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Ms Alex McGuirk 7 March 2023

Compliance Officer- Government Projects Ref: 201209-ER_DPIE-February 2023

Department of Planning Industry and Environment

Locked Bag 5022 PARRAMATTA NSW 2124

Dear Alex,

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

Yours sincerely

Rui Henriques

Environmental Representative

Cc:

Sydney Metro: Hugh Chapman, David Virtue, Andew Smith, Tim Solomon, Foster Walker

DPIE: Major Projects Portal

Enclosed: ER Endorsement of SEMP R2 240223

Contract Package	Environmental Representative/s	
Sydney Metro - Western Sydney Airport	Rui Henriques/Alex Gale/Jo Robertson	
Advanced and Enabling Works (AEW)		

Key Construction Activities During the Period

SSTOM Project Office (SPO):

- The project team mobilised to site and established a temporary site office
- Noise curtains were installed along the fence on Harris Street
- Saw cutting activities have commenced
- o Screw piling has commenced with excavated material taken off site
- o Reinforcement cages have been delivered and are being checked and tied
- o Pedestrian diversions and signage has been installed around the site

St Marys Footbridge:

- Survey activities have commenced
- Construction activities have not commenced to date

Key Construction Activities Look Ahead

The Construction activities planned for the upcoming period for the Advanced Enabling Works (AEW) comprise of:

SSTOM Project Office (SPO):

- o Erecting the tower crane
- o Pour footings around the screw piles
- o Commence delivery of prefabricated office units

St Marys Station Footbridge:

- o Submission of CEMP to SM and the ER for endorsement
- Site establishment once CEMP has been endorsed

ER Inspections

There was one (1) ER Inspection conducted by Mr Alex gale in February 2023 (ER inspections are on a fortnightly cycle weather and health permitting). No inspections were undertaken on the St Marys Station Footbridge as construction is yet to commence.

- 14/02/2023 Key points/ issues raised during this inspection were as follows:
 - o SPO Turbid runoff was observed in the internal gutter, flowing towards the stormwater drain. Additional inline controls such as gravel bags were recommended.
 - SPO Turbid water retained behind an end of line control at the Harris St corner of the site collected sediment
 was to be removed.
 - o SPO The project installed noise blankets and created a portable noise enclosure, this is good practice.

Photos



Internal Gutter - Turbid runoff flowing towards the stormwater drain.



Northwest corner - Turbid water was retained and sediment accumulating.



Eastern site boundary – Acoustic blankets installed and a movable noise hoarding for specific tasks or items of plant

Northern Boundary - Noise blankets have been installed along the fence on Harris Street



Boundary Signage - Signage has been installed on the outside of the site fence in accordance with A47

Endorsed Document/s

The following documents were endorsed/approved by the ER (Mr Alex Gale)

SSTOM Project Office Site Establishment Management Plan (rev 2)

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

- SSTOM Project Office DNVIS 1 (rev 0)
- SSTOM Project Office DNVIS 1 (rev 1)

Complaints / Incidents / Non-compliance

No non-compliances or incidents were reported to or identified by the ER for the Period:

No complaints were received during the period:

Audits (specific to packages reported in this report)

Participated in Independent Environmental Audit 3, in particular the completed St Marys Lift Shaft and Stairs project

Looking Forward - Core Focus Areas

Compliance during the SSTOM Project Office (SPO) works. Compliance of the St Marys Station Footbridge CEMP

ER Closing Comments:

The SSTOM Project Office (SPO) has now commenced works approved under the project's SEMP. The environmental risk for the project is generally low, however this can lead to complacency and will be monitored by the ER. For the St Marys Station Pedestrian Footbridge CEMP has been submitted to Sydney Metro and the ER. The ER has offered workshops with Sydney Metro and the contractor to resolve the ER comments.

