have the potential to result in exceedances of construction NMLs.</li> <li>(c) Measurements would also be undertaken in response to complaints.</li> </ul> <p>The results would be reviewed to determine if additional mitigation measures are required. All measurements would be undertaken in accordance with Australian Standard 1055.1-1997 – Acoustics – Description and measurement of environmental noise, Part 1: General procedures.</p>	<p>Noise Monitoring requirements are outlined in the Construction Noise &amp; Vibrations Assessment Report.</p> <p>Monitoring is undertaken when construction activities with potential for high noise impact are being undertaken e.g. during possessions. No high noise impact construction activities occurred during the period and, accordingly, no noise monitoring was undertaken.</p>
37 (TfNSW)	<p>All works are to be undertaken in accordance with the s.60 approval (Approval Ref: 2014/S60/189) under the <i>Heritage Act 1977</i>.</p>	<p>Noted.</p> <p>During the period planning applications were made for Phase 2 of the WSU project, which includes the replacement of the four timber escalators between the station</p>

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	Where further documentation is to be submitted to the Heritage Division of OEH as a requirement of the s.60 approval, such documentation is to be submitted to PMEM for review and acceptance a minimum of 21 days prior to lodgement.	concourse and York Street lobby and upgrades to the lobby area. A Section 60 application for the Phase 2 works was approved by the Heritage Division of the Office of Environment and Heritage on 20 July 2016. Additionally, two Section 65a applications were also approved on 2 December 2016 and 5 December 2016 to modify previous approvals to enable the Phase 2 works. The Proponent prepared and submitted all of these applications to the Heritage Division.
<b>38 (TfNSW)</b>	An internal approval within TfNSW (PMEM) would be required to ensure that all alternative access arrangements have been explored prior to proceeding with the Wynyard Park compound option.	Noted. The Wynyard Park compound option did not proceed. Alternative options for access for deliveries include Carrington Road, Wynyard Lane and George Street Ramp.
<b>39 (OEH)</b>	Development must be in accordance with: Annexure A: Architectural drawings prepared by Cox Richardson. Annexure B: Report entitled Wynyard Station Upgrade – Statement of Heritage Impact by Futurepast. November 2014.	Noted. Tool box meetings are held prior to the start of the day's work, and where items of heritage as outlined in the architectural drawings and the Futurepast report are being developed, these drawings are communicate to the engineers and contractors.
<b>40 (OEH)</b>	A heritage consultant shall be nominated for the project. The name of the consultant is to be submitted to the Manager, Conservation at the Heritage Division and approved prior to the commencement of works.	A heritage consultant (James Phillips of Weir Phillips Heritage) has been appointed and the Manager, Conservation at the Heritage Division, notified of that appointment on 27 February 2015.
<b>41 (OEH)</b>	The nominated heritage consultant is to provide advice on the detailed design, oversee heritage inductions and inspect the demolition and removal of material to ensure that no significant fabric or elements are damaged or removed.	Noted. No demolition works or works that involved the removal of potential heritage material were undertaken during the reporting period. Furthermore, the detailed design of the works underwent little change during the period. Therefore, there was minimal need for engagement with or site attendance by the heritage consultant nominated and approved in accordance with Condition 2 of the approved Section 60 application number 2014/S60/189 under Section 60 of the Heritage Act 1977.
<b>42 (OEH)</b>	All work shall be carried out by suitably qualified tradespeople with practical experience in conservation and restoration of similar heritage items. The nominated heritage consultant shall be consulted prior to the selection of appropriate tradespeople.	Noted
<b>43 (OEH)</b>	Significant building fabric and elements are to be protected during the works from potential damage. Protection systems must ensure historic fabric is not damaged or removed.	Noted. The HCMP outlines heritage protection measures.
<b>44 (OEH)</b>	Retain and protect the following significant fabric : (a) The original cladded columns at the entry to the York Street foyer. (b) Pre WWII elements and wall and floor finishes in the western corridor.	Noted. Protection measures are outlined in the HCMP e.g. heritage doors on Basement Level B1 were removed and put into storage and heritage tiles have been salvaged.

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	<p>(c) All original floor and wall finishes and the handrails between Level B2 and the York Street foyer.</p> <p>Retain and protect all original heritage fabric shown in the drawings SUP01COXSK-HR-101301 to SUP01COX- SK- HR- 101701, and which are outside the scope in Page 93-101 of the Heritage Impact Statement.</p>	
<b>45 (OEH)</b>	Any application to vary to Condition 6 must be supported in writing by the Heritage Specialist at Environment Division, SEQR, Sydney Trains and copies be provided to the Manager, Conservation at the Heritage Division.	Noted
<b>46 (OEH)</b>	The installation of new services shall be carried out in such a manner as to minimise damage to or removal of historic fabric and shall not obscure historic features	Noted. All heritage fabric that is to be protected is outlined in the Heritage ECMs.
<b>47 (OEH)</b>	An archival photographic recording of the affected internal and external elements is to be undertaken prior to the commencement of works, in accordance with the Heritage Division document entitled, Photographic Recording of Heritage Items using Film or Digital Capture. The original copy of the archival record shall be submitted to the Heritage Division.	A hardcopy of the WSU Archival Recording has been supplied to TfNSW, Sydney Trains and the Heritage Division on 23/04/15. Volumes 1 and 2 have been submitted to OEH, TfNSW and Sydney Trains. Volume 3 is currently under preparation and will be submitted at completion of the project.
<b>48 (OEH)</b>	This approval shall be void if the activity to which it refers is not physically commenced within five years after the date of the approval or within the period of consent specified in any relevant development consent granted under the Environmental Planning and Assessment Act 1979 (NSW), whichever occurs first.	N/A - the activity has already commenced.