

7 August 2023

Ref: 201209-ER\_DPIE-July 2023

[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 July 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 July 2023.

Yours sincerely

[REDACTED]  
Environmental Representative

Cc:

Sydney Metro: [REDACTED]

DPIE: Major Projects Portal

Enclosed:

ER Approval of SSTOM Groundwater Quality Construction Monitoring Program Rev 0.0 dated July 2023

ER Approval of SSTOM Waste Management Plan Rev 1.0

ER Approval of SSTOM Visual Amenity Management Plan Rev 0.0



**Table of Contents**

<b>1. Advanced and Enabling Works (AEW)</b> .....	<b>3</b>
<b>2. Station Boxes and Tunnelling (SBT)</b> .....	<b>6</b>
<b>3. Surface and Civil Alignment Works (SCAW)</b> .....	<b>15</b>
<b>4. Stations, Systems, Trains, Operations and Maintenance Package (SSTOM)</b> .....	<b>22</b>
<b>5. Statement of Limitations</b> .....	<b>23</b>



**1. Advanced and Enabling Works (AEW)**

Contract Package	Environmental Representative/s
Advanced and Enabling Works (AEW)	[REDACTED]
<b>Key Construction Activities During the Period</b>	
<ul style="list-style-type: none"> <li>▪ <b>SSTOM Project Office (SPO):</b> <ul style="list-style-type: none"> <li>○ Façade installation is complete</li> <li>○ Roofing installation on level 4 is complete</li> <li>○ Electrical services installation is ongoing</li> <li>○ Painting is complete</li> <li>○ Solar panels have been installed on the roof</li> </ul> </li> <li>▪ <b>St Marys Footbridge:</b> <ul style="list-style-type: none"> <li>○ Piling works have commenced</li> <li>○ Sections of roofing on platform 1/2 have been removed</li> </ul> </li> <li>▪ <b>Water:</b> <ul style="list-style-type: none"> <li>○ The compound at Gipps Street has been established</li> <li>○ The fist under bore across Mamre Rd is complete</li> </ul> </li> </ul>	
<b>Key Construction Activities Look Ahead</b>	
<p>The Construction activities planned for the upcoming period for the Advanced Enabling Works (AEW) comprise of:</p> <ul style="list-style-type: none"> <li>▪ <b>SSTOM Project Office (SPO):</b> <ul style="list-style-type: none"> <li>○ Completion of internal services</li> <li>○ Dismantling of the tower crane</li> <li>○ Completion of internal fit out eg carpet, kitchen facilities etc</li> </ul> </li> <li>▪ <b>St Marys Footbridge:</b> <ul style="list-style-type: none"> <li>○ Continuation of piling works</li> <li>○ Establishment of a site compound</li> </ul> </li> <li>▪ <b>Water:</b> <ul style="list-style-type: none"> <li>○ Continue trenching adjacent to Mamre Rd</li> <li>○ Sorting and recycling or disposal of spoil</li> <li>○ Continue trenching on Luddenham Rd from the bridge to Mamre Rd</li> </ul> </li> </ul>	
<b>ER Inspections</b>	
<p>There were no (0) ER inspections of the SPO, one (1) inspection of the St Marys Station Footbridge, and two (2) inspections of the AEW Water contract undertaken by [REDACTED] in July 2023 (ER inspections are on a fortnightly cycle weather and health permitting). No inspections of the SPO were undertaken as the site was shutdown following a significant incident.</p> <p><b>St Marys Footbridge</b></p> <ul style="list-style-type: none"> <li>▪ <b>18/07/2023</b> - Key points/ issues raised during this inspection were as follows: <ul style="list-style-type: none"> <li>○ Boundary screening and signage needed to be installed as per CEMP requirements prior to works commencing.</li> <li>○ Existing ERSED controls and captured sediment within the site compound needed to be replaced and cleaned up to comply with the ESCP</li> </ul> </li> </ul>	



- An ecologist needed to make an assessment of any trees to be trimmed. LoR are to minimise trimming to the greatest extent possible

**AEW Water**

- **04/07/2023** - Key points/ issues raised during this inspection were as follows:
  - The initial inspection focused on the scope of works and the proposed methodologies Quickway intended to use
  - The compound was setup well and areas were clearly delineated
  - The temporary waterway crossing adjacent to Mamre Rd will need to take into account the requirements of the Blue Book and should be discussed with SM and the ER prior to implementation.
- **18/07/2023** - Key points/ issues raised during this inspection were as follows:
  - The site compound continued to be established and was progressing well.
  - Signage was required around the two tree protection zones within the compound.
  - As more machinery arrives on site and fuel is stored in containers additional spill kits will be required.

**Photos**

**St Marys Footbridge**



General layout of the works to sections of roofing have been removed



Initial sheds and equipment were brought onto the site compound area. Boundary screening and signage was not fully installed.

**AEW Water**



Site sheds have been setup at the Gipps St compound. Site screening and signage has been installed.



This tree protection zone has been established with paraweb and flagging.



