

WSU CONSTRUCTION ENVIRONMENTAL COMPLIANCE REPORT JANUARY – JUNE 2016

Document Number	SUP01-REP-EN-0321
Issue Date	18/08/2016
Revision Number	1
Status	Final
Author	Heather Tilley
Custodian	WSU Project Environmental Coordinator
Approver	WSU Project Manager

Related Documentation	
Asite Document Reference	Asite Document Title
SUP01-REP-EN-0273	WSU Construction Environmental Compliance Report FINAL (July to December 2015)

Document Status

Revision Control			
Revision	Change from previous	Date	Comment
0	Internal issue	04/08/2016	
1	Addressing TfNSW comments	15/08/2016	

Approver				
Name	Organisation	Role	Date	Signature
Jamie Jack	Novo Rail Alliance	WSU Project Manager	04/08/2016	

Table of Contents

1	Introduction	3
2	Compliance with WSU Conditions	3
3	Compliance with EPL.....	3
4	TfNSW Sustainability Design Guideline Performance.....	4
5	Environmental Control	4
6	Environmental Monitoring	5
6.1	Water Discharge	5
6.2	Noise Monitoring.....	5
6.3	Vibration Monitoring.....	6
6.4	Heritage	6
7	Other Environmental Indicators	6
7.1	Waste Management	6
7.2	Vegetation Removal	7
7.3	Environmental Complaints	7
7.4	Construction Environmental Management Plan	7
8	Conclusion.....	7
	APPENDIX A.....	8
	APPENDIX B.....	26

1 Introduction

This Construction Environmental Compliance Report (CECR) has been prepared by Novo Rail to address Condition 5 of the Wynyard Station Upgrade (WSU) Conditions of Approval. WSU Condition of Approval 5 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 then 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. This report is the second CECT for the reporting period January to June 2016.

Novo Rail has undertaken the following works during the reporting period for the WSU project:

- Completed construction of new SMO, public toilets and LV room
- Continued with hazardous material removal at Concourse level and Platforms
- Continued with chemical peel of lead paint at Concourse level and Platforms
- Removal of portals at Concourse level
- Installation and commissioning of new ticket gates
- Installation of multi service units (MSU) throughout the Concourse commenced
- Tiling progressed at concourse level and on stairs to both platforms
- Continued removal of redundant services and installation of new services
- Painting of ceiling at Concourse level
- Installation of cladding on Concourse walls and columns commenced
- Plumbing works
- Cabling works
- Fire safety works

2 Compliance with WSU Conditions

The compliance with the WSU approval conditions are addressed in Appendix A.

3 Compliance with EPL

The WSU project is exempt from an Environment Protection Licence (EPL) and does not need to comply with any EPL conditions.

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 was limited scope for WSU to achieve a higher rating due to limited applicability of some of the sustainability initiatives set out in the Sustainable Design Guidelines.

At Construction Stage, WSU has selected 13 out of 15 of the compulsory initiatives and 54 out of 75 of the discretionary sustainability design guideline initiatives. This remains unchanged for this reporting period.

The most recent version of the Sustainability Checklist is at revision 23 and is available on A-site under document reference number SUP01-CHL-EN-0001.

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. Initially this was being undertaken during weekly inspections, however over the reporting period, sections of the station concourse have been returned to Sydney Trains and as such the work zones have reduced in size. The weekly inspections were replaced with fortnightly inspections from February 2016.

During the reporting period, 12 site inspections were undertaken by the WSU Project Environmental Representative (PER), all of them with the TfNSW Environment and Planning Manager.

During these inspections, four 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:

- Replenishment of spill kits required
- Storage on unlabelled containers within the dangerous good storage area
- Remnants of a spill within the dangerous good storage area
- Leaking sewage pipe on Area 11

Five environmental incidents were reported over the past six months. These are summarised below:

- Leak from a chemical peel onto floors tiles of Platform 3/4 and onto wall within Stair 11 (11 February 2016)
- Leak from Coles sewage pipe into Area 10 (8 February 2016)
- Hydraulic spill in Wynyard Lane as a result of a bobcat losing its fork attachment (18 April 2016)
- Minor spill from cutting fluid in dangerous good area (5 May 2016)
- Oil spill in Area 10 resulting from an unknown source (18 May 2016)

One unexpected asbestos find was recorded on 22 May 2016 during works within the track area of Platform 6. This was reported as a Health and Safety Incident.

All incidents were addressed immediately, cleaned up and reported in accordance with the Environmental Incident Procedure as 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 ICB 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 Construction Noise and Vibration Management Plan (CNVMP) to ensure compliance with noise predictions in the CNVMP.