Contract Package	Environmental Representative/s	
Sydney Metro - Western Sydney Airport	Rui Henriques/ Alex Gale	
Station Boxes and Tunnelling (SBT)		

Key Construction Activities During the Period

Saint Marys:

- ERSED controls, grading and excavation
- o Western pilling pad established
- o Southern haul road completed
- o Eastern to central capping beam and upstand FRP
- o Central pile blinding and break-back
- Pilling in central and western pilling pads
- o Eastern station box excavation to 3 m into Bringelly shale rock ripping observed
- o Soil nail installation and shotcrete within station box excavation
- Water treatment plant construction completed
- o Main (Station Plaza) Laydown slab spoil storage bay and sediment control establishment
- Spoil and construction materials stockpiling in main laydown area

Claremont Meadows Services Facility:

- o Erosion sediment controls operation and maintenance
- o Bulk excavation of shaft to 10 m
- o Ring Cap FRP.
- Spoil stockpiling and haulage offsite.

Orchard Hills:

- o General Site establishment works, soil stockpiling,
- Spoil and topsoil storage
- o Hording completed
- o Installation of ERSED controls
- Pre-cast tunnel segment storage in the north
- Central tunnel segment storage pad FRP in the west
- Storage of TBM elements assembly with tower crane in the central tunnel segment storage pad
- o Tower crane assembly completed
- Capping beam FRP in central areas of station box
- o Lansdowne Rd bridge deck FRP ongoing
- o Pile break-back and blinding in central and southern areas
- Preparation of pilling pad south of Lansdowne Rd completed
- o Pilling of Station box south of Lansdowne Rd
- o Conveyor storage south of Lansdowne Rd

Aerotropolis :

- Site establishment, including Ersed controls
- Topsoil stripping and asbestos contaminated soil excavation in DSI Moderate risk area
- Loadout of contaminated material
- o Excavation of perimeter drainage lines
- o Excavation of southern extent of station box.
- Clean material stockpiling
- o Pilling, blinding and pile break-back for station box completed.
- Capping beam FRP in central area of station box

■ Bringelly Services Facility :

- o Completed ERSED controls installation
- o Continued Installation and commissioning of Water Treatment Plant
- o Shaft bulk excavation to 10m

Key Construction Activities Look Ahead

- Saint Marys:
 - o Continue to establish ERSED Controls
 - o Continue pilling at central to western portions
 - Continue blinding and pile break-back centre to west
 - o Continue capping bean construction east to west.
 - WTP commissioning
 - o Continue station box bulk excavation and shotcreting east to west
 - o Continue soil nail installation in station box excavation
 - o Continue main (Station Plaza) Laydown areas configuration and fit-out
- Claremont Meadows Services Facility:
 - o Continue Erosion sediment controls operation and maintenance
 - o Continue Water Treatment Plant operation and maintenance
 - o Ring Cap pours
 - Continue bulk excavation of shaft
- Orchard Hills:
 - o General Site establishment works, soil stockpiling,
 - Spoil and topsoil storage
 - o Hording completed
 - o Installation of ERSED controls
 - o Pre-cast tunnel segment storage in the north
 - Central tunnel segment storage pad FRP in the west
 - Storage of TBM elements and assembly with tower crane in the central tunnel segment storage pad
 - o Capping beam FRP in central areas of station box
 - o Lansdowne Rd bridge deck and parapets completion
 - Pile break-back and blinding in central and southern areas
 - o Complete pilling of Station box south of Lansdowne Rd
 - Conveyor storage south of Lansdowne Rd
- Aerotropolis :
 - o Continue ERSED controls installation
 - Complete surface asbestos contaminated soil removal works in area identified as moderate risk by the DSI
 - Loadout of contaminated material
 - o Excavation of perimeter drainage lines
 - o Excavation of southern extent of station box.
 - Clean material stockpiling
 - Capping beam FRP in central area of station box
 - Station box excavation from northern side, soil nail installation and shotcreting.
- Bringelly Services Facility:
 - o Continue Erosion sediment controls operation and maintenance
 - Complete Install and commission of WTP
 - Continue bulk excavation of shaft

ER Inspections

There were two (2) ER Inspections conducted by Mr Rui Henriques in February 2023 (ER inspections are on a fortnightly cycle weather and health permitting).