Initial clearing has been undertaken adjacent to Mamre Rd

Mulch has been stockpiled which will be reused in ERSED controls

**Endorsed Document/s**

The following documents were endorsed/approved by the ER ( [REDACTED] )

- None for the period

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

- Out of Hours Application Form – Footbridge St Marys – Early Site Works Weekend 04, 22-24 July 2023 (rev 02)

**Complaints / Incidents / Non-compliance**

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

One (1) complaint was received during the period.

- 17/07/23 – The stakeholder was concerned about disruptions to their water supply during the AEW water works. Stakeholder also identified that there were existing leaking pipes. Sydney Metro did their own investigation of the leaking pipes and concluded that the pipes were leaking prior to commencing works on the site.

**Audits (specific to packages reported in this report)**

- The independent audit 4 commenced on 31 July 2023

**Looking Forward – Core Focus Areas**

Compliance with the DNVIS and OOHW applications for St Marys Footbridge and water management during drilling for the AEW water works.

**ER Closing Comments:**  
 The SSTOM Project Office (SPO) had a significant period where construction was suspended. The project is now entering the final stages and will start to demobilise towards the end of August. The AEW water contractor has managed to shift many of the evening and night works to day time periods following consultation with council for road occupancy licences. The St Marys footbridge is still in the early phases of works, works should increase towards the end of August when activities are not only confined to possessions.



## 2. Station Boxes and Tunnelling (SBT)

Contract Package	Environmental Representative/s
Station Boxes and Tunnelling (SBT)	
Key Construction Activities During the Period	
<ul style="list-style-type: none"> <li>▪ St Marys:               <ul style="list-style-type: none"> <li>○ Stub tunnel excavation and station box invert blinding in the east.</li> <li>○ Station box excavation, anchor, installation, and shotcrete within station box excavation from east to western areas.</li> <li>○ Station box spoil haulage to laydown area (haulage vehicle loaded directly on asphalt).</li> <li>○ Main (Station Plaza) Laydown spoil storage bay operational with ERSED controls upgraded further to collect water for treatment by the water treatment plant.</li> <li>○ Offsite Haulage of station box excavation spoil.</li> <li>○ Stub tunnel air extraction unit operation.</li> <li>○ Water treatment plant in operation.</li> </ul> </li>   <li>▪ Claremont Meadows Services Facility:               <ul style="list-style-type: none"> <li>○ Water treatment plant operating.</li> <li>○ Sediment basins operational.</li> <li>○ Shaft excavation, and material stockpiling and haulage.</li> <li>○ Shaft anchor installation.</li> <li>○ Regrading of western areas and removal of topsoils and spoil stockpiles in the area.</li> </ul> </li>   <li>▪ Orchard Hills:               <ul style="list-style-type: none"> <li>○ Spoil and topsoil storage.</li> <li>○ Reconfiguration, operation and maintenance of ERSED controls.</li> <li>○ Pre-cast tunnel segment storage in the north.</li> <li>○ Storage of tunnelling ancillary equipment.</li> <li>○ Assembly of the TBMs.</li> <li>○ TBMs launched and commenced tunnelling.</li> <li>○ Completed Construction of Spoil storage bays, and conveyor system and covered structure north of Station box.</li> <li>○ Storage of minor quantities of tunnel spoil.</li> <li>○ Station box excavation, soil nail installation and shotcreting.</li> <li>○ Stockpiling and removal of material to SCAW in SW corner of site at Kent and Lansdowne Roads.</li> <li>○ Stockpiling and removal of material to Nepean business Park in SE corner of site.</li> <li>○ Capping beams and uprights completed.</li> <li>○ Dive and station box construction, including base slab, completed south of and under Lansdowne Rd.</li> <li>○ Fencing along Lansdowne Rd verges completed.</li> <li>○ SSTOM vegetation removal in central areas completed.</li> <li>○ Site, including station Box south of Lansdowne Road being stabilised for handover to Sydney Metro, SCAW and SSTOM.</li> <li>○ Grout plant construction completed.</li> <li>○ Water treatment plant operation.</li> </ul> </li> </ul>	



- **Aerotropolis:**
  - Excavation of station box.
  - Shotcreting and soil nail installation on station box excavation walls.
  - Stub tunnel excavation using road-header.
  - Stockpiling and haulage offsite of station box and stub tunnel excavation spoil material.
  - Water Treatment plant construction completion and commissioning.
  - Remediation and disposal of additional ACM impacted areas along eastern boundary.
  - Filling of central eastern area to achieve final grades.
  - Sediment basin and swale drainage works.
- **Bringelly Services Facility:**
  - Excavation of shaft material near completion.
  - 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 in western stockpile area.

#### ▪ **Key Construction Activities Look Ahead**

- **St Marys:**
  - Water treatment plant operation.
  - Complete Stub tunnel excavation and station box invert blinding in the east.
  - Complete station box bulk excavation and shotcreting center to west.
  - Complete soil nail/anchor installation in station box excavation.
  - Anchor stressing and grouting.
- **Claremont Meadows Services Facility:**
  - Continue erosion and sediment controls reconfiguration 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 completion north of Lansdowne Rd.
  - Spoil and topsoil storage.
  - Reconfiguration, operation and Maintenance of ERSED controls.
  - Pre-cast tunnel segment storage in the north.
  - TBM tunnelling and tunnel spoil storage and haulage.
  - Water treatment plant operation.
  - Grout plant operation.
- **Aerotropolis:**
  - Complete final ERSED controls installation.
  - Complete stub tunnels.
  - Completion of perimeter clean and dirty water drainage swales.
  - Excavation of station box.