Noise monitoring was undertaken during four weekend possessions when construction activities had a potential 'high risk' of resulting in excessive noise to customers within Wynyard Station. Noisy works associated with the demolition of floor, stair and column tiles within the concourse, which were generally completed before 8am to minimise any potential impacts on Wynyard Station customers. Twenty two monitoring sessions were undertaken during possession weekends. Ad hoc tile cutting is undertaken during the daytime shift, and as a result of concerns raised by retailers in the concourse area, a further seven ad hoc noise monitoring sessions were undertaken.

Whenever elevated noise measurements were recorded, the construction methodology was amended where possible and/or additional mitigation measure implemented. Where very noisy works are anticipated, echo barriers (and sometimes double layers of echo barriers) have been installed to minimise potential impacts.

Table 1 below summarises the noise monitoring occasions for WSU:

Table 1: Noise monitoring occasions

Month	Ad Hoc monitoring	Noise Monitoring Sessions	Possession Week
January	4	1	WE30
February		6	WE34
March	3	9	WE36
April		6	WE43
May			
June			
Total	7	22	

See Appendix B for results of noise monitoring undertaken on these occasions. As noted in Appendix B, the L_{eq-15} for construction activities during monitoring periods ranged between 64 dBA and 84 dBA (an average of 75 dBA). Monitoring also occurred at various times from 4am to 9 am, when noisy works were occurring.

As predicted in the CNVIA, some exceedances of the NML within the commuter concourse occurred. As such, the following mitigation measures have been undertaken:

- Applied all feasible and reasonable work practises to meet the noise management levels.
- As per the Community Liaison Plan notification of potentially impacted residents/ commuters of the nature of works to be carried out, the expected noise levels and duration, as well as contact details for enquiries and complaints (construction response line number).
- All noisy activities (noise prediction above 75 dBA) were conducted during out of hours so as to minimise the impact on commuters.

6.3 Vibration Monitoring

Vibration monitoring was not undertaken during the reporting period. Earlier vibration monitoring during the Early Works phase of the project has indicated that vibration from proposed WSU work activities would not exceed vibration caused by operating trains in the station.

6.4 Heritage

The approved Heritage consultant provided advice on a number of heritage related design issues as required by the conditions of approval. This included the following:

- The grill room ceiling for installation of the race track
- Removal of heritage balustrade on stair 9
- Advice on column capitals in the concourse area
- Advice on the removal of the heritage mirrors due to a clash with services
- B1 smoke lobby advice on maintaining the location of a heritage door.

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 (SUP01-REG-EN-0006) on Asite.

Waste generated by the Project Office at 68 Pitt St was not monitored as it is removed by a subcontractor of the building manager who is unable to report on waste volumes on a tenancy basis.

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

Table 2: Waste generated (tonnes)

Material	January	February	March	April	May	June	Total
Landfill	11.5	8.5	4.6	5.2	6.0	6.1	41.9
Recycled waste	363.1	259.4	180.2	253.0	370.2	223.1	1,649.0
Total	374.6	267.9	184.8	258.2	376.2	229.2	1,690.9

7.2 Vegetation Removal

No vegetation clearing was undertaken during the reporting period.

7.3 Environmental Complaints

Three environmental complaints were received during the reporting period. All complaints were addressed within response timeframes required by TfNSW. The complaints received are summarised below:

Table 3: Summary of complaints

Complaint	Date	Response
Noise (construction)	4 January 2016	The noise was associated with tile cutting activities. Works were stopped. Tile cutting areas were established and echo barriers were put in place to minimise these impacts.
Noise (construction)	14 January 2016	The noise was associated with tile cutting activities. Works were stopped. Tile cutting areas were established and echo barriers were put in place to minimise these impacts.
Dust / Air Quality	31 March 2016	Fans were implemented to improve the air flow through the area of construction activities.

7.4 Construction Environmental Management Plan

The CEMP (SUP01-PLN-EN-0001) was reviewed and updated on 21 March 2016, and was formally endorsed by TfNSW on 23 March 2016. The next review is due on September 2016.

