

A.C.N. 003 270 693

Suite 2.06, Level 2 29-31 Solent Circuit Norwest NSW 2153

Tel : 61 (02) 9659 5433 e-mail: <u>hbi@hbi.com.au</u> Web: www.hbi.com.au

7 June 2024 Ref:201209-ER_DPHI-May 2024

Senior Compliance Officer – Government Projects Department of Planning, Housing and Infrastructure Locked Bag 5022 PARRAMATTA NSW 2124

A.B.N. 39 003 270 693

Dear

RE: Sydney Metro - Sydney Metro Western Sydney Airport SSI 10051 – ER Monthly Report for May 2024

Healthy Buildings International (HBI) submits this report to the Secretary in accordance with:

Condition A32 (k) of the Sydney Metro Western Sydney Airport, SSI 10051 Approval (23 July 2021)

The attached summary details the key activities undertaken by Environmental Representatives for Sydney Metro Western Sydney Airport for the month of May 2024.

Yours sincerely

Environmental Representative

Cc: Sydney Metro:

DPHI: Major Projects Portal

Enclosed: ER Endorsement of SSTOM ACHMP R09 070524

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1. Advanced and Enabling Works (AEW)

Contra	act Package	Environmental Representative/s			
Advanced and Enabling Works (AEW)					
Key Co	onstruction Activities During the Perio	d			
 St 	Marys Footbridge (FSM):				
0	Piling works on platforms 1/2 and 3/4	4			
0	Installing anchors and brackets and h	noarding			
 Stockpiling material in the main compound 					
0	Asphalting disturbed ground				
Key Co	onstruction Activities Look Ahead				
The Co	onstruction activities planned for the u	pcoming period for the Advanced Enabling Works (AEW)			
compr	ise of:				
■ St	Marys Footbridge:				
0	Continuation of piling works				
0	Material loadout				
0	Excavation for footings				
ER Ins	pections				
	did rain	iring this inspection were as follows: forms was tightly controlled with contingencies in place if it ring works by moving noise blankets immediately adjacent			
0	to the hammer	The works by moving noise sidikets initiation dujucent			
0		covered and the unexpected heritage find process was			
	implemented				
0	•	on monitoring indicated that there had not been an			
	exceedance of the levels nominated	l in the CEMP			
0	ERSED controls around the compoun	d required a refresh / reinstatement			
Photos					
St Mar	ys Footbridge				

Compound - All ECMs were posted at the pre-start sign

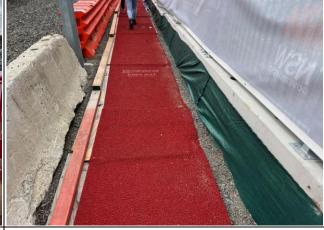
on area

Compound - The crane was being utilise to lift

construction materials over the rail line



Compound - A dedicated laydown area has been established in the main compound



Compound - The red carpet walkway was again utilised to minimise foot tracking of mud



Overpass - Works were congested as Sydney Trains were operating adjacent to FSM

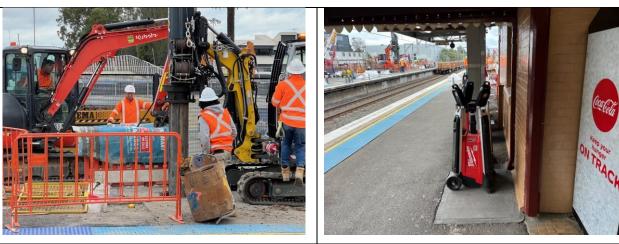


Platform 1/2 - Excavations were made to allow the installation of the hoarding brackets



Platform 1/2 - Spoil was placed adjacent to the backfill location, with black plastic to be installed as a contingency if it should rain

Platform 1/2 - Unexpected heritage finds were uncovered and were assessed by the archaeologist



Platform 3/4 - Noise blankets were set up around the hammer to minimise noise

Platform 3/4 - All items were stored off the walls of existing structures

Endorsed Document/s

The following documents were endorsed/approved by the ER (

Nil this period

The following documents were provided for information or reviewed with comments provided to Sydney Metro.

