

7 July 2023

Ref: 201209-ER_DPIE-June 2023

[REDACTED]
[REDACTED]
Department of Planning Industry and Environment
Locked Bag 5022
PARRAMATTA NSW 2124

Dear [REDACTED]

RE: Sydney Metro - Sydney Metro Western Sydney Airport SSI 10051 – ER Monthly Report for June 2023

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 June 2023.

Yours sincerely

[REDACTED]
Environmental Representative

Cc:

Sydney Metro: [REDACTED]
DPIE: Major Projects Portal

Enclosed:

ER Approval of AEW, Water CEMP Revision 03 dated 13/06/2023
ER Approval of AEW, Water DNVIS Revision 02 dated 23/06/2023
ER Approval of SSTOM, CEMP Revision 0.0 dated June 2023
ER Approval of SSTOM, SWMP Revision 0.0 dated June 2023
ER Approval of SSTOM, NVMP Revision 0.0 dated June 2023
ER Approval of SSTOM, FFMP Revision 0.0 dated 15/6/2023
ER Approval of SSTOM, Non-Aboriginal HMP Revision 0.0 dated 20/6/2023
ER Approval of SSTOM, FFMP Revision 0.0 dated 15/6/2023
ER Approval of SSTOM, AQMP Revision 0.0 dated June 2023
ER Approval of SSTOM, Air Quality Construction Monitoring Program Revision 0.0 dated June 2023
ER Approval of SSTOM, Noise and Vibration Construction Monitoring Program Revision 0.0 dated June 2023
ER Approval of SSTOM, Surface Water Quality Construction Monitoring Program Revision 0.0 dated June 2023

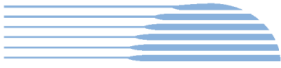


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1. Advanced and Enabling Works (AEW)

Contract Package	Environmental Representative/s
Advanced and Enabling Works (AEW)	[REDACTED]
Key Construction Activities During the Period	
<ul style="list-style-type: none"> ▪ SSTOM Project Office (SPO): <ul style="list-style-type: none"> ○ Façade installation is complete ○ Roofing installation on level 4 is complete ○ Electrical services installed on level 3 ○ Painting is progressing on level 1 ○ Solar panels have been installed on the roof ▪ St Marys Footbridge: <ul style="list-style-type: none"> ○ Initial geotechnical investigations have occurred ○ Piling works have commenced ○ Sections of roofing on platform 1/2 have been removed ▪ Water <ul style="list-style-type: none"> ○ The CEMP and DNVIS was submitted to the ER for endorsement 	
Key Construction Activities Look Ahead	
<p>The Construction activities planned for the upcoming period for the Advanced Enabling Works (AEW) comprise of:</p> <ul style="list-style-type: none"> ▪ SSTOM Project Office (SPO): <ul style="list-style-type: none"> ○ Completion of internal services ○ Completion of painting ○ Dismantling of the tower crane ○ Completion of external access ▪ St Marys Footbridge: <ul style="list-style-type: none"> ○ Continuation of piling works ○ Soil resistivity testing ○ Establishment of a site compound ▪ Water: <ul style="list-style-type: none"> ○ Establishment of the site compound ○ Locating services and potholing ○ Commence trenching on Luddenham Rd and Mamre Rd 	
ER Inspections	
<p>There was one (1) ER inspection of the SPO and one (1) inspection of the St Marys Station Footbridge undertaken by [REDACTED] in June 2023 (ER inspections are on a fortnightly cycle weather and health permitting). No inspections of the AEW water works were undertaken as works had not commenced in June 2023.</p> <p>SSTOM Project Office (SPO):</p> <ul style="list-style-type: none"> ▪ 20/06/2023 - Key points/ issues raised during this inspection were as follows: <ul style="list-style-type: none"> ○ The majority of the works is now inside the SPO, minimising the environmental risk of materials leaving the site 	



- As the works conclude the focus needs to be on housekeeping and storage of chemicals. Oil containers were observed at the rear of the SPO that need to be stored in a secure bunded area.
- Built has implemented some good environmental initiatives such as Earthwool acoustic treatment and reusing excess materials.

St Marys Footbridge

- **20/06/2023** - Key points/ issues raised during this inspection were as follows:
 - The project is to assess whether the proposed trees to be removed from the commuter carpark are compliant with the PUDCLP
 - Out of hours applications are to be received by the ER at least 10 working days prior to the proposed activity
 - The unexpected finds process has been implemented well so far

Photos

SSTOM Project Office (SPO)



Painting has commenced on level 1, paint is generally being applied via rollers rather than spray. All paint is stored within the SPO







Dust from sanding is immediately vacuumed reducing the risk to the workforce and the environment



Earthwool is used as a sustainable acoustic treatment within the walls of meeting rooms



The enclosed space on level 4 is largely complete

	
<p>Some fuel and oil containers were observed at the rear of the SPO, these needed to be stored in a secure bunded area</p>	<p>Fill from trenching work can be left insitu as long as rain is not forecast. Should rain be forecast, geofabric or equivalent should be placed on this material to prevent erosion</p>
<p>St Marys Footbridge</p>	
	
<p>Investigative boreholes and removal of some panels of roofing has occurred</p>	<p>A discussion was had regarding the need to remove existing trees to allow crane operation. ER advised that LoR is to consult the PUDCLP and identify how their works can remain complaint</p>
<p>Endorsed Document/s</p>	
<p>The following documents were endorsed/approved by the ER (██████████)</p> <ul style="list-style-type: none"> ▪ Sydney Metro Western Sydney Airport, Advanced and Enabling Works, Water Construction Environmental Management Plan, Rev 03 ▪ Sydney Metro Western Sydney Airport, Advanced Enabling Works – Water- Detailed Noise and Vibration Impact Statement, Rev 2 <p>The following documents were provided for information or reviewed with comments provided to Sydney Metro.</p> <ul style="list-style-type: none"> ▪ Out of Hours Application Form – SPO Out of Hours General Works, July 2023 	
<p>Complaints / Incidents / Non-compliance</p>	
<p>No non-compliances or incidents were reported to or identified by the ER for the period.</p> <p>No complaints were received during the period.</p>	
<p>Audits (specific to packages reported in this report)</p>	
<ul style="list-style-type: none"> ▪ No audits were undertaken during the period 	



