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Carolyn Riley
Director Environment, Sustainability and Planning
Sydney Metro
Transport for NSW
PO Box K659

16 May 2020

170801-SM-Apr 2020

Dear Carolyn

RE: Sydney Metro City & South West ER Project Management Status Report - April 2020

In accordance with:

HAYMARKET NSW 1240

- Condition A24 (I) of the Sydney Metro City & South West Chatswood to Sydenham CSSI 15_7400 Approval (9 January 2017) and associated modifications (MOD1_Victoria Cross and Artarmon (18 October 2017), MOD2_Central Walk (21 December 2017), MOD4_Sydenham Station and Metro Facility South (13 December 2017), MOD 3_ Martin Place Metro Station (22 March 2018), MOD 5_Blues Point Acoustic Shed (2 November 2018) and MOD 6_ Administrative Changes (21 February 2019);
- Condition A26(j) of the Sydney Metro Sydenham to Bankstown Upgrade SSI_8256 Approval (12 December 2018); and
- PROFESSIONAL SERVICES CONTRACT PSC No.00013/10897 Independent Environmental Representative City & Southwest between Transport for NSW and Healthy Buildings International Pty Ltd (HBI) (18 January 2017).

This report provides a summary of key assurance activities undertaken by HBI as ER for Sydney Metro—City and South West for the month of April 2020 (Attachment A). Please refer to A.1 for the Core Focus Area review conducted at the end of the reporting period. This summary highlights aspects of each work package that we believe require action to mitigate an actual or potential risk of non compliance with the Conditions of Approval.

Please refer to A.2 for a Summary of Key Construction Activities conducted during this period. This should be read in conjunction with the ER summary to provide context.

It is recommended that any items marked as OPEN in the Core Focus Area Review summary be reviewed by Sydney Metro and actioned as appropriate.

Yours sincerely

Jo Robertson

Project Director

Cc. SM: Hugh Chapman, Matt Marrinan, Ben Armstrong, Fil Cerone, Andrew Hendy, Chris Berg, Pam Tummers, Ann Paterson ERs: Michael Woolley, Jo Heltborg, Peter Hatton. IEA: Larry Weiss, Julie Dickson

Attachment A: Key Compliance Assurance Activities

Summary of Contract Packages	Environmental F	Environmental Representative/s		
Tunnel and Station Excavation (TSE)	Michael Woolley	Jo Robertson		
Martin Place Unsolicited Proposal (USP) Macquarie Bank/Lendlease	Michael Woolley	Jo Robertson		
Sydenham Station Junction (SSJ) (Early Works and Main works)	Jo Heltborg	Jo Robertson		
Northern Corridor (NCW) (Early Works package)	Peter Hatton	Jo Robertson		
Central Station (Early Works and Main Works)	Michael Woolley	Jo Robertson		
SSC – Southwest Metro Enabling Works (SMEW was S2B)	Jo Robertson	Jo Heltborg		
SSC – Line Wide	Peter Hatton	Jo Robertson		

ER Compliance	Assurance Activities
Site Inspections	
TSE (including	Prior to the scheduled ER Inspection on 24 March, JHCPBG informed the ER that site access was no
Clyde Barging	longer going to be provided for the ER due to risk management measures in relation to COVID-19. On
Facility)	this basis no on site inspections were performed by the ER during April. In the place of each weekly ER
	inspection, JHCPBG conducted a site inspection and prepared an inspection report. The reports were
	issued to the ER and Sydney Metro as a Draft. A virtual conference meeting between JHCPBG, Sydney
	Metro and the ER was held weekly to go through the report, with JHCPBG environmental personnel
	providing details on the status of works; environmental risks and actions identified during the inspection;
	and responded to questions and enquiries from the ER and Sydney Metro. JHCPBG then updated the report following the feedback and a final report was issued to the ER in the week of the inspection. The
	report covered the close out of pre-existing ER and JHCPBG Actions (where agreed to by the ER based on
	evidence provided and discussed during the video conference).
	Further to this, the ER conducted an inspection of the majority of sites from outside the project boundary
	on 27 April. Issues identified through this process were communicated to JHCPBG and Sydney Metro.
	No formal report was generated by this inspection process.
	Actions identified during the inspections covered issues such as ERSED management; management of
	tracking onto roads at exits; dust management; and bunding of fuels and chemicals.
USP/ISD	Lendlease restricted ER access to the Martin Place North site in response to risks related to COVID-19. In
Martin Place	the place of the ER Inspections, Lendlease has provided internal inspection reports. These contain
	photos of the worksite; commentary on work activities and a checklist of aspects covered during the inspection. During regular meetings with Lendlease and Sydney Metro, a description of site works and
	activities was provided. No new actions were defined for the reporting period.
VC-ISD	Nil Inspections conducted.
CN-ISD	Nil Inspections conducted.
WL-ISD	Nil Inspections conducted.
SSJ	There were three inspections conducted by the ER in April 2020. The key issues identified during the
	inspections were:
	■ CRS Works Area – Minor ERSED issue
	 Confluence Area – The risk of sediment-laden runoff from this area was heightened due to the lining
	coming loose from batters, exposing bare earth. Runoff from this area would be uncontrolled into
	Sydenham Pit.
	Geotech Area – Incorrect packaged fuel storage (jerry cans)
	Burrows Ave — Sediment and building debris were observed in the gutters. Pailway Rda — Debris and litter, including signs the butter bad assumulated at a small stormwater.
	 Railway Pde – Debris and litter, including cigarette butts had accumulated at a small stormwater diversion pipe in the gutter adjacent to Platform 1.
	 Hogan Ave – Damage to the roots of a tree on the corner of Hogan Ave and Burrows Ave was
	observed, likely to have occurred during recent Ausgrid trenching works.
	 Ongoing issues were identified at Garden Street and 11 Sydenham Rd.
	 Garden Street: The bitumen surface at the lower end of Garden St had become unstable
	from heavy vehicle movements, presenting an increased risk of sediment-laden runoff