 Out-of-hours work application form- SM-WSA Weekend 47 (WE47), 18-19 May 2024 Footbridge St Marys- Site Early Works 15/05/24 (rev 4)

Complaints / Incidents / Non-compliance

No non-compliances were reported to or identified by the ER for the period.

No incidents were reported to the ER in May 2024:

No complaints were received during the period.

Audits (specific to packages reported in this report)

Nil this period

Looking Forward – Core Focus Areas

Works occurred over weekend 47 (18 and 19 May 2024). There were no complaints or monitoring exceedances. Plywood hoarding was erected that will allow the contractor to undertake works on the platform Monday – Friday 7am-6pm. Changes to the controls will need to reflect the risk change and scope of works and the ER is intending to undertake fortnightly surveillance inspections.

ER Closing Comments:

The project team has involved additional senior resources in the team, this has made a marked difference in the resolution of issues and commitment timeframes. The HVLR is also due to be updated and submitted to the Department, the ER is intending on having visibility across this document and process to ensure that a quality submission is made



2. Station Boxes and Tunnelling (SBT)

Со	Contract Package Env	ironmental Representative/s				
Sta	Station Boxes and Tunnelling (SBT)					
Ke	Key Construction Activities During the Period					
•	 Adjustments to bus interchange to gain additional area for SBT operations in the south west corner completed Tower crane erection completed 					
	 TBM 1 breakthrough Commenced TBM 1 retrieval activities 					
•	 Claremont Meadows Services Facility: Water treatment plant operating. Sediment basins operational. Storage of surplus construction materials from other northe Cross passage spoil removal Tunnel segment transfer from Orchard Hills and cranage into 					
-	 Orchard Hills: Spoil and topsoil storage. Operation and maintenance of ERSED controls. Pre-cast tunnel segment storage in the north. TBMs tunnelling progressed past area of St Marys Senior Hig Tunnel segment delivery completed Processing and storage of tunnel spoil. Tunnel Spoil haulage offsite Grout plant operation. Water treatment plant operation and disposal to trade wast 					
•	 Aerotropolis: Establishment of TBM retrieval area including construction or completed Tower crane erection completed TBM 3 breakthrough 	f concrete pads for mobile cranes				
•	 Bringelly Services Facility: Water treatment plant no longer in operation Storage of surplus construction materials from other southe Cross passage ramp soil delivery to tunnel. 	rn sites.				
	Key Construction Activities Look Ahead					
•	 St Marys: TBM 2 Breakthrough expected mid-June TBM 1 retrieval and transport offsite 					

- Claremont Meadows Services Facility:
 - Continue erosion and sediment controls operation and maintenance.
 - o Continue Water Treatment Plant operation and maintenance.
 - Storage of surplus construction materials from other northern sites.
 - Concrete deliveries outside Construction Hours.
- Orchard Hills:

HBI

- Activities anticipated for the upcoming period are generally consistent with those for this period.
- Aerotropolis:
 - o TBM 4 Breakthrough expected early June
 - TBM 3 retrieval and transport offsite
- Bringelly Services Facility:
 - Continue Erosion sediment controls operation and maintenance.
 - Tunnelling support activities (concrete deliveries and cross passage spoil removal).