Looking Forward – Core Focus Areas

Compliance with the DNVIS and OOHW applications for both St Marys Footbridge and AEW - water

ER Closing Comments:

The SSTOM Project Office (SPO) is entering its final stages of construction and will start to demobilise over the coming weeks. Noise from the out of hours works for the AEW – water works will need to be closely monitored and managed as road occupancy licenses prevent some of this work to be undertaken during the normal construction hours. The St Marys Footbridge is likely to find unexpected heritage finds and as a result will need to communicate the unexpected finds protocol to all individuals working on this package.



2. Station Boxes and Tunnelling (SBT)

Contract Package	Environmental Representative/s
Station Boxes and Tunnelling (SBT)	[REDACTED]
Key Construction Activities During the Period	
<ul style="list-style-type: none"> ▪ St Marys: <ul style="list-style-type: none"> ○ Western and southwestern station box capping beam and upstand completed. ○ Stub tunnel excavation and station box invert blinding in the east ○ Station box excavation, anchor, installation, and shotcrete within station box excavation from east to western areas ○ Station box spoil haulage to laydown area (haulage vehicle loaded directly on Station St asphalt). ○ Main (Station Plaza) Laydown spoil storage bay operational with ERSED controls upgraded to collect water for treatment by the water treatment plant. ○ Stub tunnel air extraction unit operation. ○ Water treatment plant in operation ▪ Claremont Meadows Services Facility: <ul style="list-style-type: none"> ○ Water treatment plant operating. ○ Sediment basins operational ○ Shaft excavation, and material stockpiling and haulage ○ Ring Cap pours ○ Shaft anchor installation ▪ Orchard Hills: <ul style="list-style-type: none"> ○ Spoil and topsoil storage ○ Operation and maintenance of ERSED controls ○ Pre-cast tunnel segment storage in the north ○ Storage of tunnelling ancillary equipment. ○ Expansion of segment storage pad with site won top soil and spoil in the northeast corner completed ○ Assembly of the TBMs ○ Construction of Spoil storage bays, and conveyor system and covered structure north of Station box ○ Station box excavation, soil nail installation and shotcreting. ○ Capping beam FRP and blinding of cross girder beds in central areas of station box completed ○ General Site access establishment works south of Lansdowne Rd completed ○ Stockpiling and removal of material to SCAW in SW corner of site at Kent and Lansdowne Roads. ○ Stockpiling and removal of material to Nepean business Park in SE corner of site. ○ Pile break-back and blinding, and Capping Beam FRP immediately south of Lansdowne Rd ○ Capping beams and uprights completed. ○ Dive excavation and shotcreting, base slab and wall FRP south of Lansdowne Rd. ○ Water treatment plant commissioning ○ Grout plant construction ○ SSTOM vegetation removal in central areas ▪ Aerotropolis : <ul style="list-style-type: none"> ○ Excavation of station box 	



- Shotcreting and soil nail installation on station box excavation walls
- Stockpiling and haulage offsite of station box excavation spoil material
- Water Treatment plant construction close to completion and commissioning
- Remediation of PFAS contaminated central eastern areas completed
- Filling of central eastern area to achieve final grade
- Sediment basin and sump drainage works
- **Bringelly Services Facility :**
 - Excavation of shaft material – at 25m below ground surface.
 - Spoil stockpiling and haulage to M12
 - Water treatment plant Operation – Water treated and disposed at Claremont Meadows as trade waste due to salinity
 - Storage of top soil and ACM.
 - Consolidation of spoil stockpiles in western stockpile areas completed

▪ **Key Construction Activities Look Ahead**

- **St Marys:**
 - Water treatment plant operation
 - Continue Stub tunnel excavation and station box invert blinding in the east
 - Continue station box bulk excavation and shotcreting east to west
 - Continue soil nail/anchor installation in station box excavation
 - Anchor stressing and grouting
 - Steel work and doweling
 - Bulk Excavation continuing
- **Claremont Meadows Services Facility:**
 - Continue erosion and sediment controls operation and maintenance
 - Continue Water Treatment Plant operation and maintenance
 - Complete bulk excavation of shaft
 - Asphalt and bitumen improvements on local access road
 - Shaft anchor installation ongoing
- **Orchard Hills:**
 - Station box excavation, shotcreting and anchor installation
 - Complete Construction of spoil storage bays, and conveyor system and covered structure (including slabs) north of station box
 - Spoil and topsoil storage
 - Operation and Maintenance of ERSED controls
 - Pre-cast tunnel segment storage in the north
 - Complete TBM assembly with tower crane in the central tunnel segment storage pad
 - TBM launch
 - Dive excavation and shotcreting, base slab and wall FRP south of Lansdowne Rd.
 - Water treatment plant completed
 - Grout plant completion
- **Aerotropolis :**
 - Complete final ERSED controls installation
 - Loadout of ACM spoil



- Completion of perimeter clean and dirty water drainage swales
- Excavation of station box
- Water Treatment plant completed
- Complete filling of central eastern area to achieve final grade
- Shotcreting of station box excavation walls and anchor installation,
- Stockpiling and removal offsite of station box excavation spoil material
- Bringelly Services Facility :
 - Continue Erosion sediment controls operation and maintenance
 - Operation of WTP
 - Continue bulk excavation of shaft
 - Assess fate of potential ACM stored in western areas

ER Inspections

There were two (2) ER Inspections conducted by [REDACTED] on 8/06/23 and on 22/06/23 (ER inspections are on a fortnightly cycle weather and health permitting).