	offsite, and tracking onto public roads. Water pooling on site has been contributing to this issue. JHLOR have engaged an ERSED specialist to provide options for implementation in this area.
	o 11 Sydenham Rd: Stockpiles remain uncovered. JHLOR are waiting for the right conditions
Cambual	to apply soil binder.
Central	There were two ER inspections conducted in April 2020. The key issues discussed at these inspections
Station	were:
	Street sweeper in metro box not fitted with squawker reversing beeper. Contractor to ensure it
	conforms to Section 8 of the CNVMP
	Sydney Yard: Internal sediment protection curtain on stormwater drain has become dislodged
NCW	There were no ER inspections conducted in April 2020
Line Wide	There were two inspections in April 2020 for SMTF. The key issues discussed at these inspections were: Waste management and segregation, temporary use of Tallawong Metro Station commuter car park by construction worker vehicles, sediment basin management, dust control, change from fortnightly to
	monthly inspection regime at SMTF. No other Line Wide area inspections in April.
TSOM	No inspections during the reporting period.
S2B (SMEW)	There were two ER inspections conducted in April 2020. Issues identified were related to minor ERSED
	controls and investigation of an out of hour's noise complaint. The site is being well managed.
Meetings	
ER/ DPIE	The following meetings with DPIE were attended by the ER:
Interface	■ 30/04/20
ER/Others	The following project meetings were attended by the ERs:
Interface	■ Sydney Metro – Nil
	■ TSE - 08/04/20; 28/04/20; 30/04/20
	■ MP ISD – 24/04/20; 29/04/20
	■ VIC ISD – 24/04/20
	WL ISD – 14/04/20; 22/04/20; 28/04/20
	NCW - 06/04/20
	Central – 08/04/20; 15/04/20; 22/04/20
	SSJ – 02/04/20; 16/04/20; 30/04/20
	SMEW - 07/04/20; 14/04/20; 21/04/20
	Line Wide – 08/04/20
Documents Bro	
	pared, Reviewed or Endorsed
Sydney Metro	OOHW Strategy Protocol R5.0 ER endorsement 160420 (and associated AA endorsement)
TSE (including	 Extension to the Pitt Street and Martin Place Out of Hours permit for sewer investigations
Clyde Barging	
Facility)	
USP/ ISD-	OOH 32 Hoardings and site sheds
Martin Place	OOH 34 Extension of Hoardings work
iviai tiii Fiace	<u>-</u>
	Con 33 hoursing work
VIC ISD	 MP-ISD EHS Plan (to replace CEMP) VC-ISD Heritage Management Plan Rev A
CN ISD Crows	Site Establishment MWA
Nest	Crane Installation MWA (Revision No 2)
	Site Establishment EWA - Revised following comment
	Crane Installation MWA Revised
WL ISD	No endorsed plans - various draft sub plans under review
SSJ	Construction Environmental Management Plan Rev 10
	Construction Heritage Management Plan Rev 7
	Air Quality Management Plan Rev 8
	Construction Soil and Water Management Plan Rev 8
Central	CTR for Q4 2019
Central	- CIT IOI Q4 2013