- Water Treatment plant operation.
- Complete filling of central eastern area to achieve final grade and stabilise areas south of station box.
- 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.
  - Complete bulk excavation of shaft.
  - Assess fate of potential ACM stored in western areas.

#### ER Inspections

There were three (3) ER Inspections conducted by [REDACTED] on 6/07/23 ([REDACTED]), 20/07/23 and 31/7/23 ([REDACTED]). ER inspections are on a fortnightly cycle weather and health permitting, however, inspection programmed for 3/August was brought forward to 31/7/23 to coincide with the IEA 3 inspection).

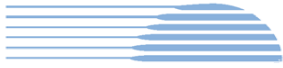
**6/07/2023** - Key points/ issues raised during this inspection were as follows:

- St Marys – Diversion for rainwater from laydown area away from northern live pits should be installed as a matter of priority.
- St Marys – Review ESCP and update depending on stage or works and risk e.g. haul road adjacent to the rail corridor.
- St Marys - Project signage consistent with Condition A46 not installed on haulage truck. Install correct signage for compliance.
- St Marys – Station St. sump and pump inlet from Gidley St blocked by placement of ballast causes heavily loaded water accumulation at the bottom of Gidley St, exacerbating risk of sump bypass and overflow to unprotected pits outside the site on Station St. Remove ballast from gutter inlet and implement SEEC (CPESC) recommendation to continue increased height of kerb (to return) as spill-over mitigation.
- Orchard Hills – South of Lansdowne Rd. CPBG to improve southern sediment fence installation as noted by SEEC (CPESC).
- Orchard Hills – Fit for purpose ERSED controls are to be installed in drainage lines to slow water flow, retain sediment and prevent scour into SB1
- Orchard Hills – Two unauthorized concrete washouts were observed, one near a drainage channel near SB8. Incident report to be raised by CPBG.
- Aerotropolis – Two trucks were observed without stickers complying with A46. To avoid a Non-compliance, CPBG is to ensure only trucks with stickers enter the site.
- Aerotropolis – Two concrete washout pits had slurry leaking from them. Bunds are to be compacted and neat to ensure all slurry is retained within the washout.

**20/07/2023** - Key points/ issues raised during this inspection were as follows:

- St Marys – Adequate controls installed, and site management significantly improved. CPBG to inspect and monitor controls to ensure they continue to operate as intended throughout site construction changes.
- St Marys – Station St. sump and pump inlet from Gidley St blocked by placement of ballast causing sediment loaded water accumulation at the bottom of Gidley St, risking overflow to unprotected pits outside the site on Station St. CPBG to review and implement options to ensure kerb and gutter flow-path to sump inlet is maintained.





- St Marys - CPBG to monitor dust generation from accumulations on laydown area and Gidley St hardstand and implement adequate mitigation measures.
- Orchard Hills – North of Lansdowne Rd ErSed controls at edge of access concrete apron to be improved and extended across verge to fence line, and verge to be stabilised for the long term and parking stopped along the verge.
- Orchard Hills – South of Lansdowne Rd areas along eastern boundary to be graded and ErSed controls installed satisfactorily prior to handover to SSTOM and Sydney Metro.
- Orchard Hills – South of Lansdowne Rd SB1 piped spillway outlet area disturbed by SCAW works and scour protection lost. CPBG to liaise with SCAW / SM to gain access and install adequate scour protection measures.
- Orchard Hills- South east corner north of Lansdowne road. CPBG to install adequate erosion and sediment controls, including along Lansdowne Rd, and dirty water diversions to SB3 in accordance with the ESCP (Rev 9 20/07/23). As they stand, erosion and sediment controls would not comply with the requirements of the Blue Book and, therefore, CoA E128.
- Aerotropolis – Main sediment basin 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. Discussed the works should occur prior to next (27 July 2023) CPESC Audit directed by DPE as this is an audit item requiring action. As they stand Erosion and sediment controls would not comply with the requirements of the Blue Book and, therefore, CoA E128.