- **8/06/2023** - Key points/ issues raised during this inspection were as follows:
 - An appreciable improvement was observed at all sites in respect of proactive implementation and planning of ErSed controls.
 - St Marys - Appreciable tracking continued to be noted on the Station St section of the site used for spoil haulage owing to haulage on unstabilised/unsealed road from the station box to the stockpile area. CPBG committed to delete unstabilised haul road from station box with 2 weeks and conduct loading directly from the station box to haulage vehicles on Station St asphalt.
 - St Marys – Tracking noted on Blair Av., which street sweeper did not appear to be able to deal with effectively. CPBG to monitor and improve wheel cleaning procedure.
 - St Marys – Large pothole developed at the eastern corner of Blair Av. and Phillip St. CPBG to effect repairs to prevent increased traffic hazard.
 - Claremont Meadows – Erosion and sediment controls at sediment basin SB2 spillway require repairs and maintenance.
 - Orchard Hills – Two haulage trucks noted not marked in accordance with Condition A46. CPG to ensure refresher briefings on project marking requirements are given to haulage contractors and their sub-contractors prior to accepting new spoil haulage heavy vehicles onsite.
 - Orchard Hills – ErSed controls well implemented between southern crest on eastern haul road and low point at natural drainage point north of station box.
 - Aerotropolis – ErSed controls along south western fill area (former PFAs area) particularly well planned.
- **22/06/2023** - Key points/ issues raised during this inspection were as follows:
 - Improvement continues to be observed at all sites in respect of proactive implementation and planning of environmental mitigation.
 - Most issues from the previous inspection were addressed adequately
 - St Marys – Diversion for rainwater from laydown area away from northern live pits should be installed as a matter of priority.
 - St Marys - Erosion and sediment controls at pit adjacent goods shed require maintenance. Pit warden needs to be fitted adequately to the edges of the pit and other controls need renewing.
 - St Marys – Haulage on unsealed road ceased, resulting in significant improvement in the condition of Station St section of the site used for spoil haulage.

- St Marys – Air extraction system in operation with well implemented noise mitigation measures/controls – very good practice.
- St Marys – Station St. sump and pump is well managed and maintained, with CPBG to implement SEEC (the CPESC) recommendation to increase height of kerb as spill-over mitigation.
- Orchard Hills – South of Lansdowne Rd CPBG to improve southern sediment fence installation as noted by SEEC (the CPESC).
- Orchard Hills – Additional haulage trucks noted not marked in accordance with Condition A46. CPG to rectify situation as a matter of priority to prevent a Non-compliance being raised.
- Orchard Hills – Materials stored in ErSed controls (swales) along northern half of eastern haul road and behind (east of) compound should be removed and practice stopped.
- Aerotropolis – ErSed controls directing water to main sediment basin, and sediment basin, yet to be finalised and operate as intended. CPBG to prioritise installation and operation of these controls. This recommendation has also been made by SEEC (the CPESC).
- Aerotropolis – Western clean water diversion swale directing water away from the yet to be finalised and operate as intended. CPBG to prioritise completion of this swale and outlet. This is particularly important given the development adjacent and its low points discharging to the project site. This recommendation has also been made by SEEC (the CPESC).
- Bringelly - Stored topsoil and ACM materials stockpiles consolidated and formed with compacted smooth batters but yet to be seeded for medium to long term stabilization. This recommendation has also been made by SEEC (the CPESC)

Photos



Orchard Hills: View north of dive structure base slab and FRP works, with box excavation beyond.



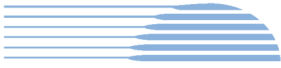
Lansdowne Rd. view south west – Wheel wash installed at eastern access.



Orchard hills:View north east of excavation under Lansdowne Rd. bridge.



View north of Orchard Hills eastern haul Rd: Good ErSed controls noted but storage in swale to cease



St Marys: Stub tunnel air extraction system noise mitigation (acoustic blankets) well implemented.



St Marys: Haulage on unsealed road ceased, with improved condition of Station St within the site.



St Marys east: Stub tunnel excavation using roadheader.



St Marys: Central to West station box excavation and shotcreting.



St Marys View north - South west Station St. sump and pump well managed, with CPBG to add CPESC recommended spill-over mitigation.



St Marys: Erosion and sediment controls at pit adjacent goods shed require maintenance.



Bringelly Services Facility: Services shaft excavation nearing completion.



Bringelly Services Facility: Sediment basin and inlets well installed and managed.



Bringelly Services Facility : Consolidated spoil, and ACM stockpiles well formed, awaiting seeding.



Aerotropolis station box: View north of excavation anchor and shotcrete works.



Aerotropolis view to southwest: Western clean water diversion swale to be completed.



Claremont Meadows Services Facility: Services shaft excavation nearing completion.

Endorsed Document/s

No documents were endorsed by the ER.

The following documents were provided for information or review:

- Baseline Groundwater Monitoring Report
- October 2022 - April 2023 Semi-annual Noise and Vibration Monitoring Report
- November 2022 – May 2023 Semi-annual Surface Water Monitoring Report
- May Monthly Monitoring Reports comprising Dust (real-time), Noise and Surface Water.
- Detailed Noise and Vibration Impact Statement - Claremont Meadows Ventilation Facility, Revision B of March 2023
- Detailed Noise and Vibration Impact Statement - Aerotropolis Core Station, Revision B April 2023
- St Marys extended construction hours agreement of 25/5/2023 under EPL
- Aerotropolis extended construction hours agreement of 20/6/2023 under EPL

Complaints / Incidents / Non-compliance

No Non-compliances were identified by or reported to the ER this period.

There were no incidents of note identified by or reported to the ER this period.