8 Conclusion

Based on the evidence provided above it is concluded that the Wynyard Station Upgrade 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 EIA for this Project, which comprises the following documents:</p> <ul style="list-style-type: none"> • 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>In the event of an inconsistency between these conditions and the EIA, these conditions will prevail to the extent of the inconsistency.</p>	<p>Noted.</p> <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 subplans reflecting the EIA requirements.</p>
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>N/A – there were no project modifications in the reporting period.</p> <p>Financial approval for Phase 2 has been received. The S60 SOHI for Phase 2 works was prepared during the reporting period and was submitted to OEI on 27 May 2016. The SOHI was on exhibition until 24 June 2016. The Consistency Assessment for Phase 2 works is currently being prepared by TfNSW and will be finalised once Heritage approval has been obtained.</p>

Condition No.	Requirement	Comment
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 issued by RMS and Temporary Work permits through the City of Sydney. Evidence include:</p> <ul style="list-style-type: none"> • SUP01-APP-SA-0039 – ROL George St for January 2016 • SUP01-APP-SA-0040 - Temp Works for George St for January 2016 • SUP01-APP-SA-0042 - Temp works - Carrington St Delivery - 19-20 Jan 2016 • SUP01-APP-SA-0043 - Temp Works for George St for February 2016 • SUP01-APP-SA-0044 – ROL George St for February 2016 • SUP01-APP-SA-0045 - Temp Works for Wynyard Ln (concrete pumping) - 16/01/2016 • SUP01-APP-SA-0046 - Temp Works for Wynyard Ln (concrete pumping) - 6/02/2016 • SUP01-APP-SA-0047 – ROL George St for March 2016 • SUP01-APP-SA-0048 - Temp Works for George St for March 2016 • SUP01-APP-SA-0049 – ROL for George St for deliveries 19-20/2/16 • SUP01-APP-SA-0050 – ROL George St for deliveries 11-12/3/16 • SUP01-APP-SA-0051 - Temp Works for Wynyard Ln for (concrete pumping) - 5/03/2016 • SUP01-APP-SA-0052 - Temp Works - George St - material removal - 11-03-2016 • SUP01-APP-SA-0053 - ROL - George St Ramp – April 2016 • SUP01-APP-SA-0054 - Temp Works - George St ramp - April 2016 • SUP01-APP-SA-0055 - Temp works - Carrington St Delivery - 21-03-2016 • SUP01-APP-SA-0056 - Temp Works - Wynyard Lane (Concrete pumping) 2-3-04-16 • SUP01-APP-SA-0057 - ROL - George St Ramp – April-May 2016 • SUP01-APP-SA-0058 - Temp Works - George St Ramp – April-May 2016 • SUP01-APP-SA-0059 - Temp Works - Wynyard Lane (Concrete Pumping) 14-04-2016 • SUP01-APP-SA-0061 - ROL - George St Ramp – May-June 2016 • SUP01-APP-SA-0062 - Temp Works - George St Ramp – May-June 2016 • SUP01-APP-SA-0063 - Temp Works - York St – May-June 2016 • SUP01-APP-SA-0064 - ROL - York St - May-June 2016 • SUP01-APP-SA-0065 - Temp Works - York St – June 2016 • SUP01-APP-SA-0066 - ROL - York St - June 2016 • SUP01-APP-SA-0067 - Temp Works - George St Ramp – 22-23 June 2016 • SUP01-APP-SA-0068 - Temp Works - George St Ramp – 27 June 2016 • SUP01-APP-SA-0069 - Temp Works - Wynyard Lane Concrete delivery – 18 June 2016

Condition No.	Requirement	Comment
4 (TfNSW)	<p>A pre-construction environmental compliance matrix (PECM) for the Project (or such stages of the Project as agreed to by the Principal Manager Environmental Management(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 & 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 Principal Manager Environmental Management (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>	<p>N/A - A pre-construction environmental compliance matrix (PECM) for the Project was submitted to the TfNSW Environment & Planning Manager (EPM) before the start of the reporting period.</p>
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>	<p>The July to December 2015 Report was approved in February 2016 and has been uploaded to the project website.</p> <p>This report addresses the period January to June 2016.</p>
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 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 POCR 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 POCR.</p> <p>Upon completion of the EPM 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 at least one month prior to the scheduled operation of the Project (or such time as otherwise agreed to by the PMEM)</p>	<p>N/A – a pre-operation compliance report (POCR) for the Project will be prepared prior of operation.</p>

Condition No.	Requirement	Comment
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>The CLP has been developed and implemented, and is available on Asite (SUP01-PLN-MG-0005 - Revision 2).</p> <p>Revision 2 of the plan was reviewed and approved by TfNSW on 21 August 2015.</p> <p>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"> • SUP01-NOT-CC-0021 - WSU Construction Notification January 2016 • SUP01-NOT-CC-0022 - WSU Construction Notification February 2016 • SUP01-NOT-CC-0023 - WSU Construction Notification March 2016 • SUP01-NOT-CC-0024 - WSU Construction Notification April 2016 • SUP01-NOT-CC-0025 - WSU Construction Notification May 2016 • SUP01-NOT-CC-0026 - WSU Construction Notification June 2016 <p>A 24-hour Construction response line (1800 775 465) is set up and operated by TfNSW.</p>