- 2/2/2023 Key points/ issues raised during this inspection were as follows:
 - o St Marys, Orchard Hills and Bringelly Implementation of erosion and sediment controls is not consistent with the current ESCP. It was noted during the inspection that Andrew Macleod (CPESC) visited the site to review ESCP implementation and changes required. CPBG to provide updated ESCPs.
 - o Generally Basins to be emptied within 5 days of last rain event (31/1/23) in accordance with the CSWMP and the ESCP.

- o St Marys- The main laydown pad completed with stockpilling of materials occurring. Implementation of erosion and sediment controls is not consistent with the ESCP. It was noted during the inspection that Andrew Macleod (CPESC) visited the site to review ESCP implementation and changes required. However, the ESCP has not been adequately implemented at the southern spoil stockpilling area. The ESCP must be implemented before greater volumes of spoil are stockpilled in the area..
- Significant mud tracking was observed on Phillip street and within Gidley St with street sweeper appearing to exacerbate the issue by smearing materials picked up from the construction site. An adequately designed wheel wash consistent with the ESCP and the CEMP should be installed as a matter of priority. Until that takes place the street sweeper should be dedicated to public streets (outside the construction site) only.
- At the St Marys, Southwest corner of Station St Sediment controls are not consistent with the ESCP. CPBG to install sediment controls consistent with the ESCP (i.e. sediment fence (SD 6-8), coir log or sandbag bund (SD FR-01) or similar..
- At St Marys, it was discussed during the inspection that the permanent stormwater drainage system along
 Station St, within the construction site, will be completed and live to the local stormwater system during
 construction. CPBG to ensure design allows for treatment of sediment ladden water bfore discharge as Station
 St is/ will be subject to significant haulage traffic and attendant tracking.
- At St Marys Northwest corner of Gidley St, Sediment laden water is currently retained with coir logs to prevent sediment transport to the TBI stormwater system. CPBG should consider a more durable and reliable control measure, such as an asphalt concrete berm across opening, to direct water to Station St.
- o At Aerotropolis, sediment controls in central depression along eastern boundary require repair and adequate installation to prevent undermining and bypass.
- 16/2/2023 Key points/ issues raised during this inspection were as follows:
 - o ESCPs consistent with the Blue Book have been provided for all sites
 - O St Marys- Checks should be installed in northern spoon drain of the ramp from Glossop St to reduce scouring on discharge to rail corridor. Installation should minimise risk of deterioration from traffic.
 - It was discussed during the inspection that the permanent stormwater drainage system along Station St, within the construction site, will be completed and live to the local stormwater system during construction. CPBG to ensure design include s adequate mittigation measures to prevent sediment ladden water from discharging as Station St is/ will be subject to significant haulage traffic and attendant tracking. Prior to use, CPB to provide mittigation measures in ESCP in accordance with the requirements of the Construction Soi and Water Management Plan.
 - o At Orchard hills erosion and sediment control implementation was well progressed and improved
 - O At Orchard hills tracking was noted from parking area on north side of Lansdowne Rd. A street sweeper was in operation, however, parking area should be stabilised to prevent tracking onto public road.
 - At Aerotropolis, significant tracking was noted from the site access. Site access required adequate stabilisation and measures to prevent bypassing the rumble grid, and rumble grid required cleaning out.

Photos



Orchard Hills Station box North – Station box excavation, shotcreting and soil nail installation within capping beam

Orchard Hills north, view south – Tower crane used for TBM cutting head assembly, and storage on central western tunnel segment storage area.



St Marys: Eastern station box excavation, shotcreting and anchor installation



St Marys Main (Station Plaza) Laydown area: Eastern rumble grid / wheel wash in operation and effective.



St Marys looking southeast from Gidley St: Negligible

St Marys looking west - General view, with eastern station box in the foreground and pilling at western extent.



St Marys - View west from Station pf completed western pilling pad.