Four (4) complaints were reported to the ER:

- 1/6/2023– Orchard Hills - Complaint regarding after hours noise at Orchard Hills site. Upon investigation the Project reportedly established only low impact work under the EPL was being carried out south of Lansdowne Road which is the closest site to stakeholder's property. One excavator was in operation and works ceased at approximately 22:00 in accordance with the EPL requirements. Stakeholder was informed and was reportedly satisfied with information.



- 13/6/2023– Orchard Hills – Complaint regarding after hours noise from radios at Orchard Hills site. Stakeholder was reportedly informed that night shifts will be tool boxed regarding noise use of radios and that Project are continuing low impact evening work under EPL in the station box at a depth of 12.5 m, and that the project will reach out later to seek any further feedback.
- 14/6/2023– Orchard Hills Stakeholder complaint about Water on road leaving Stakeholders cars dirty. Stakeholder was reportedly informed of requirements on project in regards to street sweeper and water cart use to mitigate dust and mud tracking around the Orchard Hills, and was offered car wash vouchers for him and his wife as goodwill from the Project.
- 17/06/2023 –Claremont Meadows (adjacent M4 on ramp) stakeholder complaint regarding after hours noise at Orchard Hills site. Stakeholder has direct line of site to the Orchard Hills north Site. Stakeholder was reportedly informed of stakeholder of continued low impact work in the station box together with TBM assembly work. TBM assembly will continue until the end of August 2023. Project has placed noise monitor at property, as agreed with stakeholder, and interactions are ongoing. Project has reportedly asked stakeholder to forward the quote he obtained for acoustic blinds.

Audits (specific to packages reported in this report)

- No audits were undertaken during the period.

Looking Forward – Core Focus Areas

As out of hours works ramp up across the Project, compliance with Approval and EPL noise management requirements will be the area of focus in the next reporting period

ER Closing Comments:

Improvement continues to be observed in respect of proactive implementation and planning of environmental mitigations, and collaboration with the ER. Greater contractor senior management engagement and encouragement has been vital in achieving these improved outcomes.



3. Surface and Civil Alignment Works (SCAW)

Contract Package	Environmental Representative/s
Surface and Civil Alignment Works (SCAW)	[REDACTED]
Key Construction Activities During the Period	
<ul style="list-style-type: none"> ▪ Patons Lane: <ul style="list-style-type: none"> ○ Compound drainage and finishing works are almost complete for the handover to SSTOM. ○ The main entry / exit point is complete. ○ Out of hours sandstone stockpiling continues. ○ An additional compound area is being prepared for the SCAW operations once SSTOM takes possession of the site. ○ Filling activities continue on the formation. ▪ Stabling and Maintenance Facility (SMF) Orchard Hills: <ul style="list-style-type: none"> ○ Sandstone capping is almost complete. ○ Clearing commenced at Samuel Marsden Drive. ○ All dams on the northern portion of the project have been dewatered. ▪ Luddenham Station: <ul style="list-style-type: none"> ○ Piling continues. ○ Piling has commenced within proximity of the Warragamba pipeline. ○ Preparing for construction of Luddenham Rd roundabout. ○ Structural station works continue. ▪ Luddenham Road South: <ul style="list-style-type: none"> ○ Works for the establishment of minor ancillary facility will commence. ○ Piling works are complete. ▪ M12 to Cosgrove's Creek: <ul style="list-style-type: none"> ○ Cosgrove's Creek crossings are being planned. ○ Flood retention basins have commenced. ○ ERSED controls have been maintained. ▪ Elizabeth Drive: <ul style="list-style-type: none"> ○ Super Ts have been completed, bridge pours to be completed. ○ Microbat survey at McGarvie Farm undertaken. 	
Key Construction Activities Look Ahead	
<ul style="list-style-type: none"> ▪ Patons Lane: <ul style="list-style-type: none"> ○ The SSTOM contractor will take possession of the compound. ○ Sandstone importation will be completed. ○ Spray seal will be applied to haul roads. ○ Environmental controls will be maintained during handover to SSTOM. 	



- **Stabling and Maintenance Facility (SMF) Orchard Hills:**
 - Sandstone placement will be completed.
 - Blaxland Creek crossings will be utilised for works north of the creek.
 - Piling pads will be constructed.
 - Piling works will commence.

- **Luddenham Station:**
 - Piling adjacent to the Warragamba pipeline will continue.
 - Structures will continue to be built.
 - Hydromulch will continue to be applied to topsoiled areas.
 - Construction of the roundabout on Luddenham Rd will continue.

- **Luddenham Road South:**
 - Cutting activities will continue.
 - Asbestos stockpiles to be removed.
 - Structures will commence.
 - Drainage and sandstone placement including the sediment basin will be completed.

- **M12 to Cosgroves Creek:**
 - Preparation for piling activities.
 - Construction of the 30ML basin continues which will ultimately be a flood mitigation basin.

- **Elizabeth Drive:**
 - Final deck pours on the SCAW / M12 bridge.
 - Weed removal works.
 - Ongoing stabilisation activities.

ER Inspections

There were three (3) ER Inspections in May 2023 (ER inspections are on a fortnightly cycle weather and health permitting).

- **02/06/2023 (██████████)** - Key points/ issues raised during this inspection were as follows:
 - The bridge site was very tidy and has provided many areas for rubbish disposal and concrete washout.
 - Loose sediment around the piling pad and clean water diversion drain at Blaxland's Creek needed to be compacted and bound to prevent unintentional sediment discharge
 - Hydromulch at Luddenham south needed to be applied as soon as possible to minimise topsoil scour in the completed drains.
 - Six actions from previous inspections were open and required further information from the contractor to be closed out.

- **22/06/2023 (██████████)** - Key points/ issues raised during this inspection were as follows:
 - The M12 bridge is in its final stages of construction and is still in a good state.
 - The Luddenham Station supervisor and team are recognised for their proactive use of hydromulch to stabilise disturbed areas, this has reduced their ERSED risk.
 - If vegetation stockpiles are to remain on the project, measures to prevent vermin occupying these stockpiles are to be implemented.