Condition No.	Requirement	Comment
9 (TfNSW)	<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 granted in the future. (b) A copy of each relevant licence approval or permit required and obtained in relation to the Project. (c) A list of environmental management reports that are publicly available. (d) Details of construction information. (e) 24 hour contact telephone number for information and complaints. <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: http://www.transport.nsw.gov.au/projects-wynyard-station-upgrade</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 on 3 June 2016.</p>
10 (TfNSW)	<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>The Complaints Management methodology is out lined in Section 16.3 of the CEMP (SUP01-PLN-EN-0001).</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"> • Noise (construction) on 4 January 2016 • Noise (construction) on 14 January 2016 • Dust / Air Quality on 31 March 2016

Condition No.	Requirement	Comment
11 (TfNSW)	<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>	<p>Property Condition Surveys have been completed for Wynyard Station.</p> <p>A copy of the surveys were passed on to the affected owner. A register of all reports is kept on Asite at: SUP01 - Working Environment\30 Execution\00 Project Management\03 Registers</p> <p>No Property Condition Surveys were undertaken during this reporting period.</p>
12 (TfNSW)	<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 (SUP01-PRE-SA-0001) is located on Asite: SUP01 - Working Environment\30 Execution\11 Safety\03 Site Induction</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 works induction is currently being prepared.</p>
13 (TfNSW)	<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. https://sms-ems.laingorourke.com.au/ems/default.htm</p>

Condition No.	Requirement	Comment
<p>14 (TfNSW)</p>	<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"> (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. (b) Be prepared in accordance with the Guideline for Preparation of Environmental Management Plans (Department Infrastructure, Planning and Natural Resources, 2004). <p>The Proponent shall:</p> <ul style="list-style-type: none"> (a) Consult with government agencies and relevant service/utility providers as part of the preparation of the CEMP. (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. (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). (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. (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>The CEMP must be approved by the PMEM prior to the commencement of construction work associated with the Project.</p>	<p>These matters are addressed in the WSU CEMP (SUP01-PLN-EN-0001).</p> <p>Extensive consultation has been 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. Page 2 of the CEMP for document status, review history and approval dates.</p> <p>A six monthly review of Revision 10 of the CEMP was undertaken during this reporting period and was updated to include the proposed Phase 2 works. CEMP Revision 11 was approved for use by TfNSW on 23 March 2016 via email. The subplans also underwent a 6 monthly review during this reporting period:</p> <ul style="list-style-type: none"> • The Heritage Management Plan (Rev 3) was accepted for use on 21 March 2016. • The Traffic Management Plan (Rev 12) was accepted for use on 25 May 2016 • The Construction Noise and Vibration Management Plan (Rev 6) was approved by the Construction Manager and submitted to TfNSW for approval to use on 16 June 2016. This has verbally been accepted for use <p>The Hazardous Management Plan (Rev 5) was submitted for review and approval. Verbal acceptance was received in June 2016.</p>

Condition No.	Requirement	Comment
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>ECMs have been prepared and were supplied to TfNSW for review and endorsement. All ECMs are available on Asite.</p> <p>SUP01 – Wynyard Station Upgrade\30 Execution\12 Environment & Sustainability\03 CEMP Documents</p> <ul style="list-style-type: none"> • SUP01-FG-EN-0001 (Mitigations) • SUP01-PLN-EN-0002 (Maps) • SUP01-PLN-EN-0010 (Heritage) <p>The ECMs will be reviewed and updated to include the Phase 2 works following approval.</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"> • for works that have the potential to result in exceedances • periodically during the construction program as the works progress. • measurements would also be undertaken in response to complaints. <p>The results would be reviewed to determine if additional mitigation measures are required.</p>	<p>A detailed Construction Noise & Vibrations Management Plan has been prepared that demonstrates how construction noise and vibration mitigation measures are implemented and complied with.</p> <p>The Management Plan is available on Asite:</p> <p>SUP01-PLN-EN-0014 SUP01 – Wynyard Station Upgrade\30 Execution\12 Environment & Sustainability\03 CEMP Documents Noise and Vibration Compliance</p> <p>Monitoring is being undertaken when construction activities with potential high noise impact are being undertaken eg during Possessions.</p> <p>Evidence includes:</p> <ul style="list-style-type: none"> • SUP01-DS-EN-0008 - WSU WE30 Noise Monitoring Results (23 Jan 2016) • SUP01-DS-EN-0009 - WSU WE34 Noise Monitoring Results (20 Feb 2016) • SUP01-DS-EN-0010 - WSU WE37 Noise Monitoring Results (12 Mar 2016) • SUP01-DS-EN-0012 - WSU WE43 Noise Monitoring Results (23 April 2016) <p>Ad hoc noise monitoring was undertaken on 13, 22 and 28 Jan 2016 and 4, 11 and 17 Mar 2016.</p>