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Station	Central Walk RAP
NCW	Nil this reporting period
Line Wide	 SMCSW SH2W Construction Noise and Vibration Impact Statement 2 Rev0
	 SMCSW CA BPS Routes to Artarmon and Waterloo SS Rev1.2
	■ CSW SHBPS CNVIS r6 Rev1
	■ CSW ASBPS CNVIS r3 Rev0
	■ CSW CNVIS SHBPS R3 Rev0
	CSW SH2W CNVIS R5 Rev0
	■ CSW NCW CNVIS 5 Rev0
	■ CSW SMTF CTMP 3 Rev0
	■ CSW SH2W CNVIS 2 Rev0
	 AFA-001_SS18256_S2B Ancillary Facility _Approved-ER Endorse Rev1
	■ CSW NCWAFMP A Rev0
TSOM	Minor Works Approval
S2B (SMEW)	 SMEW Visual Amenity Management Plan R3 and R4
	 SMEW - Construction Monitoring Report Aug-Jan (Rev 1, 2 and 3)
	 MWA007 (Utility and Sanitary Pipe Investigations at Belmore, Marrickville and Lakemba stations
	precinct) ER approved
	 SWM OOH 6 - Sanitary Pipe Investigations at Hurlstone Park, Campsie and Belmore stations
	 Metron T2M Vegetation Trimming Minor Works Approval (SMDS CMW08_Final_Rev.00_01.04.2020)
	 Metron T2M, Design clash review: Threatened Ecological Communities and Native Plant
	Communities, Sydney Metro Southwest Metro Design Services
Compliance Tra	acking Program Reporting
Sydney Metro	 Review of Notifications issued on 15-4-20
TSE	Nil activity
MP ISD	■ Nil activity
CN ISD	Nil activity
VIC ISD	Nil activity
SSJ	SSJ CTR Q1 2020 - verification of evidence
	 CTR Review process, including team meeting
	 Focus on sustainability REMMs (SUS1-SUS9)
Central	Contractor response to CTR requests from MCW
Station	 Review of re-issued CTR for Q4 2019
	 Discussion with SM on obtaining documents from CSMW; development of list of documents
	required. Challenges getting information from Central PC for CTR
	 Issue comments back to SM on CTR Spreadsheet issued 8-4-20
NCW	Review Q1 2020 CTR Spreadsheet
Line Wide	Review PCCR for C2S and S2B
	Review Q1 2020 CTR Spreadsheet
S2B (SMEW)	■ SSJT1B - CTR Q1 Initial issue
Complaints/ In	cidents / Non-compliances
Sydney Metro	Complaints received for Sydney Metro works are included in complaint summaries provided to DPIE
, ,	daily.
	There were no incidents reported by Sydney Metro for Sydney Metro conducted works as defined by the
	project approval definition for incidents reported to DPIE under condition A41.
TSE (including	It is understood that Sydney Metro has been providing summaries of complaints to DPIE
Clyde Barging	daily. Responses to each complaint have been noted in each complaint report provided to the ER, with
Facility)	follow up actions often defined in revised reports.
[Two minor hydraulic oil spills were reported by JHCPBG during the period. JHCPBG reported one
	instance of emergency works required at Northern Corridor works on 15 April to enable completion of
	the concrete pour for a pile. Works were completed by 6:45pm and no complaints were reported from
	the works.
	There were no incidents reported by JHCPBG as defined by the project approval definition for incidents
	under condition A41.
L	

Martin Place There were no incidents reported by Lend Lease as defined by the project approval definition for incidents under condition A41. On Saturday 18 April 2020 and Tuesday 21 April, Lendlease advised there were exceedances of the 7.5mm/s vibration screening criteria for works adjacent to 50 Martin Place. In both instances Lendlease reported that they ceased works; reviewed the methodology, and proceeded using alternative methods. No Complaints, incidents or non compliances were reported to the ER during the reporting period. No complaints, incidents or non compliances were reported to the ER during the reporting period. WLISD No complaints, incidents or non compliances were reported to the ER during the reporting period. WLISD There were no incidents for SSI reported to the ER under conditions A41 to A44 of SSI 7400. There were no incidents for SSI reported to the ER under conditions A41 to A44 of SSI 7400. There were no non-compliances raised for SSI during period. The complaint related to noise during out of hours works during installation of a beam on Platform 5, Sydenham Station. JHLOR confirmed noise levels were within the range predicted during modelling. Central Station The complaint relating to sopid trucks was investigated by LOR and haul trucks were found to have used local roads not approved as haulage routes in the CTMP for Central Station. LOR issued a Non Conformance Report for this event. There were no incidents for SSI reported to the ER under conditions A41 to A44 of SSI 7400. NCW Complaints received during this period related to noise and flashing lights during possession and associated respite. The ER is not aware of any non compliances. There were no incidents reported to the ER under conditions A41 to A44 of SSI 7400. Line Wide Complaints received during this period related to noisy night work on Albion St (Surry Hills 33ky) There was a minor fuel spill from a jerry can. The ER is not aware of any non compliances. A complaint received during this period for noise and vi	USP/ISD	No complaints were reported to the ER that related to the MP-ISD project.
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Martin Place Management of noise, vibration and dust during bulk excavation activities ISD	12F	
ISD	NA	
Victoria ISD • Nil	Martin Place ISD	 Management of noise, vibration and dust during bulk excavation activities
	Victoria ISD	■ Nil