- It is noted that earth bunds are being formed up across the job to act as environmental controls. These bunds need to be compacted and stabilised to ensure additional impacts are not created.
- **29/06/2023** ([REDACTED]) - Key points/ issues raised during this inspection were as follows:
 - A risk-based strategy regarding wheel wash and mud tracking needs to be considered by CPBUI. The strategy should focus on proactive actions rather than reactive actions.
 - Stabilisation of haul roads that access public roads should also be undertaken to compliment the wheel wash strategy.
 - Scour on the inlet of the basin at Luddenham Rd south needs to be repaired and a surface treatment applied that will prevent further scouring into the future.
 - Minor amounts of litter were observed in the drain at Luddenham north.
 - It is noted that the drainage lines at Luddenham south have been stabilised with hydromulch, this is best practice and complies with fundamental erosion and sediment control.

Photos



M12 Bridge - Waste bags are being reused as garbage bins, a simple but good reuse of materials



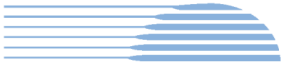
M12 Bridge - Trays are lifted onto the deck of the bridge for clean-up. At the time of the inspection housekeeping was noted to be very good



M12 Bridge - Concrete pours continue at the M12 bridge as it is finalised



M12 Bridge - Deck pours are the remaining works on the M12 bridge



M12 Bridge - All super Ts have been installed on the M12 bridge, with deck pours remaining



Cosgrove's Creek - Construction has commenced on the flood retention basin on the southern side of Cosgrove's Creek



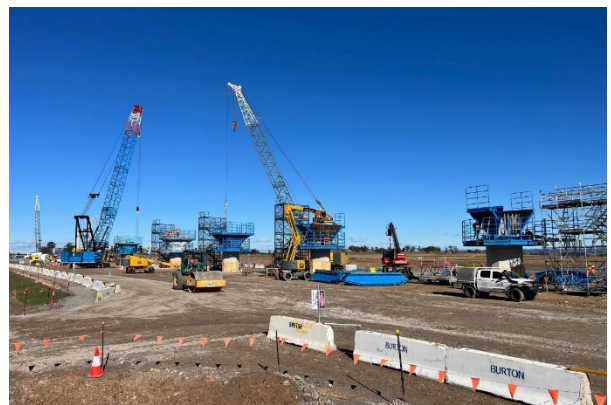
Cosgrove's Creek - If vegetation is to remain on site, please provide adequate measures to prevent vermin inhabiting these piles



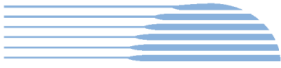
Cosgrove's Creek - The fine dust on the main alignment at Cosgrove's Creek needs to be monitored with dust suppression applied as required



Luddenham Station - Piling has commenced within close proximity to the Warragamba pipelines



Luddenham Station - Structures works continue with appropriate environmental controls being used



Luddenham Station - The disturbed areas at the Luddenham station round a bout have been stabilised with hydromulch, this is good practice



Luddenham Station - Concrete washout trays were in place and being used for the piling works



Luddenham South - Sealing works created a dedicated slip lane to and from the site



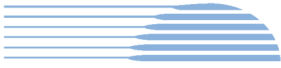
Luddenham South - Piling underway at Luddenham south making its way towards Cosgrove's Creek



Luddenham South - The haul road has not broken through to Cosgrove's Creek yet and is acting as an additional sump



Luddenham South - The drains have been sprayed with hydromulch – this is good practice



Defence Lane - The unnamed creek has been blocked off upstream while the creek crossing is being constructed



Defence Lane - The entry / exit point from the Defence site onto Patons Lane does not have appropriate wheel wash or mud tracking controls. Please install controls in this area



Patons Lane - Final ERSED controls have been constructed around the Patons Lane compound prior to handover to SSTOM







Patons Lane - A wheel wash has been installed however is not being used by the project. ER questioned why this was the case and asked CPBUI to implement additional controls



Patons Lane - The section of track from the wheel wash is meant to be sealed, however is not at this point in time. ER asked for a timeframe when this will be completed as this could be a key control in managing mud tracking



Patons Lane - There were no controls at the three entrance / exit points at Patons Lane to effectively clean mud from wheels. ER requested CPBUI to review all exit controls across the project and implement a proactive approach rather than a reactive one

	
<p>Blaxland's Creek - The creek crossings have been installed with scour protection at Blaxland's Creek</p>	<p>Blaxland's Creek - Earthworks on the edge of the minor tributary was exposed and required ERSED controls. It is noted that this issue was resolved before the end of the ER inspection</p>
	
<p>Blaxland's Creek - Timber from recent clearing activities has been retained for future use within fauna structures</p>	<p>Blaxland's Creek - Uncompacted material north of Blaxland's Creek was observed and needed to be compacted</p>
<p>Endorsed Document/s</p>	
<p>The following documents were endorsed by the ER:</p> <ul style="list-style-type: none"> ▪ Nil this period <p>The following documents were provided for information or reviewed:</p> <ul style="list-style-type: none"> ▪ Detailed Noise and Vibration Impact Statement 4. Warragamba Pipeline Works, Luddenham Roundabout Works and Full Viaduct Alignment – Cosgrove's Creek to Patons Lane 	
<p>Complaints / Incidents / Non-compliance</p>	
<p>No non-compliances were reported to or identified by the ER for the period.</p> <p>Two (2) Incidents of note were reported to the ER during the period:</p> <ul style="list-style-type: none"> ▪ 09/06/22 – A truck and dog hit a rock after unloading and damaged the sump plug, spilling engine oil on the sandstone pad at the SMF. The truck driver was unaware of the damage and drove approximately 100metres before the truck was shut-off to prevent further leaks. The driver was unable to repair the truck at the time and used the spill kit located onsite. The truck and dog was towed from the SMF and the sump was taped/covered to prevent any further spillage of engine oil across the site during removal. The contaminated sandstone was dug out and placed in a separate stockpile location and wrapped in geo-fabric. 	