**31/07/2023** - Key points/ issues raised during this inspection were as follows:

- St Marys – Dirty water noted at corner of Blair Av (north of Philip St). and Philip St likely due to tracking by non-haulage vehicles that bypass the truck wash. CPBG to review and adjust sweeping frequency of non-haulage routes on concrete in the laydown area to ensure tracking is limited to the extent practicable.
- St Marys - Along the southern hoarding west of Gidley St, grout like sediment residue was noted and sediment controls have been removed and not replaced adequately in some areas. CPBG to remove all sediment accumulations and reinstate displaced controls.
- Claremont Meadows - Areas south of the main central basin require adequate erosion sediment including diversions and swales that ensure dirty water flow to the sediment basin. CPBG to provide updated ESCP accurately representing site layout and features as well as current and required erosion sediment controls.
- Orchard Hills – South of Lansdowne Rd various areas require stabilization with a method with a durability and effectiveness commensurate with the duration of the caretaker period prior to handover to follow on contractors. Note that durability of most polymers/binders is up to 6 months only.
- Orchard Hills – South of Lansdowne Rd, the sump in the northeast corner of the site will be the responsibility of Sydney Metro (SM) / Frank Knight for a prolonged caretaker period. Sump will require management during that period to ensure it does not overflow into adjacent property. SM to provide the ER with an outline of the management process for the sump and the eastern portion of the site.
- Orchard Hills – ESCP provided is difficult to interpret/read due to annotations by CPBG. Consistent with the requirements of Section 9.2 of the Soil and Water Management Plan (SWMP), CPBG is to provide a clean ESCP accurately representing site layout and features as well as current and required erosion sediment controls, including confirmation of sizing of basins SB3 and SB1 given recent changes that include additional volumes being directed to these basins. The up-reved ESCP is to meet the requirements of the Blue book for ESCPs and is to be prepared/reviewed by SEEC in accordance with Section 7.6 (paragraph 1) and Section 9.2 of the SWMP.



- Orchard Hills - Uncontrolled concrete washout occurrences not in accordance with the SWMP were observed throughout southeast areas of the site. CPBG to provide adequate facilities and conduct sufficient worker education, awareness and supervision to ensure the commitments in Section 7.2 of the SWMP are observed/implemented, and compliance with Condition C10 is not jeopardized.
- Aerotropolis –Consistent with the requirements of Section 9.2 of the Soil and Water Management Plan (SWMP), CPBG is to provide a revised ESCP accurately representing site layout and features as well as current and required erosion sediment controls, including confirmation of sizing of basins. The revised ESCP is to meet the requirements of the Blue book for ESCPs and is to be prepared/reviewed by SEEC in accordance with Section 7.6 (paragraph 1) and Section 9.2 of the SWMP.
- Aerotropolis - ErSed controls required along the eastern boundary, at ACM excavation low points and broken pipe.

**Photos**



**Orchard Hills: View north of completed dive structure and excavation under Lansdowne Rd.**



**Lansdowne Rd. view south east – stabilization to be completed with a durable method.**



**Orchard hills: View north at tunnel portal with TBM1 tunneling and TBM2 preparation.**





**View north inside Orchard Hills tunnel spoil shed and conveyor system with spoil storage underway**





<p><b>St Marys laydown: Wall and sump constructed upgradient of low point live stormwater pit.</b></p> 	<p><b>St Marys Laydown: ErSed controls well implemented around live stormwater pits.</b></p> 
<p><b>View north along Gidley St.:CPBG to monitor and mitigate dust from accumulations on hardstand.</b></p> 	<p><b>St Marys: Soil on Station St (onsite) west of Gidley St to be swept &amp; pit at goods shed protected.</b></p> 
<p><b>St Marys: Wheel wash in operation, with collection sump constructed adjacent to prevent spill-out.</b></p> 	<p><b>St Marys: Dirty water noted at corner of Blair Av (North) and Philip St.</b></p> 
<p><b>Bringelly Services Facility: Spoil stockpile stabilised.</b></p> 	<p><b>Bringelly Services Facility: Sediment basin and inlets well installed and managed.</b></p> 



<p><b>Aerotropolis along eastern boundary: ErSed controls required at low points and broken pipe.</b></p>	<p><b>Aerotropolis station box: View south of station box and stub tunnel excavations.</b></p>
	
<p><b>Aerotropolis view east: Southern clean water swale, and adjacent area awaiting stabilisation.</b></p>	<p><b>Claremont Meadows Services Facility: Services shaft excavation spoil storage and load-out.</b></p>
<p><b>Endorsed Document/s</b></p>	
<p>No documents were endorsed by the ER.</p> <p>The following documents were provided for information or review:</p> <ul style="list-style-type: none"> <li>▪ June Monthly Monitoring Reports comprising Dust (real-time), Noise and Surface Water.</li> <li>▪ CPESC audit (North) dated 30 May 2023</li> <li>▪ CPESC audit (South) dated 9 June 2023</li> <li>▪ Environmental review/Consistency Assessment: Aerotropolis Overland Pipeline for Water Treatment Plant Discharges- draft dated of 7/7/2023.</li> </ul>	
<p><b>Complaints / Incidents / Non-compliance</b></p>	
<p>No Non-compliances with the Approval were identified by or reported to the ER this period.</p> <p>Two show Cause Letters from the EPA in relation to the EPL, for activities at Claremont Meadows and St Marys, were reported to the ER.</p> <p>There were no incidents of note identified by or reported to the ER this period.</p> <p>Eleven (11) complaints were reported to the ER:</p> <ul style="list-style-type: none"> <li>▪ 1/7/2023– Orchard Hills - Complaint regarding excessive frequency of watercart use on Kent Rd resulting in traffic impacts and overwatering. Stakeholder was reportedly informed the watercart rounds frequency will be reduced and it will only be used as required. Stakeholder reportedly satisfied with response. ER has noted significantly reduced use of watercart during July inspections.</li> <li>▪ 4/7/2023– Orchard Hills – Complaint regarding after light spill to 57 Kent Rd. Stakeholder was reportedly informed that day makers in segment storage area on site are required for worker safety purposes. Project reportedly investigating if further mitigation can be implemented and also investigating at receiver options by way of block out blinds, if required.</li> <li>▪ 5/7/2023– Orchard Hills Stakeholder complaint about mud tracking on Kent Road. Stakeholder was reportedly informed of regulations, EPL and CoA and project reportedly offered to email further Project information. Reportedly, project information was provided on mitigation measures, including wheel-wash and rumble grids and updated watercart usage (decreased) and street sweeper usage increasing from week of complaint. Project requested ongoing feedback on changed water cart and street sweeper operation.</li> <li>▪ 6/07/2023 – Orchard Hills – Complaint regarding after hours noise at Orchard Hills site. Stakeholder was reportedly informed of EPL conditions and approved activities, including continuation of concrete pours beyond standard construction hours under certain conditions, and that works were</li> </ul>	