Crows Nest	■ Nil
ISD	
WL-ISD	 Review of draft CEMP, Procedures, Sub-plans, and Low Impact works
SSJ	■ The potential to encounter groundwater during excavations for an underbore from 11 Sydenham
	Road to Hogan Ave.
	 Potential environmental impacts from culvert tie-in works at the triangle area.
	 Management of ERSED controls generally, including stockpile management at 11 Sydenham Rd, and
	damage to surfaces and tracking at Garden Street.
	 The compliant storage of hazardous chemicals, including fuel.
	 Completion of station structures and noise impacts during OOHW.
	■ Compliance review Q1 2020.
Central	 Compliance reviews to be completed
Station	 Noise and vibration management at the Eastern Entrance
	■ Finalisation of compliance review Q4 2019
NCW	 LORAC contract completes 30 June. Ensure site rehabilitation activities completed to required
	standard.
Line Wide	 SMTF (North) construction site works, especially dust management
	 Surry Hills to Waterloo 33 kV works
	 Cumulative impacts from adjacent projects
	 Noise and vibration management during OOHW for construction of portal between Chatswood and Artarmon
	 Stakeholder engagement during transition/ handover between construction contractors
	 Noise and vibration management during construction of 33 kV BPS from Campsie to Canterbury as
	well as resident access disruption and traffic management
	Compliance review Q1 2020
TSOM	Compliance with LWW Construction Traffic Management Plan
S2B (SMEW)	 Environmental controls associated with saw nailing soon to commence in proximity to Cooks River
	 Temporary road closure works
	■ Compliance review Q1, 2020

Please refer to A.1 for the Core Focus Area Review conducted during this period.

Please refer to A.2 for a Summary of Key Construction Activities conducted during this period.