- 27/06/23 - A truck and dog burst a hydraulic hose while tipping off a load of sandstone. Approximately 30L of hydraulic oil was spilt onto the sandstone pad at the SMF. The truck and dog hose leak was contained and the truck left site for repairs. The spill was contained using the spill kit and the contaminated sandstone was dug out and placed in a separate stockpile location and wrapped and contained in geo-fabric.

One (1) complaint was reported to the ER during the period as follows:

- 14/06/23 – Stakeholder (146D Samuel Marsden Road, Orchard Hills) complained about dust from construction site west of their property. Advised stakeholder that there were water carts used to minimise dust for the work being carried out on site and an additional water cart will be used as construction works in the area progress. Noise and dust levels were being monitored via a DustTrak unit.

Audits (specific to packages reported in this report)

No audits were undertaken during the period

Looking Forward – Core Focus Areas

Completion of the Complaint Escalation Report
Proactive project wide strategy to managing mud tracking.

ER Closing Comments: Significant effort has been put into managing works in and around the three waterways on the project and so far controls are compliant with Blue Book standards. Stabilisation and revegetation has been effective at the Luddenham Station and Luddenham South sites and this has largely been due to the site supervisor understanding and managing the environmental risk. The ER has requested the project to develop a proactive strategy towards mud tracking. Reliance on water carts and street sweepers is not the most effective method of managing mud on wheels. On the ER's recommendation, Sydney Metro has also advised the contractor that more needs to be done in this space to prevent mud tracking.

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

Contract Package	Environmental Representative/s
Stations, Systems, Trains, Operations and Maintenance Package (SSTOM)	[REDACTED]
Key Construction Activities During the Period	
<ul style="list-style-type: none"> ▪ The Project is in the early engagement phase only. ▪ Low Impact works for survey works were approved, however, no construction activities have occurred for SSTOM. ▪ The project has reported that consultation with the required authorities has been completed and has submitted plans and monitoring programs to DPE for approval, with exception of the Groundwater Monitoring Program that is to be approved by the ER. ▪ Construction target start date is August 2023 	
Key Construction Activities Look Ahead	
Not Applicable	
ER Inspections	
There were no ER Inspections in June 2023. ER inspections will commence in August.	
Photos	
No applicable as no inspections to date.	
Endorsed Document/s	
<p>The following documents were endorsed by the ER:</p> <ul style="list-style-type: none"> ▪ STTOM Construction Environmental Management Plan Rev 0.0 ▪ STTOM Soil and Water Management Plan Rev 0.0 ▪ STTOM Noise and Vibration Management Plan Rev 0.0 ▪ STTOM Flora and Fauna Management Plan Rev 0.0 ▪ STTOM Non-Aboriginal Heritage Management Plan Rev 0.0 ▪ STTOM Air Quality Management Plan Rev 0.0 ▪ STTOM Air Quality Construction Monitoring Program Rev 0.0 ▪ STTOM Noise and Vibration Construction Monitoring Program Rev 0.0 ▪ STTOM Surface Water Quality Construction Monitoring Program Rev 0.0 	
Complaints / Incidents / Non-compliance	
<p>No non-compliances were identified by or reported to the ER this period. There were no incidents of note identified by or reported to the ER this period.</p> <p>No complaints were reported to the ER during the period.</p>	
Audits (specific to packages reported in this report)	
No audits were undertaken during the period.	
Looking Forward – Core Focus Areas	
<p>DPE feedback on the Management Plans and endorsement of the STTOM Groundwater Monitoring Program will be the key focus in July.</p> <p>ER Closing Comments: The project team continues to form and build relations, is showing signs of a healthy team dynamic. Detailed design is continuing. Stabilised handover of the sites from SCAW and SBT will be important over the coming months and handover planning is well underway.</p>	

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 Department of Planning Industry and Environment (DPIE) 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.

Where the Report indicates that information has been provided to HBI by third parties, HBI assumes no liability for any inaccuracies in or omissions to that information.

This Report was prepared based on the conditions encountered and information reviewed at this time. HBI disclaims responsibility for any changes that may have occurred after this time.

This Report should be read in full. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties. This Report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

Except as required by law, no third party may use or rely on this Report unless otherwise agreed by HBI in writing. Except as specifically stated in this section, HBI does not authorise the use or findings of this Report by any third party

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HBI

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Web:

www.hbi.com.au

14 June 2023

[REDACTED]
[REDACTED]
Sydney Metro
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

Ref: 201209_AEW_Water_CEMP_Rev03

Dear [REDACTED]

RE: Endorsement of the Sydney Metro Western Sydney Airport, Advanced and Enabling Works, Water Construction Environmental Management Plan, Rev 03

Thank you for providing the following document for Environmental Representative (ER) review and approval in accordance with MCoA A32(j) of the Sydney Metro Western Sydney Airport project (SSI – 10051 July 23, 2021):

- *Sydney Metro Western Sydney Airport – Advanced and Enabling Works, Water Construction Environmental Management Plan Revision 03 dated 13/06/2023 (CEMP Rev 03).*

As an approved ER for the Sydney Metro Western Sydney Airport project, I have reviewed the CEMP Rev 03:

It is noted that:

- Previous versions of the documents have been reviewed and updated following comments from the ER.
- Sydney Metro have also reviewed and commented on the relevant document
- The document is considered to contain the information and consultation required.

Accordingly, as an approved ER for the Sydney Metro Western Sydney Airport project, I endorse the CEMP with the requirements in or under the Infrastructure Approval and the undertakings made in the documents listed in Condition A1.