ER Inspections

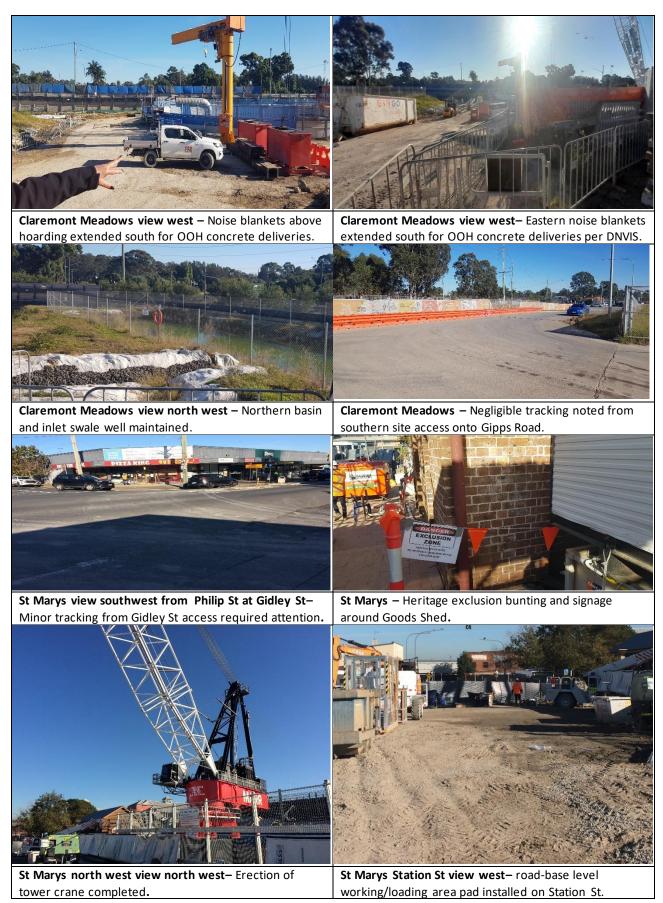
There were two (2) ER Inspections conducted on 9/5/24 and 23/5/24 by

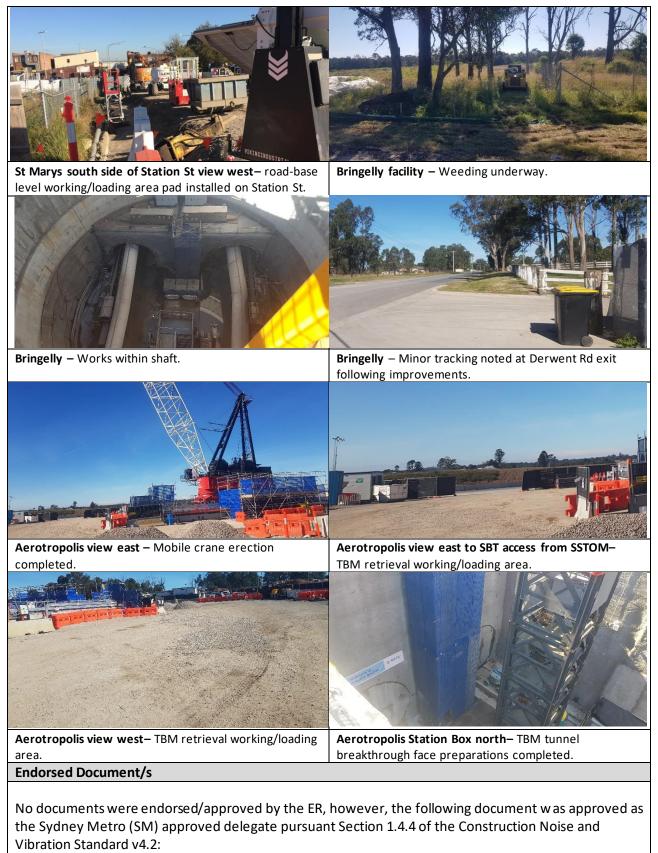
Key points/ issues raised during the inspections were as follows:

- Most actions from previous inspections have been closed. and sites have coped well with recent rain. The items noted below relate to identification of pre-emptive measures to address potential future risk, which to date have been implemented promptly by CPBG.
- At St Marys a road-base level working/loading area pad was installed on Station St. Given the inherent fines contained in road base, the use planned for the area, and as the current ESCP anticipates an asphalt surface, CPBG to revise St Marys ESCP, with soil conservationist input and review per the CSWMP, to ensure adequacy for wet weather events and minimise tracking during TBM haulage from Station St access through Queen St.
- At Orchard Hills CPBG to empty southern water holding sumps and ensure that adequate capacity is maintained onsite to receive and hold sediment loaded stormwater from upgradient areas during rain events.
- At Orchard Hills negligible tracking observed on Kent Rd and site exit approach from wheel wash.
- At Claremont Meadows CPBG assessed and confirmed extent of noise mitigation measures for crane operation and concrete deliveries/pump are in accordance with the DNVIS (Change of methodology letter dated 20 March 2024).
- At Bringelly some tracking was noted onto Derwent Rd. CPBG to ensure sealed internal haul roads are kept free of soil accumulations, unsealed areas are scraped to remove loose materials and use minimised, and wheel washing implemented away from the exit, with a street sweeper used between wheel wash and the exit gate.
- At the SBT Aerotropolis site, the condition of internal roads/ loading areas was resulting in some tracking onto internal SSTOM common paved areas. CPBG to review suface design of unloading/loading areas and assess in the context of upcoming TBM retrieval activities equipment and loads, and improve condition of internal roads, including to SSTOM common concrete access, to minimise pressure on the rumble grid at the Sydney Metro Aerotropolis site exit.