A.1: Core Focus Area Review Summary



A	В	С	D	E	F	G	н	ı	j
Date Raised	Project	Site or Work Package	Core Focus Area	Approval	Applicable Condition / REMM	Background/Minimum requirement	Compliance Status	Risk/Recommendations	Issues Status
1 May-20	Sydney Metro	ALL	Utilities Mgt Strategy	SSI 17_8256	A26	The approval requires specific documents must be endorsed by the ER prior to submission to the DPIE Secretary for approval.	Non Compliant	It have been identified that the LWW UMS was submitted to the Seretary without ER review, comment or endorsment. This is a non compliance. The document has been approved by DPIE however. Investifgations into this indicated that the Staging Report is also currently incorrect in realtion to E71 (UMS condition).	Open
May-20	CSW	SSJ	Water Management	SSI 15_7400	E107	The CSSI must be constructed and operated so as to maintain the NSW Water Quality Objectives where they are being achieved as at the date of this approval, and contribute towards achievement of the NSW Water Quality Objectives over time where they are not being achieved as at the date of this approval, unless an EPL in force in respect of the CSSI contains different requirements in relation to the NSW Water Quality Objectives, in which case those requirements must be compiled with.	On-going	Hydrostatic testing for the aqueduct over Sydenham Pit is proposed, likely to be conducted in conjunction with the planned outage on 24 June 2020. Water from the pit is proposed to be reused to fill the aqueduct (*4_3ML). This will involve turning the pit pumps off for "5 days; testing for TSS, pH & oil/grease prior to pumping into the aqueduct, and prior to pumping back into the pit. Environmental risks associated with this activity include (but are not limited to): potential health impacts from the reuse of water from within the pit; uncontrolled release of a large volume of water; and water quality discharge parameters unable to be achieved.	Open
May-20	CSW	SSJ	Water Management	SSI 15_7400	E107	The CSSI must be constructed and operated so as to maintain the NSW Water Quality Objectives where they are being achieved as at the date of this approval, and contribute towards achievement of the NSW Water Quality Objectives over time where they are not being achieved as at the date of this approval, unless an EVI in force in respect of the CSSI contains different requirements in relation to the NSW Water Quality Objectives, in which case those requirements must be compiled with.	On-going	Excavation and stockpilling in preparation for construction of a temporary upstream connection/diversion from the Eastern Channel to the confluence area has commenced. This connection will divert water from the existing channel to the confluence structure temporaryid during tie-in-works of the new culverls to the existing stommwater system at the Sydenham triangle area. Works at the temporary upstream connection interface with the TSE project site, and some works are being conducted within the TSE site. JHLOR are in communication with CPBIHG to ensure ERSED controls are in place in this area to reduce uncontrolled runoff from the TSE site into the confluence structure. Potential issues also exist with the premise map boundaries between the two sites, responsibilities etc., which are being confirmed and discussed between the contractors.	Open
May-20	CSW	SSJ	Trees	SSI 15_7400		The CSSI must be designed to retain as many trees as possible and provide replacement trees such that there is a net increase in the number of trees. The Proponent must commission an independent, experienced and suitably qualified arborist to prepare a comprehensive Tree Report before removing any trees as detailed in the EIs, as amended by the documents listed in AI. The Tree Report must include: (a) a description of the conditions of the tree(s) and its amenity and visual value; (b) consideration of all options to avoid tree removal, including relocation of services, redesign or relocation of ancillary components (such as substations, fencing etc.) and reduction of standard offsets to underground services; and (c) measures to avoid tree removal, minimize damage (e), and ensure the health and stability of those trees to be retained and protected. This includes details of any proposed canopy or root pruning, root protection zone, excavation, site controls on waste disposal, vehicular access, materials storage and protection of public utilities. In the event that tree removal cannot be avoided, then replacement trees are to be planted within, or in close proximity to the CSSI or other location in consultation with the relevant Councils and gareed by the Sceretary. The size of the replacement trees will be determined in consultation with the relevant Councils and gareed by the Sceretary. The size of the replacement trees will be determined in consultation with the relevant Councils and gareed by the Sceretary. The size of the replacement trees will be determined in Proponent, unless otherwise agreed by the Sceretary. The size of the replacement of the Tree Report must be implemented by the Proponent, unless otherwise agreed by the Sceretary. The Tree Report may be prepared for the entire CSSI or separate reports may be prepared for individual areas where tree removal and/or pruning is proposed.	On-going	There is a risk that negotiations between JHLORIV / Sydney Metro and the Inner West Council (IWC) may not result in an agreement that compiles with the requirements of Condition E6. There has been no resolution received from IWC or the matter of suitable tree replacement locations and methods since late 2019.	Open
May-20	CSW	SSI	Flooding	SSI 15_7400		Measures identified in Chapter 11 of the PIR to maintain or improve flood characteristics, as amended by the documents listed in A1, must be incorporated into the detailed design of the CSS. The incorporation of these measures into the detailed design, including modelling, must be reviewed and endorsed by a suitably qualified and experienced person in consultation with directly affected landowners and businesses, Sydney Water, DPI Water, DEH, NSW State Emergency Services (SES) and Relevant Councils. Flood information including flood reports, models and geographic information system outputs, and work as executed information from a registere surveyor certifying finished ground levels and the dimensions and finished levels of all structures within the flood prone land, must be provided to the relevant Councils, Sydney Water, DEH and the SES must be notified in writing that the information is available no later than one month following the completion of construction and be provided with that information. Information requested by the relevant Council, Sydney Water, DEH and the SES must be flooring the completion of construction or within another timeframe agreed with the Relevant Council(s), Sydney Water, OEH and the SES.	On-going On-going	The Flood model is to inform the SSI design parameters for flooding infrastructure that originate outside of the corridor into Sydney Water culverts or the Sydenham Pit. The SSI design has been iteratively developed in line with the Sydney Metero flood model, and the final flood model will be finalised and reported as part of Design Package 200. Flood modelling is still under development. While consultation has been completed, IWC have still not addressed and dosed comments. The revised report has not been issued, which has been ongoing since late 2019.	Open
May-20	CSW	SSJ	Air Quality Management Soils	SSI 15_7400	E5 AQ4 / AQ7 E65 / SCW3	In addition to the performance outcomes, commitments and mitigation measures specified in PiR, all reasonably practicable measures must be implemented to minimise the emission of dust and other air pollutants during the construction and operation of the CSSI. Hard surfaces would be installed on long term haul routes and regularly cleaned / Stockpiles would be managed to minimise dust generation. All reasonably practicable erosion and sediment controls must be installed and appropriately maintained to minimise any water pollution. When implementing such controls, and relevant guidance in the Managing Urban Stormwater Series must be considered.	On-going On-going	Ongoing issues have been identified with the stabilisation of the Garden Street access (to 11 Sydenham Rd). The bitumen surface at the lower end of Garden St was becoming unstable from heavy vehicle movements. The majority of the area forms an exposed surface, presenting an increased risk of sediment-laden runoff offsite. Recommendations by an ERSED consultant included stabilisation with lime, alternatively pre-stabilised DGB could be used. Stockpiles at 11 Sydenham Rd have remained uncovered for several months, pending suitable conditions for the application of available soil binder. There is a risk that stockpile management will be non-compliant with AQ7, though it is noted that the stockpiles have not been observed as a major source of dust during ER inspections to date. The implementation of actions in this area is dependent on the work schedule (i.e. how long works will be active in this area), and on the final design, which is currently unknown. It is noted that ERSED controls have been replaced as recommended during ER inspections, though a more suitable solution for the stabilisation of this area is pending.	Open
May-20	CSW	TSE	ERSED	SSI_15_7400	C9	Works are being undertaken in the wharf area of Barangaroo to demobilise the foreshore area currently containing the Slurry Treatment Plant; acoustic shed; Water Treatment Plant and large area of concrete slabs. Due to the proximity to the harbour this is higher than normal risk for such works.	On-going	Ongoing surveillance of works is required, however very difficult due to restriction of ER's to go on site. There is high reliance on JHCPBG to report on the controls in the area under new inspection regime.	Open

