Sustainability Management Plan



Central Station Main Works Project Sustainability Management Plan



Project name	Central Station Main Works
Client	Sydney Metro City & South West – Sydney Metro
Client contract number	SMC
Laing O'Rourke contract number	K51

Revision history

Rev	Date	Description	Reviewed	INT/Date	Authorised
0	18.04.2018	Initial Draft For Client Review			
1	08/06/2018	Incorporation of Client comments Review			
2	01/08/2018	Issue to client for final pre-construction approval.			
3	12/06/2019	For Review			
4	19/10/2019	Update including comment from all previous metro review.			
5	20/11/2019	Updated with latest client comment			
6	30/04/2020	Minor updates to roles and responsibilities and to decision making an opportunities process.			



Rev	Date	Description	Reviewed	INT/Date	Authorised
7	4/6/2021	Updated to address Principal's comments regarding Section 4.10. Minor formatting changes, Laing O'Rourke Sustainability Policy updated, ISCA and Green Star score cards updated.	J Ashelford		
8	29/07/2022	Full review and updated from design to construction. Also updated to address Principals comments.	T Snyman		Alyssa Slaney

Management reviews

Review Date	Reviewed By	Details	Initial	Date
18.04.18	Jeremy Matterson		JWM	
30/04/20	Greg Cook			30/04/2020
02/06/21	Jannaya Ashelford		NC	04/06/2021
29/07/2022	Alyssa Slaney		AS	29/07/2022



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1. Introduction

1.1 Purpose and Application

This Sustainability Management Plan (SMP) outlines the sustainability management arrangements and along with the overarching Contract Management Plan (CMP) is integral to the Laing O'Rourke project management system that will be used to deliver the Sydney Metro City & South West Central Station Main Works Project (CSM).

This SMP specifies the sustainability requirements that the Project must meet to enhance sustainability performance. Consistent with the Project Sustainability Policy, the intended outcomes of the SMP include:

- enhancement of sustainability performance;
- · fulfilment of compliance obligations; and,
- achievement of sustainability objectives.

The SMP enables the Project to manage sustainability in a systematic manner, and is applicable to the Project, and all of the Project's activities, products and services that the Project determines it can either control or influence considering a life cycle perspective.

1.2 Sydney Metro City & South West – CSM

Sydney Metro City & Southwest is a new 30km metro line commencing at Chatswood (where the Sydney Metro Northwest terminates) under Sydney Harbour, through new Central Business District (CBD) stations and southwest to Bankstown. The Sydney Metro City & South West project is due to open in 2024 with the capacity to run a metro train every two minutes each way through the centre of Sydney.

The CSM project is a core component of the Sydney Metro City & Southwest project. The CSM works will enhance and support Central Station as a gateway to the city and NSW transport network delivering a multi modal interchange with links between Sydney Metro, the existing suburban and intercity rail network, and light Rail.

The CSM Works comprise Metro Station Works, the Central Station Works, and the Central Walk Works the full scope of which are described in the Scope of Works and Technical Criteria (SWTC).

1.3 Sydney Metro City & Southwest Sustainability Strategy

Sydney Metro is Australia's largest public transport project. Sydney Metro will deliver 31 metro stations and more than 66 kilometres of new metro rail, that intends to increase the capacity of Sydney's passenger rail system by 60% by 2024.

The Sydney Metro City & Southwest Sustainability Strategy 2017-2024 seeks to define sustainability, and as such defines that

"For Sydney metro 'sustainability' means optimising environmental and social outcomes, transport service quality, and cost effectiveness."

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Within the context of CSM, this SMP provides the governance framework to assist the delivery of the Sydney Metro Sustainability Strategy.

The related Sydney Metro Sustainability Strategy objectives are outlined in Table 1 below

Strategic Theme	Strategic Objectives
Governance	Demonstrate leadership by embedding sustainability objectives into decision-making.
	Demonstrate a high level of performance against objectives and appropriate benchmarks.
	Be accountable and report publicly on performance
Carbon and Energy	Improve the shift toward lower carbon transport.
Management	Reduce energy use and carbon emissions during construction.
	Reduce energy use and carbon emissions during operations.
	Support innovative and cost effective approaches to energy efficiency, low-carbon / renewable energy sources and energy procurement.
Environmental	Reduce sources of pollution and optimise control at source to avoid environmental harm.
Performance	Comply with environmental obligations outlined in applicable project planning approvals.
Climate Change Resilience	Infrastructure and operations will be resilient to the impacts of climate change.
Resources – Water	Minimise use of potable water.
Efficiency	Maximise opportunities for reuse of rainwater, stormwater, wastewater and groundwater.
Resources – Waste	Minimise waste through the Project lifecycle.
& Materials	Reduce materials consumption.
	Consider embodied impacts in materials selection.
	Maximise beneficial reuse of spoil.
Biodiversity Conservation	Protect and create biodiversity through appropriate planning, management and financial controls.
Heritage Conservation	Protect and promote heritage through appropriate design, planning, and management controls.
Liveability	Promote improved public transport patronage by maximising connectivity and interchange capabilities.
	Provide well-designed stations and precincts that are comfortable, accessible, safe, and attractive.
Community benefit	Make a positive contribution to community health and well-being.
	Ensure community and local stakeholder engagement and involvement in the development of the Project.
	Contribute to the delivery of legacy projects to benefit local communities.
	Create opportunities for local business involvement during the delivery and operations phases.
	Optimise community benefit of residual land development.
	Minimise negative impacts on the community and local businesses during construction and operation.
Supply Chain	Influence contractors, subcontractors, and materials suppliers to adopt sustainability objectives in their works and procurement.

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Strategic Theme	Strategic Objectives
Workforce Development	Increase opportunities for employment of local people, participation of local businesses, and participation of small and medium sized enterprises (SME's)
	Enable targeted and transferable skills development, which resolves local and national skills shortages, supports industry to compete in home and global markets, and embeds a health and safety culture within all induction and training activities, promoting continuous improvement.
	Increase workforce diversity and inclusion, targeting indigenous workers and businesses, female representation in non-traditional trades, and long term unemployed.
	Inspire future talent and develop capacity in the sector, engaging young people via education and work experience, collaborating with higher education institutions to provide programs responding to rapid transit and other infrastructure requirement, and supporting vocational career development through apprenticeships and traineeships.
Economic	Consider adopting a whole-of-life costing model to maximise sustainability benefits. Optimise development opportunities for residual land. Capture sustainability benefits in the business case for the project.

Table 1. Sydney Metro strategic objectives summary

1.4 Plan Interactions

The SMP enables the Project to manage sustainability in a systematic manner, and is applicable to the Project, and all of the Project's activities, products and services that the Project determines it can either control or influence considering a life cycle perspective.

Associated with the SMP are three sub-plans

- Construction Carbon & Energy Plan SMCSWSMC-LOR-SMC-SU-PLN-000002
- Waste Management & Recycling Plan SMCSWSMC-LOR-SMC-SU-PLN-000003
- Materials Management Plan SMCSWSMC-LOR-SMC-SU-PLN-000004

Similarly, applicable sustainability actions have also been integrated into the following Project plans;

- Contract Management Plan
- Interface Management Plan
- Risk Management Plan
- Procurement Plan
- Engineering Management Plans
- · Environmental Management Plans
- Construction and Site Management Plan
- Community Communications Strategy
- Interface Management Plan
- Design Management Plan

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1.5 Update and Ongoing Development

The SMP will be progressively reviewed, monitored, amended, and updated. During review, the SMP will be reassessed for applicability, suitability, and effectiveness. The SMP will be updated every 6 months as required. Each update of the SMP will be submitted to the Principal's Representative for review, in accordance with the Contract.

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2. Sustainability Planning

2.1 Sustainability Policy

2.1.1 Sydney Metro Statement of Commitment

The Sydney Metro statutory authority, the project proponent, is the NSW Government agency delivering the city's new world-class metro railway system.

The Sydney Metro Sustainability Framework, which also includes the Sydney Metro's Environment & Sustainability Statement of Commitment is publicly available on the Sydney Metro website.

The commitment document publicly demonstrates Sydney Metro's commitment to delivering positive environmental and sustainability outcomes on the project leaving an environmental and social legacy, driving resilience, collaborating to deliver sustainable outcomes and embedding sustainability objectives and targets taking a whole of life approach.

LOR as the CSM Contractor must: deliver on the sustainability requirements across the key themes outlined in the Sydney Metro City & Southwest Sustainability Strategy.

Delivery on the Sydney Metro Strategy and Policy will be through the achievement of the associated Objectives and Targets in Table 2 below, the delivery of the CSM Obligations (Section 2.3), and the implementation of this SMP and related sub plans.

2.1.2 Laing O'Rourke Corporate Sustainability Policy

In addition to the delivery of the Sydney Metro Sustainability Strategy and Policy, Laing O'Rourke Australia's Sustainability Policy applies and will be implemented on the on the CSM Project. This is attached Appendix A.

The project will operate under the LOR Environmental Management System. Laing O'Rourke Australia Construction Pty Limited operates an environmental system compliant with AS/NZS ISO 14001. The Company is currently certified (No. 4749) with Sci Qual International (expiry October 2023).

Both the CMS CEMP and this SMP and the respective sub-plans describe the Environmental and Sustainability Management System for the CSM Project. All sub-contractors engaged by the Principal Contractor will be required to work under the Principal Contractor's E&SMS; this arrangement shall be described in tender documentation and confirmed in subcontracts issued by the CSM Project.

2.2 Objectives & Targets

The Sydney Metro Sustainability Strategy Themes and Objectives are summarised in Table 1 above. The CSM project targets have been aligned with the strategic themes and are set out in Table 2 below.

Strategic Theme	CSM Target	
Governance	ISCA- IS Rating:	
	achieve a Leading "Design" rating (minimum 79 points)	



Strategic Theme	CSM Target
Strategic Theme	CSM Target achieve a Leading "As Built" rating (minimum 79 points)
	achieve a Leading As Built Tating (Till lithight 79 points)
	Green Star
	 achieve a GSDABRT 'Design Review' rating of at least 5 stars for the design of the Works
	 achieve a GSDABRT 'As Built' rating of at least 5 stars for the delivery of the Works
	Note: Metro Station Works will be 'scoped out' of the IS rating. Green star tool will be used to assess Metro Station works only
Carbon and Energy Management	For those activities where ISCA IS Ratings are required achieve or exceed the following ISCA IS Rating Scheme Version 1.2 credit requirements:
	 Level 2 for credit Ene-1 'Energy and carbon monitoring and reduction target' demonstrating a greenhouse gas emissions reduction of 20 % below a base case footprint; and
	 Level 1 for credit Ene-2 'Use of renewable energy' to fully investigate opportunities for use of renewable energy.
	Achieve at least a 20 % reduction in greenhouse gas emissions associated with the Contractors Activities, measured against the CERT Base Case.
	The Metro Station must be designed to achieve a minimum 15% improvement over a reference station based on Section J minimum performance requirements as defined by the National Construction Code Building Code of Australia (NCC BCA). The 15% design improvement and reference station must include all building related energy end uses (excluding process, communication and specialist equipment energy loads)
	Central Station Works and Central Walk Works must be designed to achieve a minimum 15% improvement over a reference case based on Section J minimum performance requirements as defined by the National Construction Code Building Code of Australia (NCC BCA). The 15% design improvement and reference case must include all building related energy end uses (excluding process, communication and specialist equipment energy loads)
	Use a minimum 5% biodiesel mix for all diesel powered plant and equipment and a minimum 10% blended ethanol mix for all petrol powered plant and equipment wherever possible
	As a minimum, 25% of the total electricity being used is being offset through either one or a combination of the following:
	purchase of Australian Carbon Offset Credits; and
	 purchase of renewable energy from an Accredited Renewable Energy Supplier
	A photovoltaic (PV) system will be integrated within the Project Works that:
	I. Produces a minimum 450 kW array peak power output; and



Strategic Theme	CSM Target
	II. Is connected to the Central Station LV distribution network constructed as part of the Project Works.
Environmental Performance	Identify and implement pollution control initiatives in design and construction that target zero major pollution incidents.
	Where practicable, ensure that all excavators and mobile cranes used for the CSM Contractor's Activities, which are onsite for more than three months, comply with USEPA Tier 4 exhaust emission standards.
Climate Change Resilience	Identify all necessary adaptation measures that comprehensively address risks classified as "extreme" and "high" during the design life of the Works using AS/NZS ISO 31000:2009 Risk management – Principles and guidelines
	Implement measures to mitigate:
	(i) all climate change risks classified as "extreme" and "high"; and
	(ii) implement measures to mitigate at least 25% of all climate change risks classified as "medium"
Resources – Water Efficiency	For those activities where ISCA IS Ratings are required, the CSM Contractor must achieve or exceed the following ISCA IS Rating Scheme Version 1.2 credit requirements:
	 Level 2 for credit Wat-1 'Water use monitoring and reduction', demonstrating a reduction in water use of 10% compared to a base case footprint; and
	Level 1 for credit Wat-2 'Replace potable water', demonstrating that at least 33% of water used is from non-potable sources. If it is demonstrated by the Contractor, to the satisfaction of the Principal's Representative, that achieving Level 1 for credit Wat-2 is not economically viable, or requires the supply of water from outside the site boundary, then this target will be waived (with agreement of the For water used in onsite and offsite concrete batching plants which supply CSM:
	 Ensure that 80% of offsite and onsite batching plant concrete production operation water is recycled and incorporated into concrete production; and
	 Suspended solids content of recycled concrete production water must be controlled such that the water density is less than 1.01 g/mL and the suspended solids content does not exceed 15,000 ppm.
Resources – Waste & Materials	Use the most sustainable materials where possible, this will be achieved through the targeting of
	 Level 2 for credit Mat-1 'Materials footprint measurement and reduction', demonstrating a 20% reduction in materials lifecycle impacts compared to a base case footprint.
	2. Targeting the use of GECA materials (9%) by value
	Credit 26 Construction and Demolition Waste
	Points 1 and 2 above apply to activities where ISCA IS Ratings are required.
	The CSM Contractor must achieve or exceed the following ISCA IS Rating Scheme Version 1.2 credit requirements:
	Ensure that at least 95% of inert and non-hazardous construction and demolition waste, excluding spoil, and
	At least 60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively beneficially reused.

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Strategic Theme	CSM Target
	Identify and implement opportunities for recycling and reuse of non- putrescible general solid wastes (other than construction and demolition waste and office waste).
	Negotiate and implement packaging take-back arrangements with suppliers.
	Apply the minimum material specifications established in Materials Management Plan Section 2.3 (SMCSWSMC-LOR-SMC-SU-PLN-000004).
	Use reusable formwork where practicable.
	Use compostable or reusable temporary erosion control devices where practicable
Biodiversity Conservation	No CSM specific targets
Heritage Conservation	No CSM specific targets
Liveability	No CSM specific targets
Community benefit	Identify and implement at least eighteen (18) community benefit initiatives that provide demonstrable and tangible benefits to local community groups during the construction period.
	Identify and implement at least ten (10) community benefit initiatives that provide demonstrable and tangible benefits to the broader local community beyond the construction period.
Supply Chain	Achieve, as a minimum, the following for its procurement activities using the IS Rating Scheme version 1.2 tool:
	 Level 2 for Pro-1 "Commitment to sustainable procurement";
	 Level 3 for Pro-2 "Identification of suppliers";
	 Level 3 for Pro-3 "Supplier evaluation and contract award"; and
	Level 2 for Pro-4 "Managing supplier performance"
	Sustainability training is to be provided to High Impact Suppliers.
	As part of supplier evaluation carry out a procurement risk assessment of 100% procurement packs against critical objectives such as labour and human rights and the ability of the tenderer to impact or support the objectives and targets in this table.
Workforce Development	Dealt with in Workforce Development and Industry Participation Plan
Economic	No CSM specific targets

Table 2. CSM Sustainability Targets

2.3 Compliance Obligations

The Project has identified the key sustainability compliance obligations. These have been taken into account when preparing this SMP.

The key sustainability compliance obligations for The Project have been derived from the following contract documents:

- Scope of Works and Technical Requirements (SWTC)
- Management Requirements Sustainability (MR-Sy)
- Construction Environmental Management Framework (CEMF)

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Planning Approval – Conditions of Approval (CoA)

Note. Further compliance obligations will be identified as the project progresses. In some instances, 'derived' obligations will be generated by fulfilling the initial compliance obligations. For example, the completion of a Climate Change Risk Assessment as required by SWTC will identify further obligations in relation to high-risk items.

2.4 Roles and responsibilities

The Design, Engineering, and Systems Manager will hold the overall accountability for sustainability and will represent sustainability at the Senior Leadership Team level.

The Sustainability Manager will have primary responsibility for sustainability performance during design and delivery. The sustainability team will comprise the Sustainability Manager supported by a Sustainability Advisor. The sustainability team will be supported with specialist technical aspects of delivery by an ESD Consultant.

The Sustainability Team will manage the delivery of the contractual requirements, including the Infrastructure Sustainability (IS) and Green Star rating requirements.

To ensure the sustainability requirements are embedded into design, that they are delivered during construction, and that appropriate evidence is collated in a streamlined, value-for-money approach, the Design Team (DJV) will have a Sustainability Manager embedded within it. The DJV Sustainability Manager will work closely with the Project's Sustainability Manager.

Table 3 below summarises the roles and responsibilities of key positions involved in managing sustainability for the CSM Works.

Role	Responsibilities	
Project Director	Ensure adequate resources to fulfil sustainability commitments. Ensure sustainability performance and knowledge is communicated to steering committee and client representatives. Ensure the CSM Works meets its sustainability obligations throughout the design and delivery phases. Consult as required with the Project Sustainability Manager on sustainability matters.	
Project Technical Lead	Executive Leadership Team leader with responsibility for sustainability. Ensure sustainability performance and knowledge is communicated to the Senior Leadership Team client representatives. Ensure that CSM Works meets its sustainability obligations throughout the design and delivery phases. Consult as required with the Project Sustainability Manager on sustainability matters.	
Sustainability Manager Full-time resource Tertiary qualified Minimum five years' project	Member of the project team that has central responsibility for managing sustainability. Report against sustainability requirements. Establish programme controls and reporting systems across project for performance monitoring against targets. Demonstrate continuous improvement to management systems because of senior management reviews.	



Role	Responsibilities
sustainability	Ensure environmental, social, and economic risks and opportunities are assessed and
experience	addressed.
	Ensure sustainability objectives, targets and/or indicators are reflected in project contracts.
	Report on compliance and assurance including independent peer reviews.
	Provide sustainability training for procurement team and participate in industry engagement. Hold forums with key suppliers to discuss the sustainability targets and commitments for the project, including sustainability training for high impact suppliers.
	Provide advice to the sustainability team on delivery method implications.
	Provide leadership and technical direction to design, construction, commercial and operational personnel in relation to sustainability issues.
	Develop and implement the Delivery Phase Sustainability Management Plan, including subplans, to ensure consistency with other plans (e.g. the Construction Environmental Management Plan (CEMP) (SMCSWSMC-LOR-SMC-EM-PLN-000001)).
	Develop and deliver the sustainability training programme for relevant project personnel and contractors.
	Interface with, and report to, key project stakeholders in relation to sustainability issues, including TfNSW, Sydney Metro, and ISCA.
	Manage sustainability performance and reporting, including performance tracking against the ISCA IS Rating Tool.
	Develop and implement a sustainability compliance tracking system.
	Organise and facilitate sustainability management team meetings and assign actions to team members.
	Provide specialist planning and sustainability advice to the Project Director and other functional managers to facilitate design and construction.
	Develop and manage a team of planning and sustainability personnel and specialist consultants that are able and capable of leading contemporary innovative approaches and practices.
Sustainability	Manage and administer sustainability design ratings.
Advisor Full-time	Liaise with wider project team (including design, construction, stakeholder and community and contracts) to integrate sustainability requirements across the project.
resource	Collect and manage evidence to meet sustainability requirements.
Tertiary qualified Minimum two	Manage submission of evidence to ISCA and Sydney Metro to demonstrate compliance with sustainability requirements.
years' project	Collect and manage data associated with emissions, materials, waste and water on-site.
sustainability experience	Conduct sustainability audits as necessary.
	Report to Sustainability Manager.
Sustainability	Administer sustainability design ratings.
Coordinator Full-time resource	Working with the Sustainability Advisor, liaise with wider project team (including design, construction, stakeholder and community and contracts) to integrate sustainability requirements across the project.
Tertiary qualified	Collect evidence to meet sustainability requirements.
Minimum	Collect data associated with emissions, materials, waste, and water on-site.
experience of	Coordinate sustainability training on project as required.
LOR graduate programme sustainability rotation or equivalent	Report to Sustainability Manager.
Sustainability ESD Consultant	Provide technical advice in regards to sustainability initiatives including greenhouse gas calculations, embodied carbon, and life cycle analysis of materials.
Part-time resource	Bring expertise in forecasting and managing ISCA and Green Star ratings, and technical contract requirements.

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Role	Responsibilities
	Develop whole-of-life project model to identify unique project sustainability opportunities. Assist in developing and evaluating project sustainability innovations. Assist in coordinating relevant stakeholders.
DJV Sustainability Manager (Design Phase Only)	Engage with the Sustainability Team to embed sustainability requirements in design plans and project specifications. Ensure sustainability reviews are undertaken at all design stages and implement agreed actions following each review. Implement management processes to ensure design changes do not compromise sustainability requirements. Liaise closely with the Sustainability Manager.
Stakeholder and Community Relations Manager	Gain support from key stakeholders. Assist in implementing initiatives where necessary. Develop the Stakeholder Engagement Plan Monitor community input in line with IS rating requirements (e.g. STA 1 ,2,3,4) Promote and influence sustainability targets/initiatives within CSM Works and among the public. Manage community benefit initiatives.
Construction Director, Project Managers, Construction Managers	Engage with the Sustainability Manager to ensure sustainability requirements are embedded in construction plans and processes. Ensure selected subcontractors meet project sustainability requirements. Ensure subcontractors achieve sustainability objectives in the Delivery Phase and direct/oversee corrective actions where appropriate.
Procurement Manager	Incorporate sustainability requirements in the selection and evaluation of subcontractors and supply chain. Incorporate sustainability requirements in the procurement process, including alignment with AS ISO 20400:2018 and IS requirements.
Human Resources Manager	Incorporate sustainability requirements into the workforce engagement strategy. Incorporate sustainability requirements into the workforce education requirements.
Environment Manager	Lead on areas of environmental compliance that intersect with sustainability, such as noise, air quality, water quality, vibration control and the EPL and legal compliance aspects associated with waste management and contaminated land. Management of heritage and archaeological issues.

Table 3 Sustainability Roles and Responsibilities

2.5 Sustainability Management in Design and Construction- Integration and Implementation.

2.5.1 Project Management Systems

The project management system, including plans, assurance processes, risk reviews, and workshops are platforms used to integrate sustainability requirements into the project management system, especially for design and planning.

The project management system will be used to integrate the agreed metrics for sustainability across project disciplines and to strengthen the sustainability strategy on the project.

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See Figure 1 below for an overview of the sustainability framework.

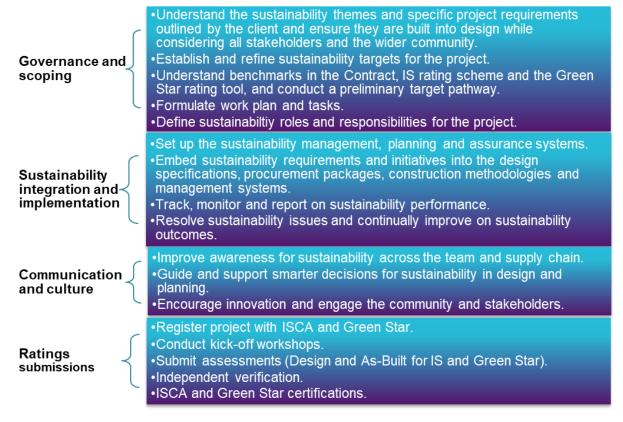


Figure 1 Overview of Sustainability Management Framework

2.5.2 Communication of sustainability objectives

The sustainability team will develop general and 'topic specific' training, briefing sessions, workshops, and toolbox talks to communicate to personnel from various technical disciplines (including subcontractors) through design, procurement, construction phases the objectives relevant to their works.

The Australian Supply chain sustainability school will be utilised, i.e. high impact suppliers are encouraged to sign up to the free resource. The Project will seek to include sustainability themes in supply chain forums (e.g. biodiesel use).

2.6 Sustainability Requirements Management

A systems approach will be applied to track and monitor the integration of sustainability requirements. The CSM Sustainability Policy, Objectives, and compliance obligations will be used to form the basis of the Project's sustainability requirements such that the **Technical Requirements** are used as an input into design, and the **Process Requirements** are delivered through the CSM management system, including this SMP.

Technical and Process requirements will be monitored, implemented, and verified as closed using the Requirements Analysis Allocation and Traceability Matrix (RAATM). The RAATM is a

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single integrated system used to log requirements from both contractual documents and the outputs of service or solution engineering activities.

Requirements will be developed from the following compliance obligations as a minimum:

- Management Requirements Sustainability Central Station (Mr-Sy)
- Central Station Main Works Schedule C1 Scope of Works and Technical Criteria Appendix B07 Sustainability Requirements
- IS Rating tool Version 1.2
- Green Star Design & As-Built, Sydney Metro v1.2
- Sydney Metro Construction Environmental Management Framework

The CSM Safety Assurance Plan (SMCSWSMC-LOR-SMC-SA-PLN-000001) describes in detail The Project Requirements management process which covers the development of the RAATM and management (allocation, status, ownership and close out) of all requirements.

The RAATM exists in the DOORs database to manage the requirements allocated to each design package as well as the verification process for each package. Within DOORS the sustainability requirements have been allocated to design packages, and the verification of the requirements has been actioned. The same verification process will apply to as built.,

The relationship between the design inputs, the design process, and the communication between the parties involved in developing and delivering the sustainable outcomes in design is shown in Figure 2. The process is also described in 2.6.1 below.

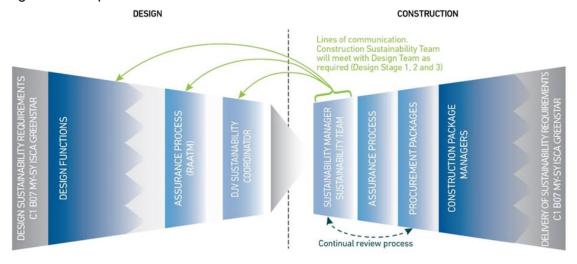


Figure 2. Sustainability communication and assurance process

Appendix G uses the structure of the RAATM. The latest version of Appendix G and is provided as an appendix in the Biannual report as a formal method for closure of sustainability requirements in agreement with The Principal. Updates within the biannual report allow for transparent and progressive close out at a project wide level, rather than design package level.

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2.7 Sustainable Design

Integrating sustainability throughout the design process was critical to the success of sustainability outcomes on CSM. The Sustainability Team worked closely with the Design Team (and the DJV SC) to ensure that all sustainability design requirements – including evidence requirements – were addressed at the various Design stages, ensuring compliance, appropriateness and that further opportunities were met/achieved.

The timing and implementation into design and construction of each requirement was dependent upon the design and construction program. In the development of the requirements management process, the Sustainability Manager and DJV Sustainability Manager reviewed the sustainability requirements, ensureing that they fitted into the Requirement Types as described in the CSM Safety Assurance Plan (SMCSWSMC-LOR-SMC-SA-PLN-000001), and that the sustainability outcomes were delivered as follow:

- System wide: 'system wide' requirements were delivered via a specification e.g., a
 concrete specification (including sustainability requirements). This allowed a consistent
 approach where several design packages 'close' a technical requirement by reference to
 the same specification.
- Package specific: requirements applied to a single (or small number) of specific design packages and were closed only in that design package (e.g., requirement to provide a solar PV array),
- Disaggregated: requirements required was applied into several /all design packages. The
 requirements were only closed once all those packages were delivered and later
 constructed and cumulative design outcomes aggregated.