Claremont Meadows view southwest - Shaft excavation spoil storage area





Claremont Meadows – View southwest along Great Western Highway of basin in operation and emptied

Claremont Meadows-Shaft excavation ring beam FRP





Bringelly Services Facility view north west—. Sed. Basin in operation and emptied

Bringelly Services Facility – Services shaft bulk excavation.



Aerotropolis: Station box south piling, blinding and western capping Beam FRP.



Aerotropolis: Station box north capping beam and upstand FRP.

Endorsed Document/s

No documents were endorsed by the ER.

The following documents were provided for information:

Nill documents

Complaints / Incidents / Non-compliance

Nil Non-compliances were identified by or reported to the ER this period. Nil incidents of note were reported to the ER this period.

Eight (8) complaints were reported to the ER:

 1/02/2023 – St Marys Complaint regarding dollar amount and choice of small business voucher as part of community benefits initiative and vibration. CPBG called stakeholder and advised no work associated with St Mary's

- site should cause ongoing vibration impacts. Offered vibration monitoring. Also offered alternate offer of movie tickets or visa in place of Small business voucher.
- 1/02/2023 St Marys resident compliant regarding St Mary's small business goodwill voucher dollar amount and choice of small business voucher as part of community benefits initiative and vibration.. CPBG called stakeholder and explained to stakeholder the programme and promotion of St Mary's small business and goodwill to stakeholders around the St Mary's site. Also explained voucher is valid until 2024.
- 2/02/2023 Bringelly resident compliant regarding truck speed along Derwent Road, council verge being mowed and the deteriorating condition of Derwent Road. CPBG called stakeholder and resolved queries.
- 2/02/2023 Council compliant regarding heavy vehicles and mud tracking on the road at St Marys. CPBG reportedly provided stakeholder information regarding dust mitigation on local roads. Also informed him we are installing a truck wheel wash on site which will prevent heavy vehicles leaving site with any debris. Also reiterated we have a street sweeper and water cart on regular rounds as part of our EPL requirements.
- 6/02/2023 Calverts Rd, Orchard Hills. resident complained regarding trucks using Homestead Road, Orchard Hills. Potholes on Homestead Road between Darvill and Calverts Roads . No close-out information provided to the ER.
- 13/02/2023 Lansdowne Rd, Orchard Hills., resident complained regarding dust and mitigation measures.. CPBG offered investigation and face to face meeting.
- 16/02/2023 Kent Rd, Orchard Hills., resident complained of light spill from Orchard Hills compound.. CPBG states that they informed stakeholder that lights on the decking area within the OHE compound would be turned off at night and day makers supporting the TBM assembly area would be turned to face east if work can still be carried out safely.
- 21/02/2023 Query by Orchard Hills stakeholder concerned approval for 24/7 work at Orchard Hills. Stakeholder
 also mentioned past collateral in reference to driveways. Upon investigation CPBG states that that deliveries were
 conducted out of hours in accordance with the EPL.

Audits (specific to packages reported in this report)

Participated in Independent Environmental Audit 3

Looking Forward - Core Focus Areas

Compliance with CoA E128 and C13

ER Closing Comments:

It was noted that implementation of erosion and sediment controls throughout all sites continues to improve. Environmental performance was generally good during the period, with increased efforts by the contractor to improve soil and water management and other aspects of the works with a collaborative and constructive approach to suggestions and recommendations.

Contract Package	Environmental Representative/s	
Sydney Metro - Western Sydney Airport	Alex Gale/Rui Henriques	
Surface and Civil Alignment Works (SCAW)		

Key Construction Activities During the Period

- Patons Lane:
 - o The remaining trees to be felled have been marked out
 - Sandstone is being brought into the haul road and stockpiled
 - The permanent access point is being constructed
 - o Erosion and sediment controls are being revised to suit the changing road configuration
 - o Sandstone is being brought into the haul road and stockpiled adjacent to the site office
 - The hill to the north of the compound is being cut down to final level
- Stabling and Maintenance Facility (SMF) Orchard Hills:
 - Site won material continues to be stockpiled