Appendix A.1 Core Focus Area Summary April 2020 Final



CSW	TSE No	D oise and Vibration	SSI 15 7400	F C9	G	H	1	J
2344	IJL NO	ouse office vibration			Noise and Vibration Management Plan	On-going	Piles are soon to be demolished at the NCW adjacent the Chatswood site and close to houses. This is a sensitive area	Open
			331_13_7400	C3	TOOLS AND THE ORIGINATION OF THE ORIGINAL OF THE ORIGINAL ORIGINA ORIGINAL ORIGINA ORIGINA ORIGINA ORIGINA ORIGINA ORIGI	Oll-going	and hammering comes after significant piling works.	Open
CSW	TSE No	oise and Vibration	SSI_15_7400	C9	Noise and Vibration Management Plan	On-going	Works have commenced to remove the piles for the wharf at Blues Point. These works will be largely completed at night and may have some noise impacts to local residents.	Open
CSW	ALL	ER Inspections	All	A24	A number of contractors have introduced measures to limit inspections due to COVID 19. This potentially means that the proponent (and its contractors) are not compliant with the ER inspection requirements.	On-going	SM, ER's and Contractors need to work together to determine alternatives to the ER Site Inspections so as to verify implementation compliance on sites, and remain compliant with DPIEs expectations of the ER.	Open
							Update: 21-4-20: Inspections are continuing on work packages however the approach has been modified to reflect COVID 19 requirements. The approach take varies slightly from site to site to reflect the ability of the inspection team to maintain safe working distances, and the position of the Principal Contractors with respect to the duty of care at each site.	
							I will be important to re-establish pre Covid processes when safe to do so to maintain compliance with approved CEMPs, the Compliance Tracking Program, etc.	
CSW	LWW Tra	affic and Transport	SSI_8256	E51	During construction, all reasonably practicable measures must be implemented to maintain pedestrian and vehicular access to, and parking in the vicinity of, businesses and affected properties. Disruptions are to be avoided, and where avoidance is not possible, minimised. Where disruption	On-going	There is a risk that requirements of the MCoA may not be complied with during construction of the C2C BPS.	Open
					cannot be minimised, alternative pedestrian and vehicular access must be provided, and opportunities for parking arrangements must be investigated in consultation with		Communication problems in this section will be exacerbated by the significant numbers of non-English speaking residents of affected properties.	
					affected businesses/properties and implemented before the disruption. Adequate signage and directions to businesses/properties must be provided before, and for the duration of, any disruption.		The ER will carefully monitor community complaints and response by the Contractor	
CSW			SSI_8256	E4	The CSSI must be designed to retain as many trees as possible. Where trees are to be removed, the Proponent must provide a 2:1 ratio replacement of trees. Replacement trees must be planted within the project boundary or on public land up to 500 metres from the project boundary.	On-going	There is a risk that negotiations between the Contractor and relevant local councils may not result in an agreement that complies with the requirements of the MCoA.	Open
					Replacement tree plantings can be undertaken beyond 500 metres on public land within the local government areas to which the CSSI approval applies if requested by the relevant council(s) or where no more practicable land for planting can be found within and up to 500 metres from the CSSI boundary. The location of replacement trees must be determined in consultation with the relevant council(s).		This applies particularly to the C2C BPS construction	
CSW			SSI_8256	E6	Replacement trees are to have a minimum pot size of 75 litres except where the plantings are consistent with the pot sizes specified in a relevant council's plans / programs / strategies for vegetation management, street planting, or open space landscaping, or as agreed by the relevant	On-going	There is a risk that negotiations between the Contractor and relevant local councils may not result in an agreement that complies with the requirements of the MCoA	Open
					council. In areas not subject to council plans / programs / strategies, pot sizes should be informed through consultation with the relevant council(s).		This applies particularly to the C2C BPS construction	
CSW	SSJ	Groundwater	SSI 15_7400	GWG1	If groundwater is encountered during the project, it must be managed in accordance with the requirements of the Department of Primary Industries (Water).	On-going	Update May 2020- Investigations in the traffic triangle area between 11 Sydenham Road and Sydenham Station Platforms 1 and 2 have now confirmed groundwater is unlikely to be impacted by proposed excavation and culvert connection works.	Open
							An underbore is also proposed down-gradient of this location, near the entrance to 11 Sydenham Road. The underbore will extend under the rail corridor to Hogan Ave. Approximate depth 5.5mbgl. It is possible that groundwater will be encountered in this location. Further investigations are required in this area, likely to be conducted by ADE in the complements.	
							The investigations conclude that groundwater is likely to be encountered during underbore works, consultation with DPI (Water) may be required, and currently inactive groundwater REMMs for the project site may be required to be	
C	SW	SW LWW De	SW LWW Traffic and Transport SW LWW Design - Tree Removal and Replacement SW LWW Design - Tree Removal and Replacement	SW LWW Traffic and Transport SSI_8256 SW LWW Design -Tree Removal and Replacement SSI_8256 SW LWW Design -Tree Removal and Replacement SSI_8256	SW LWW Traffic and Transport SSI_8256 E51 SW LWW Design -Tree Removal and Replacement SSI_8256 E6 SW LWW Design -Tree Removal and Replacement SSI_8256 E6	Contractors) are not compliant with the ER inspection requirements. During construction, all reasonably practicable measures must be implemented to maintain pedestrian and vehicular access to, and parking in the vicinity of, businesses and affected properties. Disruptions are to be avoided, and where avoidance is not possible, minimised. Where disruption cannot be minimised, alternative pedestrian and vehicular access must be provided, and opportunities for parking arrangements must be investigated in consultation with affected businesses/properties and implemented before the disruption. Adequate signage and directions to businesses/properties must be provided before, and for the duration of, any disruption. Design-Tree Removal and Replacement The CSSI must be designed to retain as many trees as possible. Where trees are to be removed, the Proponent must provide a 2:1 ratio replacement of trees. Replacement trees must be planted within the project boundary or on public land up to 500 metres from the project boundary. Replacement replantings can be undertaken beyond 500 metres on public land within the local government areas to which the CSSI approval applies if requested by the relevant council(s) or where no more practicable land for planting can be found within and up to 500 metres from the CSSI boundary. The location of replacement trees must be determined in consultation with the relevant council(s). E6 Replacement trees are to have a minimum pot size of 75 litres except where the plantings are consistent with the pot sizes specified in a relevant council(s) and Replacement SSI_8256 E6 Replacement trees are to have a minimum pot size of 75 litres except where the plantings or open space landscaping, or as agreed by the relevant council. In areas not subject to council plans / programs / strategies, pot sizes should be informed through consultation with the relevant council(s).	Contractors) are not compliant with the ER inspection requirements. During construction, all reasonably practicable measures must be implemented to maintain pedestrian and vehicular access to, and parking in the vicinity of, businesses and affected properties. Disruptions are to be avoided, and where avoidance is not possible, minimised. Where disruption cannot be minimised, alternative pedestrian and vehicular access to may be provided be for parking arrangements must be investigated in consultation with affected businesses must be provided and opportunities for parking arrangements must be investigated in consultation with affected businesses/properties and implemented before the disruption. Adequate signage and directions to businesses/properties must be provided before, and for the duration of, any disruption. We begin -Tree Removal and Replacement for the season of the duration of, any disruption. The CSSI must be designed to retain as many trees as possible. Where trees are to be removed, the Proponent must provide a 2:1 ratio replacement of trees. Replacement trees must be planted within the project boundary or on public land up to 500 metres from the project boundary. Replacement free plantings can be undertaken beyond 500 metres on public land within the local government areas to which the CSSI approval applies if requested by the relevant council(s) or where no more practicable land for planting can be found within and up to 500 metres from the CSSI boundary. The location of replacement trees must be determined in consultation with the relevant council(s). We begin -Tree Removal and Replacement Design -Tree Removal and Replacement Replacement free plantings can be undertaken beyond 500 metres on public land up to 500 metres from the CSSI boundary. The location of replacement trees must be determined in consultation with the planting are consistent with the post sizes specified in a relevant council plans plants programs / strategies for vegetation management, street planting, or open space land	All A Ammber of confactors law interoperations and the programmer (and its contribution or all the programmer (and its contribution). All A A A mander of confactors law interoperation or all the programmer (and its contribution) are not complaint with the fit impaction requirements. On going implementation complained with fits specified on the fits. Using the programmer in the pro