Derived: requirements required the development of a specialist study e.g., a climate risk assessment report, to efficiently implement the report findings into the design. Additional requirements were derived from the report and applied to the design packages or specifications. The DJV Sustainability Manager provided specialist input into the development of management plans and design briefings, ensuring that ALL personnel involved during the design developments understood sustainability requirements/ objectives and their expected outcomes relevant to a particular design package. Briefings were conducted via workshop, attendance at design team meetings and via one on one setting.

The Design Team, supported by the DJV Sustainability Manager and the LOR Sustainability Manager ensured that requirements were recorded in a Requirements Analysis Allocation and Traceability Matrix (RAATM) for the project.

This process ensured that prior to release, the design packages included all sustainability requirements relevant to that package of works. All sustainability requirements were detailed in the respective design and delivery assurance frameworks.

The Design Team supported by the sustainability team, investigated all opportunities for additional sustainability initiatives, and once identified, ensured their implementation. This was achieved by measures such as:

- Undertaking of an opportunity analysis of potential sustainability initiatives and considerations.
- Conducting Sustainability in Design workshops and team briefings that refined and identified other opportunities.

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 Attendance of the sustainability team at design meetings that generated ideas and facilitated further discussion

Initiatives were then documented in the design reports,

2.8 Sustainable Procurement

The Sustainability Team will work closely with the Procurement Team to incorporate all sustainability conditions, opportunities, and forward commitments in the procurement management system to ensure subcontracts and suppliers meet minimum requirements, generate opportunities, and solve project challenges through innovation.

Where required the Sustainability Team will be involved in package reviews prior to release to the market. They will also review packages upon their return and ensure all IS procurement requirements are adhered to, including management of the suppliers and subcontractors throughout the duration of the works.

The CSM Project has very clear objectives to deliver a procurement strategy that can
effectively incorporate not just the technical and process sustainability requirements but
also to address sustainability risk and opportunity that exists in the construction supply
chain. The approach to Sustainable Procurement is further discussed in the Materials
Management Plan (SMCSWSMC-LOR-SMC-SU-PLN-000004).

2.9 Sustainable Construction

Section 2.5.2 describes how sustainability objectives are communicated to all personnel and subcontractors. The sustainability objectives and requirements will be tailored and summarised and included in inductions in a manner that they are relevant, appropriate and applicable to the construction team and personnel delivering construction activities.

The construction phase will predominantly include monitoring and collection of data to ensure the systems and processes identified during a project's design and procurement phases are executed. To manage this, the Sustainability Team will work closely with all package managers and the Procurement Team and ensure that sustainability is included as an agenda item at design and construction meetings to maintain the project team focus on the objectives and outcomes.

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3. Sustainability Implementation

3.1 Resources

The Project has determined and made provision for the resources needed for the establishment, implementation, maintenance and continual improvement of the sustainability management system on the Project. Key human resources have been allocated as per Table 3 Roles, Responsibilities, and Authorities.

3.2 Competence and Awareness

The Project shall:

- Use Training Needs Analysis to determine the necessary competence of persons doing work under its control that affects its materials performance and its ability to fulfil its compliance obligations;
- Obtain records of suitable education, training, experience and verification of competency to ensure that these persons are competent on the basis of appropriate education, training or experience;
- Determine any further training needs associated with sustainability;
- Where applicable, take actions to acquire the necessary competence, and evaluate the effectiveness of the actions taken;
- The Project shall ensure, via the Project Induction, Toolbox Talks and Pre-Start Meetings (or similar) that persons doing work under the Projects control are aware of the sustainability policy;
- the significant materials issues and related actual or potential impacts associated with their work, including in relation to materials;
- their contribution to the effectiveness of materials management, including the benefits of enhanced materials performance;
- the implications of not conforming with the materials management requirements, including not fulfilling the organisation's compliance obligations

3.3 Knowledge Sharing

Effective and ongoing sustainability knowledge sharing is critical to ensuring that sustainability knowledge from diverse sources, including within the Project team, and with the client, supply chain and parent organisations, organisations involved in the design, delivery and ultimate operation is captured, disseminated, built upon and applied. Knowledge sharing will continue with other key stakeholders and wider industry were appropriate.

The Sustainability Manager shall also initiate and attend meetings (at least monthly) and sustainability fora with the Principals Representative on behalf of the CSM project.

Knowledge sharing will be undertaken in a timely and targeted manner to enable enhanced outcomes to be achieved. While the knowledge sharing process is ongoing, critical junctures are identified below:

Stakeholder engagement

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- Design management
- Procurement
- Construction planning

A knowledge sharing process for sustainability will be developed to facilitate the sharing of sustainability knowledge, i.e. best practice initiatives, lessons learned, process and progress, approach in seeking to deliver the CSM sustainability objectives, targets and policy commitments.

See the Community Communications Strategy Management Plan (SMCSWSMC-LOR-SMC-CL-PLN-000001) for further information.

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4. Sustainability Initiatives

The initiatives included in this section, while not an exhaustive list, will support the targets established in Table 2 and Appendix G. Section 2.6 describes the process for the allocation and verification of sustainability requirements allocated to design packages; the design will be developed to address those technical requirements to meet the targets in Table 2. Section 2.6 also describes the project level close out process for all requirements as captured in Appendix G. Biannual Sustainability reports shall be issued to the Principals Representative that will also detail implementation of sustainability initiatives.

4.1 Community Benefits

CSM will deliver at least eighteen (18) community benefit initiatives which provide demonstrable and tangible benefits to local community groups, during the construction period and ten (10) initiatives which provide benefit beyond the construction period of CSM Works (legacy initiatives) collectively known as the "18 and 10 initiatives".

The Sustainability and Community Teams will work jointly to identify, and lead on the implementation of these initiatives. The Project will also form a Project Environmental People Industry Community (EPIC) committee. The EPIC committee is a voluntary committee, which forms part of LORs approach to corporate responsibility, a principal role is the identification of environmental and community initiatives for The Project team to deliver. Each member of the LOR CSM team has 1 day per year available to spend on a community based activity or initiative endorsed which the project deem an EPIC initiative.

While the EPIC committee is not tasked with the responsibility for driving the delivery of the "18 and 10" the committee purpose and collective approach to community initiatives has great synergy with the aim of securing the "18 and 10" target.

4.1.1 Identification and Implementation of Community Initiatives

The Sydney Metro City and Southwest Sustainability Strategy 2017-2024 (June 2019) Appendix L Community Benefit, informs CSM of the key areas of focus for community initiatives. The key activities identified are a result of early consultation along the City and Southwest Project corridor in June 2015, prior to contract award.

The CSM Community initiatives identified will be consistent with this strategy, and through engagement by The Project EPIC committee.

The selection of community initiatives is a significant decision for the project, the "18 and 10" target is a challenging target around demonstrating tangible community engagement. Therefore it is vital that the project has a degree of robustness in deciding which initiatives to take forward to implementation.

To assist in the selection of initiatives the project will use a Community Initiative Proposal tool; this is a multi-criteria decision-making tool (Appendix I) which has been established by the sustainability and community teams to help The Project screen or identify community initiatives/opportunities. The criteria in the multi-criteria analysis is aligned to the Sydney Metro Sustainability Strategy Appendix L and scores initiatives higher for benefitting the local government area, City of Sydney. The multi-criteria analysis give assurance that the identified opportunities will have tangible benefits to the community and can be developed to implementation stage.

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Construction Initiatives: After completing the multi-criteria analysis and determining that the initiative is appropriate, The Project engages with the relevant stakeholders and consults with them on what would benefit them and what The Project can offer to them. This is when the specific initiative is identified. The Project monitors the initiative against appropriate indicators for that specific initiative to determine the outcome.

Design Initiatives: ISCA Credit Hea-1 Community Health and Wellbeing identifies examples of positive community contributions such as access to active transport facilities (e.g. walking or cycling), access to public transport facilities, access to services and facilities (including prevention of community severance), access to local business, enhancement of community identity through artwork. The project scope delivers many of these project benefits and the nature of the operation will assist with the City of Sydney aspirations to be Green, Global and Connected. Designers must comply with SWTC Appendix B09 Customer Centred Design which includes a requirement to establish a Customer Reference Panel for customer interaction and the incorporation of 6 design principals – balanced, efficient assisted self-service, universally accessible, flexible, legible and consistent and responsive.

4.2 Managing Impacts on Those Experiencing Homelessness

Managing the impacts of construction on homelessness is dealt with in the CSM Community Communications Strategy Management Plan SMCSWCSM-LOR-SMC-CL-PLN-000005 (Section 7.10).

4.3 Sustainability Rating Tools

4.3.1 ISCA Infrastructure Sustainability (IS) Rating Management

LOR has developed a strategy to achieve a minimum of 79 points under the IS rating tool. The Target Score card outlining the minimum credits to be achieved is attached at Appendix B.

Table 4 below outlines the key steps required to achieve the IS design and as-built ratings.

Certification Phase	Delivery Phase Actions	
Registration	Register the project (including payment and contract finalisation) with ISCA for a design rating using IS Rating Scheme tool version 1.2. and provide a copy of the registration to the Principal's Representative. The Registration process will be completed in first 3 months after project award.	
	Include IS requirements in relevant contract documentation to ensure project team members will deliver what is required.	
	Confirm and have verified (by ISCA) the Base case assumptions for the CSM Proje incorporating both the Base Case Assumptions and Weighting Assessments provid by the Principals Representative.	
Assessment	Actions to be undertaken after registration will include:	
	 ISCA credit weightings and base case assumptions will be developed and verified by ISCA 	
	IS Rating Tool briefing sessions and workshops to determine compliance pathways	

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Embedding target credits into design documentation	
Embedding target credits into management processes	
Compiling relevant documentation during design stages	
Review of credit progress (at least monthly) to ensure credits are being achieved	
The targeted 'leading' score is predicated on base case assumptions developed during the tender phase and discussed with TfNSW. These assumptions were not verified at the time, upon verification of the base case assumptions should the following occur:	
A. ISCA not accept the business as usual base case assumption that approximately 30% of the power demand be provided from generators in addition to mains power supply; or	
B. An ISCA Credit Wat-2, Level 1 is not achieved	
The Project will demonstrate the associated impact to IS Ratings; and seek to achieve an adjusted minimum ISCA rating of 73, which is 75 minus 1 point for each of the above assumptions if rejected.	
However The Project will work to obtain a leading rating.	
Internal review of draft submission by an ISAP at approximately 90% design completion (post Practical completion for As-built)	
ISCA coordinates independent verification by industry specialists	
Feedback provided to seek additional information and clarification	
Final submission submitted	
Verifiers' recommendation provided to ISCA	
Verifiers' recommendations reviewed by ISCA	
ISCA certify rating according to score obtained (minimum 75 points)	

Table 4 ISCA IS rating process overview

Additionally, LOR will provide an update on progress towards achieving the IS rating within the Biannual Sustainability Reports which are submitted for comments and review to Sydney Metro.

4.3.2 GBCA Green Star rating tools

The CSM project has registered with the Green Building Council of Australia (GBCA) within 3 months of project award and the relevant activities are designed assessed and ultimately the rating scores have been and will be verified by the GBCA in accordance with the Green Star rating system.

The assessment will take place in a similar manner to the IS rating i.e.

- Green Star briefing sessions and workshops to determine compliance pathways in design and construction phases
- Embedding target credits into design and construction documentation
- Embedding target credits into management processes
- Compiling relevant documentation during design and construction stages
- Review to ensure credits are being achieved (monthly)

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4.4 Climate Change Risk Assessment

The Project has undertaken climate change risk assessments in respect of the CSM Project in accordance with the guidance and requirements included in the TfNSW Climate Risk Assessment Guidelines 2016 and the Infrastructure Sustainability Council of Australia's IS Rating Tool Technical Manual V1.2 – Climate Change Adaptation chapter. The risk assessments has been used as an input to inform the Design Work and be documented in the Design Documentation submitted to the Principal's Representative at Design Stage 1, 2 and 3.

The Project has ensured that the climate change projections and guidance used to underpin the climate change risk assessments are the most recent available and are consistent with industry best practice, including NWRLSRT-PBA-SRT-SU-REP-000022 Climate Resilience Report.

The Project have also identified and described in the Design Documentation, climate change initiatives which demonstrate that the Works have been designed to combat and be resilient to the effects of climate change during each Design Stage and have included measures to mitigate:

- all climate change risks classified as "extreme" and "high"; and
- at least 25% of all climate change risks classified as "medium".

4.5 Construction Water Efficiency

For construction, temporary works will be designed and managed with water sensitive urban design in mind. This section describes the integrated approach to water cycle management to minimise the impact of stormwater quality.

4.5.1 Water Use Planning

A water balance study was undertaken (and submitted to the Principals Representative) prior to the commencement of construction work that identifies the sources, uses, and estimated quantities of potable and non-potable water which will be either created or used in the performance of the CSM Works. A construction phase water balance is attached at Appendix E.

The water balance will identify initiatives to reduce water demand and use non-potable water, which must be adopted.

4.5.2 Minimise Water Demand and Waste Water Production

The temporary construction site offices shall be fitted with ablutions featuring water efficient controls, fixtures and fittings – i.e. water efficient taps, WCs, urinals etc.

Dust suppression (around the Sydney Yard area of the site) using water will be limited (compared to the BAU civil construction site), this is due to the largely underground nature of the works and surface are constrained by rail. However underground dust suppression at the cutting face of the excavation activity will largely be controlled using positive pressure venting systems and extraction fans fitted with dry filtration systems (e.g. cyclonic or bag) supplemented with water efficient sprinkler system misting, foggers and water canons where dry dust suppression is not possible such as mole hole openings on the traffic deck and truck loading area.

Demand limiting techniques to these required systems assists in limiting the volume of wastewater to be discharged to sewer or offsite via the water treatment systems.

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4.5.3 Water Efficient Plant

All construction equipment requiring water is selected taking into account the water efficiency of the equipment and associated construction methodology.

Water efficient construction methods must be described in all construction method statements issued for the delivery of CSM Works

4.5.4 Rainwater / Stormwater Collection and Harvesting

As described in the Construction Soil and Water Management Plan (SMCSWSMC-LOR-SMC-EM-PLN-000002), rainwater that does not drain into existing stormwater will be collected in sumps and will be treated in the onsite water treatment plant. The Construction Soil and Water Management Plan (SMCSWSMC-LOR-SMC-EM-PLN-000002) also describes the parameters for potential reuse of rainwater that falls to land. Due to limitations in quality, supply vs demand and storage capacity this water is not reused.

The temporary site sheds are fitted with rainwater harvesting tanks to capture and reuse rainwater falling to the roof catchment of those facilities. Reuse options include use in wash down, or WCs.

The Construction Soil and Water Management Plan (SMCSWSMC-LOR-SMC-EM-PLN-000002) establishes surface / stormwater quality targets and processes to maximise the use of stormwater in the urban landscape or discharge into local streams and waterways.

4.5.5 Groundwater / Waste Water Collection Treatment and Reuse

Groundwater extracted from the works, as well as any wastewater (e.g. from wash down or dust suppression) which is captured in sediment controls will be collected and treated by an onsite water treatment plant; water reuse will be governed by demand opportunities and excess water will be discharged. Further detail on groundwater collection, treatment, and reused, is described in the Construction Groundwater Management Plan (CGWMP) (SMCSWSMC-LOR-SMC-EM-PLN-000007).

4.5.6 Water Monitoring

The Sustainability Manager shall make arrangements to ensure that water supplied for the CSM Project, including from any rainwater harvesting tanks, mains recycled and potable water networks will be metered onsite in order to report against the targets. Any water that is 'trucked' to site will be reported monthly as part of the contractor payment claim process.

4.6 Carbon & Energy

4.6.1 Construction

For the management of energy and carbon refer to the Construction Carbon and Energy Plan (SMCSWSMC-LOR-SMC-SU-PLN-000002).

Refer to Section 2.2 table 2 for Carbon and Energy Targets.

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4.6.2 Design initiatives

The design will achieve low carbon outcomes to be realised in the operational phase by the implementation of both energy efficiency initiatives to limit demand and through the generation of onsite renewable energy.

Onsite renewables such as Solar PV also have the ability to reduce the peak demand due to a general correlation between peak use of a facility (e.g., more movements through vertical transportation) and peak generation during daylight hours.

Improvements in building performance relative to reference cases based on Section J of the NCC BCA using an iterative process of building modelling is summarised below with reductions greater than 15% achieved for both the Metro Station, Central Station Works and Central Walk:

Metro Box

The main findings for the Metro Box conclude that the proposed envelope including its services (Model 3) resulted in an 18.3% decrease in relative energy consumption in comparison to the reference building and services (Model 1).

The followings are the main features resulting in energy savings for the Metro Box:

- Lifts & Escalator 46% of total saving comes from transportation with the use of regenerating breaks lifts technology and slow speed standby escalators.
- Chillers 33% of the overall savings are from the chillers. The chillers are energy
 efficient screw chillers with part load performance much greater than a standard
 chiller. To make use of the much higher part load efficiencies both chillers need to run
 side by side. To stage the chiller based on part load efficiencies to ensure maximum
 average efficiency can save further energy use.
- Chilled Water Fan Coil Units, CRAC and VRF units' fans 10% of the total savings come from air conditioning units and fan coil units' fans. Those fans are running a large number of hours and their absorbed power is lower than the DTS maximum requirement.
- Condenser water pumps efficiency has been improved since phase 2. The installed pump power is less than the allowable DTS pump power. Condenser water pumps are saving 20% of the total energy saved.
- Lighting 8% of total saving comes from BOH lighting due to lower installed lighting power density than allowed by DTS. Unfortunately, FOH loses the same amount of energy saved by the BOH due to high power density of lighting in the public space

Central Station and Central Walk Works

For the Central Station and Central Walk Works, the model determined the proposed envelope and services (Model 3) result in a 28.4% decrease in relative energy consumption compared to the reference building and services (Model 1).

The following are the main features resulting in energy savings for the Central Station Works and Central Walk Works:

- Lifts & Escalators 45% of total saving comes from transportation for the exact same reasons as the Metro Box.
- Lighting FOH 43% of total saving comes from FOH lighting for the exact same reasons as the Metro Box.
- Chilled Water Fan Coil Units, CRAC and VRF units' fans 12% of the total savings come from air conditioning units and fan coil units' fans. Those fans are running a large number of hours and their absorbed power is lower than the DTS maximum requirement.

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4.6.3 Renewable Energy

The Sustainability Manager has arranged for a study to be undertaken to investigate the feasibility (opportunities, costs, and benefits) of incorporating renewable energy technologies into both the permanent works design but also for use in the construction phase. This report will meet the requirements of the IS Rating V1.2 Ene -2 credit requirements as per Table 2 above. It was determined that PV during delivery was not feasible due to constraints on energy potentially feeding back to the grid and impacting Sydney Trains activities as well as a long pay back period.

Any renewable energy generated on site or procured from the grid during the construction phase shall be reported (see Section 5.2 and Appendix D).

4.7 Sustainable Construction Materials

For the Materials management initiatives refer to the Materials Management Plan (SMCSWSMC-LOR-SMC-SU-PLN-000004)

4.8 Waste Management & Recycling

For the waste management refer to the Waste Management and Recycling Plan (SMCSWSMC-LOR-SMC-SU-PLN-000003)

4.9 Vegetation and Biodiversity Management

The project shall minimise vegetation clearance, particularly native vegetation. The general principles for biodiversity management such as early landscaping and revegetation as well as a 'Clearing Protocol' is included in Construction Biodiversity Management Plan (SMCSWSMC-LOR-SMC-EM-PLN-000005).

4.10 Sustainability Initiatives / Opportunities & Decision Making

The Project will maintain a sustainability initiatives / opportunities register. This will be updated by the Project Sustainability Team every six months, and communicated to CSM and Sydney Metro personnel as required. Sustainability risks will also be included in the Project Risk Register as required under the Laing O'Rourke Risk and Opportunity Management Procedure. This procedure will also be used to identify innovations eligible for the incentive KPI process. The initiatives register was first developed at tender stage and will be used to capture initiatives identified during detailed design e.g., through Sustainability workshops, for instance around energy and carbon efficiency, materials selection, resource efficiency, and designing out waste. It is noted that many positive opportunities which may lead to materials, energy, or water savings may be implemented without need for a formal decision making framework to be in place. These opportunities are considered design development. This normal refinement of design will be compliant with the Scope of Work and Technical Criteria (SWTC). Compliance with the SWTC is deemed to not adversely impact the achievement of the targets in Table 2 above. Where decisions are significant, i.e., the opportunity (or risk mitigation) is likely to require an amendment to the SWTC, or they represent a fundamental change to the established methodology, the opportunities will be included within the project risk and opportunity register established in line with LOR Risk and Opportunity Management Procedure.

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The project opportunities, risk mitigation, and decisions that require a change to the SWTC could have a material impact on the achievement of the sustainability targets and will be considered significant. Decisions around that issue will be reviewed using a multi criteria decision making approach which includes a review of the sustainability aspects such as environmental or social impact and impact on targets.

The project will implement a decision making framework to ensure that sustainability considerations are taken into account when making decisions around these significant issues.

The Project will ensure that decision making in relation to significant issues will be characterised by:

- A consideration of options including business-as-usual and other proven approaches taken in comparable situations.
- An evaluation of options that considers environmental, social and economic aspects through multi-criteria analysis or other scored means
- An evaluation of options based on the useful forecast life of the infrastructure asset (i.e. 100-year design life).

Once decision making in relation to opportunities has occurred, the opportunities' status will be updated in the Opportunity Register as either 'Included' or 'Abandoned'. If the answers to the relevant questions are unclear, the opportunity status will remain 'Under consideration' and further information will be sought.

4.10.1 KPI Process

The Key Performance Indicators against which the CSM Contractor's performance will be assessed on an annual basis and the associated Annual Incentive Amounts are set out below for sustainability:

Key Performance Indicator	Measurement criteria	Benchmark	
Identification of innovation to proactively enhance environmental and sustainability performance	Promotion of research, development and innovation during the design or delivery stages which enhance environmental and sustainability outcomes through the identification of initiatives and new ideas. Initiatives are to focus on the following key issues: - Energy and carbon management and / or Materials use Innovations must generally pass the following criteria: (a) Is it a new process / product i.e. a true innovation and/or performance leader (b) Does it solve a Sydney Metro / CSM problem / satisfy a specific	100% to be paid upon Principal's acceptance of workshop minutes and of six compliant innovation submission forms (refer to Schedule F6 Appendix A). Assessed at the discretion of the Principal. For score of 50% or less zero points. For a score between 50% and 95% pro-rata between 30 and 100 points. For a score at or above 95% 100 points.	\$15,000

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	need / contribute to the project legacy		
	(c) Does it have a tangible benefit to the project		
	Minimum of three initiatives to be presented to Sydney Metro (workshop and submission template – refer Schedule F6 Appendix A)		
	At least two initiatives proposed must be readily implementable (ie require no additional funding from Sydney Metro outside of the incentive funding provided in 1.2(b)1		
	Innovation does not include anything which might adversely affect the construction, operation or maintenance of the Works or their performance or fitness for the purposes required by the Contract.		
Implementation of innovation to proactively enhance environmental	Incentive payment to be provided to facilitate the implementation of innovation initiatives. Initiatives must be preapproved by the Principal.	Payment value, milestones and success criteria to be agreed on a case by case basis (Refer to Schedule F6 Appendix A, Form B).	\$75,195.32
and sustainability performance	In its absolute discretion the Principal may elect to partially or fully fund the implementation of new innovative ideas at a payment schedule to be agreed with the contractor in advance.	Innovations presented in workshops may have been implemented at any time over 12 month period	
	Final payment milestone to be linked to submission of Case Study (Schedule F6 Appendix A Form C).		
Communication of innovation practices	Knowledge sharing of innovation with internal and external stakeholders	50% of payment to be awarded on completion of annual presentation of initiatives	\$7,500
	Requirements to include: - Annual innovation presentation / conference to Sydney Metro (including successes and lessons learned)	Remaining 50% awarded based on agreed initiatives that demonstrate adherence to their agreed communication plan For an average score of 50% or less - zero points.	
	Performance against agreed communication activities in implementation plan (Schedule F6	For a score between 50% and 95% pro-rata between 30 and 100 points.	
	Appendix A Form B) for each initiative.	For a score at or above 95% 100 points.	

Table 5 Sustainability Incentive KPIs

The Sustainability team are to propose 3 (three) initiatives for each year of delivery until Date of Construction Completion using the forms and process listed in Schedule F6 – Performance and Compliance Incentive Payment. Initiatives must meet the criteria listed in Table 5 and must

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address the themes of carbon / energy or materials. Schedule F6 marks 31st August as year end for the initiatives, however implemented initiatives can be assigned based on their implementation date.

4.11 Workforce Development & Industry Participation

The Workforce Development and Industry Participation Plan (SMCSWSMC-LOR-SMC-WD-PLN-000001) provides guidance on the management processes that will facilitate the timely implementation of the various workforce development and industry participation activities in accordance with the Contract and MR-W and to the satisfaction of all stakeholders.

4.12 Aboriginal Participation

The Aboriginal Participation Management Plan (SMCSWSMC-LOR-SMC-WD-PLN-000004) establishes an Aboriginal participation strategy which will be followed by Laing O'Rourke and its respective partners, contractors, and subcontractors during the design and construction phases.

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5. Sustainability Performance Evaluation and Reporting

5.1 Monitoring Measurement and Analysis

The Project team shall monitor, measure, analyse, and evaluate its sustainability performance. The Project shall undertake weekly sustainability inspections during construction.

Additional monitoring and assurance to verify performance data (quality, completeness, accuracy etc.) will also be undertaken by the sustainability team. Table 5 below indicates the performance data and planned data sources which will be captured.

Per	formance data	Data source	
ren	ctricity consumption and generation, including any on-site ewable energy generation and any renewable energy proced for the construction	Metering and bills	
	antity of greenhouse gas emissions associated with ctricity consumption which have been offset, and method of et;	Metering and bills (GHG conversion achieved using latest NGERs approved Emission Factors Offset certificates	
Fue	el consumption	Bills and subcontractor monthly sustainability reports	
	ume of potable mains water consumed for the contractor's vities,	Metering	
	ume of non-potable water consumed for the contractor's vities, including details of the sources of non-potable water,	Metering	
Wa	ste generation, recycling and disposal;	Reports from waste contractors	
The	e volume of spoil	Contractor reporting	
1.	Reused within the site		
2.	Beneficially reused off-site or		
3.	Disposed of off-site		
4.	Destinations for spoil which has been beneficially reused off-site or disposed of off-site		
(i.e.	antities of steel and concrete and other relevant materials greater than 5% of footprint as per CERT CDR phase) ch have been used	Contractor reporting / procurement records.	
	ume weighted average percentage cementitious content, uding supplementary materials fly ash and slag in concrete ad	'Green Star' report from concrete supplier.	

Table 5. Performance Data and Likely Source

5.2 Reporting

The Project shall evaluate its sustainability performance. The Project shall communicate relevant sustainability performance information both internally and externally, as identified in its communication processes and as required by its compliance obligations.

Sustainability Reports to be produced by the project are listed in Table 6 below.

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Sustainability report	Frequency
Annual Sustainability Report (ASR)	Annually – by 31 August (over design and construction phases)
Biannual Sustainability Report (BSR)	6 monthly (over design and construction phases)
Quarterly Sustainability Data Report (QSR)	Quarterly (over design and construction phases)
Climate Change Impact Assessment Report (CCIAR)	Design Stage 1, Design Stage 2, Design Stage 3 and again prior to the Date of Construction Completion of the last Portion to reach Construction Completion.
Greenhouse Gas Inventory Report – prepared using CERT (GGIR)	Design Stage 1, Design Stage 3, annually thereafter and again prior to the Date of Construction Completion of the last Portion to reach Construction Completion
Inventory of non-road diesel vehicles	After 6 months and subsequently annually

Table 6. CSM Sustainability reporting requirements

The required contents of the QSRand Climate Change Impact Assessment Report are listed in Appendix D.