being conducted per the EPL. Stakeholder reportedly satisfied with response, information and outcome.

- 10/7/2023– Orchard Hills – Complaint regarding after hours noise (reverse "beepers") at Orchard Hills site, with stakeholder informed of EPL permitting work low impact work OOH. Also informed stakeholder that based on her feedback, the team are going to conduct these works during the day where possible. Stakeholder reportedly appreciative of prompt response, action and outcome.
- 14/7/2023– - St Marys – Complaint regarding dust from St Marys site. Stakeholder was reportedly informed again of scope of work at St Marys, dust mitigation in place on site that include dust scrubber units providing at source, dust extraction from tunnelling operations, misting spray units (water cannons) in operation when required including after-hours work, excavation machinery with sprayer attachments to mitigate dust at the source, and continual wetting down of haul roads. Also reportedly informed of additional measures put in place including stockpile in the plaza area kept damp throughout the night, with sprinklers increased or decreased according to weather conditions, implementation of an after-hours tunnel operations/box spotter to provide reports of any dust generating activities, particularly during after-hours work. Stakeholder very appreciative of call back and response. Commented that she was impressed with the information provided and thankful for the goodwill offer. Project reportedly re-offered car wash voucher together with additional St Marys small business voucher, which the stakeholder accepted. Stakeholder was reportedly appreciative of the thorough investigations and response.
- 25/7/2023– St Marys – Complaint regarding dust from St Marys site - dust mites in his home. They had home exterminated on Friday 21 July 2023, and reportedly exterminator advised stakeholder that the source of the dust mites is external and he is unable to control the source so unable to eliminate dust mites within the home. Stakeholder reportedly satisfied with immediate response and action. Project reportedly Investigating.
- 26/7/2023 - St Marys – Complaint regarding dust from St Marys site and parking on Phillip St. Stakeholder was reportedly informed of scope of work at St Marys, dust mitigation in place on site that include dust scrubber units providing at source dust extraction from tunnelling operations, misting spray units (water cannons) in operation when required including after-hours work, excavation machinery with sprayer attachments in place, wetting down of haul roads including Phillip St. (water cart on regular route on Phillip St to Lethbridge St). Also, reportedly informed stakeholder that workers would be tool-boxed at pre-starts regarding parking in Phillip St, and parking in staff carpark or public parking area behind Queen St reiterated. Stakeholder very appreciative of call back and response. Commented that she was impressed with the information provided and thankful for the goodwill offer. Project reportedly offered St Marys small business voucher.
- 27/7/2023– St Marys – Complaint regarding dust and noise from St Marys site. Stakeholder was reportedly informed of scope of work at St Marys, made aware of dust mitigation on site, licenced under EPL to operate 24/7 for tunnelling and OOH work in the box. Project reportedly offered a car wash voucher and St Marys small business voucher as impacted by work. Project reportedly advised stakeholder they would call him back after an investigation as to any new OOH scope of work.
- 31/7/2023 – St Marys – Complaint regarding dust from St Marys site from large stockpile close to their property. Project reportedly Investigating implementation of additional dust mitigation measures. Subsequently the project reported to the ER that sprinklers are in use on hoarding, and



haul routes within laydown area are now swept with greater frequency to reduce dust accumulations on concrete hardstand.

- 31/7/2023– St Marys – Complaint regarding stockpile and dust on Phillip Street. Stakeholder was reportedly informed of additional measures being implemented that include increasing pressure, on sprinkler systems and use of an automatic timer, wetting down of the site during the night and additional road sweeper dedicated to route around the site. Project reportedly offered stakeholder car wash vouchers.

**Audits (specific to packages reported in this report)**

- IEA Audit 3 site inspection conducted on 31/7/23.

**Looking Forward – Core Focus Areas**

Planning and implementation and maintenance of environmental controls during upcoming period of works acceleration to meet handover milestones. Adequate stabilisation of sites for handover and any caretaker periods by Sydney Metro

**ER Closing Comments:**

The project is going through a period of works acceleration, to meet handover milestones to follow on packages/contractors. This is reflected in the numbers of issues identified by the ER, and the increase in complaints as the environmental team adapts. However, adequate control and mitigation measures are now substantially in place, and the contractor has been receptive to requests for improvements to planning of controls (i.e. updated, clear ESCPS) and greater surveillance during this period to address increased risk associated with dust and water management.