ER inspections are on a fortnightly cycle.







 Sydney Metro Western Sydney Airport Station Boxes and Tunnelling Works - DNVIS Addendum Report - Aerotropolis (AEO) TBM Retrieval Works (Rev 4.0), dated 9 May 2024 The following documents were provided for information or review as applicable:

- April Monthly Monitoring Reports comprising Dust (real-time), Noise and Surface Water.
- Sydney Metro Western Sydney Airport Bringelly Tunnelling Support Activities Environmental Review
- Sydney Metro Western Sydney Airport Station Boxes and Tunnelling Works Six monthly Surface Water Monitoring Report -October 10 2023 to April 10 2024
- Sydney Metro Western Sydney Airport Station Boxes and Tunnelling Works St Marys Heavy Vehicle Local Road report Revision 3 of 16/5/24
- Sydney Metro Western Sydney Airport Station Boxes and Tunnelling Works TBM Demobilisation Construction Traffic Management Plan Revision 00 of March 2024
- Spoil management sub-plan Revision 1 of 14/3/24
- Waste and Recycling Management Sub-Plan Revision 3 of 15-03-24

Complaints / Incidents / Non-compliance

There were no Non-Compliances with the Approval raised by or reported to the ER this period There were no incidents of note identified by or reported to the ER this period.

Twelve complaints were reported to the ER :

- One (1) from Kent Rd related to working hours at Orchard Hills. It is understood that the project has
 offered noise treatment.
- Eight (8) related to the condition of Kent Rd (fine dirt and dust). Residents reportedly satisfied with being given car wash vouchers.
- One (1) related to traffic at Orchard Hills.
- One (1) from St Marys (Station and Queen St) relating to noise but reportedly found not to be related to the project.
- One (1) related to noise vibration at Bringelly.

The complaints above are under investigation or review by Sydney Metro and CPBG, as detailed in the register.

Audits (specific to packages reported in this report)

Nil this period

Looking Forward – Core Focus Areas

Risks now relate to upcoming tunnel support activities at Claremont Meadows and Bringelly, TBM OSOM pick-up and transport at St Marys, and OOH and Cumulative impacts with SSTOM activities at St Marys and Aerotropolis. Of note are:

- OOH noise management at Claremont Meadows for concrete pumping and tunnel segment cranage into service shaft.
- OOH noise management at Bringelly for concrete pumping activities into shaft
- Diesel powered tower crane use at St Marys and Aerotropolis, including potential for cumulative impacts by SSTOM diesel tower cranes if period of use overlaps with SBT without coordination.
- Traffic management during TBM retrieval works and TBM OSOM pick-up via Queen St at St Marys

ER Closing Comments:

The contractor continues to be receptive to ER requests for improvements and proactive in planning of works to limit environmental impacts.