Monthly Sustainabiliy Design Report (MSDR) is not required included in the updated SWTC Appendix B07.

The Monthly Client Report, a CSM wide report, includes a sustainability section and Appendix O – Sustainability Dashboard. The Dashboard includes an 'area for improvement' section that includes NCRs.

5.3 Audit

The Project shall be audited at planned intervals to provide information on whether the Project:

- is meeting its compliance obligations;
- conforms to the SMP; and,
- Determine if the SMP is effectively implemented and maintained.

The Project shall establish, implement, and maintain a sustainability audit programme, including the frequency, methods, responsibilities, planning requirements and reporting of its audits.

Sustainability audits will be conducted at least quarterly with at least one per year being 'independent'. The Client is invited to participate in audits. Updates on sustainability audit status is shared with the Client in the CSM Audit Working Group within the CSM combined audit schedule.

The scope of the audits may vary but sustainability audits should cover the most material issues are audited regularly during the rating period. Sustainability audits should cover most material environmental, social, and economic issues. 'Regularly' needs to be described and justified for each project. The audit reports must demonstrate that these requirements have been fulfilled.

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5.3.1 Non Compliance and Corrective Actions

Non-conformances, corrective and preventative actions identified through audits or other means will be addressed and closed out by the Sustainability team following the processes established by the CSM Construction Environmental Management Plan.

When a nonconformity occurs, including in relation to materials, the Project shall:

- · react to the nonconformity and, as applicable:
- take action to control and correct it;
- deal with the consequences, including mitigating adverse sustainability impacts;
- evaluate the need for action to eliminate the causes of the nonconformity, in order that it does not recur or occur elsewhere, by:
- reviewing the nonconformity;
- determining the causes of the nonconformity;
- determining if similar nonconformities exist, or could potentially occur;
- implement any action needed;
- review the effectiveness of any corrective action taken; and,
- make changes to the SMP, if necessary.

Corrective actions shall be appropriate to the significance of the effects of the nonconformities encountered, including the sustainability outcomes(s).

The Project shall retain documented information as evidence of:

- · the nature of the nonconformities and any subsequent actions taken; and,
- · the results of any corrective action

5.4 Continual Improvement & Management Review

The review and improvement process for the sustainability management system will be based on those set out in Section 10 of the CMS Quality Management Plan.

The Project Management Team will check the status and adequacy of this plan and its sub plans to ensure that it meets current Sydney Metro, Laing O'Rourke, and project requirements (such as those established in the compliance matrix in Appendix F.

The Plan will be reviewed during the course of the contract when the following situations arise:

- Client recommendations for changes (particularly following initial review);
- Changes to the Company's standard system; and
- Opportunities for improvement or deficiencies in the project system are identified.

Project Management shall review the implementation of the SMP at Project level, at planned intervals (at least annually), to ensure its continuing suitability, adequacy and effectiveness. Reviews will be performed by the Sustainability Team. Where practicable the management reviews shall incorporate community participation (e.g. record of minutes from community meetings being input to management review).

The Project shall retain documented information as evidence of the results of management reviews.

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6. Terms and definitions

The following terms, abbreviations and definitions are used in this and Sub Plans:

Terms	Explanation
The Project	Central Station Main Works
iGATE	Laing O'Rourke's Management System
Core Process	Corporate Governance compliance – requiring executive sign off
DOA	Delegation of Authority
Enabling Process	Detailed actions supporting or ensuring compliance with Core Requirements
ASR	Annual Sustainability Report
BCA	Building Code of Australia
CBD	Central Business District
CEMF	Construction Environmental Management Framework
CERT	Carbon Estimate and Reporting Tool
CoA	Conditions of Approval
CSM	The Project (Central Station Main Works)
DPE	Department of Planning & Environment
ECMP	Energy and Carbon Management Plan
EIS	Environmental Impact Statement
GHG	Greenhouse Gas
FTE	Full Time Employee
ISCA	Infrastructure Council of Australia
IS	Infrastructure Sustainability Rating Tool
NCR	Non Conformance Report
PDP	Project Deliverables Plan
IWC	Inner West Council
Laing O'Rourke	Laing O'Rourke Australia Construction Pty Limited
Minister, the	NSW Minister for Planning
MMP	Materials Management Plan
MSDR	Monthly Sustainability Data Report
NCC	National Construction Code
ODS	ODS Track (web based submission management framework)
SLT	Senior Leadership Team
SMCSW	Sydney Metro City and Southwest
SME's	Small and Medium sized Enterprises
SMP	Sustainability Management Plan
QSR	Quarterly Sustainability Report
TfNSW	Transport for New South Wales

Sustainability Management Plan



Appendix A. Sustainability Policy



SUSTAINABILITY

Laing O'Rourke is an engineering enterprise, focused on major construction projects and strategic programmes, delivering certainty for clients from the earliest engagement and throughout the project lifecycle. Through a focus on certainty of delivery, we will maintain an enduring and sustainable enterprise.

Our commitment is to deliver leading practices and innovation to enhance sustainability performance across all our business, offices, facilities, and the projects we deliver.

Collaboration with clients, supply chain, industry partners, research organisations and other stakeholders is fundamental to how we develop and implement a sustainability approach. In response to the climate and biodiversity emergencies, and social inequalities, we are committed to the following:

- · Acting on climate change and delivering our net zero ambition
- · Incorporating climate resilience into the assets that we build and our own business operations
- Realising our sustainability potential through direct delivery and modern methods of construction
- · Striving for nature-positive solutions on our projects and facilities
- Achieving gender equality and providing good health and wellbeing conditions for our people
- Maximising social value through the positive impact we have on people within our organisations and the communities we engage
- Measuring and reporting the social return on investment of activities based on the five themes
 of our social value ambition
- Promoting good community relations by developing mutually beneficial and long-term relationships with local stakeholders
- Delivering sustainable outcomes through our procurement activities, products procured, and services provided
- Making data-driven decisions to deliver certainty and enhance sustainability performance.

The board of directors of Laing O'Rourke fully endorses this policy.

Sir John Parker Chairman

T. John Tarler

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Sustainability Management Plan



Appendix B. ISCA Scorecard

The project is required to achieve an IS "design" rating of at least 75 and an "as built" rating of at least 75 with a stretch target of 79. The following table details all the minimum targeted IS credits (at time of plan issue) for the CSM Works using the material weightings assessment provided at tender (points are distributed differently for the design vs as-built). The IS credits targeted, the level targeted and points targeted detailed below.

Category	Credit	Materiality score	Minimum Target level	Target score Design	Target score As- Built
Man-1	Sustainability leadership and commitment	2	3/3	0.99	0.54
Man-2	Risk and opportunity management	2	2/2	0.99	0.82
Man-3	Organisational structure, roles and responsibilities	2	2/2	0.99	0.82
Man-4	Inspection and auditing	2	2/2	0.99	0.82
Man-5	Reporting and review	2	3/3	0.99	0.54
Man-6	Knowledge sharing	2	3/3	2.22	1.23
Man-7	Decision-making	2	2/3	2.14	1.77
Pro-1	Commitment to sustainable procurement	2	3/3	1.24	0.68
Pro-2	Identification of suppliers	2	3/3	1.24	1.02
Pro-3	Supplier evaluation and contract award	2	3/3	s/o	1.02
Pro-4	Managing supplier performance	2	2/3	s/o	0.68
Cli-1	Climate change risk assessment	2	2/3	1.65	1.36
Cli-2	Adaptation options	2	3/3	2.47	1.36
Ene-1	Energy and carbon monitoring and reduction	3	3/3	13.35	14.70
Ene-2	Use of renewable energy	3	2/3	1.23	1.63
Wat-1	Water use monitoring and reduction	3	2.7/3	5.8	3.68
Wat-2	Replace potable water	3	3/3	3.71	0.68
Mat-1	Materials footprint measurement and reduction	2	3/3	4.72	3.27
Mat-2	Environmentally labelled products and supply chains	2	1/3	s/o	0.27
Dis-1	Receiving water quality	3	2/3	2.35	1.94
Dis-2	Noise	4	2/3	4.7	2.59
Dis-3	Vibration	4	2/3	4.7	2.59
Dis-4	Air quality	3	0/3	0	0
Dis-5	Light pollution	2	0/1	0	0
Lan-1	Previous land use	2	3/3	2.47	2.04
Lan-2	Conservation of on-site resources	s/o	s/o	s/o	s/o
Lan-3	Contamination and remediation	4	2/3	2.64	2.18
Lan-4	Flooding design	s/o	0/2	s/o	s/o



Category	Credit	Materiality score	Minimum Target level	Target score Design	Target score As- Built
Was-1	Waste management	2	2/2	1.98	1.23
Was-2	Diversion from landfill	3	2/3	N/A	2.86
Was-3	Deconstruction/ Disassembly/ Adaptability	1	0/3	0	0
Eco-1	Ecological value	s/o	0/3	s/o	s/o
Eco-2	Habitat connectivity	s/o	0/3	s/o	s/o
Hea-1	Community health and well-being	2	3/3	2.47	1.36
Hea-2	Crime prevention	4	2/2	4.94	2.04
Her-1	Heritage assessment and management	4	3/3	4.94	4.08
Her-2	Monitoring and management of heritage	4	2/3	s/o	2.72
Sta-1	Stakeholder engagement strategy	3	3/3	1.85	1.36
Sta-2	Level of engagement	3	3/3	1.85	1.36
Sta-3	Effective communication	3	2/2	1.85	2.04
Sta-4	Addressing community concerns	3	2/2	1.85	1.02
Urb-1	Urban design	2	3/3	3.96	4.90
Urb-2	Implementation	3	2/2	N/A	1.23
Inn-1	Innovation	2	5/10	5.00	2.00
	Total score			92.3	79.09

Sustainability Management Plan



Appendix C. Green Star Scorecard

The project is required to achieve a Green Star "as built" rating of at least 5 stars (60 points). The following scorecard details the minimum targeted Green Star credits (at time of plan issue) for the CSM Works using the bespoke Sydney Metro Green Star Rating Tool. The Green Star credits targeted (and associated points) are detailed in the scorecard below.

Green Star - Design & As Built: Sydney Metro Scorecard

Project: Central Station Mainworks

Targeted Rating: 6 Stars - World Leadership

Core Points	Total Score
Available	Targeted
91	80.3

CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS AVAILABLE	POINTS TARGETED	PROJECT TEAM COMMENTS
Management				20		
Green Star Accredited Professional	To recognise the appointment and active involvement of a Green Star Accredited Professional in order to ensure that the rating tool is applied effectively and as intended.	1.0	Accredited Professional	1	1	
		2.0	Environmental Performance Targets	-	Complies	
	•	2.1	Services and Maintainability Review	1	1	
Commissioning and Tuning	To encourage and recognise commissioning, handover and tuning initiatives that ensure all building services operate to their full potential.	2.2	Project Commissioning	1	1	
		2.3	Project Systems Tuning	1	0	could maybe achieve dicuss with Evalin
		2.4	Independent Commissioning Agent	1	1	
Adaptation and Resilience	To encourage and recognise projects that are resilient to the impacts of a changing climate and natural disasters.	3.0	Implementation of a Climate Adaptation Plan	2	2	
Building Information	To recognise the development and provision of building information that facilitates understanding of a building's systems,	4.1	Building Operations and Maintenance Information	1	1	
building information	operation and maintenance requirements, and environmental targets to enable the optimised performance.	4.2	Building User Information	1	1	
Commitment to Performance	To recognise practices that encourage building owners, building occupants and facilities management teams to set targets and	5.1	Environmental Project Performance	1	1	
Sommanent to 1 enormance	monitor environmental performance in a collaborative way.	5.2	End of Life Waste Performance	1	1	
Metering and Monitoring	To recognise the implementation of effective energy and water	6.0	Metering	-	Complies	
metering and monitoring	metering and monitoring systems.	6.1	Monitoring Systems	1	1	
Construction Environmental	To reward projects that use best practice formal environmental	7.0	Environmental Management Plan	-	Complies	
Management	management procedures during construction.	7.1	Formalised Environmental Management System	1	1	
Operational Waste	Performance Pathway	8A	Performance Pathway - Specialist Plan	1	1	
oporational viacto	onomiales r damey	8B	Prescriptive Pathway - Facilities	-		
Culture, Heritage and Identity	To encourage and recognise projects that celebrate and incorporate the heritage, culture and historical context of the	9.1	Understanding Culture, Heritage, and Identity	1	1	
outain, northago and laorait,	project site, supporting communities and places with the development of a sense of place and identity.	9.2	Enhancing Culture, Heritage, and Identity	1	1	
		10.0	Concept Review	-	Complies	
Urban Precincts	To encourage and recognise projects that undertake a design review process designed to facilitate sustainable urbanism.	10.1	Site Planning and Layout	1	1	
		10.2	Urban Design and Public Realm	1	1	
Safe Places	To encourage and recognise projects that reduce the likelihood	11.0	Crime Risk Assessment	-	Complies	
3410 - 14000	of crime through good design.	11.1	Safe Places Through Design	1	1	
Wayfinding	To recognise projects that minimise occupant stress and anxiety	12.0	Wayfinding Review	-	Complies	
,	through the implementation of excellent wayfinding practices.	12.1	Excellent Wayfinding Practices	1	1	
Total				20	19	

Indoor Environment Quality			15			
		13.1	Ventilation System Attributes	1	1	
Quality of Indoor Air	To recognise projects that provide high air quality to occupants.	13.2	Provision of Outdoor Air	2	0	
		13.3	Exhaust or Elimination of Pollutants	1	1	
		14.1	Internal Noise Levels	1	1	
Acquatia Comfort	Acoustic Comfort To reward projects that provide appropriate and comfortable acoustic conditions for occupants.	14.2	Reverberation	1	1	
Acoustic Connort		14.3	Audibility	1	1	
		14.4	Hearing Loop Coverage	1	1	
		15.0	Minimum Lighting Comfort	-	Complies	
Lighting Comfort	To encourage and recognise well-lit spaces that provide a high degree of comfort to users.	15.1	General Illuminance and Glare Reduction	1	1	
		15.2	Surface Illuminance	1	1	
		16.0	Glare Reduction	-		
Visual Comfort	To recognise the delivery of well-lit spaces that provide high levels of visual comfort to building occupants.	16.1	Daylight	0		

		16.2	Views	1		
	To recognise projects that safeguard occupant health through the reduction in internal air pollutant levels.	17.1	Paints, Adhesives, Sealants and Carpets	1	1	
indoor Pollutants		17.2	Engineered Wood Products	1	1	
Thermal Comfort	To encourage and recognise projects that achieve high levels of		Staff Thermal Comfort	1	1	
t nermai Comfort	thermal comfort.	18.2	Customer Thermal Comfort	1	1	
Total				15	12	

Energy	ergy					
Greenhouse Gas Emissions	To encourage the reduction of greenhouse gas (GHG) emissions associated with the use of energy in building	19.0	Conditional Requirement: Reference Building Pathway	-	Complies	
Greenilouse Gas Emissions	operations.	19.1	Modelled Performance	20	5.1	
Book Electricity Domand Bodystics	Performance Pathway	20A	Prescriptive Pathway - On-site Energy Generation	-		
Peak Electricity Demand Reduction		20B	Performance Pathway - Reference Building	2	0	maybe 1.7
Total				22	5.1	

Transport				5		
To reward projects that implement design and operational measures that reduce the carbon emissions arising from occupant travel to and from the project, when compared to a	21.1	Intermodal Connectivity	3	3		
	21.2	Car Parking Provision	0			
	21.3	Low Emission Vehicle Infrastructure	0			
	benchmark building.	21.4	Active Transport Facilities	1	0	
	21.5	Walkable Neighbourhoods	1	1		
Total				5	4	

Vater						10		
		22A	Potable Water - Performance Pathway	10	9.9			
	22B.1							
	22B.2	Rainwater Reuse	-					
Potable Water	Performance Pathway	22B.3						
		22B.4	Landscape Irrigation	-				
	22B.5							
Total				10	9.9			

Materials			13		
		23A.1 Comparative Life Cycle Assessment	6	5	
		23A.2 Additional Life Cycle Impact Reporting	1	1	
		23B.1 Concrete	-		
Life Cycle Impacts	Performance Pathway - Life Cycle Assessment	23B.2 Steel	-		
		23B.3 Building Reuse	-		
		23B.4 Asphalt	-		
		23B.5 Low-Maintenance Design	-		
	To reward projects that include materials that are responsibly sourced or have a sustainable supply chain.	24.1 Structural and Reinforcing Steel	1	1	
Responsible Building Materials		24.2 Timber Products	1	1	
		24.3 Permanent Formwork, Pipes, Flooring, Blinds and Cables	1	1	
Sustainable Products	To encourage sustainability and transparency in product specification.	25 Product Transparency and Sustainability	2	0.98	maybe over 1 w railway version
Construction and Demolition Waste	Percentage Benchmark	26A Fixed Benchmark	-		
	i oromago ponominark	26B Percentage Benchmark	1	1	
Total			13	10.98	

and Use & Ecology					6			
Ecological Value To reward project site.	To reward projects that improve the ecological value of their	27.0	Endangered, Threatened or Vulnerable Species	-	Does not comply			
	site.	27.1	Ecological Value	3	0			
		28.0	Conditional Requirement	-	Complies			
Sustainable Sites	To reward projects that choose to develop sites that have limited ecological value, re-use previously developed land and remediate contaminate land.	28.1	Reuse of Land	1	1			
		28.2	Contamination and Hazardous Materials	1	1			
Heat Island Effect	To encourage and recognise projects that reduce the contribution of the project site to the heat island effect.	29.0	Heat Island Effect Reduction	1	0			
Total				6	2			

Emissions	Emissions					
Stormwater	To reward projects that minimise peak stormwater flows and	30.1	Reduced Peak Discharge	-		
Stormwater	reduce pollutants entering public sewer infrastructure.	30.2	Reduced Pollution Targets	-		
Light Pollution	To reward projects that minimise light pollution.	31.0	Light Pollution to Neighbouring Bodies	-		
Light Polition		31.1	Light Pollution to Night Sky	0		
Microbial Control	To recognise projects that implement systems to minimise the impacts associated with harmful microbes in building systems.	32.0	Legionella Impacts from Cooling Systems	1	1	
Refrigerant Impacts	To encourage operational practices that minimise the environmental impacts of refrigeration equipment.	33.0	Refrigerants Impacts	1	0	
Total				2		

Innovation				10		
Innovative Technology or Process	The project meets the aims of an existing credit using a technology or process that is considered innovative in Australia or the world.	34A	Innovative Technology or Process		1	
Market Transformation	The project has undertaken a sustainability initiative that substantially contributes to the broader market transformation towards sustainable development in Australia or in the world.	34B	Market Transformation		1	
Improving on Green Star Benchmarks	The project has achieved full points in a Green Star credit and demonstrates a substantial improvement on the benchmark required to achieve full points.	34C	Improving on Green Star Benchmarks	10	2	
Innovation Challenge	Where the project addresses an sustainability issue not included within any of the Credits in the existing Green Star rating tools.	34D	Innovation Challenge		3	
Global Sustainability	Project teams may adopt an approved credit from a Global Green Building Rating tool that addresses a sustainability issue that is currently outside the scope of this Green Star rating tools.	34E	Global Sustainability		4	
Total				10	10	

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Appendix D. Reporting

With respect to Sydney Metro Contractual Notice SMCSWCSM-SMD-CSM-SMD-CN-000499 CSM Sustainability Reporting - MR-SY Change Order 000017

- A biennial sustainability report will be produced
- And
- A quarterly data report

Quarterly Data Report.

- i. Scope 1 Carbon Emissions, Scope 2 Carbon Emissions, Scope 3 Carbon Emissions and Total Carbon Emissions;
- ii. performance against the Carbon Emission Target identified in the Carbon and Energy Management Plan;
- iii. electricity consumption and generation, including any on-site renewable energy generation and any renewable energy sourced for the construction of the Works and Temporary Works and performance against Electricity Consumption Targets included in the Sustainability Management Plan;
- iv. quantity of greenhouse gas emissions associated with electricity consumption which have been offset, and method of offset;
- v. fuel consumption and performance against Fuel Consumption Targets;
- vi. volume of potable mains water consumed for the Contractor's Activities, and performance against the Mains Water Consumption Target;
- vii. volume of non-potable water consumed for the Contractor's Activities, including details of the sources of non-potable water, and performance against the Non-Potable Water Consumption Target;
- viii. percentage of water consumed for the Contractor's Activities which has been sourced from non-potable sources;
- ix. waste generation, recycling and disposal; total quantity of waste generated; quantity of non-putrescible general solid waste generated and percentage which has been recycled or reused; quantity of construction and demolition waste generated and percentage which has been recycled or reused; quantity of office waste generated and percentage which has been recycled or reused;
- x. the volume of spoil reused within the Site, beneficially reused off-site or disposed of off-site against the Spoil Targets identified in the Spoil Management Plan;
- xi. destinations for spoil which has been beneficially reused off-site or disposed of off-site;
- xii. quantities of steel and concrete which have been used for the Contractor's Activities;
- xiii. volume weighted average percentage cementitious content in concrete used for the Contractor's Activities which has comprised fly ash or slag; and
- xiv. such other information that the Principal's Representative may request.

Climate Change Impact Assessment report must

- I. be prepared in accordance with the guidance and requirements included in the TfNSW Climate Risk Assessment Guidelines;
- II. identify any project-specific climate change risks (utilising climate modelling data); and
- III. identify risk mitigation measures which have been and will be implemented to reduce risk levels.

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Appendix E. Construction Water Balance (During Design stage 3)

Table A1 below shows total water use including activity, water consumption & potential source type. The non-potable usages have been identified based on the projects ability to provide an onsite non-potable source without the need to supply water from outside the site boundary. The particular non-potable activities are those that are logistically more able to be supplied with a non-potable source of water.

	Usage Activity	Base Case Water Use (ML)	Source
1	Site Compound		
	Toilets Female	0.33	Non-potable (requires rainwater supply)
	Toilets Male	2.47	Non-potable (requires rainwater supply)
	Urinal Male	1.90	Non-potable (requires rainwater supply)
	Wash basin	9.59	Potable
	Shower	0.79	Potable
	Dish Washer	0.90	Potable
	Kitchen Sink	4.17	Potable
	Washdown	1.11	Non-Potable (requires rainwater supply)
	Total	21.26	-
2	Logistics	Base Case Water Use (ML)	Source
	Water Cart	20.13	Potable
	Wheel Wash Sydney Yard	0.89	Non-Potable
	Street Sweeper	0.18	Potable
	Total	21.20	-
3a	Metro Box - Surface & N/S Concourse	Base Case Water Use (ML)	Source
	Piling	0.13	Potable
	Trenching	0.45	Potable
	Demolition, Dust Suppression	0.29	Potable
	Excavation, Road Header	0.72	Potable



	Usage Activity	Base Case Water Use (ML)	Source
	Excavation, TBM	0.00	Potable
	Excavation & Archaeological Dig, Other Dust Suppression	4.50	Potable
	Concrete / Sandstone Cutting	0.63	Potable
	Concrete Curing	0.98	Potable
	Concrete Truck Washout	2.00	Potable
	Cleaning/Washdown	3.60	Potable
	Fitout Water Use	1.80	Potable
	Total	15.09	-
3b	Metro Box - Below N/S Concourse		
	Excavation, Road Header	0.72	Potable
	Excavation, TBM	0.00	Potable
	Excavation, Other Dust Suppression	1.80	Potable
	Concrete / Sandstone Cutting	0.63	Potable
	Concrete Curing	0.98	Potable
	Concrete Truck Washout	1.50	Potable
	Cleaning/Washdown	1.80	Potable
	Fitout Water Use	1.80	Potable
	Total	9.23	-
4	Northern Concourse	Base Case Water Use (ML)	Source
	Piling	0.00	Potable
	Pot holing	0.03	Potable
	Trenching	0.00	Potable
	Demolition, Dust Suppression	0.60	Potable
	Excavation, Road Header	0.00	Potable
	Excavation, TBM	0.00	Potable
	Excavation, Other Dust Suppression	0.00	Potable
	Concrete / Sandstone Cutting	0.23	Potable
	Concrete Curing	0.08	Potable
	Concrete Truck Washout	0.07	Potable
	Cleaning/Washdown	0.60	Potable



	Usage Activity	Base Case Water Use (ML)	Source
	Fitout Water Use	0.23	Potable
	Total	1.83	-
5	Central Walk	Base Case Water Use (ML)	Source
	Piling	0.03	Potable
	Trenching	0.45	Potable
	Demolition, Dust Suppression	0.72	Potable
	Excavation, Road Header	0.00	Potable
	Excavation, TBM	0.34	Potable
	Excavation, Other Dust Suppression	0.00	Potable
	Concrete / Sandstone Cutting	2.50	Potable
	Concrete Curing	1.47	Potable
	Concrete Truck Washout	1.50	Potable
	Cleaning/Washdown	1.20	Potable
	Fitout Water Use	0.45	Potable
	Total	8.65	-
6	Civil & RE	Base Case Water Use (ML)	Source
	Piling	0.01	Potable
	Trenching	1.35	Potable
	Demolition, Dust Suppression	0.36	Potable
	Excavation, Road Header	0.00	Potable
	Excavation, TBM	0.00	Potable
	Excavation, Other Dust Suppression	0.00	Potable
	Concrete / Sandstone Cutting	1.88	Potable
	Concrete Curing	0.49	Potable
	Concrete Truck Washout	0.25	Potable
	Cleaning/Washdown	0.90	Potable
	Fitout Water Use	0.00	Potable
	Total	5.24	-

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	Usage Activity	Base Case Water Use (ML)	Source
7	Commissioning	Base Case Water Use (ML)	Source
	DN15	0.00004	Potable
	DN20	0.00006	Potable
	DN25	0.00010	Potable
	DN32	0.00016	Potable
	DN40	0.00025	Potable
	DN50	0.00039	Potable
	DN100	0.00157	Potable
	DN150	0.00353	Potable
	DN200	0.00628	Potable
	DN250	0.00982	Potable
	DN300	0.01414	Potable
	DN315/375	0.01870	Potable
	DN600	0.05655	Potable
	DN900	0.12723	Potable
	Fire main DN150	0.00442	Potable
	Gas	0.00025	Potable
	Sewer DN525	0.00998	Potable
	Total	0.25	-
		Base Case Water Use (ML)	Source
	Totals	82.75	-

Table A1 Total Water Use Including Activity, Water Consumption, & Potential Source Type