Yours sincerely



HBI

Healthy Buildings International Pty Ltd



Environmental Representative – Sydney Metro Western Sydney Airport



HBI

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A.C.N. 003 270 693

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Web: www.hbi.com.au

26 June 2023

[REDACTED]
[REDACTED]
Sydney Metro
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

Ref: 201209_DNVIS_AEW WATER_2

Dear [REDACTED]

RE: Approval of the Sydney Metro Western Sydney Airport, Advanced Enabling Works – Water- Detailed Noise and Vibration Impact Statement

Thank you for providing the Sydney Metro Western Sydney Airport – Advanced Enabling Works – Water Detailed Noise and Vibration Impact Statement (Rev 2), dated 23 June 2023 (the DNVIS) for Environmental Representative (ER) review and approval, as the Sydney Metro approved delegate pursuant the Construction Noise and Vibration Standard v4.3 (the CNVS), Section 1.4.4, approved as part of the submissions report under the Sydney Metro Western Sydney Airport project (SSI – 10051 July 23, 2021).

As the Sydney Metro approved delegate, I have reviewed the DNVIS and provided comment, and now consider the DNVIS consistent with the requirements and principles in or under the CNVS.

I remind you that pursuant the CNVS, should the scope of work or the timing of works change, the Principal contractor must update the DNVIS and seek subsequent approval by the ER for the new version.

Yours sincerely

[REDACTED]

[REDACTED]
Environmental Representative – Sydney Metro Western Sydney Airport

27 June 2023

[REDACTED]
[REDACTED]
Sydney Metro - Western Sydney Airport
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

REF: 201209(D)_CEMP_REV_0.0

Dear [REDACTED]

RE: ER Endorsement of Construction Environmental Management Plan Rev 0.0

Thank you for providing the Sydney Metro Western Sydney Airport (SMWSA) Construction Environmental Management Plan (CEMP) for the Stations, Systems, Trains, Operations and Maintenance (SSTOM) project.

The CEMP Revision 0.0 dated June 2023 (the CEMP) was submitted for Environmental Representative (ER) review and endorsement, as required by Condition A32 (d) of the Sydney Metro Western Sydney Airport project (SSI 10051 23 July 2021 as Modified 14 April 2022).

It is noted that:

- Previous versions of the document were reviewed and updated following comments from Sydney Metro and the ER
- Evidence of consultation records from parties identified in Condition C5 has been provided to the ER for the sub-plans and requests incorporated into the CEMP. Evidence of consultation is attached to the relevant sub-plan and is addressed consistent with Condition A6.

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

Yours sincerely

[REDACTED]

[REDACTED]

Environmental Representative – Sydney Metro Western Sydney Airport

26 June 2023

[REDACTED]
[REDACTED]
Sydney Metro - Western Sydney Airport
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

REF: 201209(d)_SWMP_REV_0.0

Dear [REDACTED]

RE: ER Endorsement of Soil and Water Management Plan Rev 0.0

Thank you for providing the Sydney Metro Western Sydney Airport (SMWSA) Soil and Water Management Plan (SWMP) for the Stations, Systems, Trains, Operations and Maintenance (SSTOM) project.

The SWMP Revision 0.0 dated June 2023 (the SWMP) was submitted for Environmental Representative (ER) review and endorsement, as required by Condition A32 (d) of the Sydney Metro Western Sydney Airport project (SSI 10051 23 July 2021 as modified 14 April 2022).

It is noted that:

- Previous versions of the document were reviewed and updated following comments from Sydney Metro and the ER
- Evidence of consultation records from parties identified in Condition C5 has been provided to the ER for the sub-plans. Evidence of consultation is attached to the relevant sub-plan and is addressed consistent with Condition A6.

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

[REDACTED]
[REDACTED]
Environmental Representative – Sydney Metro Western Sydney Airport

27 June 2023

[REDACTED]
[REDACTED]
Sydney Metro - Western Sydney Airport
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

REF: 201209(D)_NVMP_REV_0.0

Dear [REDACTED]

RE: ER Endorsement of Noise and Vibration Management Plan Rev 0.0

Thank you for providing the Sydney Metro Western Sydney Airport (SMWSA) Noise and Vibration Management Plan (NVMP) for the Stations, Systems, Trains, Operations and Maintenance (SSTOM) project.

The NVMP Revision 0.0 dated June 2023 (the NVMP) was submitted for Environmental Representative (ER) review and endorsement, as required by Condition A32 (d) of the Sydney Metro Western Sydney Airport project (SSI 10051 23 July 2021 as modified 14 April 2022).

It is noted that:

- Previous versions of the document were reviewed and updated following comments from Sydney Metro and the ER
- Evidence of consultation records from parties identified in Condition C5 has been provided to the ER for the sub-plans. Evidence of consultation is attached to the relevant sub-plan and is addressed consistent with Condition A6.

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

[REDACTED]
[REDACTED]
Environmental Representative – Sydney Metro Western Sydney Airport

22 June 2023

[REDACTED]
Sydney Metro - Western Sydney Airport
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

REF: 201209(d)_FFMP_REV_0.0

Dear [REDACTED]

RE: ER Endorsement of Flora and Fauna Management Plan Rev 0.0

Thank you for providing the Sydney Metro Western Sydney Airport (SMWSA) Flora and Fauna Management Plan (FFMP) for the Stations, Systems, Trains, Operations and Maintenance (SSTOM) project.

The FFMP Revision 0.0 dated 15 June 2023 (the FFMP) was submitted for Environmental Representative (ER) review and endorsement, as required by Condition A32 (d) of the Sydney Metro Western Sydney Airport project (SSI 10051 23 July 2021 as modified 14 April 2022).

It is noted that:

- Previous versions of the document were reviewed and updated following comments from Sydney Metro and the ER
- Evidence of consultation records from parties identified in Condition C5 has been provided to the ER for the sub-plans. Evidence of consultation is attached to the relevant sub-plan and is addressed consistent with Condition A6.