Condition No.	Requirement	Comment
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 have been addressed in the Construction Noise & Vibrations Assessment Report (SUP01-REP-EN-0002) which is available on Asite.</p> <p>SUP01 – Wynyard Station Upgrade\30 Execution\12 Environment & Sustainability\03 CEMP Documents</p> <p>No vibration monitoring has been undertaken during this reporting period.</p>
18 (TfNSW)	<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>	<p>Non-tonal reversing beepers have been addressed in the Construction Noise & Vibrations Assessment Report (SUP01-REP-EN-0002) which is available on Asite.</p> <p>SUP01 – Wynyard Station Upgrade\30 Execution\12 Environment & Sustainability\03 CEMP Documents</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)	<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 practicable, noise intensive construction works in the vicinity of affected educational buildings are to be minimised.</p>	<p>Noise Impact on Educational Facilities has been addressed in the Construction Noise & Vibrations Assessment Report (SUP01-REP-EN-0002) which is available on Asite.</p> <p>SUP01 – Wynyard Station Upgrade\30 Execution\12 Environment & Sustainability\03 CEMP Documents</p>

Condition No.	Requirement	Comment
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 (SUP01-PLN-EN-0001). 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 12 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. An unidentified asbestos incident occur on 22 May 2016. This was reported as a safety incident and was suitably managed with the assistance of the hygienist. Following the incident asbestos awareness training was provided to all contractors on site (7-8 June 2016)</p> <p>All report results are listed in: HazMat register (SUP01-REG-EN-0004) and HazMat Tracker (SUP01-FG-EN-0002).</p>
21 (TfNSW)	<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 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>	<p>The stop-work procedure for unidentified contamination finds is outlined in the WSU Hazardous Materials Management Plan (SUP01-PLN-EN-0005), which is available on Asite: SUP01 – Wynyard Station Upgrade\30 Execution\12 Environment & Sustainability\03 CEMP Documents</p> <p>As 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>An unidentified asbestos incident occur on 22 May 2016 which triggered a Duty to Report. The incident was also reported as a safety incident in IMPACT and INX. Following the incident asbestos awareness training was provided to all contractors on site (7-8 June 2016). In addition the Hazardous Material Management Plan was reviewed.</p> <p>All report results are listed in: HazMat register (SUP01-REG-EN-0004) and HazMat Tracker (SUP01-FG-EN-0002).</p>

Condition No.	Requirement	Comment
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 (SUP01-PLN-EN-0006), which is available on Asite: SUP01 – Wynyard Station Upgrade\30 Execution\12 Environment & Sustainability\03 CEMP Documents</p> <p>As 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 12 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. An unidentified asbestos incident occur on 22 May 2016 which triggered a Duty to Report. The incident was also reported as a safety incident in IMPACT and INX. Following the incident asbestos awareness training was provided to all contractors on site (7-8 June 2016). In addition the Hazardous Material Management Plan was reviewed.</p> <p>All report results are listed in: HazMat register (SUP01-REG-EN-0004) and HazMat Tracker (SUP01-FG-EN-0002).</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"> (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. <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 (SUP01-PLN-EN-0005), which is available on Asite: SUP01 – Wynyard Station Upgrade\30 Execution\12 Environment & Sustainability\03 CEMP Documents.</p> <p>Following the incident with the Asbestos, the Hazardous Material Management Plan was reviewed to ensure the correct procedures were place and asbestos awareness training was provided to all contractors.</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>

Condition No.	Requirement	Comment
24 (TfNSW)	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 relevant roads authority during preparation of the TMP, as required. The performance of all Project traffic arrangements must be monitored during construction.	A Traffic Management Plan (SUP01-PLN-MG-0003) has been prepared which is available on Asite: SUP01 – Wynyard Station Upgrade\20 Development\00 Project Management\00 Plans The TMP has been submitted to RMS and the City of Sydney with every Road Occupancy Licence (ROL) or Temporary Works (TW) application. A 6 monthly review of the TMP was undertaken and the TMP was approved by TfNSW for use on 23 March 2016 via email.
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 Survey for Road Conditions has been undertaken and is available on Asite: SUP01 – Wynyard Station Upgrade\30 Execution\08 Engineering & Design\06 Reports & Investigation\06 Condition Assessment & Report <ul style="list-style-type: none"> SUP01-REP-SV-0002 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)	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 Biodiversity Offset Calculator for non-significant impacts on vegetation within the rail corridor. (b) TfNSW's Vegetation Offset Guide for non-significant impacts on 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.	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.