Central Station Main Works Project Sustainability Management Plan



Base Case Assumptions

Site Compound

Base Case - Site Offices and Facilities												
	Unit	Toilets Female	Toilets Male	Urinal Male	Wash basin	Shower	Dish Washer	Kitchen Sink	Washdown	Canteen Sink	TOTAL	Notes
	Source	Non-potable	Non-potable	Non-potable	Potable	Potable	Potable	Potable	Non-Potable	Potable		
Number of units	No.	1	1	1	1	1	1	1	1	1		0 if there is none, 1 if there is one or more units installed.
People in office using equipment	No.	24.15	320.85	320.85	345	17.25	150	150	-			Assumes 5% of staff shower on-site per day; 150 Staff eat on site and use facilities per day.
WELS Star Rating (Standard practice)	Stars	3	3	3	4	3	3	4	-			GBCA Potable Water Calculator Guide 2012- Table 3
Usage per day (per person)	per day	2.3	1.3	2	2.5	3.45	3	2.5	30			GBCA Potable Water Calculator Guide 2010- Table 1
Water consumption / unit	L	4	4	2	7.5	9	1.35	7.5	25			AS/NZS 6400:2016 & https://www.watercare.co.nz/Help-and-advice/Be-Waterwise/Pressure-and-flow-rate & http://www.westernwater.com.au/files/assets/public/documents/fact-sheets-and-brochures/saving-water/business-kitchesfact-sheet.pdf
UOM	UOM	L/flush	L/flush	L/flush	L/min	L/min	L/wash	L/min	L/min	L/min		Water Rating Label
Daily consumption	L	222.18	1668.42	1283.40	6468.75	535.61	607.50	2812.50	750.00	0.00	14348.36	Formula
Annual consumption	L	69320.16	520547.04	400420.80	2018250.00	167111.10	189540.00	877500.00	234000.00	0.00	4476689.10	Formula
Total water consumption	ML	0.33	2.47	1.90	9.59	0.79	0.90	4.17	1.11	0.00	21.26	Formula

Logistics- Water Carts And Wheel Wash

Water Cart				
	Unit	Value	Notes	
Base Case	Source	Potable	Averaging 2 x Cart loads per day	
Number of Water Carts	No.	1	Averaging 2 x Cart loads per day	
Time Construction Phase	month	46	Assumption from Sydney Yard establishment	
Number of weeks	weeks	210	Assumption from Sydney Yard establishment	
Loads per Month (Summer)	Loads/ month (t)	50	Formula	
Loads per Month (Winter)	Loads/ month (t)	38	Formula	
Peak Day Water volume	L/d	20,000	(number of carts X refill per day per truck X water cart capacity)	



Average Water requirement per load	L / Load	10,000	Select
Summer Monthly	L/ month	500,000	
water			Formula
Consumption			
Winter Monthly	L/month	375,000	
water			Formula
consumption			
Average Annual	L/month	5,250,000	
water			Formula
consumption			
Total water	L	20,125,000	Farmer la
consumption			Formula
Total water	ML	20.13	Formula
consumption			romuid

Wheel Wash Sydney Yard			
	Unit	Value	Notes
Base Case	Source	Non-Potable	
Number of Wheel Wash	No.	1	
Time Construction Phase	month		Not used
Number of weeks	weeks	210	Assumption - Wheel Wash in place from SY establishment
Average Vehicle Movements Per Week	No.	85	Assumption from Construction Traffic Management Plan. ~35,750 vehicle movements for Sydney Yard over life of project. ~35,750/2/210 = 85 per week
Water Usage Per Wash	L	50	Assumption - 15mm Hose connection (25l/m) for 2 min
Total water consumption	L	892,500	Formula
Total water consumption	ML	0.89	

Street Sweeper	eet Sweeper					
	Unit	Value	Notes			
Base Case	Source	Potable	v			
Number of Street sweepers	No.	1				
Time Construction Phase	month	57	Not used			
Number of weeks	weeks	247	Assumption - Wheel Wash in place from SY establishment			

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Days per week	days	6	Assumption from Construction Traffic Management Plan. ~35,750 vehicle movements for Sydney Yard over life of project. ~35,750/2/210 = 85 per week
Operation hours per day	hours/operation	4.0	Assumption - 15mm Hose connection (25I/m) for 2 min
Street sweeper hours	Hours	5,928	Formula
Spray per hour	L/h	31	
Total water consumption	L	183,768	
Total water consumption	ML	0.2	

3a. Metro Box – Surface & North South Concourse

Piling						
	Unit	Value	Notes			
Base Case	Source	Potable				
Basis of Calculation	No. of piles x average w	ater use per pile	·			
No. of piles	No.	250	No. of piles in the metro box			
Water used per pile	L	500	Assumption - 15mm Hose connection (25I/m) for 20 min per pile			
Total water consumption	L	125000	Formula			
Total water consumption	ML	0.125	Formula			
Trenching						
	Unit	Value	Notes			
Base Case	Source	Potable				
Basis of Calculation	Allow % of water x total	Allow % of water x total weight of trench backfill				
Trench backfill	Т	5000	Total weight of tench backfill			
Percentage	%	9%	Assumption			
Total water consumption	L	450000	Formula			
Total water consumption	ML	0.45	Formula			
Demolition, Dust Suppression						
	Unit	Value	Notes			
Base Case	Source	Potable				
Basis of Calculation	Run time x consumption	n	·			
No. hose taps	No.	8	No. of hose taps			
Time Construction Phase	Weeks	12	Construction phase time length			
Number of days per week	Days	6	No. of days of operation in a week			
Operation mins per day	mins/operation	20.0	Assumed operation per day			
Total minutes	Minutes	1,440	Formula			



	1.7.	25	
Hose tap per min	L/min	25	Assumption - 15mm Hose connection (25l/m)
Total water consumption	L	288,000	Formula
Total water consumption	ML	0.3	Formula
Excavation, Road Header			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x sprayer consump	tion	
No. machines	No.	2	
Time Construction Phase	Weeks	50	
Number of days	Days	300	
Operation hours per day	hours/operation	6	
Total hours	Hours	1800	
Spray per hour	L/h	200	
Total water consumption	L	720000	Formula
Total water consumption	ML	0.72	Jim (Street Cleaning) at Inner West Council - 02 93925000
			One street sweeper tank consumes approximately 200L of water across 6.5 hours
Excavation, TBM			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x sprayer consump	tion	
No. machines	No.	0	No. of machines assumed to be on site
Time Construction Phase	Weeks	100	Construction phase time length
Number of days per week	Days	600	Formula
Operation hours per day	hours/operation	6.0	Assumed operation per day
Total hours	Hours	3,600	Formula
Spray per hour	L/h	200	Assumed litres of spray per hour
Total water consumption	L	-	Formula
Total water consumption	ML	0.0	Formula
Excavation & Archaeological Dig, Other Dust Suppression			
Excavation & Archaeological Dig, Other Dust Suppression	Unit	Value	Notes
Base Case	Source	Potable	Notes
Basis of Calculation	Run time x consumption	1 otabic	
No. hose taps	No.	8	No. of hose taps
Time Construction Phase	Weeks	125	Construction phase time length
Number of days per week	Days	6	
Operation mins per day	mins/operation	30.0	No. of days of operation in a week
Total minutes	Minutes	22,500	Assumed operation per day
	L/min		Formula Assumption 45 per Hospital (251/m)
Spray per min	L/	25	Assumption - 15mm Hose connection (25I/m)



Total water consumption	L	4,500,0	000 Formula
Total water consumption	ML	4.5	Formula
Concrete / Sandstone Cutting			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	linear m x water usag	e per m	•
linear m	No.	2500	Assumed linear m
Water used per linear m	L	250	Assumption - 15mm Hose connection (25l/m) takes 10 mins to saw 1 linear m
Total water consumption	L	625000	Formula
Total water consumption	ML	0.625	Formula
Community Comiting			
Concrete Curing	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Area x days x consum		
Area	sqm	20000	Concrete curing area
Number of days	Days	7	Assumption - 7 days wet cure required
Consumption	l/sqm/day	7	Water consumption
Total water consumption	L	980,0	
Total water consumption	ML	0.98	Formula
Concrete Truck Washout			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Volume of Concrete x	No of Trucks x Water Use	
Volume of Concrete	m3	20000	Volume of concrete required in Metro Box
No. of Trucks	No.	2500	Formula - assumes 8m3 trucks
Wash out per truck	L	800	Assumption for barrel and chute wash: http://gelmaxxusa.com/n-8645-how-to-clean-ready-mix-cement-trucks-daily-while-saving-water.html
Total water consumption	L	2000000	Formula
Total water consumption	ML	2	Formula
Cleaning/Washdown			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x consumpt		
No. hose taps	No.	8	No. of hose taps
Time Construction Phase	Weeks	200	Construction phase time length

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Number of days per week	Days	6	No. of days of operation in a week
Operation mins per day	mins/operation	15.0	Assumed operation per day
Total minutes	Minutes	18,000	Formula
Spray per min	L/min	25	Assumption - 15mm Hose connection (25l/m)
Total water consumption	L	3,600,000	Formula
Total water consumption	ML	3.6	Formula
Fitout Water Use			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x consumption		
No. hose taps	No.	8	No. of hose taps
Time Construction Phase	Weeks	100	Construction phase time length
Number of days	Days	6	No. of days of operation in a week
Operation mins per day	mins/operation	15.0	Assumed operation per day
Total minutes	Minutes	9,000	Formula
Spray per min	L/min	25	Assumption - 15mm Hose connection (25l/m)
Total water consumption	L	1,800,000	Formula
Total water consumption	ML	1.8	Formula

3b. Metro Box below N/S concourse

Excavation, Road Header			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x sprayer consumpt	ion	
No. machines	No.	2	No. of machines assumed to be on site
Time Construction Phase	Weeks	50	Construction phase time length
Number of days	Days	300	Formula
Operation hours per day	hours/operation	6	Assumed operation per day
Total hours	Hours	1800	Formula
Spray per hour	L/h	200	Assumed litres of spray per hour
Total water consumption	L	720000	Formula
Total water consumption	ML	0.72	Formula
Excavation, TBM			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x sprayer consumption		
No. machines	No.	0	No. of machines assumed to be on site



Time Construction Phase	Weeks	0	Construction phase time length
Number of days per week		0	
Operation hours per day	Days hours/operation	6.0	Formula
Total hours	Hours	-	Assumed operation per day
Spray per hour	L/h	200	Formula Assumed Manager of Company and Design of Company and Desig
· · · · ·	L/11	200	Assumed litres of spray per hour
Total water consumption	L Add	-	Formula
Total water consumption	ML	0.0	Formula
Excavation, Other Dust Suppression			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x consumption		
No. hose taps	No.	8	No. of hose taps
Time Construction Phase	Weeks	100	Construction phase time length
Number of days per week	Days	6	No. of days of operation in a week
Operation mins per day	mins/operation	15.0	Assumed operation per day
Total minutes	Minutes	9,000	Formula
Spray per min	L/min	25	Assumption - 15mm Hose connection (25l/m)
Total water consumption	L	1,800,000	Formula
Total water consumption	ML	1.8	Formula
Concrete / Sandstone Cutting			
Somercie / Sumustance Sutting	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	linear m x water usage per m		
linear m	No.	2500	Assumed linear m
Water used per linear m	1	250	Assumed linear m
water used per liftear fil		230	Assumption - 15mm Hose connection (25l/m) takes 10 mins to saw 1 linear m
Total water consumption	L	625000	Formula
Total water consumption	ML	0.625	Formula
·			
Community Comiting			
Concrete Curing	112	Value	Makas
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Area x days x consumption	Inner	
Area	sqm	20000	Concrete curing area
Number of days	Days	7	Assumption - 7 days wet cure required
Consumption	I/sqm/day	7	Water consumption
Total water consumption	L	980,000	Formula
Total water consumption	ML	0.98	Formula

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Concrete Truck Washout			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Volume of Concrete x N	No of Trucks x Water Use	
Volme of Concrete	m3	15000	Volume of concrete required in Metro Box
No. of Trucks	No.	1875	Formula - assumes 8m3 trucks
Wash out per truck	L	800	Assumption for barrel and chute wash: http://gelmaxxusa.com/n-8645-how-to-clean-ready-mix-cement-trucks-daily-while-saving-water.html
Total water consumption	L	1500000	Formula
Total water consumption	ML	1.5	Formula
Cleaning/Washdown			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x consumption	on	
No. hose taps	No.	8	No. of hose taps
Time Construction Phase	Weeks	100	Construction phase time length
Number of days per week	Days	6	No. of days of operation in a week
Operation mins per day	mins/operation	15.0	Assumed operation per day
Total minutes	Minutes	9,000	Formula
Spray per min	L/min	25	Assumption - 15mm Hose connection (25l/m)
Total water consumption	L	1,800,000	Formula
Total water consumption	ML	1.8	Formula
Fitout Water Use			
Filout water ose	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x consumptio	in .	
No. hose taps	No.	8	No. of hose taps
Time Construction Phase	Weeks	100	Construction phase time length
Number of days	Days	6	No. of days of operation in a week
Operation mins per day	mins/operation	15.0	Assumed operation per day
Total minutes	Minutes	9,000	Formula
Spray per min	L/min	25	Assumption - 15mm Hose connection (25l/m)
Total water consumption	L	1,800,000	Formula
Total water consumption	ML	1.8	Formula

Northern Concourse

Bored Piling



	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	No. of piles x average water u	use per pile	
No. of piles	No.	6	Number confirmed from Package 1 Structures
Water used per pile	L	500	Assumption - 15mm Hose connection (25l/m) for 20 min per pile
Total water consumption	L	3000	Formula
Total water consumption	ML	0.003	Formula
Mirco Piling			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	No. of piles x average water to	•	
No. of piles	No.	23	Number confirmed from Package 1 Structures
Water used per pile	L	125	Assumption - 15mm Hose connection (25l/m) for 5 min per pile
Total water consumption	L	2875	Formula
Total water consumption	ML	0.002875	Formula
Pot holing			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	No of vac ex trucks x water p	er truck	
No. of trucks	No.	3	Number confirmed from Package 1 Structures, sum of permanent mirco piles and bored piles 29. Rates 10 piles per vac truck.
Water used per truck	L	10000	
Total water consumption	L	30000	Formula
Total water consumption	ML	0.03	Formula
Trenching			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Allow % of water x total weig	ht of trench backfill	
Trench backfill	Т	0	No trenching that requires earth backfill and hence water is required for NC.
Percentage	%	9%	Assumption
Total water consumption	L	0	Formula
Total water consumption	ML	0.00	Formula
Demolition, Dust Suppression			



	Unit	Value	Notes
Base Case		Potable	Notes
Basis of Calculation		Potable	
	Run time x consumption		lu a
No. hose taps	No.	2	No. of hose taps
Time Construction Phase	Weeks	100	Construction phase time length
Number of days per week	Days	6	No. of days of operation in a week
Operation mins per day		20.0	Assumed operation per day
Total minutes	Minutes	12,000	Formula
Hose tap per min	L/min	25	Assumption - 15mm Hose connection (25l/m)
Total water consumption	L	600,000	Formula
Total water consumption	ML	0.6	Formula
Excavation, Road Header			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x sprayer consumpt	ion	
No. machines	No.	0	No. of machines assumed to be on site
Time Construction Phase	Weeks	0	Construction phase time length
Number of days	Days	0	Formula
Operation hours per day	hours/operation	0	Assumed operation per day
Total hours	Hours	0	Formula
Spray per hour	L/h	0	Assumed litres of spray per hour
Total water consumption	L	0	Formula
Total water consumption	ML	0	Formula
European TRAA			
Excavation, TBM	Unit	Value	Nobes
Dana Cara			Notes
Base Case	Source	Potable .	
Basis of Calculation	Run time x sprayer consumpt	I	T.,, .
No. machines	No.	0	No. of machines assumed to be on site
Time Construction Phase	Weeks	0	Construction phase time length
Number of days per week	Days	0	Formula
Operation hours per day	· ·	0.0	Assumed operation per day
Total hours	Hours	-	Formula
Spray per hour	L/h	0	Assumed litres of spray per hour
Total water consumption	L	-	Formula
Total water consumption	ML	0.0	Formula
Excavation, Other Dust Suppression			
	Unit	Value	Notes
Base Case	Source	Potable	
	I	<u>I</u>	



Basis of Calculation	Run time x consumption		
No. hose taps	No.	0	No. of hose taps
Time Construction Phase	Weeks	0	Construction phase time length
Number of days per week	Days	0	No. of days of operation in a week
Operation mins per day		0.0	Assumed operation per day
Total minutes	Minutes	-	Formula
Spray per min	L/min	25	Assumption - 15mm Hose connection (25I/m)
Total water consumption	L	-	Formula
Total water consumption	ML	0.0	Formula
			1 ormala
Concrete / Sandstone Cutting			
		Value	Notes
Base Case		Potable	
Basis of Calculation	linear m x water usage per m		
linear m	No.	900	Number confirmed from Package 1 Structures. Total concrete demo area is 828.7 m2, assume the area is cut into 1 m2 sections.
Water used per linear m	1	250	
Water used per inical in			Assumption - 15mm Hose connection (25I/m) takes 10 mins to saw 1 linear m
Total water consumption	L	225000	Formula
Total water consumption	ML	0.225	Formula
Concrete Curing			
Concrete Curing	Unit	Value	Notes
Base Case		Potable	Notes
Basis of Calculation	Source Area x days x consumption	Potable	
		1642.17	N
Area Number of days	sqm	7	Number confirmed from Package 1 Structures.
Number of days	Days	7	Assumption - 7 days wet cure required
Consumption	l/sqm/day	00.455	Water consumption
Total water consumption	L AI	80,466	Formula
Total water consumption	ML	0.08	Formula
Concrete Truck Washout			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Volume of Concrete x No of T	rucks x Water Use	
Volme of Concrete	m3	694.39	Number confirmed from Package 1 Structures.
No. of Trucks	No.	86.79875	Assumption - 7 days wet cure required
Wash out per truck	L	800	
			Water consumption
	1	1	·

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		1
L		Formula
ML	0.069439	Formula
Unit	Value	Notes
Source	Potable	
Run time x consumption		
No.	2	No. of hose taps
Weeks	100	Construction phase time length
Days	6	No. of days of operation in a week
mins/operation	20.0	Assumed operation per day
Minutes	12,000	Formula
L/min	25	Assumption - 15mm Hose connection (25l/m)
L	600,000	Formula
ML	0.6	Formula
Unit	Value	Notes
Source	Potable	
Run time x consumption		
No.	2	No. of hose taps
Weeks	50	Construction phase time length
Days	6	No. of days of operation in a week
mins/operation	15.0	Assumed operation per day
Minutes	4,500	Formula
L/min	25	Assumption - 15mm Hose connection (25l/m)
L	225,000	Formula
ML	0.2	Formula
	Source Run time x consumption No. Weeks Days mins/operation Minutes L/min L ML Unit Source Run time x consumption No. Weeks Days mins/operation Minutes L/min L L	Unit Value Source Potable Run time x consumption No. No. 2 Weeks 100 Days 6 mins/operation 20.0 Minutes 12,000 L/min 25 L 600,000 ML 0.6 Unit Value Source Potable Run time x consumption No. No. 2 Weeks 50 Days 6 mins/operation 15.0 Minutes 4,500 L/min 25 L 225,000

Central Walk

Piling			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	No. of piles x average water use per pile		
No. of piles	No.	50	No. of piles in CW
Water used per pile	L	500	Assumption - 15mm Hose connection (25l/m) for 20 min per pile
Total water consumption	L	25000	Formula



Total water consumption	ML	0.025	Formula
'			
Trenching			
	Unit	Value	Notes
	Source	Potable	
	Allow % of water x total weig		
Trench backfill	T	5000	Total weight of trench backfill
Percentage	%	9%	Assumption
Total water consumption	L	450000	Formula
Total water consumption	ML	0.45	Formula
Demolition, Dust Suppression			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x consumption		
No. hose taps	No.	8	No. of hose taps for CW
	Weeks	30	Construction phase time length
	Days	6	No. of days of operation in a week
	* *	20.0	Assumed operation per day
	Minutes	3,600	Formula
· ·	L/min	25	Assumption - 15mm Hose connection (25l/m)
Total water consumption	L	720,000	Formula
·	ML	0.7	Formula
Excavation, Road Header			
	Unit	Value	
	Source	Potable	
Basis of Calculation	Run time x sprayer consumtion		
No. machines	No.	0	No. of machines assumed to be on site
Time Construction Phase	Weeks	0	Construction phase time length
Number of days	Days	0	Formula
Operation hours per day	hours/operation	0	Assumed operation per day
Total hours	Hours	0	Formula
Spray per hour	L/h	0	Assumed litres of spray per hour
Total water consumption	L	0	Formula
Total water consumption	ML	0	Formula
Base Case	No.	0	No. of machines assumed to be on site



Excavation, TBM				
	Unit	Value	Notes	
Base Case	Source	Potable		
Basis of Calculation	Run time x sprayer consump	tion		
No. machines	No.	1	TEST - TBC	
Time Construction Phase	Weeks	30	TEST - TBC	
Number of days per week	Days	7		
Operation hours per day	hours/operation	8.0	TEST - TBC	
Total hours	Hours	1,680		
Spray per hour	L/h	200	TEST - TBC	
Total water consumption	L	336,000		
Total water consumption	ML	0.3		
Excavation, Other Dust Suppression				
Excavation, other bust suppression	Unit	Value	Notes	
Base Case	Source	Potable	Notes	
Basis of Calculation	Run time x consumption	Totable		
No. hose taps	No.	0	No. of hose taps for CW	
Time Construction Phase	Weeks	0	Construction phase time length	
Number of days per week	Days	0		
Operation mins per day	1	0.0	No. of days of operation in a week	
Total minutes	Minutes	-	Assumed operation per day Formula	
Spray per min	L/min	25		
Total water consumption	1	_	Assumption - 15mm Hose connection (25l/m)	
Total water consumption	ML	0.0	Formula	
Total water consumption	IVIL	0.0	Formula	
Concrete / Sandstone Cutting				
	Unit	Value	Notes	
Base Case	Source	Potable		
Basis of Calculation	linear m x water usage per m	1		
linear m	No.	10000	Assumed linear m	
Water used per linear m	L	250	Assumption - 15mm Hose connection (25I/m) takes 10 mins to saw 1 linear m	
Total water consumption	L	2500000	Formula	
Total water consumption	ML	2.5	Formula	
_				
Concrete Curing				
	Unit	Value	Notes	
Base Case	Source	Potable		
Basis of Calculation	Area x days x consumption			
	•			



Area	sqm	30000	Concrete area
Number of days	Days	7	Assumption - 7 days wet cure required
Consumption	l/sqm/day	7	Water consumption
Total water consumption	L	1,470,000	Formula
Total water consumption	ML	1.47	Formula
<u>'</u>			
Consusta Truck Week aut			
Concrete Truck Washout	Unit	Value	Notes
Base Case		Potable	Notes
Basis of Calculation	Source	No of Trucks x Water Use	
Volme of Concrete	m3	15000	Concrete area
No. of Trucks	No.	1875	Formula - assumes 8m3 trucks
Wash out per truck	L	800	Assumption for barrel and chute wash: http://gelmaxxusa.com/n-8645-how-to-clean-ready-mix-cement-trucks-daily-while-saving-water.html
Total water consumption	L	1500000	Formula
Total water consumption	ML	1.5	Formula
Cleaning/Washdown			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x consumpti		
No. hose taps	No.	4	No. of hose taps
Time Construction Phase	Weeks	100	Construction phase time length
Number of days per week	Days	6	No. of days of operation in a week
Operation mins per day	mins/operation	20.0	Assumed operation per day
Total minutes	Minutes	12,000	Formula
Spray per min	L/min	25	Assumption - 15mm Hose connection (25l/m)
Total water consumption	L	1,200,000	Formula
Total water consumption	ML	1.2	Formula
Fit out Water Use			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x consumpti	on	
No. hose taps	No.	4	No. of hose taps
Time Construction Phase	Weeks	50	Construction phase time length
Number of days	Days	6	No. of days of operation in a week
Operation mins per day	mins/operation	15.0	Assumed operation per day
Total minutes	Minutes	4,500	Formula

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Spray per min	L/min	25	Assumption - 15mm Hose connection (25l/m)
Total water consumption	L	450,000	Formula
Total water consumption	ML	0.5	Formula

Civil & RE

Piling						
	Unit	Value	Notes			
Base Case	Source	Potable				
Basis of Calculation	No. of piles x average v	No. of piles x average water use per pile				
No. of piles	No.	20	Assumed no. of piles			
Water used per pile	L	500	Assumption - 15mm Hose connection (25l/m) for 20 min per pile			
Total water consumption	L	10000	Formula			
Total water consumption	ML	0.01	Formula			
Trenching						
	Unit	Value	Notes			
Base Case	Source	Potable				
Basis of Calculation	Allow % of water x tota	al weight of trench backfill				
Trench backfill	Т	15000	Total weight trench backfill			
Percentage	%	9%	Assumption			
Total water consumption	L	1350000	Formula			
Total water consumption	ML	1.35	Formula			
Demolition, Dust Suppression						
	Unit	Value	Notes			
Base Case	Source	Potable				
Basis of Calculation	Run time x consumption	on				
No. hose taps	No.	6	No. of hose taps			
Time Construction Phase	Weeks	20	Construction phase time length			
Number of days per week	Days	6	No. of days of operation in a week			
Operation mins per day	mins/operation	20.0	Assumed operation per day			
Total minutes	Minutes	2,400	Formula			
Hose tap per min	L/min	25	Assumption - 15mm Hose connection (25l/m)			
Total water consumption	L	360,000	Formula			
Total water consumption	ML	0.4	Formula			
Excavation, Road Header						
	Unit	Value	Notes			



Base Case	Source	Potable	
Basis of Calculation	Run time x sprayer consump		
No. machines	No.	10	No. of machines assumed to be on site
Time Construction Phase	Weeks 0		Construction phase time length
Number of days	Days	0	Formula
Operation hours per day	hours/operation	0	Assumed operation per day
Total hours	Hours	0	Formula
Spray per hour	L/h	0	Assumed litres of spray per hour
Total water consumption	L	0	Formula
Total water consumption	ML	0	Formula
Excavation, TBM			
Excavation, 1514	Unit	Value	Notes
Base Case	Source	Potable	Notes
Basis of Calculation	Run time x sprayer consump		
No. machines	No.	To	No. of machines assumed to be on site
Time Construction Phase	Weeks	0	Construction phase time length
Number of days per week	Days	0	Formula
Operation hours per day	hours/operation	0.0	Assumed operation per day
Total hours	Hours	-	Formula
Spray per hour	L/h	0	Assumed litres of spray per hour
Total water consumption	L	-	Formula
Total water consumption	ML	0.0	Formula
Excavation, Vac Ex			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x sprayer consump	tion	
No. machines	No.	0	No. of machines assumed to be on site
Time Construction Phase	Weeks	0	Construction phase time length
Number of days per week	Days	0	Formula
Operation hours per day	hours/operation	0.0	Assumed operation per day
Total hours	Hours	-	Formula
Spray per hour	L/h	0	Assumed litres of spray per hour
Total water consumption	L	-	Formula
Total water consumption	ML	0.0	Formula
Excavation, Other Dust Suppression			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x consumption	1	



No. hose taps	No.	0	No. of hose taps
Time Construction Phase	Weeks	0	Construction phase time length
Number of days per week	Days	0	No. of days of operation in a week
Operation mins per day	mins/operation	0.0	Assumed operation per day
Total minutes	Minutes		Formula
Spray per min	L/min	25	Assumption - 15mm Hose connection (25l/m)
Total water consumption			Formula
Total water consumption	ML	0.0	Formula
Total water consumption	WE	0.0	Torrida
Concrete / Sandstone Cutting			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	linear m x water usa		
linear m	No.	7500	Assumed linear m
Water used per linear m	L	250	Assumption - 15mm Hose connection (25l/m) takes 10 mins to saw 1 linear m
Total water consumption	L	1875000	Formula
Total water consumption	ML	1.875	Formula
Concrete Curing			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Area x days x consun	nption	
Area	sqm	10000	Concrete area
Number of days	Days	7	Assumption - 7 days wet cure required
Consumption	l/sqm/day	7	Water consumption
Total water consumption	L	490,000	Formula
Total water consumption	ML	0.49	Formula
Concrete Truck Washout			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Volume of Concrete	x No of Trucks x Water Use	·
Volme of Concrete	m3	2500	Concrete area
No. of Trucks	No.	312.5	Formula - assumes 8m3 trucks
Wash out per truck	L	800	Assumption for barrel and chute wash: http://gelmaxxusa.com/n-8645-how-to-clean-ready-mix-cement-trucks-daily-while-saving-water.html
Total water consumption	L	250000	Formula

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Cleaning/Washdown			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x consumption	·	
No. hose taps	No.	4	Concrete area
Time Construction Phase	Weeks	150	Formula - assumes 8m3 trucks
Number of days per week	Days	2	Assumption for barrel and chute wash: http://gelmaxxusa.com/n-8645-how-to-clean-ready-mix-cement-trucks-daily-while-saving-water.html
Operation mins per day	mins/operation	30.0	Formula
Total minutes	Minutes	9,000	Formula
Spray per min	L/min	25	Assumption - 15mm Hose connection (25l/m)
Total water consumption	L	900,000	Formula
Total water consumption	ML	0.9	Formula
Fit out Water Use			
	Unit	Value	Notes
Base Case	Source	Potable	
Basis of Calculation	Run time x consumption		
No. hose taps	No.	0	Concrete area
Time Construction Phase	Weeks	50	Formula - assumes 8m3 trucks
Number of days	Days	6	Assumption for barrel and chute wash: http://gelmaxxusa.com/n-8645-how-to-clean-ready-mix-cement-trucks-daily-while-saving-water.html
Operation mins per day	mins/operation	15.0	Formula
Total minutes	Minutes	4,500	Formula
Spray per min	L/min	25	Assumption - 15mm Hose connection (25l/m)
Total water consumption	L	-	Formula
Total water consumption	ML	0.0	

Commissioning

ase Case						
	DN [mm]	L [m]	Volume [ML]	Source	Notes	
DN15	15	200	0.00004	Potable		
DN20	20	200	0.00006	Potable		
DN25	25	200	0.00010	Potable		
DN32	32	200	0.00016	Potable		
DN40	40	200	0.00025	Potable		
DN50	50	200	0.00039	Potable		
DN100	100	200	0.00157	Potable		
DN150	150	200	0.00353	Potable		



DN200	200	200	0.00628	Potable	
DN250	250	200	0.00982	Potable	
DN300	300	200	0.01414	Potable	
DN315/375	345	200	0.01870	Potable	
DN600	600	200	0.05655	Potable	
DN900	900	200	0.12723	Potable	
Fire main DN150	150	250	0.00442	Potable	
Gas	40	200	0.00025	Potable	
Sewer DN525	252	200	0.00998	Potable	
Total water consumption		Litres	0		Formula
Total water consumption		ML	0.25		Formula

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Table A2 below shows the potential potable water replacement opportunities and additional mains top-up required during the construction stage of the project. Replacement amounts are based on the amount of non-potable water able to be collected onsite, without supplying water from outside the site boundary.