Appendix A.1 Core Focus Area Summany April 2020 Final

Attachment A.2: Summary of Key Construction Activities

Summary of Key Construction Activities

TSE

Chatswood:

- Works in the dive continuing including wall construction for future plank installation
- Water treatment plant operation

Chatswood NCW:

- Road access in use for JHCPBG and Line Wide Contractors to the north of Mowbray Bridge.
- Ongoing construction of a piling pad using a vibratory roller adjacent Nelson Street in the rail corridor.
 Piling works ongoing in the same area

Crows Nest site:

Cross passage construction support and other works in the station box

Victoria Cross North site:

- Ongoing works in the cavern including concrete lining and formwork
- Hammering of base of shaft
- Stockpiling and load out of spoil by trucks ongoing
- Water treatment plant operation. Concrete deliveries for concrete pours

Victoria Cross South site:

- Piling works
- Excavation of sandstone using rock hammers
- Support activities

Blues Point Temporary:

Ongoing removal of Sydney Harbour TBM

Barangaroo Station:

- Slurry and grout plant demobilisation
- Lining of station box ongoing, and laying of concrete base

Martin Place Station-South:

- Ongoing excavation of the pedestrian adit pillar supports; removal of spoil using kibble and crane.
 Installation of concrete for wall and roof support
- Excavation of shaft to the ESR using small roadheader (24/7 operation) with scrubber unit
- Excavation of southern portion of site and removal of spoil

Pitt Street North:

- Ongoing excavation of sandstone and installation of wall supports. Spoil removal via Bligh Street
- Tunnel lining support.
- Ongoing hoarding installation
- Installation of scaffolding around the acoustic shed. Commencement of demolition of the shed

Pitt Street South:

- Ongoing excavation of sandstone and wall support. Spoil removal using Metro deck
- Construction of shear wall ongoing

Waterloo

- Cross passage works ongoing and supported from Waterloo including concrete deliveries
- Excavation of the concrete base and removal of waste concrete

Marrickville dive site:

- Ongoing excavation in the dive
- WTP operational
- Spoil generation, stockpiling and load-out
- Ongoing Transgrid works.