### 3. Surface and Civil Alignment Works (SCAW)

Contract Package	Environmental Representative/s
Surface and Civil Alignment Works (SCAW)	[REDACTED]
<b>Key Construction Activities During the Period</b>	
<ul style="list-style-type: none"> <li>▪ Patons Lane:               <ul style="list-style-type: none"> <li>○ An additional compound area is being prepared for the SCAW operations once SSTOM takes possession of the site.</li> <li>○ Wheel wash facilities are in the process of being installed</li> <li>○ Out of hours sandstone stockpiling is complete.</li> <li>○ Filling activities continue on the formation.</li> </ul> </li>   <li>▪ Stabling and Maintenance Facility (SMF) Orchard Hills:               <ul style="list-style-type: none"> <li>○ The SMF works are largely complete and this area will be handed over to SSTOM in the coming weeks.</li> <li>○ Stockpiling of vegetation is occurring for use during SSTOM works</li> <li>○ Creek crossing and piling pad is being established at Blaxlands Creek</li> </ul> </li>   <li>▪ Luddenham Station:               <ul style="list-style-type: none"> <li>○ Piling continues.</li> <li>○ Construction of Luddenham Rd roundabout continues</li> <li>○ Structural station works continue.</li> </ul> </li>   <li>▪ Luddenham Road South:               <ul style="list-style-type: none"> <li>○ Works for the establishment of minor ancillary facility have commenced.</li> <li>○ Structural works have commenced.</li> <li>○ Sediment basin constructed adjacent to Cosgrove’s Creek is being finalised</li> </ul> </li>   <li>▪ M12 to Cosgrove’s Creek:               <ul style="list-style-type: none"> <li>○ Parapets have been installed on the M12 bridge.</li> <li>○ Sandstone is being used to build the formation south of Cosgroves Creek.</li> <li>○ Cosgroves creek flood retention basin work is ongoing</li> </ul> </li>   <li>▪ Elizabeth Drive:               <ul style="list-style-type: none"> <li>○ Dam dewatering has occurred.</li> <li>○ OOHW sandstone delivery has commenced</li> <li>○ Weed suppression has commenced</li> </ul> </li> </ul>	
<b>Key Construction Activities Look Ahead</b>	
<ul style="list-style-type: none"> <li>▪ Patons Lane:               <ul style="list-style-type: none"> <li>○ The SSTOM contractor will take possession of the compound.</li> <li>○ Two wheel wash facilities will be operational</li> <li>○ Spray seal will be applied to haul roads.</li> <li>○ Environmental controls will be maintained during handover to SSTOM.</li> </ul> </li> </ul>	



- **Stabling and Maintenance Facility (SMF) Orchard Hills:**
  - Sections will be handed over to SSTOM
  - Blaxland Creek crossings will be utilised for works north of the creek.
  - Piling pads will be constructed.
  - Piling works will commence.
- **Luddenham Station:**
  - Sections of the site will be handed over to SSTOM
  - Precast elements for the viaduct will continue to be installed
  - 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.
- **M12 to Cosgroves Creek:**
  - Preparation for piling activities.
  - Sandstone will be placed on the formation
  - Construction of the 30ML basin continues which will ultimately be a flood mitigation basin.
- **Elizabeth Drive:**
  - Final bridge works to occur prior to handing this area over to the M12 contractor
  - Weed removal works.
  - Ongoing stabilisation activities.

#### ER Inspections

There were two (2) ER Inspections in July 2023 (ER inspections are on a fortnightly cycle weather and health permitting).

- **13/07/2023 (██████████)** - Key points/ issues raised during this inspection were as follows:
  - Erosion and sediment controls around Blaxland's Creek have been installed and maintained well, the site supervisor should be recognised for this good work.
  - Tree flagging has been taken down in isolated examples at Luddenham North and Luddenham South, this was reinstated and materials removed from the drip line.
  - The ERSED strategy at the Luddenham roundabout relies on weather forecasts and installation of controls prior to events resulting in sheet flow. The environment team needs to ensure controls are installed with enough time prior to the rain event.
  - Grout from the pile closest to Cosgrove's Creek at Luddenham South has spilled and was stopped by ERSED controls.
  - A small pile of rubbish near the Warragamba pipeline at Luddenham north needs to be removed.
  - Wheel washes and rumble grids need to be installed across the site at areas where mud tracking is a risk.



- Sydney Metro need to provide a direction to CPBUI regarding the storage of timber. Controls need to be placed around these stockpiles to prevent vermin habitation.
- **27/07/2023** ( [REDACTED] ) - Key points/ issues raised during this inspection were as follows:
  - The site is well managed and the waterway crossings have been installed to a high standard
  - Focus needed to be placed on closing out some of the overdue actions from previous inspections.
  - The small pile of waste at Luddenham south should be tested and disposed of
  - The remaining trees at Luddenham south should be mulched or disposed of to prevent vermin occupying them
  - Wheel washes have been ordered for site across the project, Pattons Lane should be installed within two weeks

**Photos**



**M12 Bridge- Parapets are being installed on the bridge structure before being handed over to the M12 contractor**



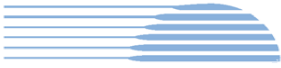
**M12 Bridge - The parapets have been completed on the M12 bridge**