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ID	Usage Activity	Non-Potable Available (ML)	Potable (ML)
_		(iviz)	
1	Site Compound		
	Replacement Opportunity 1 - Rainwater Tank for Toilet Flushing and Compound Washdown	5.03	0.00
	Replacement Opportunity 2	0	0
2	Logistics		
	Replacement Opportunity 1 - Use of rainwater for wheel wash top up	0.00	0.15
3a	Metro Box - Surface & N/S Concourse		
	Replacement Opportunity 1 - Concrete Truck Washout Water Slurry Separation Compound to reuse water	0.80	1.20
	Replacement Opportunity 2 - Rain water for concrete curing	0.14	0.00
	Replacement Opportunity 3 - Rain water for concrete cutting/sawing	0.63	0.00
3b	Metro Box - Below N/S Concourse		
	Replacement Opportunity 1 - Concrete Truck Washout Water Slurry Separation Compound to reuse water	0.60	0.30
	Replacement Opportunity 2 - Rain water for concrete curing collected from platform 12 temporary canopy	0.14	0.00
	Replacement Opportunity 3 - Rain water for concrete cutting/sawing	0.63	0.00
4	Northern Concourse		
	Replacement Opportunity 1 - Concrete Truck Washout Water Slurry Separation Compound to reuse water	0.03	0.04
	Replacement Opportunity 2 - Rain water for concrete curing	0.01	0.00
	Replacement Opportunity 3 - Rain water for concrete cutting/sawing	0.98	-0.76
5	Central Walk		
	Replacement Opportunity 1 - Concrete Truck Washout Water Slurry Separation Compound to reuse water	0.60	0.90
	Replacement Opportunity 2 - Rain water for concrete curing	0.21	0.00
	Replacement Opportunity 3 - Rain water for concrete cutting/sawing	0.78	1.72
6	Civil & RE		
	Replacement Opportunity 1 - Concrete Truck Washout Water Slurry Separation Compound to reuse water	0.10	0.15
	Replacement Opportunity 2 - Rain water for concrete curing	0.00	0.07
	Replacement Opportunity 3 - Rain water for concrete cutting/sawing	0.00	1.88
Wate	er Use (ML)	10.67	
Total	Water	10.67	5.64
Total	Water Use (%)	15.8%	84.2%

Table A2 Potential Potable Water Replacement Opportunities & Additional Mains Top-Up Required

Sustainability Management Plan



Table A3 below shows the estimated project water use and potential non-potable water replacement collected from onsite opportunities during the construction phase.

ID	Usage	Base Case Water Use (ML)	Percentage Water Use (%)	Non-potable Replacement Opportunity (ML)
1	Site Compound	21.26	25.7%	5.03
2	Logistics	21.20	25.6%	0.00
3a	Metro Box - Surface & N/S Concourse	15.09	18.2%	1.57
3b	Metro Box - Below N/S Concourse	9.23	11.1%	1.37
4	Northern Concourse	1.83	2.2%	1.19
5	Central Walk	8.65	10.5%	1.59
6	Civil & RE	5.24	6.3%	0.10
7	Commissioning	0.25	0.3%	0.00
	Totals	82.75	100%	10.67

Table A3 Estimated Project Water Use and Potential Non-Potable Water Replacement Collected From Onsite Opportunities during the construction phase

Table A4 below shows the estimated project water use and potential non-potable water replacement collected from onsite opportunities across the asset's service life of a 100 years.

Potable Water Substitution Summary

Project Phase	Proposed Total Consumption (kL)	Proposed Consumption (Sources appropriate for subsitution) (kL)	Proposed Non- Potable Water Consumption (kL)	Substitution Fraction (%)
Construction	68,620	15,080	5,030	33.36%
Operations	375,500	259,520	259,520	100.00%
Totals	444,120	274,600	264,550	96.34%

Table A4 Estimated Project Water Use and Potential Non-Potable Water Replacement Collected From Onsite Opportunities during the asset's service life of a 100 years.

Figure 3 below illustrates the construction phase water consumption tracking as of June 2022 and is currently sitting at a 11.35% reduction compared to the target for the actual monitored water use on site. The target is included in Appendix E, Table A1 at 82.75ML. This value is

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divided by the expected months of delivery to create the projection or "total target – potable" for Figure 3 below.

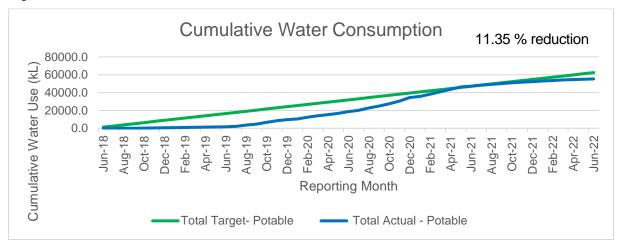


Figure 3: Actual vs Targeted Cumulative Water Consumption

Central Station Main Works Project

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Appendix F. Compliance Matrix

Document	Clause	Requirement	Reference
MR-Sy	3a	The Contractor must develop, implement and maintain governance structures, processes and systems that ensure integration and implementation of all sustainability considerations, initiatives and reporting	 This plan Sustainability Management Plan SMCSWSMC-LOR-SMC-SM-PLN-104000 Sub Plans of Sustainability Management Plan Construction Carbon & Energy Plan SMCSWSMC-LOR-SMC-SU-PLN-000002 Waste Management & Recycling Plan SMCSWSMC-LOR-SMC-SU-PLN-000003 Materials Management Plan SMCSWSMC-LOR-SMC-SU-PLN-000004
MR-Sy	3b i	Enter into a Ratings Agreement to obtain an Infrastructure Sustainability Rating for the Contractor's Activities, and provide a copy to the Principal's Representative;	Section 4.3 Section 2.5.1 Figure 1
MR-Sy	3b ii	Use the IS Rating Scheme to achieve the following, in this clause 3 (b) (ii) A. and B, below. Should either of the following occur: A. ISCA not accept the business as usual base case assumption that approximately 30% of the power demand be provided from generators in addition to mains power supply; or B. an ISCA Credit Wat-2, Level 1 is not achieved; the Contractor must: C. demonstrate the associated impact to IS Ratings; and D. achieve an adjusted minimum ISCA rating of 73, which is 75 minus 1 point for each of the above assumptions if rejected; further, the Contractor must:	Section 4.3
MR-Sy	3b ii F.	Achieve a "Design" rating score of at least 75, with a target of 79, for the design of the Works; and	Section 2.2 Table 2



Document	Clause	Requirement	Reference
MR-Sy	3b ii E.	Achieve an "As Built" rating score of at least 75, with a target of 79, for the constructed Works; and	Section 2.2 Table 2
MR-Sy	3b iii	Use the IS Rating Scheme credit weightings in accordance with 'Draft ISCA Weightings Assessment – Central Station'; and	Section 4.3 Table 4
MR-Sy	3b iv	Use the 'Draft ISCA Base Case Assumptions – Central Station' provided by the Principal's Representative to develop Base Case Footprints for relevant IS Rating Scheme credits.	Section 4.3 Table 4
MR-Sy	3c	The rating scores under the IS Rating Scheme must be verified by Infrastructure Sustainability Council of Australia verifiers in accordance with the IS Rating Scheme process using the IS Rating Scheme tool version 1.2.	Section 4.3 Table 4
MR-Sy	3d i	Register the project with the Green Building Council of Australia (GBCA)	Section 2.5.1 Figure 1
			Section 4.3
MR-Sy	3d ii	Use the Green Star Design & As Built Rating Tool (GSDABRT) to calculate the 'Design' and 'As Built' rating scores	Section 4.3
MR-Sy	3d iii	Achieve a GSDABRT 'Design Review' rating of at least 5 stars for the design of the Works; and	Section 2.2 Table 2
MR-Sy	3div	Achieve a GSDABRT 'As Built' rating of at least 5 stars for the delivery of the Works	Section 2.2 Table 2
MR-Sy	3e	The GSDABRT rating scores must be verified by the GBCA in accordance with the Green Star Rating System	Section 4.3
MR-Sy	3f	The sustainability objectives and requirements described in the Contract must be allowed for and addressed in:	context
MR-Sy	3fi	Design briefings for all personnel involved in the preparation of Design Documentation;	Section 2.6 & 2.6.1
MR-Sy	3fii	The Design Documentation;	Section 2.6 & 2.6.1
MR-Sy	3f iii	Ssite inductions for all of the Contractor's personnel and Subcontractor's personnel engaged in the Contractor's Activities; and	Section 2.6 & 2.6.3



Document	Clause	Requirement	Reference
MR-Sy	3f iv	Management Plans for the management, coordination and delivery of the Contractor's Activities.	This Plan and its Sub Plans
MR-Sy	3g i	Participate in Sustainability Forums, hosted by the Principal's Representative on a regular (at least monthly) basis and present progress updates, sustainability performance information and sustainability lessons learned and provide other information as requested	Section 3.3
MR-Sy	3g ii	Develop, implement, maintain and submit to the Principal's Representative for review in accordance with the Contract, a Sustainability Assurance Framework to identify and track compliance with the sustainability requirements defined in the Contract; and	Section 2.6.1 Section 5.1
MR-Sy	3g iii	Prepare and submit each year, by 31 August to the Principal's Representative for review in accordance with the Contract, an annual sustainability report which demonstrates the Contractor's performance in economic, social, environmental and governance areas over the last Financial Year	Section 5.1
MR-Sy	4a	Identify and describe in the Design Documentation, and implement climate change initiatives which demonstrate that the Works have been designed to combat and be resilient to the effects of climate change during each Design Stage referred to in MR-T;	Section 4.3 and Section 2.6
MR-Sy	4 b	Undertake climate change risk assessments in respect of the Works in accordance with the guidance and requirements included in the TfNSW Climate Risk Assessment Guidelines 2016 and the Infrastructure Sustainability Council of Australia's IS Rating Tool Technical Manual V1.2 – Climate Change Adaptation chapter. The risk assessments must be used as an input to inform the Design Work and be documented in the Design Documentation submitted to the Principal's Representative at Design Stage 1	Section 4.4
MR-Sy	4c	Identify all necessary adaptation measures that comprehensively address risks classified as "extreme" and "high" during the design life of the Works using AS/NZS ISO 31000:2009 Risk management – Principles and guidelines;	Section 2.2 table 2
MR-Sy	4d	Implement measures to mitigate: (i) All climate change risks classified as "extreme" and "high" in clause 4 (b) above; and	Section 2.2 table 2



Document	Clause	Requirement	Reference
		(ii) Implement measures to mitigate at least 25% of all climate change risks classified as "medium" in clause 4 (b) above.	
MR-Sy	4e	Ensure that the climate change projections and guidance which the Contractor uses to underpin the climate change risk assessment in clause 4 (b) above are the most recent available and are consistent with industry best practice, including NWRLSRT-PBA-SRT-SU-REP-000022 Climate Resilience Report.	Section 4.4
MR-Sy	5a	Undertake greenhouse gas assessment and reporting which covers the, Works, Temporary Works and Contractors Activities, in accordance with the requirements of TfNSW's Carbon Estimate and Reporting Tool (CERT). All reports required to be produced under the CERT must be provided to the Principal's Representative for review by the Principal's Representative in accordance with the Contract;	Construction Carbon and Energy Plan Sections 3.2 and Section 5.3
MR-Sy	5b	Demonstrate, using the CERT, that the Contractor has achieved at least a 20% reduction in greenhouse gas emissions associated with the Contractors Activities, measured against the CERT Base Case generated using the CERT, during Design Stage 3 and again prior to the Date of Construction Completion of the final Portion to reach Construction Completion	Construction Carbon and Energy Plan Sections 3.2 and Section 5.3
MR-Sy	5c	Ensure, and provide evidence to the Principal's Representative that, as a minimum, 25% of the total electricity being used in carrying out the Contractor's Activities is being offset through either one or a combination of the following: i. purchase of Australian Carbon Offset Credits; and ii. purchase of renewable energy from an Accredited Renewable Energy Supplier.	Construction Carbon and Energy Plan Sections 2.2 Table 2
MR-Sy	5d	Develop and implement Green Travel Plans for the personnel engaged in delivery of the Contractor's Activities	Construction Carbon and Energy Plan Sections 4.1.2
MR-Sy	6.1a	Undertake a water balance study and submit it to the Principal's Representative (prior to the commencement of construction work) that identifies the sources, uses and estimated quantities of potable and non-potable water which will be either created or used in the performance of the Contractor's Activities;	Section 4.5



Document	Clause	Requirement	Reference
MR-Sy	6.1b	Ensure that the water balance study in clause 6.1 (a) above identifies initiatives to reduce water demand and use non-potable water, which must be adopted in order to achieve the targets set out in clause 9; and	Section 4.5
MR-Sy	6.1c	Meter the water supplied for the Contractor's Activities from both recycled water networks and potable sources in order to report against the targets set out in clause 9 below.	Section 4.5
MR-Sy	6.2a	Include evidence in its Design Stage 1, Design Documentation of how materials use has been minimised through materials avoidance, reduction and innovative design;	Waste Management & Recycling Plan Section 4.1 Materials Management Plan Section 3.2
MR-Sy	6.2b	(b) undertake life-cycle assessments in accordance with ISO 14044:2006 to assist in selection of the most appropriate low-impact materials for the Contractor's Activities, Works and Temporary Works including (as a minimum): (i) concrete; (ii) steel; (iii) architectural tunnel lining; (iv) flooring; (v) wall lining; and (vi) glazing	Materials Management Plan Section 3.1
MR-Sy	6.2c	Ensure that the life-cycle assessments in clause 6.2 (b) are undertaken before the completion of Design Stage 1, and the results of the life cycle assessments are included in its Design Documentation for Design Stage 1;	Materials Management Plan Section 3.2.1
MR-Sy	6.2d	Maximise the use of recycled steel, in the Works and Temporary Works;	Materials Management Plan Section 2.3 Table 3
MR-Sy	6.2e	Use low volatile organic compounds (VOC) paints, finishes, sealants and adhesives and low emission formaldehyde composite wood products in the Works and the Temporary Works;	Materials Management Plan Section 2.3 Table 3
MR-Sy	6.2f	Ensure that all surface coatings used in the Works comply with the VOC Limits defined in the Australian Paint Approval Scheme;	Materials Management Plan Section 2.3 Table 3
MR-Sy	6.2g	Source the following materials for the Works and Temporary Works in accordance with the following requirements:	Materials Management Plan Section 2.3 Table 3



Document	Clause	Requirement	Reference
MR-Sy	6.2g	(i) concrete must be sourced from members of the Cement Concrete and Aggregate Australia; or a "similar" international association or organisation by agreement with the Principal's Representative;	Materials Management Plan Section 2.3 Table 3
MR-Sy	6.2g	(ii) steel must be sourced from suppliers that are certified under the Australian Certification Authority for Reinforcing and Structural Steels or a "demonstrated equivalent" approved association or organisation, where agreed by the Principal's Representative;	Materials Management Plan Section 2.3 Table 3
MR-Sy	6.2g	(iii) steel must be sourced from steelmakers with an ISO 14001:2015 Environmental management certified Environmental Management System;	Materials Management Plan Section 2.3 Table 3
MR-Sy	6.2g	(iv) fabricated steel products must be in accordance with AS 5131:2016 Structural steelwork – Fabrication and erection and certified through the National Structural Steelwork Compliance Scheme;	Materials Management Plan Section 2.3 Table 3
MR-Sy	6.2g	(v) at least 60% by mass of all reinforcing steel has been produced using energy-reducing processes, which include Polymer Injection Technology or its equivalent, in its manufacture;	Materials Management Plan Section 2.3 Table 3
MR-Sy	6.2g	(vi) Polyvinyl chloride must be compliant with the Green Building Council of Australia Best Practice Guidelines for PVC in the Built Environment; and	Materials Management Plan Section 2.3 Table 3
MR-Sy	6.2g	 (vii) timber products must be sourced from one or more of the following: A. re-used timber; B. post-consumer recycled timber; C. timber suppliers in Australia certified by the Forest Stewardship Council, Australia; or D. timber suppliers in Australia, certified under the Program for the Endorsement of Forest Certification. 	Materials Management Plan Section 2.3 Table 3
MR-Sy	6.2h	Record the percentage of steel sourced from Australian manufacturers and make this information available to the Principal's Representative upon request;	Materials Management Plan Section 5.2
MR-Sy	6.2i	Identify and implement initiatives to both reduce spoil quantities which will be generated during the performance of the Contractor's Activities and maximise the beneficial reuse of spoil; and	Spoil Management Plan SMCSWSMC-LOR-SMC-EM-PLN-000004



Document	Clause	Requirement	Reference
MR-Sy	6.2j	Ensure that 100% of spoil which can be re-used, is beneficially reused in accordance with the spoil reuse hierarchy identified in the Environmental Documents and is not disposed to landfill.	Spoil Management Plan SMCSWSMC-LOR-SMC-EM-PLN-000004
MR-Sy	7a	(a) Develop, implement and maintain a sustainable procurement policy and processes that comply with the requirements of BS 8903:2010 "Principles and framework for procuring sustainably – Guide", and include them in the Construction Sustainability Management Plan required in Annexure B clause 3.2;	Section 2.6.2 Materials Management Plan Section 3.2 & Section 4.1
MR-Sy	7b	Achieve, as a minimum, the following for its procurement activities using the IS Rating Scheme version 1.2 tool: • Level 2 for Pro-1 "Commitment to sustainable procurement"; • Level 3 for Pro-2 "Identification of suppliers"; • Level 3 for Pro-3 "Supplier evaluation and contract award"; and • Level 2 for Pro-4 "Managing supplier performance".	Section 2.2 Table 2
MR-Sy	7c	MISSING	
MR-Sy	7d	Demonstrate that sustainability training is being provided to High Impact Suppliers; and	Section 2.2 Table 2
MR-Sy	7e	Use a risk based approach to ensure that where High Impact Materials are sourced from a Developing Country the supplier's operations are in compliance with: • all relevant laws and regulations local to that country; • the International Labour Organization's Fundamental Conventions; and • the "Ten Principles" of the UN Global Compact.	Materials Management Plan Section 4.1.1
MR-Sy	8a	(a) The Contractor must identify and implement at least eighteen (18) community benefit initiatives which provide demonstrable and tangible benefits to local community groups, during the construction period.	Section 4.1
MR-Sy	8b	The Contractor must identify and implement at least ten (10) community benefit initiatives which provide demonstrable and tangible benefits to the broader local community beyond the construction period.	Section 4.1



Document	Clause	Requirement	Reference
MR-Sy	9a	The Contractor must prepare and submit a report named the "Climate Change Impact Assessment Report" to the Principal's Representative for review in accordance with the Contract, at Design Stage 1, Design Stage 2, Design Stage 3 Design and again prior to the Date of Construction Completion of the last Portion to reach Construction Completion.	Section 5.2 Table 9
MR-Sy	9b	The Climate Change Impact Assessment Report must: (i) be prepared in accordance with the guidance and requirements included in the TfNSW Climate Risk Assessment Guidelines; (ii) identify any project-specific climate change risks (utilising climate modelling data); and (iii) identify risk mitigation measures which have been and will be implemented to reduce risk levels.	Section 5.2 Table 9
MR-Sy	9c	The Contractor must prepare and submit to the Principal's Representative for review in accordance with the Contract, a report titled the "Greenhouse Gas Inventory Report", to be prepared using the CERT at Design Stage 1, Design Stage 2, Design Stage 3, six-monthly thereafter and again prior to the Date of Construction Completion of the last Portion to reach Construction Completion.	Section 5.2 Table 9
MR-Sy	9d	The Greenhouse Gas Inventory Report must include data relating to emissions associated with electricity and fuel consumption, on-site process emissions and embodied emissions for all materials used in the Contractor's Activities, Works and Temporary Works.	Section 5.2 Table 9
MR-Sy	9e	The Contractor must provide an inventory of non-road diesel powered vehicles to be used for the Contractor's Activities within 1 month of the date of the Contract and subsequently, annually using TfNSW's Air Emission Data Collection Workbook 9TP-FT-439.	Section 5.2 Table 9
MR-Sy	9f	Until the Date of Construction Completion of the last Portion to reach Construction Completion, the Contractor must submit six hard copies of a report titled the "Biannual Sustainability Report" (BSR) to the Principal's Representative in accordance with the Contract and one hard copy to the Independent Certifier by the seventh day of the month following the end of that quarterly period.	Section 5.2 Table 9 NOTE correspondence SMCSWCSM-SMD-CSM-SMD-CN-000499 (CSM Sustainability Reporting - MR-SY Change Order 000017) confirms that this QSR is now a biannual report to be produced 6 monthly.



Document	Clause	Requirement	Reference
MR-Sy	9a (typo)	The BSR must be easy to understand and the Contractor must provide a copy in a.pdf format that complies with the Level AA accessibility requirements in the Web Content Accessibility Guidelines (WCAG 2.0) for uploading to the Principal's Sydney Metro website.	noted
MR-Sy	9g	The BSR must, as a minimum, include, address and detail: (i) an executive summary; (ii) the status of the implementation of the sustainability strategies and initiatives identified in the Sustainability Management Plan, required under MR-PA; (iii) an update on "Design" and "As Built" performance against the Infrastructure Sustainability Council of Australia IS Rating tool version 1.2 required in clause 3 above; (iv) an update on "Design" and "As Built" performance using the GSDABRT, as required in clause 3 above; (v) climate change risk assessments undertaken and details of where the climate change risk assessment have influenced the design and construction for the Works and Temporary Works; (vi) details of greenhouse gas reduction initiatives which have been implemented in the design and construction Works and Temporary Works; (vii) life cycle assessments undertaken, and details of environmental impact reduction initiatives which have been implemented in the design and construction Works and Temporary Works; (viii) compliance with sustainable procurement requirements described in clause 7 above; (ix) the sustainability performance of the Contractor against all other requirements contained in this MR-Sy; and (x) corrective actions taken where Defects in the Works, Temporary Works or Contractor's Activities relating to sustainability were identified.	Section 5.2 & Appendix D MR-SY Change Order 000017 confirms a change to a biannual sustainability report
MR-Sy	9h	In addition and until the Date of Construction Completion of the last Portion to reach Construction Completion, the Contractor must submit to the Principal's Representative for review in accordance with the Contract, a report titled the "Quarterly Sustainability Data Report" (QSDR) by the thirtieth day of the month (containing reporting data for the previous three months).	Section 5.2 Table 9 MR-SY Change Order 000017 confirms Monthly Sustainability Data Report: frequency to be reduced from monthly to quarterly



Document	Clause	Requirement	Reference
		For example the January to March data would be submitted by the thirtieth day of April).	
MR-Sy	9i	day of April). The Contractor's QSDR must as a minimum, detail the Contractor's performance against the targets identified in the Sustainability Management Plan, Spoil Management Plan, Carbon and Energy Management Plan, and Materials Management Plan (all required under MR-PA), using the Sydney Metro City & Southwest Sustainability Reporting Template SME ES-FT- 439 including reporting on: (i) Scope 1 Carbon Emissions, Scope 2 Carbon Emissions, Scope 3 Carbon Emissions and Total Carbon Emissions Target identified in the Carbon Emissions and Total Carbon Emission Target identified in the Carbon and Energy Management Plan; (ii) electricity consumption and generation, including any on-site renewable energy generation and any renewable energy sourced for the construction of the Works and Temporary Works and performance against Electricity Consumption Targets included in the Sustainability Management Plan; (iv) quantity of greenhouse gas emissions associated with electricity consumption which have been offset, and method of offset; (v) fuel consumption and performance against Fuel Consumption Targets; (vi) volume of potable mains water consumed for the Contractor's Activities, and performance against the Mains Water Consumption Target; (vii) volume of non-potable water consumed for the Contractor's Activities, including details of the sources of non-potable water, and performance against the Non-Potable Water Consumption Target; (viii) percentage of water consumed for the Contractor's Activities which has been sourced from non-potable sources; (ix) waste generated from non-potable sources; (ix) waste generated and percentage which has been recycled or reused; quantity of office waste generated and percentage which has been recycled or reused; (x) the volume of spoil reused within the Site, beneficially reused off-site or disposed of off-site against the Spoil Targets identified in the Spoil Management Plan;	Section 5.2 & Appendix D MR-SY Change Order 000017 confirms Monthly Sustainability Data Report: frequency to be reduced from monthly to quarterly