Condition No.	Requirement	Comment
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. The HCMP is available on Asite: SUP01 – Wynyard Station Upgrade\30 Execution\12 Environment & Sustainability\10 Heritage SUP01-PLN-EN-0011</p> <p>A 6 monthly review of the HCMP was undertaken and was approved for use by TfNSW on 23 March 2016 via email. The HCMP will be reviewed again once the Phase 2 works have been approved, expected July 2016. No previously unidentified heritage finds were uncovered during this reporting period.</p>
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 is supported by the Project Environmental Coordinator, Heather Tilley.</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"> (a) A completed electronic checklist demonstrating compliance with the Sustainable Design Guidelines Version 3.0 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>	<p>N/A - This requirement falls outside the reporting period.</p> <p>A Pre-Construction Sustainability Report (SUP01-CHL-EN-0001) has been submitted to the PMS prior of 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>

Condition No.	Requirement	Comment
33 (TfNSW)	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: (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 nor highly visible will be removed or concealed within a month. any unauthorised advertising material will be removed or concealed within 24 hours	Graffiti and advertising has been addressed in Section 13.7 of the CEMP (SUP01-PLN-EN-0011). No graffiti incidents have been reporting during this reporting period.
34 (TfNSW)	Construction is permitted 24 hours a day, 7 days a week, subject to the restrictions detailed in Conditions 42 and 43.	Noted. This requirement is listed on relevant ECMs and included in site induction training.

Condition No.	Requirement	Comment
35 (TfNSW)	<p>Where feasible and reasonable, the following measures shall be investigated and implemented:</p> <p>(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 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> <ol style="list-style-type: none"> i. Periods of low retail activity and schedule work accordingly, thus minimising potential impact. ii. If periods of respite are appropriate. <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>A detailed Construction Noise & Vibration Assessment Report has been prepared that demonstrates how construction noise and vibration mitigation measures are implemented and complied with.</p> <p>The report is available on Asite.</p> <p>SUP01 – Wynyard Station Upgrade\30 Execution\12 Environment & Sustainability\03 CEMP Documents</p> <ul style="list-style-type: none"> • SUP01-REP-EN-0002 <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 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 letter 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>

Condition No.	Requirement	Comment
36 (TfNSW)	<p>A noise monitoring program shall be identified in the CEMP, that shall be undertaken</p> <p>(a) Periodically during the construction program as the works progress.</p> <p>(b) For works that have the potential to result in exceedances of construction NMLs.</p> <p>(c) Measurements would also be undertaken in response to complaints.</p> <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 & Vibrations Assessment Report which is available on Asite.</p> <p>SUP01 – Wynyard Station Upgrade\30 Execution\12 Environment & Sustainability\03 CEMP Documents</p> <ul style="list-style-type: none"> SUP01-REP-EN-0002 <p>Monitoring is being undertaken when construction activities with potential high noise impact are being undertaken eg during Possessions.</p> <ul style="list-style-type: none"> SUP01-DS-EN-0008 - WSU WE30 Noise Monitoring Results (23 Jan 2016) SUP01-DS-EN-0009 - WSU WE34 Noise Monitoring Results (20 Feb 2016) SUP01-DS-EN-0010 - WSU WE37 Noise Monitoring Results (12 Mar 2016) SUP01-DS-EN-0012 - WSU WE43 Noise Monitoring Results (23 April 2016) <p>Results of the noise monitoring has been included in Appendix B.</p>
37 (TfNSW)	<p>All works are to be undertaken in accordance with the s.60 approval (Approval Ref: 2014/S60/189) under the Heritage Act 1977.</p> <p>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.</p>	<p>Noted.</p> <p>All applications under the Heritage Act 1977 will be prepared and submitted by the Proponent.</p> <p>Further information is contained in the HCMP.</p> <p>In addition a S65A was approved by the Heritage Council on 24 July 2015 for some minor modifications of the original S60 approval following detailed design on Concourse, B3 and York Street Levels.</p> <p>A SOHI for Phase 2 was prepared and put on public exhibition during this reporting period.</p>
38 (TfNSW)	<p>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.</p>	<p>Noted.</p> <p>The Wynyard Park compound option did not proceed. Alternative options for access for deliveries include Carrington Road, Wynyard Lane and George Street Ramp.</p>
39 (OEH)	<p>Development must be in accordance with:</p> <p>Annexure A: Architectural drawings prepared by Cox Richardson.</p> <p>Annexure B: Report entitled Wynyard Station Upgrade – Statement of Heritage Impact by Futurepast. November 2014.</p>	<p>Noted.</p> <p>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.</p>
40 (OEH)	<p>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.</p>	<p>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.</p>