Marrickville stabling yard

- Concrete slab removal ongoing
- Piling along the side of the culvert ongoing
- Bulk earthworks for stabling yard and culvert construction
- Pouring of base slab for culvert

MP – USP/ ISD

- Ongoing excavation of sandstone and removal via Bligh Street
 - Underpinning works under 50 Martin Place
 - Hoarding and site shed installation

HBI

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VIC-ISD	No works reported to the ER as having been undertaken
CN-ISD	No works reported to the ER as having been undertaken
WL-ISD	No works undertaken
SSJ	Geotechnical Area - Retaining wall construction in the rail corridor ongoing
	 Burrows Ave/ Platform 6 - Demolition of the Platform 6 building including salvage of heritage items
	Concourse and Platforms 4, 5 & 6 - Installation of roof flashing, balustrades, canopies and glazing beams;
	requiring lane closure along Burrows Ave between Hogan & Gleeson Ave
	Bolton St / Hogan Ave – Ausgrid service / trenching works were undertaken over two nights the week of 13-17 April and 2 nights the week of 27-30 April
	 Platforms 1&2 – Northern end of Platforms 1 & 2 demolished (asbestos contamination in soil). Excavation,
	levelling and piling works for new Sydney Metro platforms and lifts shafts was ongoing
	■ 11 Sydenham Rd — Backfilling and joining of precast lower culvert cells. Construction of new temporary haul
	road through the centre of the site complete and in use. New pedestrian crossing and traffic light work on
	Sydenham Rd (limited to pram ramps and footpath restoration). Construction of retaining wall adjacent to
	Sydenham Pit ongoing; Sewer installation works
	 11 Sydenham Rd traffic triangle area –Demolition of wall between mid-culverts and triangle and
	commencement of excavation of the triangle area in preparation for culvert tie-in (scheduled end May
	2020). Under bore planned from entrance to 11 Sydenham Rd extending under the rail corridor to Hogan
	Ave (Sep-Oct 2020); potential to encounter groundwater remains and is to be confirmed during proposed investigation works
	 Sydenham Pit and Pumping Station – Works continuing on the aqueduct including formwork, reo, strip
	scaffold and sand pours. Installation of precast on top of the aqueduct
	 Confluence Area – Construction of walls and overflow structure, including concrete pours and
	erection/stripping of formwork
CSMW	Spoil trucks and other vehicles using SYAB
	 Metro Box (north of and including the exposed Y pedestrian tunnel) - Truck movements; spoil excavation;
	air treatment; sweeping of haul road. Ongoing excavation and construction activities. Tower crane
	installation
	 Metro Box and Sydney Yard (south of the exposed Y pedestrian tunnel) Water Treatment Plant Operation;
	truck access; laydown. Crushing and stockpile of excavated material Northern Concourse - Column mould and treehead installation, treehead propping installation on NS
	concourse, column reinforcement installation, general site clean up
	 Platform 16 to 23 - Recent possession works. Various canopy load transfer; tracks slab and other works
	 Eastern Entrance - Removal of pile mat, load out, excavation around piles and ground support, pile coring,
	binding concrete, welding for temporary deck
	 Ongoing support for CSR works including stockpiling of spoil; laydown for equipment; crib shed. Some use
	of area by Sydney Trains
	Ongoing GST construction along Darling Harbour Goods line
	Excavation under SYAB (eastern buttress) ongoing. Sheet piles installed and excavation of soils to approx.
NCW	3m so as to access existing access tunnel. Concrete pits installed. No additional heritage finds reported Installation of permanent survey plaques
INCVV	 Installation of permanent survey plaques Inspection and examination of rail wear and condition, ballast and sleepers
	 Demobilisation from Brand Street to Chatswood and Valetta Lane laydown area
LW	SMTF
	Potholing outside maintenance building
	CSR works near Tallawong Rd
	On-going construction of SER building
	 On-going work on construction of the test track / capping preparation
	 On-going emplacement of sleepers and rail in SMTF expansion areas
	Lining fence around drainage pits
	Clearing batter for rock breaking.
	Removal of old CSR Waveida factings
	 Wayside footings CSP nit investigation in various areas
	CSR pit investigation in various areas

	-	Batter detail near Tallawong Rd
	•	Construction of access platforms
	•	Works in HV RT and cable pull
	•	RTF #38 relocation
TSOM	-	Commencement of building modification works at the Operational Control Centre (OCC) at Tallawong
SMEW	•	Commencement of earth embankment at Retaining Wall 1 (RW1) involving some minor excavation and removal of material to Broughton Street
	•	Piling cutting works at Retaining Wall 2. Temporary ERSED controls in place due to delay of temporary design of the piling pad for the saw nail works