Document	Clause	Requirement	Reference
		disposed of off-site; (xii) quantities of steel and concrete which have been used for the Contractor's Activities; (xiii) volume weighted average percentage cementitious content in concrete used for the Contractor's Activities which has comprised fly ash or slag; and (xiv) such other information that the Principal's Representative may request.	
C1 B07	2.2a	The CSM Contractor must implement design and construction initiatives to ensure compliance with the greenhouse gas emission reduction target included in the MR Sy.	Carbon Management Plan Section 4.1
C1 B07	2.2b	ISCA TOOL For those activities where ISCA IS Ratings are required, The CSM Contractor must achieve or exceed the following ISCA IS Rating Scheme Version 1.2 credit requirements: (i) Level 2 for credit Ene-1 'Energy and carbon monitoring and reduction target' demonstrating a greenhouse gas emissions reduction of 20% below a base case footprint; and	Carbon Management Plan Section 2.2
C1 B07	2.2b	(ii) Level 1 credit Ene-2 'Use of renewable energy' to fully investigate opportunities for use of renewable energy.	Carbon Management Plan Section 2.2
C1 B07	2.2c	The CSM Contractor must provide design and as-built inputs to the Operator's operational Electricity Consumption Software Model, at a frequency and timing to be agreed with TfNSW	Noted
C1 B07	2.2d	The CSM Contractor must ensure that refrigerants and fire suppression systems within temporary site facilities and permanent infrastructure have zero ozone depletion potential and a low or zero global warming potential.	Carbon Management Plan Section 2.2
C1 B07	2.2e	The CSM Contractor must ensure that all vehicles, plant and equipment, are: (i) selected and operated for optimum energy efficiency; (ii) not left idling when not in use; (iii) fitted with catalytic converters, diesel particulate filters or equivalent devices where reasonable and feasible; and (iv) well maintained and serviced in accordance with relevant equipment maintenance documentation to reduce emissions due to poor engine performance.	Carbon Management Plan Section 2.2



Document	Clause	Requirement	Reference
C1 B07	2.2f	The CSM Contractor must ensure that, the energy efficiency of all new plug-in electrical equipment within any site facilities meets the minimum standards outlined in the NSW Government Resource Efficiency Policy 2014 requirement E3 "Minimum standards for new electrical appliances and equipment".	Carbon Management Plan Section 2.2
C1 B07	2.2g	The CSM Contractor must use a minimum 5% bio diesel mix for all diesel powered plant and equipment and a minimum 10% blended ethanol mix for all petrol powered plant and equipment wherever possible	Carbon Management Plan Section 2.2
C1 B07	2.2h	The CSM Contractor must identify and implement opportunities for using onsite sources of renewable energy during the CSM Contractor's Activities	Carbon Management Plan Section 2.2
C1 B07	2.2i	The CSM Contractor must provide a photovoltaic (PV) system integrated within the reinstated or new canopies as part of the Project Works that: (i) produces a minimum 450 kW array peak power output; and (ii) is connected to the Central Station LV distribution network constructed as part of the Project Works.	Technical requirement to be traced to design package
C1 B07	2.2j	The CSM Contractor must ensure all eligible PV rebate applications are submitted on behalf of Sydney Trains, unless directed otherwise by Sydney Trains.	Noted
C1 B07	2.2k	The Metro Station must be designed to achieve a minimum 15% improvement over a reference station based on Section J minimum performance requirements as defined by the National Construction Code Building Code of Australia (NCC BCA). The 15% design improvement and reference station must include all building related energy end uses (excluding process, communication and specialist equipment energy loads).	Carbon Management Plan Section 2.2 Technical requirement to be traced to design package
C1 B07	2.21	Central Station Works and Central Walk Works must be designed to achieve a minimum 15% improvement over a reference case based on Section J minimum performance requirements as defined by the National Construction Code Building Code of Australia (NCC BCA). The 15% design improvement and reference case must include all building related energy end uses (excluding process, communication and specialist equipment energy loads).	Carbon Management Plan Section 2.2 Technical requirement to be traced to design package
C1 B07	2.3a	The CSM Contractor must ensure that metering and data collection equipment and systems are able to provide real-time information on the generation and	Technical requirement to be traced to design package



Document	Clause	Requirement	Reference
		consumption of renewable energy at the Metro Station, and interface with other Interface Contractor's public information display and communication systems.	
C1 B07	2.4.1a	The CSM Contractor must minimise water demand management including total water consumption and potable water consumption during the construction phase by: • using water efficient controls, fixtures and fittings; • harvesting rainwater wherever available; • using water from recycled water networks where available; and • collecting, treating and reusing stormwater and wastewater.	Technical requirement to be traced to design package Also handled in Section 2.2 Table 2 Section 4.5 Section 4.9 Table 8
C1 B07	2.4.1b	ISCA (b) For those activities where ISCA IS Ratings are required, the CSM Contractor must achieve or exceed the following ISCA IS Rating Scheme Version 1.2 credit requirements: (i) Level 2 for credit Wat-1 'Water use monitoring and reduction', demonstrating a reduction in water use of 10% compared to a base case footprint; and (ii) Level 1 for credit Wat-2 'Replace potable water', demonstrating that at least 33% of water used is from non-potable sources	Section 2.2 Table 2
C1 B07	2.4.1c	The CSM Contractor must not use potable water as a substitute for non-potable water where on-site or local sources of non-potable water are suitable for the CSM Contractor's Activities and are available.	Section 2.2 Section 2
C1 B07	2.4.1d	The CSM Contractor must ensure that new and extended roofs and canopies drain to any existing and functioning Central Station rainwater harvesting tanks and associated recycled water network.	Technical requirement to be traced to design package
C1 B07	2.4.1e	The CSM Contractor must connect new toilets and irrigation systems to any existing and functional Central Station recycled water network.	Technical requirement to be traced to design package
C1 B07	2.4.1f	The CSM Contractor must ensure that all construction equipment requiring water is selected taking into account the water efficiency of the equipment and associated construction methodology.	Section 4.5.3



Document	Clause	Requirement	Reference				
C1 B07 2.4.1g		The CSM Contractor must ensure that water efficient construction methods are described in all construction method statements to be applied by the CSM Contractor.	Section 4.5.3				
C1 B07	2.4.1h	For water used in onsite and offsite concrete batching plants which supply the CSM Contractor's Activities: i. The CSM Contractor must ensure that 80% of offsite and onsite batching plant concrete production operation water is recycled and incorporated into concrete production; and ii. Suspended solids content of recycled concrete production water must be controlled such that the water density is less than 1.01 g/mL and the suspended solids content does not exceed 15,000 ppm.	Section 2.2 Table 2 Materials Management Plan Section 4 Table 4				
C1 B07	2.4.1	The CSM Contractor must pass requirements relating to concrete production operation water down through its supply chain.	Materials Management Plan Section 4				
C1 B07	2.4.2a	The CSM Contractor must adopt an integrated approach to urban water cycle management during design and construction to minimise impacts on stormwater quality.	Context Technical Requirement to be Traced to design				
C1 B07	2.4.2b	lii stormwater quality targets which are suitable for either reuse or discharge	For permanent design this will be treated as a Technical Requirement to be Traced to design For construction water Section 4.5 of this plan and Section 6 & 7 of the Construction Groundwater Management Plan Sections 6 & & of the CSM Soil Water Management Plan				
C1 B07	2.4.2c	The CSM Contractor must demonstrate in the Design Documentation how it will achieve a reduction in urban stormwater pollutants in accordance with Table 1.	Technical requirement to be traced to design package				
C1 B07	2.4.3a	The CSM Contractor must meter water supply from recycled water networks and potable sources for the CSM Contractor's Activities.	Section 4.5.2				
C1 B07	2.5.1a	The CSM Contractor must ensure that at least 95% of inert and non- hazardous construction and demolition waste, excluding spoil, and at least	Waste Management & Recycling Plan Section 2.2 Table 2				



Document	Clause	Requirement	Reference
		60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively beneficially reused.	
C1 B07	2.5.1b	The CSM Contractor must identify and implement opportunities for recycling and reuse of non-putrescible general solid wastes (other than construction and demolition waste and office waste) during the CSM Contractor's Activities.	Waste Management & Recycling Plan Section 2.2 Table 2
C1 B07	2.5.1c	The CSM Contractor must negotiate and implement packaging take-back arrangements with suppliers	Waste Management & Recycling Plan Section 2.2 Table 2
C1 B07	2.5.1d	The CSM Contractor must use compostable or reusable temporary erosion control devices where practicable.	Waste Management & Recycling Plan Section 2.2 Table 2
C1 B07	2.5.1e	The CSM Contractor must provide recycling facilities within the Site where practicable.	Waste Management & Recycling Plan Section 4.5
C1 B07	2.5.1f	The CSM Contractor must include the following waste management measures in the development of the Design Documentation: i. co-mingled recycling bins adjacent to all general waste bins within all areas accessible by customers and in BOH Areas; ii. separate bins for storage of specialist waste streams, including oil, electrical and electronic waste, and equipment waste; and iii. sufficient on-site storage space for the safe storage of recyclable waste and general waste prior to collection for treatment and disposal.	Technical requirement to be traced to design package
C1 B07	2.5.2a	Materials used by the CSM Contractor for the CSM Contractor's Activities must comply with the requirements set out in the MR Sy.	Noted - see MR sy requirements under section 6.2 in this compliance table
C1 B07	2.5.2b	The CSM Contractor must undertake life-cycle assessments in accordance with the requirements of MR Sy, and must use the results of the assessments to inform the selection and use of materials during design and construction.	Materials Management Plan Section 3
C1 B07	2.5.2c	ISCA (c) For those activities where ISCA IS Ratings are required, The CSM Contractor must achieve or exceed the following ISCA IS Rating Scheme Version 1.2 credit requirements: (i) Level 2 for credit Mat-1 'Materials footprint measurement and reduction',	Section 2.2 Table 2



Document	Clause	Requirement	Reference
		demonstrating a 15% reduction in materials lifecycle impacts compared to a base case footprint.	
C1 B07	2.5.2d	The CSM Contractor must use recycled and recyclable materials where possible, without compromise to the structural integrity, longevity and visual quality of materials and structures	Technical requirement to be traced to design package
C1 B07	2.5.2e	The CSM Contractor must use reusable formwork where practicable.	Waste Management & Recycling Plan Section 2.2 Table 2
C1 B07	2.5.3a	The CSM Contractor must use low Volatile Organic Compounds (VOC) paints, finishes, sealants and adhesives and zero or low formaldehyde emission composite wood products (as defined in the Green Star Design and As Built Rating Tool) in the CSM Contractor's Activities.	Materials Management Plan Section 2.3 Table 3
C1 B07	2.5.3b	All surface coatings used by the CSM Contractor must comply with the Australian Paint Approval Scheme (APAS) Volatile Organic Compounds Limits where fit for purpose (to be agreed with TfNSW).	Materials Management Plan Section 2.3 Table 3
C1 B07	2.5.3c	All paint products must comply with the following table for maximum Total Volatile Organic Compounds (TVOC).	Materials Management Plan Section 2.3 Table 3
C1 B07	2.5.3d	All adhesives and sealants must comply with TVOC emissions limits in the following table.	Materials Management Plan Section 2.3 Table 3
C1 B07	2.5.4a	The CSM Contractor must identify and implement initiatives to both reduce spoil quantities which will be generated during the performance of the CSM Contractor's Activities and beneficially reuse 100% of reusable spoil, including topsoil.	Spoil Management Plan
C1 B07	2.5.4b	The CSM Contractor must where appropriate reuse site-won materials onsite.	Spoil Management Plan
C1 B07	2.6a	The CSM Contractor must minimise clearance of vegetation, particularly native vegetation.	Section 4.10 and Biodiversity Management Plan
C1 B07	2.6b	The CSM Contractor must undertake any landscaping and revegetation works as soon as practicable.	Section 4.10 and Biodiversity Management Plan
C1 B07	2.7a	The CSM Contractor must identify and implement pollution control initiatives in design and construction which target zero major pollution incidents.	Section 2.2 Table 2



Document	Clause	Requirement	Reference
C1 B07	2.7b	The CSM Contractor must, where practicable, ensure that all excavators and mobile cranes used for the CSM Contractor's Activities, which are onsite for more than three months, comply with USEPA Tier 4 exhaust emission standards.	Section 2.2 Table 2
C1 B07	3f	At Design Stage 2 and Design Stage 3, the CSM Contractor must produce Design Documentation demonstrating that the Project Works have been designed to achieve a minimum 15% improvement over relevant reference cases based on Section J minimum performance requirements as defined by the National Construction Code Building Code of Australia (NCC BCA). The 15% design improvement and reference cases must include all building related energy end uses (excluding process, communications and specialist equipment energy loads) and: i) where works are classified under a particular NCC BCA, Design Documentation must include energy simulation modelling and associated reporting against minimum performance requirements. Design Documentation provided at Design Stage 2 must be updated throughout design to reflect changes; ii) where works are not classified under a particular NCC BCA building classification, appropriate NCC BCA Section J benchmarks must be used to determine the minimum performance benchmark and improvements must be demonstrated by energy simulation modelling or detailed calculations; and iii) the hourly use profiles and the relative levels for occupancy, energy consuming systems and equipment such as artificial lighting, air-conditioning, ventilation, lifts and internal transport devices, domestic hot water and variable energy using systems and equipment such as computers, Datacom equipment and machinery must be developed, tested for appropriateness and stated within the CSM Contractor's energy simulation and/or calculations provided.	Traced to design
C1 B07	3a	Sustainability must be addressed by the CSM Contractor within Design Documentation for all relevant design packages at each Design Stage.	Traced to design / establishment of design report template
C1 B07	3b	The CSM Contractor must produce estimates of operational electricity consumption at each of the Design Stage 1, Design Stage 2 and Design Stage 3. The estimates must include a breakdown of electricity consumption, by	Traced to design



Document	Clause	Requirement	Reference
		system, and document the assumptions which have been used in the development of the estimates.	
C1 B07	3c	The CSM Contractor must produce climate change impact assessment reports at Design Stage 1, Design Stage 2 and Design Stage 3 which demonstrates how climate change risks have been mitigated in design.	
C1 B07	3d	The CSM Contractor must produce life-cycle assessment reports at Design Stage 1, Design Stage 2 and Design Stage 3 which describes how life-cycle assessment has been used as a decision making tool for material selection and sourcing and design to minimise life cycle environmental impacts.	Materials Management Plan Section 3.2
C1 B07	3e	The CSM Contractor must produce completed Green Star Design and As Built Refrigerants Impacts Calculator for all station heating, ventilation, air conditioning and refrigerant (HVAC&R) systems at Design Stage 2 and Design Stage 3.	Traced to design
C1 B07	3f	At Design Stage 2 and Design Stage 3, the CSM Contractor must produce Design Documentation demonstrating that the Project Works have been designed to achieve a minimum 15% improvement over relevant reference cases based on Section J minimum performance requirements as defined by the National Construction Code Building Code of Australia (NCC BCA). The 15% design improvement and reference cases must include all building related energy end uses (excluding process, communications and specialist equipment energy loads) and: i) where works are classified under a particular NCC BCA, Design Documentation must include energy simulation modelling and associated reporting against minimum performance requirements. Design Documentation provided at Design Stage 2 must be updated throughout design to reflect changes; ii) where works are not classified under a particular NCC BCA building classification, appropriate NCC BCA Section J benchmarks must be used to determine the minimum performance benchmark and improvements must be demonstrated by energy simulation modelling or detailed calculations; and iii) the hourly use profiles and the relative levels for occupancy, energy consuming systems and equipment such as artificial lighting, air-conditioning, ventilation, lifts and internal transport devices, domestic hot water and variable	Traced to design



Document	Clause	Requirement	Reference
		energy using systems and equipment such as computers, Datacom equipment and machinery must be developed, tested for appropriateness and stated within the CSM Contractor's energy simulation and/or calculations provided.	
C1 B07	3g	The CSM Contractor must produce a quarterly sustainable design report which includes: (i) a compliance table which shows the status of compliance with sustainability requirements from this Appendix B07 and the MR Sy which are addressed in design; (ii) evidence of how the sustainable design initiatives achieve the targets in MR Sy and this Appendix B07; (iii) a graphical representation of the achievement of sustainability targets in MR Sy and this Appendix B07; (iv) illustrations of key sustainability initiatives; (v) evidence to show where climate change mitigation and adaptation measures or changes have been implemented in design; (vi) scoring achieved using the Green Star and ISCA's IS Rating Tool 'Design' Rating including supporting completed checklists and scorecards; (vii) demonstration of progress toward achieving ISCA Ene-1, Ene-2, Mat-1, Wat-1 and Wat-2 credits; (viii) details of where low carbon initiatives have been implemented in the design and construction of the Project Works and Temporary Works; (ix) initiatives which have been implemented to minimise the embodied carbon emissions of concrete mixes which will be used in the Project Works and Temporary Works; (x) updates on sustainable procurement activities which have been completed in the quarter; and (xi) a demonstration and description of innovative sustainable design initiatives.	Appendix D Reporting
Infrastructure approval SSI 15_7400	E71	The proponent must seek to achieve a best practice level of performance for the CSSI using market leading sustainability ratings tools (including a minimum 'Design' and 'As built' rating score of 65 using the Infrastructure Sustainability Council of Australia infrastructure rating tool, or an equivalent level of performance using a demonstrated equivalent rating tool).	Section 2.2 Table 2



Document	Clause	Requirement	Reference
Infrastructure approval SSI 15_7400	E72	E72 The Proponent must prepare a Sustainability Strategy to be submitted to the Secretary within six (6) months of the date of this approval, or within another timeframe agreed with the Secretary, which must be implemented throughout design, construction and operation of the CSSI. The Sustainability Strategy must include:	Section 2.2 (as it relates a construction project level)
		(a) details of the sustainability objectives and targets for the design, delivery and operation of the CSSI;	
		(b) details of the sustainability initiatives which will be investigated and / or implemented; and	
		(c) a description of how the strategy will be implemented for the CSSI.	
Infrastructure approval SSI 15_7400	E73	E73 Opportunities to reduce operational greenhouse gas emissions must be investigated during detailed design. The sustainability initiatives identified must be implemented, reviewed and updated regularly throughout design development and construction, and annually during operation.	Section 4.6
Infrastructure approval SSI	E106	Waste generated during construction and operation is to be dealt with in accordance with the following priorities:	WASTE MANAGEMENT PLAN SMCSWSMC-LOR-SMC-SU-PLN-000003 Section 4
15_7400		(a) waste generation is to be avoided and where avoidance is not reasonably practicable, waste generation is to be reduced;	
		(b) where avoiding or reducing waste is not possible, waste is to be re-used, recycled, or recovered; and	
		(c) where re-using, recycling or recovering waste is not possible, waste is to be treated or disposed of.	
CEMF	Section 14.1a	The following materials management objectives would apply to the construction of the project:	context
CEMF	Section 14.1a (i)	Reduce material use throughout the project life-cycle.	Waste Management plan
CEMF	Section 14.1a (ii)	Consider embodied impacts in materials selection.	Materials Management plan section 3
CEMF	Section 14.1a (iii)	Use recycled materials.	Materials Management plan Table 3 and Table 4



Document	Clause	Requirement	Reference					
CEMF	Section 14.1a (iv)	Recycle and reuse materials onsite.	Waste Management Plan Section 4					
CEMF	Section 14.1a (v)	Influence subcontractors and materials suppliers to adopt sustainability objectives in their works and procurement.	This plan section 2.6.2					
CEMF	14.2a	Principal Contractors will be required to develop and implement a Sustainable Procurement Policy that will include as a minimum:	This plan section 2.6.2					
CEMF	14.2a (i)	The materials mitigation measures as detailed in the environmental approval documentation.	This plan section 2.6.2					
CEMF	14.2a (ii)	The relevant requirements of the City & Southwest Environment and Sustainability Policy and the City & Southwest Sustainability Strategy.	This plan section 2.6.2					
CEMF	14.2a (iii)	The responsibilities of key project personnel with respect to the implementation of the policy	This plan section 2.6.2					
CEMF	14.2a (iv)	Compliance record generation and management.	This plan section 2.6.2					
CEMF	14.2a (v)	Ethical sourcing of materials.	This plan section 2.6.2					
CEMF	14.2a (vi)	Local sourcing.	This plan section 2.6.2					
CEMF	14.2b	The Contractors will be required to retain records detailing the consideration of sustainability in the procurement of all materials.	Materials management plan section 5.2					
CEMF	14.3	Materials Mitigation						
	14.3a	Examples of materials mitigation measures include:	Context - Relevant examples will be addressed as appropriate					
	14.3a(i)	Consideration of quality and durability in the procurement of materials.	Materials management plan section 5.2					
	14.3a(ii)	Using recycled materials.	Materials Management plan Table 3 and Table 4					
	14.3a(iii)	Using materials with a lower embodied impact.	Materials Management plan section 3					
	14.3a(iv)	Using recycled steel in concrete reinforcement.	Materials Management plan table 3					
	14.3a(v)	Developing deconstruction plans to enable recycling and reuse at end-of-life.	No example					
	14.3a(vi)	Using low-VOC, low emission materials	Materials Management plan table 3					



Document	Clause	Requirement	Reference
	14.3a(vii)	Using sustainably sourced timber and wood products.	Materials Management plan table 3
	14.3a(viii)	Low-carbon concrete.	Materials Management plan table 3 table 4
	14.3a(ix)	Consideration of whole-of-life costs during procurement.	Procurement management plan

[SMCSWCSM-LOR-SMC-SU-PLN-000001] O [July 2022]

Central Station Main Works Project Sustainability Management Plan



Appendix G. Extract of CSM RAATM (Requirements, Analysis, Allocation, Traceability, Matrix)

CSM Identifier	Source Document	Clause	Description	Туре	Requirement Text	Verification and Validation Phase	Discipline	V&V Method	Criticality	Design Response	Status	LOR Assessment	Sydney Metro	As Built Response	LOR Assessment	Sydney Metro Assessment - As
CSM-REQ-009571	SWTC - Appendix B07 - Sustainability		1 General	Heading		(44)				Heading only	CLOSED	NA	NA	Heading only	NA	NA.
	Requirements Rev 2.0 01/02/2018															
CSM-REQ-009572	SWTC - Appendix B07 - Sustainability		1.1 Introduction	Heading						Heading only	CLOSED	NA.	NA	Heading only	NA	NA
	Requirements Rev 2.0 01/02/2018									for information only				For information only		
CSM-REQ-009573	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018	1.1, (a)	This Appendix BO? Contains the sustainability requirements that the CSM Contractor must comply with. These requirements relate to the Project Works and Temporary Works and are in addition to the Management Requirements Sustainability (MR Sy) which describes requirements and processes in relation to the management of sustainability related aspects for the project.	Information						For intormation only	CLOSED	NA .	NA .	For information only	NA	NA .
CSM-REQ-009574	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018		1.2 Scope	Heading						Heading only	CLOSED	NA	NA	Heading only	NA	NA
CSM-REQ-009575	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	1.2, (a)	The CSM Contractor must:	Information						For information only	CLOSED	NA.	NA	For information only	NA	NA
CSM-REQ-009576	SWTC - Appendix B07 - Sustainability	1.2, (a), (i)	The CSM Contractor must: deliver on the sustainability requirements across the key themes outlined in the	Process Requirement	deliver on the sustainability requirements across the key themes outlined in the Sydney	Design	SY	Analyse	Essential	For information - Key themes addressed in 1.2, (a), (i), A- 1.2, (a), (i), K	OPEN & ONGOING	Compliant	Compliant	For information - Key themes addressed in 1.2, (a), (i), A- 1.2, (a), (i), K	On track	On track
	Requirements Rev 2.0 01/02/2018		deliver on the sustainability requirements across the key themes outlined in the Sydney Metro City & Southwest Sustainability Strategy including:	Requirement	across the key themes outlined in the Sydney Metro City & Southwest Sustainability Strategy including:											
CSM-REQ-009577	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018	1.2, (a), (i), A	The CSM Contractor must: doise on the sunshindling requirements across the key themes outlined in the Sydrey Mero Cby & Southwest Sustainability Strategy including: governance;	Process Requirement	governance;	Design	2A	Analyse	Essential	**SMCSWCSA*+OIP-SMC-G3-Pix+000001-* scattanability Management Plan (SMP) Bit Strategy is listed in Section (1.3) where the strategic objectives of each key theme are addressed The CSM reported targets have been aligned with the strategic objectives of each key theme are addressed The CSM reported targets have been aligned with the strategic themes and are set out in Table 2, Section 1.20 Committees of the strategic Management Plan (1.5) Committees and CSM reported (1.5) Committees of the strategic Management Plan SMCSWSMC-LOR-SMC-SUP-RN-000003 *Materials Management Plan SMCSWSMC-LOR-SMC-SUP-RN-000003 *Meterials Management Plan SMCSWSMC-LOR-SMC-SUP-RN-000003	OPEN & ONGOING	Compliant	Compliant	Management reviews Systems audit Management Plans Reports (Biannually and Quarterly)	On track	On track
CSM-REQ-009578	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	1.2, (a), (i), B	The SSM Contextor must. Golden on the sustainability requirements across the key themes outlined in the Sydney Metro City & Southwest Sustainability Strategy including: climate change resilience;	Process Requirement	climate change resilience;					SMCSNCSA-LOUS SMC-SU-PLANCODOL - Sectionability Management Plan but Strategy is lated to science 13.3 where the strategic objectives of each key theme are addressed the CMR project largest have been aligned with the strategic themes and are set out in Table 2 below, Section 12.2 if the science of Substantiality Management Plan Construction Carbon & Energy Plan SMCSMSM-CLOR SMC-SU-PLN-000002 *Waste Management & Renging Plan SMCSMSM-CLOR SMC-SU-PLN-000003 *Materials Management Plan SMCSMSM-CLOR SMC-SU-PLN-000003 Section 4.4 of the SMP addresses Climate Change Resilience related criteria	OPEN & ONGOING	Compliant	Compliant	CCAR Add the AB version	On track	On track
CSM-REQ-009579	SWTC - Appendix B07 -	1.2, (a), (i), C	The CSM Contractor must:	Process	carbon and energy management;	Design	SY	Analyse	Essential	- SMCSWCSM-LOR-SMC-SU-PLN-000001 - Sustainability Management Plan	OPEN & ONGOING	Compliant	Compliant	Reports (Biannually and Quarterly)	On track	On track
	Sustainability Requirements Rev 2.0 01/02/2018		delive on the sustainability requirements across the key themes outlined in the Sydery Metro Cly Southwest Sustainability Strategy including: carbon and energy management;	Requirement		One in a	C.		Security	The Strategy is listed in Section I.3.3 where the strategic objectives of each key theme are addressed The CSM project states have been aligned with the strategic themes and are set out in Table 2 below, Section I.2. a Section I.2. a section of Section I.2. and Section I.2. a				CERT Offsets of Caluar Section of the SIA Section of SIA Section of SIA Section of SIA Section of SIA Sec		
CSM-REQ-009580	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018	1.2, (a), (i), D	The CSM Contractor must. In CSM Contractor must discover the key themes outlined in the Sydney Metro City & Southwest Sustainability Strategy including: community benefit;	Process Requirement	community benefit;					SMCSWCSA 40B-58M CS4-PA-N00001- Seatzanability Management Plan The Strategy is listed in Section 113, 19th est strategic dischered or back by theme are addressed The CSM project targets have been aligned with the strategic themes and are set out in Table 2 below, Section 12 2). Sub Plans of Sustainability Management Plan Construction Carbon & Energy Plan ASKOSMSM-CLOR SMC 54-PA-000002 *Waste Management & Rengright Plan SMCSWSM-CLOR SMC 54-PA-000003 *Waste Management & Rengright Plan SMCSWSM-CLOR SMC 54-PA-000003 *Waste Management Plan SMCSWSM-CLOR SMC 54-PA-000003 Section 4.1 of the SMP addresses community benefit related criteria	OPEN & ONGOING	Compliant	Compliant	See CSA4-REQ-915-299 to close out this item	On track	On track
CSM-REQ-009581	SWTC - Appendix B07 -	1.2, (a), (i), E	The CSM Contractor must:	Process	water efficiency;	Design	SY	Analyse	Essential	- SMCSWCSM-LOR-SMC-SU-PLN-000001 - Sustainability Management Plan	OPEN & ONGOING	Compliant	Compliant	See CSM-REQ-009620 to close out this item	On track	On track
	Sustainability Requirements Rev 2.0 01/02/2018		deliver on the sustainability requirements across the key themes outlined in the Sydrey Metro City & Southwest Sustainability Strategy including: water efficiency;	Requirement		Device	S.	Analysis	Secontial Second	The Strategy is listed in Section I.3.3 where the strategic objectives of each key theme are addressed flee CGM project stages have been aligned with the strategic themes and are set out in Table 2 below, Section I.2.3 set along the strategy of the str						
CSM-REQ-009582	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	1.2, (a), (i), F	he SSM Contractor must. Include Contractor must did to the Contractor of the Rey Remes outlined in the Sydrey Merro City & Southwest Sustainability Strategy including: waste and materials;	Process Requirement	waste and materials;	Design	S.	Analyse	Secontial Second	-SMCSWCSA 4:DR-584 CR 54CH CR	OPEN & ONGOING	Compliant	Compliant	See: CSM-REQ-009652 CSM-REQ-009653 CSM-REQ-009654	On track	On track
CSM-REQ-009583	SWTC - Appendix B07 - Sustainability	1.2, (a), (i), G	The CSM Contractor must: deliver on the sustainability requirements across the key themes outlined in the	Process Requirement	heritage conservation;	ocage!		отниуж	c-senud!	N/a to Sustainability - falls under the rmit of environment CSM-REQ-015309 RVTM and Contract deliverables close out - KS1 CSM	OPEN & ONGOING	Compliant	Compliant	N/a to Sustainability - falls under the rmit of environment CSM-REQ-015309 RVTM and Contract deliverables close out -	On track	On track
	Requirements Rev 2.0 01/02/2018		deliver on the sustainability requirements across the key themes outlined in the Sydney Metro City & Southwest Sustainability Strategy including: heritage conservation;	requirement		Desire	ev	A makes	Essantic'	nv im and Chitract deliverations 3036 Out - KS1 CSM				CSM-REQ-015309 RVTM and Contract deliverables close out- KS1 CSM		
CSM-REQ-009584	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018	1.2, (a), (i), H	The CSM Contractor must: deliver on the sustainability requirements across the key themes outlined in the Sydney Metro City & Southwest Sustainability Strategy including: biodiversity conservation;	Process Requirement	biodiversity conservation;	Design	31	Princi/SE	essential	N/a to Sustainability - falls under the milt of environment CSM-REQ-015309 RVTM and Contract deliverables dose out - KS1 CSM	OPEN & ONGOING	Compliant	Compliant	N/a to Sustainability - falls under the rmit of environment CSM-REQ-015309 RVTM and Contract deliverables close out - KS1 CSM	On track	On track
CSM-REQ-009585	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018	1.2, (a), (i), I	The CSM Contractor must: deliver on the sustainability requirements across the key themes outlined in the Sydrey Metro City & Southwest Sustainability Strategy including: pollution control;	Process Requirement	pollution control;	Design	51	Analyse Analyse	Essential	N/a to Sustainability - falls under the rmit of environment CSM-REQ-015309 RVTM and Contract deliverables dose out - KS1 CSM	OPEN & ONGOING	Compliant	Compliant	N/a to Sustainability - falls under the rmit of environment CSM-REQ-015309 RVTM and Contract deliverables close out - KS1 CSM	On track	On track
CSM-REQ-009586	SWTC - Appendix B07 - Sustainability	1.2, (a), (i), J	The CSM Contractor must: deliver on the sustainability requirements across the key themes outlined in the	Process Requirement	liveability; and	Design	31	Analyse	essential	- SMCSWCSM-LOR-SMC-SU-PLN-000001 - Sustainability Management Plan The Strategy is listed in Section (1.3) where the strategic objectives of each key theme are addressed	OPEN & ONGOING	Compliant	Compliant	James - What would you like to see here to close this out for the AB phase?	On track	On track
	Requirements Rev 2.0 01/02/2018		deliver on the sustainability requirements across the key themes outlined in the Sydney Metro City & Southwest Sustainability Strategy including: liveability; and			Design	SY	Analyse	Essential	The Strategy is listed in Section (1.3) where the strategic objectives of each key theme are addressed. The CSM project targets have been aligned with the strategic themes and are set out in Table 2 below, Section (2.2)				niewe Mingages		