**Cosgroves Creek - Sandstone is being used as fill for the formation**



**Cosgroves Creek A bund has been added to the top of the sandstone fill to prevent scour and runoff**



**Cosgroves Creek - Tree removal across Cosgroves Creek is occurring to facilitate the viaduct structures**



**Cosgroves Creek - Cosgroves Creek has been blocked with a pump around to keep the works area dry and minimise the change of water pollution**



**Luddenham South - Grout overflow from the concrete works on this pile has been stopped by the ERSED controls and was cleaned up**



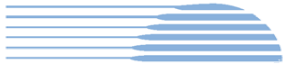
**Luddenham South - Piling works continue at Luddenham South**



**Luddenham North – Water from piling is captured and transferred to a treatment tank**



**Luddenham North - The main entry / exit track at Luddenham North is in the process of being sealed**



**Luddenham North - Precast elements have been installed on the viaduct**



**Luddenham North - Concrete washout trays have been used at Luddenham North**



**Defence - The entry to the Defence land has sandstone applied to it to minimise dust and a wheel wash has since been delivered for installation**



**Defence - Mulch stockpiles have been nominated on the Defence land to be reused in the SSTOM works**



**Blaxland's Creek'- Work continues on the creek crossing and the piling pad at Blaxland's Creek**



**Blaxland's Creek - ERSED controls have been installed and maintained at Blaxland's Creek**



<p><b>Blaxland's Creek North - Works are progressing on the abutment north of Blaxland's Creek</b></p>	<p><b>Blaxland's Creek North - Timber has been stockpiled for reuse by the SSTOM contractor, vermin needs to be controlled in these stockpiles</b></p>
<p><b>Unnamed tributary - A geofabric bund and blockages have been installed in the unnamed tributary ahead of works in the channel</b></p>	<p><b>Lansdowne Rd - The sump on the Orchard Hills site just south of Lansdowne Road has the potential to flood the SCAW haul road. Sydney Metro is maintaining responsibility of this sump during a prolonged caretaker period</b></p>
<p><b>Endorsed Document/s</b></p>	
<p>The following documents were endorsed by the ER:</p> <ul style="list-style-type: none"><li>▪ Nil this period</li></ul> <p>The following documents were provided for information or reviewed:</p> <ul style="list-style-type: none"><li>▪ Six Monthly Construction Monitoring Report, October 2022 – April 2023 (rev A)</li><li>▪ Six Monthly Construction Monitoring Report, October 2022 – April 2023 (rev B)</li><li>▪ Detailed Noise and Vibration Impact Statement 4. Warragamba Pipeline Works, Luddenham Roundabout Works and Full Viaduct Alignment – Cosgrove's Creek to Patons Lane (rev B)</li></ul>	
<p><b>Complaints / Incidents / Non-compliance</b></p>	
<p>No non-compliances were reported to or identified by the ER for the period.</p>	
<p>No incidents of note were reported to the ER during the period</p>	



Two (2) complaints were reported to the ER during the period as follows:

- 12/07/23 – Complaint about noise from out of hours work inside the project alignment north of Patons Lane, Orchard Hills. The SCAW Community Place Manager spoke with the stakeholder to inform them that the work would decrease, with just 3 nights left. The stakeholder was happy to hear about the completion of the night work in this area and the process of how their feedback was handled.
- 18/07/23 - Stakeholder raised a complaint regarding truck and dog sandstone deliveries to the Elizabeth Drive, Badgerys Creek Site Compound. SCAW Community Place Manager emailed the stakeholder advising that this was being investigated. Community Place Manager provided feedback to WSACO regarding confirmed speeding by truck and dog vehicles entering their site compound opposite the M12 West Elizabeth Drive site compound. All SCAW sandstone deliveries will continue to be monitored for their travel route and driver behaviour. SCAW Community Place Manager requested if the stakeholder notices any unreasonable truck driver behaviour or have further feedback or concerns, to contact the project.

**Audits (specific to packages reported in this report)**

The independent audit 4 commenced on 31 July 2023

**Looking Forward – Core Focus Areas**

Closeout of overdue inspection items and escalation where required to Sydney Metro.

**ER Closing Comments:** The SCAW project director became involved in the mud tracking issue and the requirement to order additional facilities. This has been a positive step by the project and it is noted that additional wheel wash facilities are being installed on the project for use by SCAW vehicles. Integration with the SBT site and the future SSTOM sites could lead to confusion or resistance of implementing controls. So far the SCAW and SBT contractor have worked well together at the site south of Lansdowne Rd, however monitoring this relationship and implementation of controls will be something that the ER will focus on going forward. Erosion and sediment controls in and around the waterways continues to be of a high standard and has prevented a potential pollution incident from piling works at Luddenham South. The six monthly monitoring report is of an inadequate standard and multiple feedback sessions and comments made by the ER and Sydney Metro are yet to be fully rectified. This matter has been escalated within Sydney Metro.