Condition No.	Requirement	Comment
41 (OEH)	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. The heritage consultant has provided advice on a number of heritage related design issues including: <ul style="list-style-type: none"> • The grill room ceiling for installation of the race track • Removal of heritage balustrade on stair 9 • Advice on column capitals in the concourse area • Advice on the removal of the heritage mirrors due to a clash with services • B1 smoke lobby advice
42 (OEH)	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
43 (OEH)	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. A Heritage Construction Management Plan (HCMP) has been prepared outlining protection systems. The HCMP is available on Asite: SUP01 – Wynyard Station Upgrade\30 Execution\12 Environment & Sustainability\10 Heritage <ul style="list-style-type: none"> • SUP01-PLN-EN-0011 As above
44 (OEH)	Retain and protect the following significant fabric : <ul style="list-style-type: none"> (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. (c) All original floor and wall finishes and the handrails between Level B2 and the York Street foyer. 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.	Noted. Protection measures are outlined in HCMP (SUP01-PLN-EN-0011) eg heritage doors on Basement Level B1 were removed and put into storage and heritage tiles have been salvaged. All heritage fabric that is to be protected is outlined in: <ul style="list-style-type: none"> • Heritage ECMs (SUP01-PLN-EN-0010).
45 (OEH)	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

Condition No.	Requirement	Comment
46 (OEH)	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. <ul style="list-style-type: none"> Protection measures are outlined in HCMP (SUP01-PLN-EN-0011). All heritage fabric that is to be protected is outlined in the Heritage ECMs (SUP01-PLN-EN-0010).
47 (OEH)	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. An electronic copy is available on Asite: SUP01 – Wynyard Station Upgrade\30 Execution\12 Environment & Sustainability\10 Heritage <ul style="list-style-type: none"> SUP01-REP-EN-0157 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 project.
48 (OEH)	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.

APPENDIX B

Noise Monitoring Results

Activity	Site	Date	Time	Ref #	Leq	LA10	LA90	LAmx	LAmn	Activity	Comment
Ad hoc	1	Wednesday, 13 January 2016	13:33	38	67.4	68.5	66.1	68.9	64.6	timber cutting is area 12	Monitor located just inside the concourse bar entrance at Area 4. Spot checking.
Ad hoc	1	Friday, 22 January 2016	10:05	40	70.9	73.2	67.9	82.2	66.0	Works in area 12	General background monitoring with intermittent bangs, sawing and other equipment operation
Ad hoc	2	Friday, 22 January 2016	10:22	41	68.0	70.6	64.1	88.8	62.4	Works in Area 5	General background monitoring with intermittent bangs, sawing and other equipment operation
WE30	1	Saturday, 23 January 2016	4:05	42	84.1	86.9	70.7	92.2	45.1	Tile Demolition	Demolition near Stair 8 and on concourse audible also included ride on cleaners on concourse and movement of metal bins.
Ad hoc	1	Thursday, 28 January 2016	12:21	44	66.1	68.3	60.4	87.0	58.5		York St Exit spot check for concourse bar / cafe
WE34	1	Saturday, 20 February 2016	6:11	45	74.7	76.5	69.6	95.4	65.7	Tile Demolition remove portals	Mix of tiles breaking, drilling and tonal beepers. Removal of Portal A and B
WE34	2	Saturday, 20 February 2016	6:29	46	79.1	83.1	69.7	93.7	65.5	Tile Demolition remove portals	Mix of tiles breaking, drilling, tile cutting Removal of Portal A and B
WE34	3	Saturday, 20 February 2016	6:52	47	72.6	76.5	62.3	90.1	60.5	Tile Demolition remove portals	Mix of tiles breaking, drilling, tile cutting Removal of Portal A and B
WE34	2	Saturday, 20 February 2016	7:13	48	80.5	86.4	67.8	91.5	65.2	Tile Demolition remove portals	Mix of tiles breaking, drilling, jack hammering. Combination of works in Portal B and A
WE34	3	Saturday, 20 February 2016	7:30	49	78.2	80.9	72.4	89.7	67.3	Tile Demolition remove portals	Jack hammering and tile breaking most of the monitoring period.
WE34	2	Saturday, 20 February 2016	7:47	50	80.1	83.2	72.3	66.2	66.2	Tile Demolition remove portals	Jack hammering and tile breaking most of the monitoring period. Contribution from Area A and B.
Ad hoc	1	Friday, 4 March 2016	13:32	51	79.6	84.2	70.1	89.5	66.4	Tile cutting Area 5	York St Exit spot check for concourse bar / cafe
Ad hoc	1	Friday, 11 March 2016	14:56	53	77.0	81.6	67.6	85.5	64.3	Tile cutting Area 5	York St Exit spot check for concourse bar / cafe
WE37	1	Saturday, 12 March 2016	7:19	56	64.7	66.2	61.2	81.3	59.8	Tiling	Tiling in Area 10, Some grinding audible, Rollers doors opening (7:30am), alarms
WE37	2	Saturday, 12 March 2016	7:40	57	70.9	73.4	65.0	92.2	62.7	Tiling	Tiling in Area 10 works in Area 12, General construction noise, some hammering, EWPs operating, hammering