CSM-REQ-009587	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018	1.2, (a), (i), K	The CSB Contractor must. deliver no the scalabolity requirements across the key themes outlined in the Sydney Metro Cay & Southwest Sustainability Strategy including: supply chain;	Process Requirement	supply chain;	Design	SY	Analyse	Essential	-SMCSWCSA-LOR-SMC MCM-CAP-FAN-COOCH - Sextan-billiny Management Plan the Strategis in lates in Section 13, all where the strategic objectives of each key theme are addressed The CSM reject targets have been aligned with the strategic themes and are set out in Table 2 below, Section (2.2) — The CSM Project has very clear objectives to deliver a prourement strategy that can effectively incorporate not just the technical and process sustainability regiments but also to address sustainability risk and opportunity that exists in the construction supply chain. The approach to Scattandale Processerement of further discussed in the Materials Management Plan (SMCSWSMC-LOR-SMC- SUP-10-00004).	OPEN & ONGOING	Compliant	Compliant	See See	On track	On track
CSM-REQ-009588	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	1.2, (a), (ii)	The CSM Contractor must: implement design and construction initiatives which contribute to the CSM Contractor meeting the sustainability targets included in this SWTC and MR Sy;	Requirement	implement design and construction initiatives which contribute to the CSM Contractor meeting the sustainability targets included in this SWTC and MR Sy;	DesignImplementation	SV.	ReviewinspectAnalyse	Essential	SMCSWCAM-LOB-SMC-SJ-PLN-000001 - sustainability Management Plan section 48 Sustainability initiatives — identify, and implement at least eighthers [18] community benefit initiatives that provide demonstrable and trapple benefit to local community proposed using the construction period. — -Identify and implement at least ten [10] community benefit initiatives that provide demonstrable and tangible benefits to the broader local community beyond the construction period.	OPEN & ONGOING	Compliant	Compliant	Final BSR - Appendix listing the dashboard for reference	On track	On track
CSM-REQ-009589	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018	1.2, (a), (iii)	The CSM Contractor must: implement design and construction initiatives which are included in the Socialnoshility Management Plar; and	Process Requirement	implement design and construction initiatives which are included in the Sustainability Management Plan; and	Designimpiementation Design	SY	Analyse	Essential	SMCSWCSM-LOR-SMC-SU-PUX-000001 - Sustainability Management Plan section 48 Sustainability indistance. — 'Identify and implement at least eighteen (18) community benefit initiatives that provide demonstrable and tangible benefits to local community groups during the construction providu. — 'Identify and implement at least text (10) community benefit initiatives that provide demonstrable and tangible benefits to the broader local community benefit initiatives that provide demonstrable and tangible benefits to the broader local community beyond the construction period.	OPEN & ONGOING	Compliant	Compliant	Final BSR - Appendix listing the dashboard for reference	On track	On track
CSM-REQ-009590	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018	1.2, (a), (iv)	The CSM Contractor must: use the Infrastructor sustainability Council of Australia's 15 Rating Tool and the Green Building Council of Australia's Green Star Rating Tool to achieve the minimum ratings specified in MR 5y.	Requirement	use he infrastructure Suzainability Council of Australia's IS Rating Tool and the Green Building Council of Australia's Green Star Rating Tool to achieve the minimum ratings specified in MR Sy.					IOR and ICE retreed into a rating agreement with ICE and provided to the principal's representative IOR conflim that the IORA Center Control System Very Jainty Root and that it will use the Green Sare Prosign & As Built Rating Tool (GCDABRT) to calculate the 'Design' and 'AB Built 'rating conces, concer and starked was Appendix C of the Sept 2021-March 2022 Biannual report. Align with the following MMS or requirements: 3. (b), (b), (CM-ROOT-0032313 3. (b), (b), (CM-ROOT-0032313	CLOSED	Compliant	Compliant	Update with the As-Built score once verified	NA	NA.
CSM-REQ-009591	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018		2 Performance and Technical Requirements	Heading		Design	31	Analyse	Essential	Heading only	CLOSED	NA	NA	Heading only	NA	NA
CSM-REQ-009592	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2	2.1 Climate Change	Heading						Heading only	CLOSED	NA	NA	Heading only	NA	NA

March Marc	F	Tarres			1-				1			-					
March Marc	CSM-REQ-009593	Sustainability Requirements Rev 2.0	2.1, (a)	The CSM Contractor must implement design and construction initiatives to ensure compliance with the climate change risk mitigation requirements included in the MR-Sy.	System Requirement	ensure compliance with the climate					Impact Assessment Report - SMCSWCSM-DJV-NC-00-REP-EN-000104 See climate change risk mitigation requirements included in the MR-Sy, contract requirement CSM-REQ-	PEN & ONGOING	Compliant	Compliant	Close out of CSM-REQ-015235 - 4., (a)	On track	On track
March Marc	CSM-REQ-009594		2.2	Carbon Management and energy efficiency	Heading	included in the MR-Sy.	DesignImplementation	SY/LR	ReviewInspect	Essential		CLOSED	NA	NA	Heading only	NA	NA.
March Marc		Requirements Rev 2.0 01/02/2018															
Part	CSM-REQ-009595	Sustainability Requirements Rev 2.0	2.2, (a)	to ensure compliance with the greenhouse gas emission reduction target	System Requirement	design and construction initiatives to ensure compliance with the greenhouse gas emission reduction target included in					and Energy initiatives for the management of energy and carbon refer to the Construction Carbon and Energy Plan (SMCSWSN-LOR-SMC-SU-PLN-000002). Other alters relating to GHE amissions industrions - Tenegy Modelling Spent (SWIT requirements) - SMCSWCSM-DN-NC-00-REP-SU-000104		Compliant	Compliant		On track	On track
March Marc							DesignImplementation	SY	ReviewInspect	Essential							
March 1948 Section 1948 Sectio	CSM-REQ-009596	Sustainability Requirements Rev 2.0	2.2, (b)	For those activities where ISCA IS Ratings are required, The CSM Contractor must achieve or exceed the following ISCA IS Rating Scheme Version 1.2 credit requirements:	Information						For information only	CLOSED	NA	NA	For information only	NA	NA
March Marc	CSM-REQ-009597	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	2.2, (b), (i)	achieve or exceed the following ISCA IS Rating Scheme Version 1.2 credit requirements: Level 2 for credit Ene-1 'Energy and carbon monitoring and reduction target'	Technical Requirement	monitoring and reduction target' demonstrating a greenhouse gas emissions					Ene-1 mode's and credit submission have been developed and managed by an NGERS auditor (as require by the Ene1 credit criteria) and reviewed by the project ISAP, and pending verification by ISC the project expect to the achieve a reduction of 35.9287th as-built monitoring has been ongoing with an update to	OPEN & ONGOING	On track	On track	Awaiting ISC verification	On track	On track
March Marc	CSM-REQ-009598	SWTC - Appendix 807 -	2.2. (b). (ii)	footprint; and	Technical	Level 1 credit Ene-2 'Use of renewable energy'	Design	SY	Review	Essential	(See section 3.1.2 of the Sept-21 to March-22 Biannual Report)	OPEN & ONGOING	On track	On track	Awaiting ISC verification	On track	On track
According Acco		Requirements Rev 2.0 01/02/2018		requirements: Level 2 credit fine? 'Use of renewable energy' to fully investigate opportunities for use of renewable energy.	Requirement	renewable energy.	Design	SY	Review	Essential	by the poject SAP, and pending verification by ISC the project sexect to the achieve of 12.67% of energy from rerewable sources (including construction phase offiets). Renewable finergy investigation (MICSWCSA) O/IV-ACO 4884-SU-000002) forms evidence for ISC credit properties of the project sex of	t is if the control of the control o					
Registration (Control Control	CSM-REQ-009599		2.2, (c)		System							OPEN & ONGOING	Missing			On track	On track
Part Company		Requirements Rev 2.0		be agreed with TRNSW.	requiencia	Electricity Consumption Software Model, at a	Designation also assessing	64	Davioudouand	Ferential	The second secon			Overdue			
Column C	CSM-REQ-009600	Sustainability Requirements Rev 2.0	2.2, (d)	systems within temporary site facilities and permanent infrastructure have		refrigerants and fire suppression systems within temporary site facilities and permanent infrastructure have zero ozone depletion potential and a low or zero	Designimplementation	SY/LR	ReviewInspect	Essential	- Discipline Statement - Mechanical Design, Package: 2117 - Metro Box Package 9, Status: Stage 2 Clear Submission, Document Humber: 54/KSV/SVAD / NV-92 APE R-MODODIQ, Revisione, A Dispensiol, C ps. 43). Section 3-9 (ps. 16) explains that Appendix C is both for the metro box and site wide. Additionally included as Appendix of the September 2019 - March 2020 Binanual Report. Temporary site facilities: - Only dry Chemical and COZ fire extinguishess are used onsite, both of which have zero ozone depletion potential and low or zero global warming potential. Furthermore, refrigerants in the site office air conditioning is 422 which has zero concer despleting potential and condidered to have lower global	ŧ	Compliant	Compliant		On track	On track
Column C	CSM-REQ-009601	Sustainability Requirements Rev 2.0	2.2, (e)	The CSM Contractor must ensure that all vehicles, plant and equipment, are:	Information						For information only	CLOSED	NA.	NA	For information only	NA	NA
COM-81Q-COMPAND SECTION Companies and processing an	CSM-REQ-009602	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	2.2, (e), (i)		System Requirement						LOR-SMC-SU-PLN-000002]	CLOSED	Compliant	Compliant		On track	On track
Column C	CSM-REQ-009603	SWTC - Appendix B07 -	2.2, (e), (ii)	The CSM Contractor must ensure that all vehicles, plant and equipment, are: not left idling when not in use:		not left idling when not in use;	Implementation	LR	Inspect	Essential	Mitigation measures addressed in the Construction Carbon & Energy Management Plan - SMCSWSMC- LOR-SMC-SU-PLN-0000021	CLOSED	Compliant	Compliant	Weekly sustainability site inspections	On track	On track
Settlembling Settl							Implementation	LR	Inspect	Essential					Weekly sustainability site inspections		
With Captering 807 Captering 8	CSM-REQ-009604	Sustainability Requirements Rev 2.0	2.2, (e), (iii)	fitted with catalytic converters, diesel particulate filters or equivalent devices	System Requirement	particulate filters or equivalent devices where	Implementation	10	Inchest	Errential	LOR-SMC-SU-PLN-000002]	CLOSED	Compliant	Compliant	Plant report from SELECT	On track	On track
Soutsimilability Requirement New 2.0 01/02/2018 Requirement N	CSM-REQ-009605	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	2.2, (e), (iv)	well maintained and serviced in accordance with relevant equipment maintenance		with relevant equipment maintenance documentation to reduce emissions due to	Implementation	LR	Inspect	Essential	LOR-SMC-SU-PLN-000002]	CLOSED	Compliant	Compliant	Plant report from SELECT	On track	On track
Sustainability plant and equipment and a minimum 10% blended ethanol mix for all petrol Requirements. Rev 2.0 powered plant and equipment wherever possible. (3) (1)(2)(2)(3) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		Sustainability Requirements Rev 2.0 01/02/2018		electrical equipment within any size facilities meets the minimum standards contineed in the Novemennt Resource (Tellicone) Policy 2014 (requirement S.) "Minimum standards for new electrical appliances and equipment".	Requirement	energy efficiency of all new plus in electrical equipment within any site facilities entered the minimum standards outlined in the ISW Government Besource (Filicency Policy 2014 Government Besource Filicency Policy 2014 electrical appliances and equipment*.	Implementation	LR.	Inspect	Essential	and Energy Minimum Standards (GMSs) will be at least the following: - dichwarthers—CAS - 3 tats; - GMS-3 tats; - diright/recens - 2.5 tats; tats; - dirig	, ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		NA .	statement		On track
Implementation ILR Inspect Essential	CSM-REQ-009607	Sustainability Requirements Rev 2.0	2.2, (g)	plant and equipment and a minimum 10% blended ethanol mix for all petrol	Technical Requirement	bio diesel mix for all diesel powered plant and equipment and a minimum 10% blended ethanol mix for all petrol powered plant and	Implementation	LR	Inspect	Essential	Renewable Energy Investigation - SMCSWCSM-DIV-NC-00-BBN-SU-000002 Carbon Management Plan Section 2.2 - SMCSWSMC-LDR-SMC-SU-PLN-0000002]	CLOSED	Compliant	Compliant		On track	On track

	1	1					r							1	1	1
CSM-REQ-009608	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0	2.2, (h)	The CSM Contractor must identify and implement opportunities for using onsite sources of renewable energy during the CSM Contractor's Activities.	System Requirement	The CSM Contractor must identify and implement opportunities for using onsite sources of renewable energy during the CSM					Renewable Energy Investigation - SMCSWCSM-DJV-NC-00-BRN-SU-000002	CLOSED	Compliant	Compliant	Close out with the Biannual report - Sept-21 to March-22 (Section 6.1)	On track	On track
	01/02/2018				Contractor's Activities.	Implementation	LR	Inspect	Essential							
CSM-REQ-009609	SWTC - Appendix B07 - Sustainability	2.2, (i)	The CSM Contractor must provide a photovoltaic (PV) system integrated within the reinstated or new canopies as part of the Project Works that:	Information						For information only	CLOSED	NA	NA	For information only	NA	NA
	Requirements Rev 2.0		the remainded of new companies part of the Froject World that.													
CSM-REQ-009610	01/02/2018 SWTC - Appendix B07 -	2.2, (i), (i)	The CSM Contractor must provide a photovoltaic (PV) system integrated within	Technical	produces a minimum 285 kW array peak					Revised Target	CLOSED	Compliant	Compliant	Final As-Built drawings to be provided	On track	On track
	Sustainability Requirements Rev 2.0		the reinstated or new canopies as part of the Project Works that: produces a minimum 285 kW array peak power output; and	Requirement	power output; and					- Contractual Notice SMCSWCSM-SMD-CSM-SMD-CN-000979 dated 06/08/2019 reduces the minimum array peak output to 285 kW						
	01/02/2018		produces a minimum 265 kw array peak power output, and							- 276 kWp rooftop array capable of generating 366.3 MWh/year as per SCC474: Fredon - Photovoltaic						
										System Concession Confirmation, Sydney Metro Contractual Change Notice of 6 August 2019 SMCSWCSM- SMD-CSMSMD-CN-000979.						
										Design Output						
										The Photovoltaic Design Appears SMCSWCSM-FRE-SV-00-REP-ED-000021 PV Solar Design – Schedule C1 Appendix B04a: Solar system design RFI solar design (24 July 2020)-						
										- Output is 276 kWpeak (p. 11) - Produced Energy 366.3 MWh/year (p. 70)						
						Design	SY	Review	Essential							
CSM-REQ-009611	SWTC - Appendix B07 - Sustainability	2.2, (i), (ii)	The CSM Contractor must provide a photovoltaic (PV) system integrated within the reinstated or new canonies as part of the Project Works that:	System Requirement	is connected to the Central Station LV distribution network constructed as part of the					As for requirement 2.2, (i), (i)	CLOSED	Compliant	Compliant	Final As-Built drawings to be provided	On track	On track
	Requirements Rev 2.0		is connected to the Central Station LV distribution network constructed as part of		Project Works.	no de la companya de										
CSM-REQ-009612	01/02/2018 SWTC - Appendix 807 -	2.2, (j)	the Project Works. The CSM Contractor must ensure all eligible PV rebate applications are submitted	Process	The CSM Contractor must ensure all eligible PV	Design	51	Review	Essential	SMCSWCSM-FRE-SV-00-REP-ED-000021 PV Solar Design – Schedule C1 Appendix B04a: Solar system	OPEN & ONGOING	On track	On track	Item is open until this item is included: NMI meter to be	On track	On track
	Sustainability Requirements Rev 2.0		on behalf of Sydney Trains, unless directed otherwise by Sydney Trains.	Requirement	rebate applications are submitted on behalf of Sydney Trains, unless directed otherwise by					design, Section 2.6.2.2 Export Control (p12) "The previously envisaged export control required as per SWTC was removed as per direction from Sydney Trains. To allow future flexibility the IMS8's will have				included here from Fredon/LOR. This enables ST to have rebates in the future.		
	01/02/2018				Sydney Trains.					spatial provision for future installation of CTs and power meter if the export control is required in the						
						Implementation	SY/LR	Inspect	Essential	future. This can be set up within the inverter to monitor current grid draw and will manage exporting requirements."						
CSM-REQ-009613	SWTC - Appendix B07 - Sustainability	2.2, (k)	The Metro Station must be designed to achieve a minimum 15% improvement over a reference station based on Section J minimum performance requirements	System	The Metro Station must be designed to achieve a minimum 15% improvement over a					Energy Modelling Report (SMCSWCSM-DJV-NC-00-REP-SU-000104) completed at stage 3 (comments to be addressed from Sydney Metro) models BCA Section J 18.3% improvement.	OPEN & ONGOING	Compliant	Compliant	Final report / confirmation of no change to design at As Built to confirm	On track	On track
	Requirements Rev 2.0		as defined by the National Construction Code Building Code of Australia (NCC	Kequirement	reference station based on Section J minimum					be addressed from Sydney weardy frodes BCA Section 3 18.5% improvement.				letter of confirmation from author/designer that this report		
	01/02/2018		BCA). The 15% design improvement and reference station must include all building related energy end uses (excluding process, communication and specialist		performance requirements as defined by the National Construction Code Building Code of									result is not impacted by the as built project		
			equipment energy loads).		Australia (NCC BCA). The 15% design improvement and reference station must											
					include all building related energy end uses											
					(excluding process, communication and specialist equipment energy loads).											
						Design	SY	Review	Essential							
CSM-REQ-009614	SWTC - Appendix B07 - Sustainability	2.2, (I)	Central Station Works and Central Wall: Works must be designed to achieve a minimum 15% improvement over a reference case based on Section J minimum	System Requirement	Central Station Works and Central Walk Works must be designed to achieve a minimum 15%					be addressed from Sydney Metro) models BCA Section J 38.6% improvement which is inclusive of 276	OPEN & ONGOING	Compliant	Compliant	Final report / confirmation of no change to design at As Built to confirm	On track	On track
	Requirements Rev 2.0 01/02/2018		performance requirements as defined by the National Construction Code Building Code of Australia (NCC BCA). The 15% design improvement and reference case		improvement over a reference case based on Section J minimum performance requirements					kWp rooftop array capable of generating 366.3 MWh/year.				letter of confirmation from author/designer that this report result is not impacted by the as built project		
	01/02/2018		must include all building related energy end uses (excluding process,		as defined by the National Construction Code									result is not impacted by the as built project		
			communication and specialist equipment energy loads).		Building Code of Australia (NCC BCA). The 15% design improvement and reference case must											
					include all building related energy end uses											
					(excluding process, communication and specialist equipment energy loads).											
						no de la companya de										
CSM-REQ-009615	SWTC - Appendix B07 -		2.3 Community benefit	Heading		Design	31	Review	ESSEIIGAI	Heading only	CLOSED	NA	NA	Heading only	NA	NA
	Sustainability Requirements Rev 2.0															
CSM-REQ-009616	01/02/2018 SWTC - Appendix 807 -	2.3. (a)	The CSM Contractor must ensure that metering and data collection equipment	*	The CSM Contractor must ensure that					Metro station does not have renewable energy	OPEN & ONGOING			The		
C2M-KEQ-009616	Sustainability	2.3, (a)	and systems are able to provide real-time information on the generation and	Requirement	metering and data collection equipment and					15 min interval metering that will go to the central control/operating system	OPEN & UNGUING			IBC		
	Requirements Rev 2.0 01/02/2018		consumption of renewable energy at the Metro Station, and interface with other Interface Contractor's public information display and communication systems.		systems are able to provide real-time information on the generation and					To confirm with Seb A						
	,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		consumption of renewable energy at the											
					Metro Station, and interface with other Interface Contractor's public information											
CSM-REQ-009617	SWTC - Appendix B07 -		2.4 Resource – water	Heading	display and communication systems.	Design	SY	Review	Essential	Heading only	CLOSED	NA	NA.	Heading only	NA	NA
CSW NEQ 003017	Sustainability		2.4 Negotice Water	ricading						Treating only	CLUSED	1		Treating only	160	
	Requirements Rev 2.0 01/02/2018															
CSM-REQ-009618	SWTC - Appendix B07 - Sustainability	2.4.1	Water efficiency	Heading						Heading only	CLOSED	NA	NA	Heading only	NA	NA
	Requirements Rev 2.0															
CSM-REQ-009619	01/02/2018 SWTC - Appendix B07 -	2.4.1, (a)	The CSM Contractor must minimise water demand management including total	Information						For information only	CLOSED	NA.	NA	For information only	NA	NA .
	Sustainability Requirements Rev 2.0		water consumption and potable water consumption during the construction phase													
	01/02/2018		oy:													
CSM-REQ-009620	SWTC - Appendix B07 - Sustainability	2.4.1, (a), (i)	The CSM Contractor must minimise water demand management including total water consumption and potable water consumption during the construction phase	Technical Requirement	using water efficient controls, fixtures and fittings:					Minimise water demand management including total water consumption and potable water consumption during the construction phase by:	OPEN & ONGOING	Compliant	Compliant	See Section 9 in the Sep-21 to March 22 Biannual Report for water usage graphs for this reporting period)	On track	On track
	Requirements Rev 2.0		by:	.,						- Water efficient controls, fixtures and fittings have been installed in the site offices to manage water						
	01/02/2018		using water efficient controls, fixtures and fittings;							usage from taps (4-6 star WELS), toilets (4 star WELS) and showers (3 star WELS), as well as water efficient dishwashers (3 stars) in all kitchens.						
										- Misting spray and fog cannons are used for dust suppression in the Metro Box						
										Rainwater is currently harvested from roof areas of the site facility Rainwater is currently used for ablutions at the site facilities(See Appendix E from Sep 2019 – Mar 2020)						
		1								Biannual Sustainability Report for High Performance Site Office Checklist)(See Section 9 in the Sep-21 to March 22 Biannual Report for water usage graphs for this reporting period)						
CCM REQ 000C24	SMEC Assessed Pol	2 4 1 (+) (ii)	The COM Controller and Ministry and American	Tochoical	harvesting rainwater wherever available;	Implementation	LR	Inspect	Essential		OBEN & ONCOUR	Complian:	Compliant	Con Continu O in the Con 21 to March 22 Disp.	On track	On track
CSM-REQ-009621	SWTC - Appendix B07 - Sustainability	2.4.1, (a), (ii)	The CSM Contractor must minimise water demand management including total water consumption and potable water consumption during the construction phase	Requirement	manyesung rainwater wherever available;					As for requirement 2.4.1, (a), (i)	OPEN & ONGOING	Compliant	compliant	See Section 9 in the Sep-21 to March 22 Biannual Report for water usage graphs for this reporting period)	On track	Oil track
	Requirements Rev 2.0 01/02/2018	1	by: harvesting rainwater wherever available;			Implementation	LR	Inspect	Essential							
CSM-REQ-009622	SWTC - Appendix B07 -	2.4.1, (a), (iii)	The CSM Contractor must minimise water demand management including total	Technical	using water from recycled water networks					As for requirement 2.4.1, (a), (i)	OPEN & ONGOING	Compliant	Compliant	See Section 9 in the Sep-21 to March 22 Biannual Report for	On track	On track
	Sustainability Requirements Rev 2.0	1	water consumption and potable water consumption during the construction phase by:	kequirement	where available; and									water usage graphs for this reporting period)		
CSM-REQ-009623	01/02/2018 SWTC - Appendix B07 -	2.4.1, (a), (iv)	using water from recycled water networks where available; and The CSM Contractor must minimise water demand management including total	Technical	collecting, treating and reusing stormwater	Implementation	LR	Inspect	Essential	As for requirement 2.4.1, (a), (i)	OPEN & ONGOING	Compliant	Compliant	See Section 9 in the Sep-21 to March 22 Biannual Report for	On track	On track
	Sustainability		water consumption and potable water consumption during the construction phase		and wastewater.					or requirement a.v.a, (d), (l)	a oncomo	Lompmant	- composite	water usage graphs for this reporting period)		
	Requirements Rev 2.0 01/02/2018	1	by: collecting, treating and reusing stormwater and wastewater.			Implementation	LR	Inspect	Essential							
CSM-REQ-009624	SWTC - Appendix B07 - Sustainability	2.4.1, (b)	For those activities where ISCA IS Ratings are required, the CSM Contractor must achieve or exceed the following ISCA IS Rating Scheme Version 1.2 credit	Information						For information only	CLOSED	NA	NA	For information only	NA	NA
	Requirements Rev 2.0	1	requirements:													
CSM-REQ-009625	01/02/2018 SWTC - Appendix B07 -	2.4.1, (b), (i)	For those activities where ISCA IS Ratings are required, the CSM Contractor must	Technical	Level 2 for credit Wat-1 'Water use monitoring			 	1	(see section 3.4 of The Sep-21 to March-22 BSR)	OPEN & ONGOING	On track	On track	Awaiting ISC verification	On track	On track
	Sustainability		achieve or exceed the following ISCA IS Rating Scheme Version 1.2 credit	Requirement	and reduction', demonstrating a reduction in					The Modelling and Credits submission for the WAT-1 credit and target has been completed by The Project Design Team (AGIV) and assessed by the project ISAP. The total reductions (construction and operation)						
	Requirements Rev 2.0 01/02/2018	1	requirements: Level 2 for credit Wat-1 'Water use monitoring and reduction', demonstrating a		water use of 10% compared to a base case footprint; and					are expected to be 82,365kL/year (16.1%) compared to the Base Case footprint. This credit was not						
	1	1	reduction in water use of 10% compared to a base case footprint; and					1		verified during the first Design Rating submission – comments made by the verifier has been address and will be submitted for the Round 2 in Quarter 2 of 2022					1	
	1	1				DesignImplementation	SY	ReviewInspect	Essential	And the same state of the same					1	