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

Contract Package	Environmental Representative/s
Stations, Systems, Trains, Operations and Maintenance Package (SSTOM)	[REDACTED]
<b>Key Construction Activities During the Period</b>	
<ul style="list-style-type: none"> <li>▪ The Project is in the early engagement phase only.</li> <li>▪ Low Impact works for survey works were approved, however, no construction activities have occurred for SSTOM.</li> <li>▪ The project has reported that plans and monitoring programs were submitted to DPE for approval, with the exception of the Groundwater Monitoring Program which was approved by the ER.</li> <li>▪ Construction target start date is mid to late August 2023</li> </ul>	
<b>Key Construction Activities Look Ahead</b>	
Site establishment and first ER inspection expected to commence in August 2023	
<b>ER Inspections</b>	
There were no ER Inspections in July 2023. ER inspections are expected to commence in August.	
<b>Photos</b>	
Not applicable as no inspections to date.	
<b>Endorsed Document/s</b>	
<p>The following documents were endorsed by the ER:</p> <ul style="list-style-type: none"> <li>▪ SSTOM Visual Amenity Management Plan Rev 0.0</li> <li>▪ SSTOM Waste Management Plan Rev 1.0</li> <li>▪ SSTOM Groundwater Quality Construction Monitoring Program Rev 0.0</li> </ul>	
<b>Complaints / Incidents / Non-compliance</b>	
<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>	
<b>Audits (specific to packages reported in this report)</b>	
No audits were undertaken during the period.	
<b>Looking Forward – Core Focus Areas</b>	
<p>DPE endorsement of the Management Plans, commencing Principal Contractor site handovers and site establishment will be the key focus in August.</p> <p><b>ER Closing Comments:</b> The project team continues to form and build relations and has formed 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.

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11 July 2023

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

REF: 201209(D)\_GWMP\_REV\_0.0

Dear [REDACTED]

**RE: ER Endorsement of Groundwater Monitoring Program Rev 0.0**

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

The GWMP has been prepared in accordance with C13 and addresses the requirements of Conditions C14 and C16.

Revision 0.0 dated July 2023 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:

- The GWMP was submitted to the ER in accordance with Condition C18 for review and endorsement at least one month prior to the commencement of STTOM works.
- Previous versions of the document were reviewed and updated following comments from Sydney Metro and the ER.
- The SSTOM contractor has completed the necessary consultation with agencies (in this case DPE Water) as required by Conditions C13; and has addressed the issues raised as required by Condition A6. There remains one outstanding item to be clarified around the need to obtain a water access licence. To address this item, SSTOM/Sydney Metro is seeking external advice to confirm the need for such a licence. In the interim, the STTOM have included a commitment to update this plan within one month of the transfer of this obligation from the Station Box and Tunnelling (SBT) package of works to STTOM to ensure that the ongoing monitoring reflects the most recent monitoring data, and where necessary update the Groundwater Model prepared by SBT under Condition E134, and the STTOM GWMP



As an approved ER for the Sydney Metro Western Sydney Airport project, I have reviewed the GWMP 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 GWMP with the condition that it is updated as stated.

Yours sincerely



Environmental Representative – Sydney Metro Western Sydney Airport

31 July 2023

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

REF: 201209(D)\_WMP\_REV\_1.0

Dear [REDACTED]

**RE: ER Endorsement of the Waste Management Plan Rev 1.0**

Thank you for providing the Sydney Metro Western Sydney Airport (SMWSA) Waste Management Plan Rev 1.0 (the WMP) for the Stations, Systems, Trains, Operations and Maintenance (SSTOM) project.

The WMP has been prepared in accordance with Condition C1, including undertakings made in the documents listed in Condition A1 of the Sydney Metro Western Sydney Airport project approval (SSI 10051 dated 23 July 2021 and modified 14 April 2022).

It is noted that:

- Previous document versions were reviewed and updated following comments from Sydney Metro and the ER.
- Review of the WMP commenced one month prior to construction of the STTOM stage.

As an approved ER for the Sydney Metro Western Sydney Airport project, I have reviewed the WMP for consistency with the requirements in or under the Infrastructure Approval, and endorse the WMP as required by Conditions A32(d) and C8

Yours sincerely

[REDACTED]  
[REDACTED]

Environmental Representative – Sydney Metro Western Sydney Airport

31 July 2023

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

REF: 201209(D)\_VAMP\_REV\_0.0

Dear [REDACTED]

**RE: ER Endorsement of Visual Amenity Management Plan Rev 0.0**

Thank you for providing the Sydney Metro Western Sydney Airport (SMWSA) Visual Amenity Management Plan Rev 0.0 (the VAMP) for the Stations, Systems, Trains, Operations and Maintenance (SSTOM) project.

The VAMP has been prepared in accordance with Condition C1, including undertakings made in the documents listed in Condition A1 of the Sydney Metro Western Sydney Airport project approval (SSI 10051 dated 23 July 2021 and modified 14 April 2022).

It is noted that:

- Previous document versions were reviewed and updated following comments from Sydney Metro and the ER.
- Review of the VAMP commenced one month prior to construction of the STTOM stage.

As an approved ER for the Sydney Metro Western Sydney Airport project, I have reviewed the VAMP for consistency with the requirements in or under the Infrastructure Approval, and endorse the VAMP as required by Conditions A32(d) and C8

Yours sincerely

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