Activity	Site	Date	Time	Ref #	Leq	LA10	LA90	LAmx	LAmn	Activity	Comment
WE37	2	Saturday, 12 March 2016	7:58	58	70.0	72.4	65.1	90.2	62.8	Tiling	Tiling in Area 10 works in Area 12, General construction noise, some hammering, EWPs operating, hammering
WE37	3	Saturday, 12 March 2016	8:15	59	73.5	76.0	67.6	88.6	65.4	Tiling	Tiling Stair 8 and EWPs operating near area 12, tile cutting
WE37	4	Saturday, 12 March 2016	8:33	60	74.4	75.8	65.2	88.5	63.2	Tiling	Tiling Stair 8 including tile cutting
WE37	5	Saturday, 12 March 2016	8:57	61	64.6	64.9	64.1	65.0	63.9	Tiling	No obvious noisy activity. Site located near area 5 (Stair 10) - general background noise for Saturday morning.
WE37	4	Saturday, 12 March 2016	9:16	62	68.6	71.3	64.9	86.5	63.0	Tiling	Tiling Stair 8 including general construction drilling/banging
WE37	4	Saturday, 12 March 2016	9:38	63	69.3	72.6	64.5	84.6	63.0	Tiling	tile cutting 75-77dB, EWP in area 10, equipment movement near Stair 10 (84dB)
Ad hoc	1	Thursday, 17 March 2016	11:53	65	74.4	76.1	64.2	98.6	60.6	Drilling into aluminium	Spot check in Area 7 - works considered to be very noisy. Methodology for works changed to minimise noise.
WE43	1	Saturday, 23 April 2016	5:27	66	80.9	82.7	73.1	103.2	66.5	Tile Demolition	Demolition of tiles near area 10 and area 7, platform 3/4 – General construction noise, some hammering, EWPs operating, jack hammers
WE43	1	Saturday, 23 April 2016	5:45	67	81.6	83.0	73.0	106.3	66.6	Tile Demolition	Demolition of tiles near area 10 and area 7, platform 3/4 – General demo noise, some hammering, EWPs operating, jack hammers
WE43	2	Saturday, 23 April 2016	6:11	68	77.6	81.1	68.4	93.6	64.2	Tile Demolition	Demolition of tiles near area 10 and area 7, platform 3/4 - General demo noise, some hammering, EWPs operating, jack hammers
WE43	2	Saturday, 23 April 2016	6:31	69	78.7	83.4	67.4	92.9	63.3	Tile Demolition	Demolition of tiles near area 10 and area 7, platform 3/4 - General demo noise, some hammering, EWPs operating, jack hammers
WE43	3	Saturday, 23 April 2016	6:56	70	66.2	69.5	58.0	81.5	54.3	Tile Demolition	Demolition of tiles near area 10 and area 7, platform 3/4 - Some demo noise, EWPs operating and movement of material from demo sites, laying tiles
WE43	3	Saturday, 23 April 2016	7:14	71	70.3	72.8	60.5	93.9	57.5	Tile Demolition	Demolition of tiles near area 10 and area 7, platform 3/4 - Some demo noise, EWPs operating and movement of material from demo sites, laying tiles