3. Surface and Civil Alignment Works (SCAW)

Contract Pack	age	Environmental Representative/s	
Surface and C	ivil Alignment Works (SCAW)		
Key Construct	ion Activities During the Period		
Patons La			
		ulvert is complete, finishing works commenced	
	l spraying continuing		
	ct segments are being installed across	Patons Lane	
o Hydro	mulching activities have commenced		
SMF			
o Drain	age works from SSTOM to SCAW		
 Addit 	ional unsuitable material is being adde	d to PS105	
Defence l	and		
o Drain	age works ongoing		
 Fill pla 	acement towards the Warragamba pip	eline	
o Viadu	ct segments are being placed on site for	or installation	
∘ All AC	M has been removed to PS105		
Luddenha	m Station		
 Const 	ruction of Luddenham Rd roundabout	is complete except for the wearing course	
o Struc	ural station works continue.		
Luddenha	m Road South		
 Place 	ment of viaduct segments is complete		
o Finish	ing earthworks and revegetation		
M12 to Co	osgrove's Creek		
 Sands 	\circ Sandstone is being used to build the formation south of Cosgrove's Creek.		
o Viadu	ct is complete across Cosgrove's Creek	S.	
Elizabeth	Drive		
 Sands 	tone delivery is complete south of Eliz	abeth Drive	
o Drain	age arrangements are being develope	d to cater for M12 discharge water	
(ey Construct	ion Activities Look Ahead		
Patons La			
o Reha l	pilitation works will continue along the	alignment	
 Ongo 	ing viaduct construction		
o Conv	erting drainage lines to final design		
 Stabling a 	nd Maintenance Facility (SMF) Orcharc	I Hills:	
o Struc	ures works will continue at Blaxland C	reek	
o Unsu	itable material will continue to be adde	ed to the containment cell at PS105	

- Defence Land:
 - Drainage and finishing works ongoing
 - Sandstone filling and compaction will be completed 0
 - Viaduct segment placement will continue 0
- Luddenham Station:
 - Rehabilitation of disturbed areas 0
- Luddenham Road South:
 - Finishing earthworks
 - Drainage and stabilisation works will continue 0
- M12 to Cosgroves Creek:
 - Filling activities to continue
 - Construction of the 30 ML basin will be completed 0
- Elizabeth Drive:
 - Retention basins to be completed 0
 - 0 Permanent alignment drainage works ongoing

ER Inspections

There were three (3) ER Inspections conducted on 02/05/24, 16/05/24 and 30/05/24 by

- Key points/issues raised during these inspections were as follows:
- Rectification works occurred post the flooding event.
- Coordination of works between SCAW and M12 progressed well.
- Additional coordination between SSTOM and SCAW commenced regarding SSTOM's sediment basins discharging on to SCAW's site.
- . The works at the Unnamed Tributary have been completed to a high environmental standard.
- Taking advantage of final drainage design minimised the environmental risk on the project
- . Significant areas across the project have been revegetated
- Excavation at AEC 35 is ongoing with material stockpiled in individual piles for testing
- Out of Hours Works has continued with ongoing consultation and no complaints received .
- Controls across the waterways are of a high quality and should be able to deal with future rain events

ER inspections are on a fortnightly cycle weather and health permitting.





completed and revegetation is progressing well

Main Haul Rd - Upstream and downstream of the culvert are now compete reducing the ERSED risk





 Patons Lane - The gantry has crossed Patons Lane and installed the precast elements out of hours under road closures
 AEC awa



AEC 35 - Stockpiled material from AEC 35 is segregated awaiting testing results to determine disposal options



Unnamed Tributary - Finishing works at the unnamed tributary are largely complete



Lansdowne Rd - Work has commenced on the haul road, open communication has been maintained with the resident



Luddenham South - Revegetation has been successful in the completed areas at Luddenham South

Luddenham South – The flood retention basin is complete and has been revegetated

Endorsed Document/s

The following documents were endorsed/approved by the ER:

Nil

The following documents were provided for information or reviewed:

Nil

Complaints / Incidents / Non-compliance

There were no Non-Compliances with the Approval raised by or reported to the ER this period There were no incidents of note identified by or reported to the ER this period.

No complaints were reported to the ER during the period.

Audits (specific to packages reported in this report)

Nil this period

Looking Forward – Core Focus Areas

The project has responded positively do discussions with adjacent contractors, this has seen a more coordinated approach to water management implemented. There are many areas moving into the rehabilitation phase which will reduce the environmental risk. Key operational risks remain important and are assessed every inspection, e.g. mud tracking.