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

Yours sincerely

[REDACTED]
Environmental Representative – Sydney Metro Western Sydney Airport

26 June 2023

[REDACTED]
[REDACTED]
Sydney Metro - Western Sydney Airport
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

REF: 201209(d)_NAHMP_REV_0.0

Dear [REDACTED]

RE: ER Endorsement of Non-Aboriginal Heritage Management Plan Rev 0.0

Thank you for providing the Sydney Metro Western Sydney Airport (SMWSA) Non-Aboriginal Heritage Management Plan (NAHMP) for the Stations, Systems, Trains, Operations and Maintenance (SSTOM) project.

The NAHMP Revision 0.0 dated 20 June 2023 (the NAHMP) was submitted for Environmental Representative (ER) review and endorsement, as required by Condition A32 (d) of the Sydney Metro Western Sydney Airport project (SSI 10051 23 July 2021 as modified 14 April 2022).

It is noted that:

- Previous versions of the document were reviewed and updated following comments from Sydney Metro and the ER
- Evidence of consultation records from parties identified in Condition C5 has been provided to the ER for the sub-plans. Evidence of consultation is attached to the relevant sub-plan and is addressed consistent with Condition A6.

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

[REDACTED]
[REDACTED]
Environmental Representative – Sydney Metro Western Sydney Airport

27 June 2023

[REDACTED]
[REDACTED]
Sydney Metro - Western Sydney Airport
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

REF: 201209(D)_AQMP_REV_0.0

Dear [REDACTED]

RE: ER Endorsement of Air Quality Management Plan Rev 0.0

Thank you for providing the Sydney Metro Western Sydney Airport (SMWSA) Air Quality Management Plan (AQMP) for the Stations, Systems, Trains, Operations and Maintenance (SSTOM) project.

The AQMP Revision 0.0 dated June 2023 (the AQMP) was submitted for Environmental Representative (ER) review and endorsement, as required by Condition A32 (d) of the Sydney Metro Western Sydney Airport project (SSI 10051 23 July 2021 as modified 14 April 2022).

It is noted that:

- Previous versions of the document were reviewed and updated following comments from Sydney Metro and the ER
- Evidence of consultation records from parties identified in Condition C5 has been provided to the ER for the sub-plans. Evidence of consultation is attached to the relevant sub-plan and is addressed consistent with Condition A6.

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

[REDACTED]
[REDACTED]
Environmental Representative – Sydney Metro Western Sydney Airport

28 June 2023

[REDACTED]
[REDACTED]
Sydney Metro - Western Sydney Airport
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

REF: 201209(d)_AQCMP_REV_0.0

Dear [REDACTED]

RE: ER Endorsement of Air Quality Construction Monitoring Program Rev 0.0

Thank you for providing the Sydney Metro Western Sydney Airport (SMWSA) Air Quality Construction Monitoring Program (AQCMP) for the Stations, Systems, Trains, Operations and Maintenance (SSTOM) project.

The AQCMP Revision 0.0 dated June 2023 (the AQCMP) was submitted for Environmental Representative (ER) review and endorsement, as required by Condition A32 (d) of the Sydney Metro Western Sydney Airport project (SSI 10051 23 July 2021 as modified 14 April 2022).

It is noted that:

- Previous versions of the document were reviewed and updated following comments from Sydney Metro and the ER
- Evidence of consultation records from parties identified in Condition C13 has been provided to the ER in the Air Quality Management Plan and is consistent with Conditions A6.
- The AQCMP addresses the requirements of Condition C14.

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

Yours sincerely

[REDACTED]

[REDACTED]
Environmental Representative – Sydney Metro Western Sydney Airport

28 June 2023

[REDACTED]
[REDACTED]
Sydney Metro - Western Sydney Airport
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

REF: 201209(D)_NVCMP_REV_0.0

Dear [REDACTED]

RE: ER Endorsement of Noise and Vibration Construction Monitoring Program Rev 0.0

Thank you for providing the Sydney Metro Western Sydney Airport (SMWSA) Noise and Vibration Construction Monitoring Program (NVCMP) for the Stations, Systems, Trains, Operations and Maintenance (SSTOM) project.

The NVCMP Revision 0.0 dated June 2023 (the NVCMP) was submitted for Environmental Representative (ER) review and endorsement, as required by Condition A32(d) of the Sydney Metro Western Sydney Airport project (SSI 10051 23 July 2021 as modified 14 April 2022).

It is noted that:

- Previous versions of the document were reviewed and updated following comments from Sydney Metro and the ER
- Evidence of consultation records from parties identified in Condition C13 has been provided to the ER in the Noise and Vibration Management Plan and is consistent with Conditions A6.
- The SWQMP addresses the requirements of Conditions C14 and C15.

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

Yours sincerely

[REDACTED]
[REDACTED]

Environmental Representative – Sydney Metro Western Sydney Airport

28 June 2023

[REDACTED]
[REDACTED]
Sydney Metro - Western Sydney Airport
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

REF: 201209(D)_SWQCMP_REV_0.0

Dear [REDACTED]

RE: ER Endorsement of Surface Water Quality Construction Monitoring Program Rev 0.0

Thank you for providing the Sydney Metro Western Sydney Airport (SMWSA) Surface Water Quality Construction Monitoring Program (SWQCMP) for the Stations, Systems, Trains, Operations and Maintenance (SSTOM) project.

The SWQCMP Revision 0.0 dated June 2023 (the SWQCMP) was submitted for Environmental Representative (ER) review and endorsement, as required by Condition A32 (d) of the Sydney Metro Western Sydney Airport project (SSI 10051 23 July 2021 as modified 14 April 2022).

It is noted that:

- Previous versions of the document were reviewed and updated following comments from Sydney Metro and the ER
- Evidence of consultation records from parties identified in Condition C13 has been provided to the ER in the Soil and Water Management Plan and is consistent with Conditions A6.
- The SWQCMP addresses the requirements of Condition C14.

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

Yours sincerely

[REDACTED]
[REDACTED]
Environmental Representative – Sydney Metro Western Sydney Airport