- o Sandstone is being hauled to the SMF during hours identified in E38
- o Erosion and sediment controls are being updated and additional drainage lines are being cut
- o The 12 ML basin is complete and the project is drawing water from it for use in construction
- Luddenham Station (Celestino property)
 - o A minor ancillary compound has been established
 - Access tracks have been installed and will be and will be covered to create all weather tracks
- M12 to Cosgroves Creek
 - o Trees have been cleared and are being either mulched or set aside for reuse
- Flizabeth Drive:
 - o The site compound is approaching completion
 - Topsoil has been spread on batters and grass is starting to germinate
 - Piling is complete and formwork is being installed ahead of concrete pours
 - o Nearly all the topsoil has been spread over the site and will be seeded

Key Construction Activities Look Ahead

- Patons Lane:
 - The main entry / exit point will be established following clearing of additional trees
 - Sandstone will continue to be brought to this part of the project, subject to an endorsed DNVIS
 - Environmental controls will be modified following changes in levels
- Stabling and Maintenance Facility (SMF) Orchard Hills:
 - Stockpiling of site won material and imported sandstone will continue at the SMF
 - o The project has contacted many stakeholders for reuse of trees and timber
 - Sandstone material will be brought into the SMF during the hours nominated under E38
- Luddenham Station (Celestino property)
 - o All weather access tracks will be installed
 - o Excavation to continue
- M12 to Cosgroves Creek
 - o Clearing will be completed
 - o Access tracks will be continued until Cosgroves Creek
 - o Environmental controls will be installed prior to ground disturbance
- Elizabeth Drive:
 - o Haul roads will be stabilised and complete
 - The site compound will be completed
 - Access tracks will be continued to be constructed to the northern end of the project
 - o Topsoil and seed will be applied to long term bunds and windrows

ER Inspections

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

- 07/02/2023 (By Mr Alex Gale) Key points/ issues raised during this inspection were as follows:
 - o Windrows at the M12 to Cosgroves site required further stabilisation
 - o The Concrete washout at the piling pad required maintenance
 - o The project has spread topsoil and many batters and grass had germinated starting to provide stabilisation

- o Hollows gained from the removal of habitat trees was offered to stakeholders
- o The project continued to look for alternative sources of water due to the requirements of construction activities
- 23/02/2023 (By Mr Alex Gale) Key points/ issues raised during this inspection were as follows:
 - o There was noticeable mud tracking at the exit point from the Luddenham Station site
 - Additional ERSED controls should be considered at the Luddenham Station exit
 - The main access track at Celestino is mud and should not be used in wet weather. Alternatively an all weather access track could be installed.
 - There were substantial numbers of weeds present on site within the proximity of the Elizabeth Drive site compound, these weeds need to be appropriately treated and removed.
 - o Two unbunded jerry cans were observed at the piling pad and should be stored in the adjacent bunded facility.

Photos



Patons Lane - The sediment basin at the compound is effective, with a lined outlet.



Patons Lane - Sandstone is being brought into Patons Lane out of hours



Patons Lane - Controls are being re routed to suit change in levels



SMF - New windrows formed are stabilised with either compaction, polymer or geofabric



SMF - Habitat trees cleared have been offered to stakeholders who may have a use for hollows as per E12



SMF - A pump and stand pipe has been set up at the 12ML basin to fill up the moxy watercarts



Elizabeth Drive - Significant levels of weeds were

observed within the site

Elizabeth Drive - Pipes installed across the haul roads to

allow flow from the M12 site to existing farm dams



Elizabeth Drive – Piling commenced on the northern end of the project



Elizabeth Drive –formwork installed for the upcoming concrete pours



Elizabeth Drive – the concrete washout was inadequate and needed rectification.