ER Closing Comments: The project maintains a positive attitude towards the ER's involvement meaning risks can be discussed and resolved early. The ER has requested that the contractor undertake a formal review of all plans required under the Conditions of Approval, these should be sent to DPHI in the coming months.

4. Stations, Systems, Trains, Operations and Maintenance Package (SSTOM)

Со	ontract Package	Environmental Representative/s
	tations, Systems, Trains, Operations and	
	Aaintenance Package (SSTOM).	
	ey Construction Activities During the Period	
•	or mary o oracion (o mi).	
	• Waterproofing is ongoing.	
	 Concrete base pours are ongoing. 	
•	Orchard Hills Station (ORH):	
	 Piling is completed. 	
	 Pile break back ongoing 	
	 Waterproofing commenced 	
	 Prep works for the Concrete batch plant are ongoing, b 	base slabs are being poured
•		
	 Construction of the site compound and light vehicle car 	
	 Deliveries ongoing from Western Tunnelling Package (N 	Metro West) for pad fill continued
	 Substation filling commenced 	
•		
	 Piling had commenced 	
	 ABP stockpiled material removal to SMF completed 	
•	Aerotropolis Core (AEC):	
	 Pile break-back ongoing, sumps prepared 	
	 SBT has taken over the western portion of the site for 	TBM retrieval
Ke	ey Construction Activities Look Ahead	
•	St Mary's Station:	
	 Slab pours ongoing, likely to utilise out of hours for larg 	er pours
	• Tower crane 2 erection to occur	
	 Waterproofing 	
•	Orchard Hills Station:	
	 Box sump and drainage works 	
	 Batch plant construction 	
	 Waterproofing 	
•	Stabling and Maintenance Facility:	
	 Ongoing importation of material to continue. 	
	 Connection of 132kv power to commence. 	
	\circ Additional area for stockpiling. (SCAW handover to SST	OM)
	 Dermanent stermuster drainage to commence 	
	 Permanent stormwater drainage to commence. 	

- Luddenham Station
 - Piling to continue
 - Car park extended and resurfaced
 - Detailed excavation of the station area to commence once piling is completed.
 - Pile break-back
- Aerotropolis Core:
 - Note Tower crane is no longer planned
 - Realignment of drains, Parklife Metro (PLM) investigating fast-tracking permanent stormwater drainage installation
 - o AEC discharge pipeline
 - Earthworks to commence

ER Inspections

There were two (2) ER Inspections conducted on 07/05/24 and 21/05/24 by

Key points/issues raised during these inspections were as follows:

- Sites generally held up well from the large rainfall events throughout the month, internal drainage issues were raised with PLM.
- The timing of completion of post-rainfall maintenance of erosion and sediment controls was raised with PLM.
- Weed maintenance continued to be raised across all sites as an action. The onboarding of a weed contractor was completed and spraying is to commence in June.
- STM noise mitigation for the tower crane was ongoing. It was noted that discussions with the crane operator had continued.
- ORH The turkey nest was approaching maximum capacity after a earth plug was removed from a swale. Backfilling activities within the concrete batch pad was forcing water into the turkey nest. PLM immediately stopped work and arranged for the earth plug to be reinstated. This was regarded as a near miss and the site team was briefed by PLM environmental coordinator.
- ORH Maintenance of ESC and removal of sediment were outstanding actions. The ER reminded PLM that as per SWMP, maintenance was to be completed before the next rain event.
- SMF Tie in works with SUMP overflow to SCAW controlled area required additional ERSED and long term stabilisation.



gate







ORH –The ER re-emphasised that the removal of accumulated sediment was required on the SBT boundary as part of the site ERSED maintenance.



ORH –The turkey nest was approaching maximum capacity after an earth plug was removed from a swale.



ORH – Maintenance of ESC and removal of sediment from internal swale was outstanding.



SMF – Light Vehicle car park completed



SMF - Tie in works with SCAW from the PLM sumps was

discussed, noting that additional ERSED and stabilisation

LUD – Piling works had commenced



AEC – Site entrance shared with SBT, minor tracking was observed and organised the removal of tracked material.