Elizabeth Drive - Water tank used to collect and reuse water within the site

Endorsed Document/s

The following documents were endorsed by the ER:

Nil this period

The following documents were provided for information or reviewed:

Surface and Civil Alignment Works – Detailed Noise and Vibration Impact Statement 03 (rev C) Material Delivery and
 Stockpiling

Complaints / Incidents / Non-compliance

Two complaints were reported to the ER during the period.

- o 16/02/23 Resident complaining about noise and dust from the earthworks at the Stabling and Maintenance Facility which is around 50+ metres from her property. CPBUI Environment Manager had been next door to the resident on 16/02/2023 undertaking monitoring. Monitoring results indicated noise exceedances. CPBUI Offered noise monitoring in two weeks the resident accepted this.
- 16/02/23 Resident is being impacted by noise and dust from the nearby earthworks for the Stabling and Maintenance Facility. She particularly noticed it the week prior when she was off work and unwell. CPBUI Environment Manager visited resident on 16/2/2023 and did attended noise monitoring. CPBUI Environment Manager noted the following:
 - o Noise monitoring didn't demonstrate any significant noise impacts (not highly noise impacted) but the works are now "visible" through the trees.
 - o The resident did mention things like re-zoning, not happy with the project being approved, etc, etc.
 - o The works are now more obvious.
 - Significant plumes of dust were not observed during the visit.

o Resident will be provided with car wash vouchers and noise cancelling headphones.

No incidents of note were reported to the ER during the period.

One non-compliance was reported to the ER during the period:

Clearing occurred in the area between the M12 Piling Pad and Cosgrove's Creek. It was identified that approximately 35m² of clearing in PCT 724 was undertaken outside the project clearing limit due to the error in boundary placement the day before. The CPBUI Environment Manager confirmed that clearing works had not been undertaken outside the project boundary and therefore involved vegetation assessed in the project EIS but had impacted PCT 724 to a greater extent (approx. 35 square meters) than what was considered in the Western Sydney Airport Metro SCAW Project – Revised Biodiversity Offset Credit Requirements Report. A non compliance report against E2 was completed.

CPBUI Environment Manager revised the Clearing and Grubbing Procedure in the SCAW FFMP to include an additional hold point for the CPBUI Survey Manager to confirm project clearing limits have been physically installed in the correct location.

Audits (specific to packages reported in this report)

Participated in Independent Environmental Audit 3

Looking Forward – Core Focus Areas

The SCAW project is increasing production and quantity of work. It is felt that additional environmental resources are required to provide adequate coverage and ensure compliance.

ER Closing Comments: The project has had two complaints, two incidents and one non compliance. While there may be limited resources to deal with the day to day management, the project did take these issues seriously and showed an interest in preventing future events, however corrective actions centred around system changes . As the project opens up new areas a focus needs to be placed on installing environmental controls prior to activities commencing that may have an environmental impact, this will be critical as the project works approach Cosgroves Creek.

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.

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Hugh Chapman
Director Sustainability Environment & Planning SMWSA
Sydney Metro
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

24 February 2023

Ref: 201209(a)_SEMP_R2

Dear Hugh

RE: Endorsement of the Sydney Metro Western Sydney Airport, Site Establishment Management Plan Advanced and Enabling Works, SSTOM Project Office (SPO)

Thank you for providing the Sydney Metro Western Sydney Airport, Site Establishment Management Plan Advanced and Enabling Works, SSTOM Project Office (SPO) (Rev 2), dated 15 February 2023 (the SEMP) for Environmental Representative (ER) review and endorsement, as required by Conditions of Approval A18, A19 and A20 of the Sydney Metro Western Sydney Airport project approval (SSI 10051 July 23, 2021):

It is noted that:

- Previous versions of the document have been reviewed and updated following comments from DPE.
- Sydney Metro have also reviewed and commented on the document.
- Evidence of consultation records has been provided to the ER in the SEMP.
- Following the above reviews, 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 now consider the SEMP consistent with the requirements in or under the Infrastructure Approval and the undertakings made in the documents listed in Condition A1.

Yours sincerely

Mu Jal

Alex Gale

Environmental Representative – Sydney Metro Western Sydney Airport