Leaders in Environmental Consulting

Endorsed Document/s

- Documents were endorsed/approved by the ER:
- The Aboriginal Cultural Heritage Management Plan Rev 9.0 dated 7 May 2024

The following document was approved as the Sydney Metro (SM) approved delegate pursuant Section 1.4.4 of the Construction Noise and Vibration Standard v4.2:

 Sydney Metro Western Sydney Airport STTOM - DNVIS Stabling and Maintenance Facility Rev 3, dated 28 May 2024

The following documents were provided for information or reviewed with comments provided to Sydney Metro:

- SMWSA SSTOM Submissions Board, Submissions Forecast & ICD Submissions Board May 2024
- OHE Detailed Noise and Vibration Impact Statement Utility Works Rev 0
- OHE Construction Traffic Management Plan Stage 3
- OOHW Register dated 14-05-2024
- DNVIS Concrete Works AEC
- DNVIS Concrete Works OHE
- E57 SMF extended earthworks works by agreement

Complaints / Incidents / Non-compliance

No new non-compliances and or incidents of note were reported to the ER during this period.

Two complaints were reported to the ER during the period at Orchard Hills Station.

- One concerns water easement through their property making it too wet to mow and comment on Potholes
- One complaint regarding potholes and safety for vehicles

It is noted that PLM has been working with the Council to undertake work in repairing the potholes. It is understood that this will be undertaken during June (weather permitting).

Audits (specific to packages reported in this report)

Nil

Looking Forward – Core Focus Areas

The focus is on the implementation of the CEMP and sub-plans, with a particular focus on erosion and sediment controls and sediment tracking with the heightened risk from ongoing rain events.

ER Closing Comments: It is noted that while erosion and sediment controls are improving, the urgency of installing prior to a rain evens and the post-rainfall maintenance was an ongoing issue at Orchard Hills.

5. Statement of Limitations

Healthy Buildings International (HBI) has prepared this report in accordance with the requirements of Condition A32 (k) of the Sydney Metro Western Sydney Airport, Concept and Stage 1 SSI 10051 Approval (23 July 2021). The report is for the sole purposes of the Department of Planning, Housing and Infrastructure (DPHI) and Sydney Metro. It has been prepared based on generally accepted practices and standards at the time it was prepared. No other warranty, expressed or implied, is made as to the professional advice included in this Report. This report did not assess any aspects relating to safety.

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Suite 2.06, Level 2 29-31 Solent Circuit Norwest NSW 2153

Tel: 61 (02) 9659 5433 e-mail: <u>hbi@hbi.com.au</u> Web: www.hbi.com.au

13 May 2024

Director Sustainability Environment & Planning Sydney Metro - Western Sydney Airport Transport for NSW PO Box K659 HAYMARKET NSW 1240

REF: 201209(D)_ACHMP_REV_9.0

Dear

RE: ER Endorsement Aboriginal Cultural Heritage Management Plan Rev 9.0

Thank you for providing the Sydney Metro Western Sydney Airport (SMWSA) Aboriginal Cultural Heritage Management Plan (ACHMP).

The ACHMP Revision 9.0 dated 7 May 2024 (the ACHMP) was updated and submitted for Environmental Representative (ER) review and endorsement, as required by Condition A32 (J) of the Sydney Metro Western Sydney Airport project (SSI 10051 23 July 2021 as modified 14 April 2022).

It is noted that:

- The amendment to the plan included
 - Updating the GPS co-ordinates to indicate Datum was GDA94 in Tables 4.1,
 4.2 and 5.1
 - $\circ~$ 3.1.2 –updated the consultation undertaken for updated Scar Tree identification
 - Appendix C updated consultation activity in Table 9.1

As. an approved ER for the Sydney Metro Western Sydney Airport project, I have reviewed the ACHMP as per Condition A32(J) for consistency with the requirements in or under the Infrastructure Approval, including undertakings made in the documents listed in Condition A1., and endorse the ACHMP for submission to the Planning Secretary for information.

Yours sincerely

Environmental Representative – Sydney Metro Western Sydney Airport