March Marc																	
The content of the	CSM-REQ-009626	Requirements Rev 2.0	2.4.1, (b), (ii)	achieve or exceed the following ISCA IS Rating Scheme Version 1.2 credit requirements: Level 1 for credit Wast-2 'Replace potable water', demonstrating that at least 33% of water used is from non-potable sources. If it is demonstrated by the Contractor, to the satisfaction of the Principal's Representative, that achieving Level 1 for credit Wast-2 is not economically valled, or requires the supply of water from		water used is from non-potable sources. If it is demonstrated by the Contractor, to the satisfaction of the Principal's Representative, that achieving Level 1 for credit Wat-2 is not economically viable, or requires the supply of water from outside the site boundary, then	Design/molementation	SY	Reviewinspect	Essential	2 credit and target has been completed by The Project Design Team (AGJV) and assessed by the project ISAP. The Project is working with the ISC case manager to refine the modelling completed in support of the target. This credit was not verified during the first Design Rating submission —comments made by the	OPEN & ONGOING	On track	On track	Awalting ISC verification	On track	On track
March Marc	CSM-REQ-009627	Sustainability Requirements Rev 2.0	2.4.1, (c)	water where on-site or local sources of non-potable water are suitable for the CSM		water as a substitute for non-potable water where on-site or local sources of non-potable water are suitable for the CSM Contractor's	Implementation	I.B.	Inspect	Essential	for toilet flushing and have investigated the use of water treatment plant recycled water. Water treatment plant water is not safe for misting and has the potentials to be used on haul roads, however due to the slow release of water it is not practical for filling a water cart and space is insufficient for a storage tank.	CLOSED	NA	NA	- CSM-REQ-009627 1 x 10,000I.1	Compliant	Compliant
Internal Part	CSM-REQ-009628	Sustainability Requirements Rev 2.0	2.4.1, (d)	(except for the new canopies over platforms 12/13 and platforms 14/15) drain to any existing and functioning Central Station rainwater harvesting tanks and		extended roofs and canopies (except for the new canopies over platforms 12/13 and platforms 14/15) drain to any existing and functioning Central Station rainwater harvesting tanks and associated recycled	Design	SY	Review	Essential		OPEN		Missing evidence a overdue	concourse canopy rainwater capture & add reference to	On track	On track
March Marc	CSM-REQ-009629	Sustainability Requirements Rev 2.0	2.4.1, (e)	The CSM Contractor must connect new toilets and irrigation systems to any existing and functional Central Station recycled water network.	System Requirement	and irrigation systems to any existing and functional Central Station recycled water	Design	SY	Beview	Essential	potable water sources for the Sydney Trains assets. Non-potable Cold Water (NPCW) is included in single	OPEN	Compliant	Compliant	SMCSWCSM-DJV-SV-20-DWG-BS-000231 As-Built drawing of similar	or On track	On track
March Control Contro		SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	2.4.1, (f)	is selected taking into account the water efficiency of the equipment and associated construction methodology.		The CSM Contractor must ensure that all construction equipment requiring water is selected taking into account the water efficiency of the equipment and associated	Implementation	LR	Inspect	Essential	The Contractor Sustainability Action Plan contains sections to inform suppliers/ contractors of this requirement and to capture water saving opportunities or water saving equipment.	OPEN	Compliant	Compliant	Provide sample evidence of action plans sent to subbles	On track	On track
Management Man	CSM-REQ-009631	Sustainability Requirements Rev 2.0	2.4.1, (g)	described in all construction method statements to be applied by the CSM		efficient construction methods are described in all construction method statements to be	Implementation	LR	Inspect	Essential		OPEN	On track	On track	Provide CMS template & examples for key activities	Missing evidence / overdue	Missing evidence / overdue
The control of the	CSM-REQ-009632	Sustainability Requirements Rev 2.0	2.4.1, (h)	For water used in onsite and offsite concrete batching plants which supply the CSM Contractor's Activities:	Information						For information only	CLOSED	NA	NA	For information only	NA	NA
Security of the control of the contr		SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018		the CSM Contractor's Activities: The CSM Contractor must ensure that 80% of offsite and onsite batching plant concrete production operation water is recycled and incorporated into concrete production: and	Requirement	80% of offsite and onsite batching plant concrete production operation water is recycled and incorporated into concrete production; and	Implementation	SY/LR	Inspect	Essential	Star Tool are within the scope of works for the concrete supplier. Site correspondence with Holcim (GCOR-LOR-00-00864) confirms water quality.(see Section 9 for concrete recycled water graph)			Compliant			On track
Securiously Security (Control of Control of		Sustainability Requirements Rev 2.0 01/02/2018		the CSM Contractor's Activities: Suspended solids content of recycled concrete production water must be controlled such that the water density is less than 1.01 g/mL and the suspended solids content does not exceed 15,000 ppm.	Technical Requirement	concrete production water must be controlled such that the water density is less than 1.01 g/mL and the suspended solids content does not exceed 15,000 ppm.	Implementation	SY/LR	Inspect	Essential	Star Tool are within the scope of works for the concrete supplier. Site correspondence with Holcim (GCOR+LOR-00-00864) confirms water quality (see Section 9 for concrete recycled water graph in the Biannual Report)	Ongoing		Compliant		or On track	On track
Section of the content of the cont	CSM-REQ-009635	Sustainability Requirements Rev 2.0	2.4.1, (h)	The CSM Contractor must pass requirements relating to concrete production operation water down through its supply chain.		relating to concrete production operation	Implementation	LR	Inspect	Essential	The standard Method statement template includes this requirement and the Contractor Sustainability Action Plan contains sections to capture water saving opportunities or water saving equipment.	OPEN	On track		Provide CMS template & examples for key activities	Missing evidence / overdue	Missing evidence / overdue
Automatically approached for going and contraction in minimal registery of companies and contraction in production	CSM-REQ-009636	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	2.4.2	Water sensitive urban design	Heading						Heading only	CLOSED	NA	NA	Heading only	NA	NA
Section of the programment and processes are processed as a processes of the processes of	CSM-REQ-009637	Sustainability Requirements Rev 2.0	2.4.2, (a)	The CSM Contractor must adopt an integrated approach to urban water cycle management during design and construction to minimise impacts on stormwater quality.		approach to urban water cycle management during design and construction to minimise	DesignImplementation	SY	ReviewInspect	Essential	See commentary for CSM-REQ-009642 through CSM-REQ-009647 and CSM-REQ-009702.For construction this is managed via the Groundwater management plan and the soil and water management plan and the soil and the soil and water management plan and the soil and the soil and the soil and the soil and water management plan and the soil and the soil an	OPEN & ONGOING	Compliant	Compliant	Please also refer to design reports for operational water management	On track	On track
SMEC Appends 807 - Surface Sprayed must achieve: a reduction in patients were demand through the use of raiseaster and/or profit water for format and the profit of the state of the profit of the profit of the profit of the state of the profit of the profi	CSM-REQ-009638	Sustainability Requirements Rev 2.0	2.4.2, (b)	The integrated approach must achieve:	Information						For information only	CLOSED	NA	NA	For information only	NA	NA
Sectionability a reduction in waterwater generation; Requirement Sever 3.2 District which includes Sydney Metro assets, evidence a 90.3% reduction in discharge to sever compared to 3.5 standard Practice Building Regarding catchinent areas (rainfall catchinent areas): to manage stomwater quantity discharge across the size and additionable of Requirements, Case Number 172457, on-size determininable terministed in the indicated in the design includes two notices formation table (1905) 10.501 is		SWTC-Appendix 807 - Sustainability Requirements Rev 2.0 03/02/2018		a reduction in potable water demand through the use of rainwater and/or greywater where restolated reuse is not available, and adopt the use of water efficient appliances and fittings;	Requirement	the use of naimeater and/or greywater where a reticulated reuse to available, an adopt the use of water efficient appliances and fotings;	Designinglementa 6 on	SY	Reviewinspect	Essential	requirements. - Adiabatic Rule Coolers (minimal water use compared to cooling towers) - Merco Box (MBI) W.C. and house taps will be connected to the recycled water supply / non potable cold - Monto Box (MBI) W.C. and house taps will be connected to the recycled water supply / non potable cold - Monton Concurse (GMC 2) W.C. and house taps connected to the recycled water supply (section 2.8. of the leydraulic Design Designer Statements WASCWCMCA) MV-VS-VO PRE-85 0000013 is recycled water plant - SMCCWCM-ADV-NS-VO Device 25 000231 shows recycled water plant - SMCCWCM-ADV-NS-VO Device 25 000231 shows recycled water plant - SMCCWCM-ADV-NS-VO Device 25 000231 shows recycled water plant - SMCCWCM-ADV-NS-VO CWC 0000313 is alread used on plant plant work (pMCSWCM-ADV-NS-VO) - SMCCWCM-ADV-NS-VO CWC 0000313 is alread used on plant plant work (pMCSWCM-ADV-NS-VO) - SMCCWCM-ADV-NS-VO CWC 0000313 is alread used on plant p				as built deavings / as built report / photos / confirmation of establishion		On track On track
situated under Platforms 12 and 13, in the Metro Concourse building and OSD-2 is located under Platform 14 to the south of the DST, (Section 3.1.7.4, SMCSWCSM-DIV-N-2-04-RF-EN-000007)	raw.uerf.ff/104640	Sustainability Requirements Rev 2.0	a. 4. L. (U), (U)			ar Newsdalani III wassewafer generation;					wastewate generation. Green Sar Calculator, which includes Sydney Metro assets, evidences a 90.3% reduction in discharge to sever compared to a Standard Practice Building. Regarding cutchment areas (similar (actionment areas): to manage stormwater quantity discharge across as in an sid address shiply fiver factoris or Requirements. (Can Member 17425), or not determined to been included in the design includes two On-side Stormwater Determined 1850(5) (050-14) storm of the Stormwater Determined 1850(5) (050-14).	STEP & UNGUING	Compilant	соправля		on usex	On GaCK

				1	1		,			T-	ır				1	
CSM-REQ-009641	SWTC - Appendix B07 - Sustainability	2.4.2, (b), (iii)	The integrated approach must achieve: stormwater quality targets which are suitable for either reuse or discharge into	Technical Requirement	stormwater quality targets which are suitable for either reuse or discharge into local streams						OPEN & ONGOING	Compliant	Compliant	as built drawings / as built report / photos / confirmation of installation	On track	On track
	Requirements Rev 2.0		local streams and waterways; and		and waterways; and					Setting Target: Metro Box (MB 7) Remaining Structures Stage 3 (Section 3.17 SMCSWCSM-DJV-NC-20-REP-						
	01/02/2018									EN-000007, Rev E, 16th Jan 2020) and Eastern Entrance (EE 1) Eastern Entrance Package 1 Design Report						
										stage 3 (Section 3.19 SMCSWCSM-DJV-NC-40-REP-EN-000001) detail the following: Sydney Water policy						
										specifies stormwater quality targets with the aim of improving the quality of stormwater runoff, reducing the impact of the development upon downstream creeks and waterways. Target reductions are compared						
										against the untreated site runoff from impervious areas. Design packages (Table 9 SMCSWCSM-DJV-NC-20						
										REP-EN-000007, Table 3-4 SMCSWCSM-DJV-NC-40-REP-EN-000001) include the targets which have been						
										set in relation to stormwater quality. The water quality modelling software MUSIC v6 was used to analyse						
										the performance of the treatment train. The model has been built to predict the adequacy of the						
										stormwater treatment measures proposed to meet the water quality objectives, prior to stormwater runoff leaving the site. For the analysis of the MUSIC modelling, historical rainfall records were obtained						
										from the Bureau of Meteorology Station No. 66037 SYDNEY. The MUSIC analysis was undertaken using a 6						
										minute time step for years 1996-2005.Treatment: Metro Box Catchment D, Ocean Protect Psorb 460						
										storm filters (12 units) installed in the OSD tank; 4 Ocean Guard Inserts. Metro Box Catchment						
										E, Ocean Protect Psorb 460storm filters (4 units) installed in the OSD tank; 1 Ocean Guard Inserts.						
										Eastern Entrance, 4 stormwater 360 Psorb storm filters (460mm) installed in the final downstream						
										pit- Suburban platforms, Enviropod 360 gross pollutant traps from Ocean Protect are to be installed at each drop pit at the northern and southern ends of the platforms Achievement: Metro Box: the						
										each drop pit at the northern and southern ends of the platforms Achievement: Metro Box: the total suspended solids as well as phosphorous and nitrogen will be reduced to meet and exceed						
										the requirements of development guidelines. See Table 10 and Table 11 for modelled						
										pollution percentage reduction for Catchments D and E respectively. Eastern Entrance: The proposed						
										treatment meets or exceeds the development guideline requirements for pollutant reduction of total						
										suspended solids, phosphorous, nitrogen and gross pollutants. See Table 3-5 for the MUSIC modelled						
						DesignImplementation	EN	ReviewInspect	Eccential	pollution load reduction achieved. Northern Concourse and Suburban Platforms TBC (SMCSWCSM-LOR- SMC-EN-REP-000112 & SMCSWCSM-LOR-SMC-EN-REP-000113)						
CSM-REQ-009642	SWTC - Appendix B07 -	2.4.2, (b), (iv)	The integrated approach must achieve:	Technical	a maximum use of stormwater in the urban	резідіннірененсичин	Liv	печеннарес	COSCIICIO	AND DEFINE GOVERN A SHELL SOUTH OF THE CONTROL OF T	OPEN & ONGOING	Compliant	Compliant	as built drawings / as built report / photos / confirmation of	On track	On track
1	Sustainability		a maximum use of stormwater in the urban landscape.	Requirement	landscape.							1	1	installation		
1	Requirements Rev 2.0 01/02/2018			1	1		1	1		New toilets and irrigations systems have been designed to connect to the existing recycled water network.	1	1				
		1		1	1		1	1	1	Investigation of operational water demand from the CSM and the existing recycled water network.	l	1	1	1	1	1 1
				1	1		1	1	1	indicated that the existing stormwater re-use systems have excess capacity relative to the demand any	1	1			1	
				1	1		1	1	1	new uses are likely to place on them under a range of rainfall scenarios. The Northern Concourse canopy	1	1			1	
		1		1	1		1	1	1	captures rainwater, the water is stored in pre-existing Sydney Trains tank for re-use in the station.	1		1	1	1	1 1
				1	1		1	1	1	This indicates maximal use of stormwater in operations to the extent achievable by Central Station Main	1	1			1	
				1	I			1	1	Works. There is limited opportunity for reuse within the urban landscape.	1				1	
1		1		1	1		1	1	1	As such the following areas discharge stormwater offsite:	1		1	1	1	1 1
				1	1		1	1	1	Metro Box water discharges to Devonshire Street Tunnel main drainage culvert (Section 3.17.3.1)	1	1			1	
1		1		1	1		1	1	1	SMCSWCSM-DJV-NC-20-REP-EN-000007)	1		1	1	1	1 1
										•Eastern Entrance roof water will be connected to City of Sydney Council stormwater pit recently						
										constructed as part of the Sydney light rail works (Section 3.19.2 SMCSWCSM-DJV-NC-40-REP-EN-000001)						
										•Suburban platform; canopies and platforms discharge to Elizabeth Street and Devonshire tunnel trunk						
										drainage lines via track drainage and new drainage system (Section 2.8.7.3 & 2.8.7.3.5 SMCSWCSM-DJV- NC-30-REP-EN-000005)						
										Subsurface Water for Eastern Entrance and Ghost platforms will be discharges using an existing drainage						
										system (Section 3.19.5 SMCSWCSM-DJV-NC-40-REP-EN-000001)						
										 Subsurface water for suburban platforms discharges to Metro Box subsurface drainage system and 						
										eventually discharges to the Sydney Metro Sydenham Water Treatment Plant (Section 2.8.8 SMCSWCSM-						
CSM-REQ-009643	SWTC - Appendix B07 -	2.4.2, (c)	The CSM Contractor must demonstrate in the Design Documentation how it will	Process	The CSM Contractor must demonstrate in the	DesignImplementation	SY	ReviewInspect	Essential	DJV-NC-30-REP-EN-000005) See Appendix B07 Sustainability Requirements 2.4.2. (b). (iii) response above. Suburban platforms:	OPEN & ONGOING	0F	0 F		0	On track
CSM-KEQ-009643	Sustainability	2.4.2, (c)	achieve a reduction in urban stormwater pollutants in accordance with Table 1.	Requirement	Design Documentation how it will achieve a					Enviropod 360 gross pollutant traps from Ocean Protect are to be installed at each drop pit at the	OPEN & UNGUING	Compliant	Compliant	as built drawings / as built report / photos / confirmation of installation ?	On track	On track
	Requirements Rev 2.0				reduction in urban stormwater pollutants in					northern and southern ends of the platforms. These pollutant traps will retain litter and sediments with						
	01/02/2018				accordance with Table 1.					particle sizes of 0.125mm or greater for flows up to 50% of the 1 year ARI peak flow in accordance with						
										the SWTC requirement B07 S2.4.2(c) in the operational stage. As the platforms are not areas with						
										concentrated hydrocarbon deposition, no treatment devices have been provided to remove oil and						
						Design	EN	Davieur	Eccential	grease. (Section 2.8.7.3.6 SMCSWCSM-DJV-NC-30-REP-EN-000005)						
CSM-REQ-009644	SWTC - Appendix B07 -	2.4.2, (c), Table 1	Table 1 - Urban stormwater pollutants	Heading		Design	2.13	neview.	Lagential	Heading only	CLOSED	NA	NA	Heading only	NA	NA
	Sustainability Requirements Rev 2.0															
	01/02/2018															
CSM-REQ-009645	SWTC - Appendix B07 -	2.4.2, (c), Table 1	Table 1 - Urban stormwater pollutants	Technical	Pollutant: Litter					Same as for requirement 2.4.2, (c)	OPEN & ONGOING	Compliant	Compliant	as built drawings / as built report / photos / confirmation of	On track	On track
	Sustainability Requirements Rev 2.0		Pollutant: Litter Requirement: Retention of litter greater than 50mm for flows up to 50% of the 1	Requirement	Requirement: Retention of litter greater than 50mm for flows up to 50% of the 1 year ARI									installation ?		
	01/02/2018		year ARI peak flow.		peak flow.	DesignImplementation	FN	ReviewInspect	Essential							
CSM-REQ-009646	SWTC - Appendix B07 -	2.4.2, (c), Table 1	Table 1 - Urban stormwater pollutants	Technical	Pollutant: Coarse Sediment	Designinipieneneauon	Lis	неменноресс	Lascinos	Same as for requirement 2.4.2, (c)	OPEN & ONGOING	Compliant	Compliant	as built drawings / as built report / photos / confirmation of	On track	On track
	Sustainability		Pollutant: Coarse Sediment	Requirement	Requirement: Retention of sediment coarser									installation ?		
1	Requirements Rev 2.0		Requirement: Retention of sediment coarser than 0.125mm for flows up to 50%	1	than 0.125mm for flows up to 50% of the 1		1	1	1		1	1			1	
CSM-REQ-009647	01/02/2018 SWTC - Appendix B07 -	2.4.2, (c), Table 1	of the 1 year ARI peak flow. Table 1 - Urban stormwater pollutants	Technical	year ARI peak flow. Pollutant: Oil and Grease	DesignImplementation	EN	ReviewInspect	Essential	Same as for requirement 2.4.2, (c)	OPEN & ONGOING	Compliant	Compliant	as built devides for built as a finite server for the	On track	On track
C3M-KEQ-009647	SWTC - Appendix B07 - Sustainability	z.4.z, (c), Table 1	Table 1 - Urban stormwater pollutants Pollutant: Oil and Grease	Requirement	Pollutant: Oil and Grease Requirement: In areas with concentrated			1	1	Same as for requirement 2.4.2, (C)	UPEN & UNGUING	compliant	compliant	as built drawings / as built report / photos / confirmation of installation ?	On track	On track
	Requirements Rev 2.0		Requirement: In areas with concentrated hydrocarbon deposition, no visible oils	qui cincit	hydrocarbon deposition, no visible oils for			1	1		1				1	
	01/02/2018		for flows up to 50% of the 1 year ARI peak flow.	1	flows up to 50% of the 1 year ARI peak flow.		EN.				1	1				
CSM-REQ-009648	SWTC - Appendix B07 -	2.4.3	Water monitoring and Information Systems	Heading	+	vesignImplementation	EN	ReviewInspect	Essential	Heading only	CLOSED	NA	NA	Heading only	NA.	NA.
	Sustainability										1	1"	1		1	
	Requirements Rev 2.0										1				1	
CSM-REQ-009649	01/02/2018 SWTC - Appendix B07 -	2.4.3, (a)	The CSM Contractor must meter water supply from recycled water networks and	Technical	The CSM Contractor must meter water supply		-	1	_	Refer to MR-Sy 6.1.,	OPEN & ONGOING	N/A	NA.	CSM-REQ-009649 Photos of water meter reads 2.4.3,(a)	On track	On track
C3M-KEQ-009649	SWTC - Appendix B07 - Sustainability	2.4.5, (8)	The CSM Contractor must meter water supply from recycled water networks and potable sources for the CSM Contractor's Activities.	Technical Requirement	from recycled water networks and potable			1	1	Refer to MR-Sy 6.1., Metering is in place on site for construction water (potable and non-potable) drawn from mains supply	UPEN & UNGUING	nsA.	NA.	CSM-REQ-009649 Photos of water meter reads 2.4.3,(a) These photos are captured in the project water register -	On track	On track
1	Requirements Rev 2.0	1	personal control of the control of t	qui cincit	sources for the CSM Contractor's Activities.		1	1	1	and rainwater tanks.	1		1	20220331 Water Summary - LIVE	1	1 1
<u></u>	01/02/2018		<u> </u>		- Control - Cont	Implementation	LR	Inspect	Essential	(See Section 9 for water consumption graphs in the BSR)				,		
CSM-REQ-009650	SWTC - Appendix B07 -	2.	Resource – waste and materials	Heading	1					Heading only	CLOSED	NA	NA	Heading only	NA	NA
1	Sustainability			1	1		1	1	1		1	1	1		1	
1	Requirements Rev 2.0 01/02/2018			1	1		1	1	1		1	1	1		1	
CSM-REQ-009651	01/02/2018 SWTC - Appendix 807 -	2.5.1	Waste	Heading	1		1		1	Heading only	CLOSED	NA	NA	Heading only	NA	NA.
1	Sustainability			1 1	1		1	1	1		1	1	1		1	
		1									1				1	
1	Requirements Rev 2.0			Technical	The CSM Contractor must ensure that at least		+	+	+	Waste is being reported on in the quarterly data reports	OPEN & ONGOING	NA	NA .	In the Sep-21 to March 22 Biannual Report: dashboard -	On track	On track
CSM-REQ-009652	Requirements Rev 2.0 01/02/2018	2.5.1. (a)	The CSM Contractor must ensure that at least 95% of inert and non-barrardour		95% of inert and non-hazardous construction		1	1	1	Bemolition and construction waste is tracking at more than 95% recycled		1	1	Appendix E:		
CSM-REQ-009652	Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 - Sustainability	2.5.1, (a)	The CSM Contractor must ensure that at least 95% of inert and non-hazardous construction and demolition waste, excluding spoil, and at least 60% of office	Requirement		I	1		1	 Office waste is tracking at more than 30% recycled (see section 7.4 of the BSR) 	1			Í.	1	1
CSM-REQ-009652	Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	2.5.1, (a)	construction and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively	Requirement	and demolition waste, excluding spoil, and at					(see Appendix E for monthly dashboard waste graph in the BSR)						
CSM-REQ-009652	Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 - Sustainability	2.5.1, (a)	construction and demolition waste, excluding spoil, and at least 60% of office	Requirement	and demolition waste, excluding spoil, and at least 60% of office waste generated during the					(see Appendix E for monthly dashboard waste graph in the BSK)						
CSM-REQ-009652	Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	2.5.1, (a)	construction and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively	Requirement	and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or					(see Appendix E for monthly dashboard waste graph in the BSK)						
CSM-REQ-009652	Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	2.5.1, (a)	construction and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively	Requirement	and demolition waste, excluding spoil, and at least 60% of office waste generated during the	Implementation	10	Inmert	Erranial	(see Appendix E for monthly dashooard waste graph in the Box)						
	Requirements Rev 2.0 01/02/2018 SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018		construction and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively beneficially reused.	Requirement	and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or	Implementation	LR	Inspect	Essential	(see Appendix E for monthly dashlosara waste graph in the bak) This requirement is addressed in the Waste Management Plan	OPEN & ONGOING	NA NA	NA NA	action: add section where this is included in management	On track	On track
CSM-REQ-009652 CSM-REQ-009653	Requirements Rev 2.0 01/02/2018 SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018 SWTC - Appendix 807 - Sustainability	2.5.1, (a) 2.5.1, (b)	construction and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively beneficially reused. The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and The CSM Contr	Requirement Technical Requirement	and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively beneficially reused. The CSM Contractor must identify and implement opportunities for recycling and	Implementation	LR	Inspect	Essential		OPEN & ONGOING	NA	NA NA	action: add section where this is included in management plans. Include spoil register/ initiatives references from	On track	On track
	Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 SwTC - Appendix B07 - Sustainability Requirements Rev 2.0		construction and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively beneficially reused.		and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively beneficially reused. The CSM Contractor must identify and implement opportunities for recycling and reuse of non-putrescible general solid wastes	Implementation	LR	Inspect	Essential		OPEN & ONGOING	NA.	NA NA	plans. Include spoil register/ initiatives references from biannual report / waste audit results	On track	On track
	Requirements Rev 2.0 01/02/2018 SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018 SWTC - Appendix 807 - Sustainability		construction and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively beneficially reused. The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and The CSM Contr		and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively beneficially reused. The CSM Contractor must identify and implement opportunities for recycling and reuse of non-putrescible general solid wastes (other than contraction and demolition waste	Implementation	LR	Inspect	Essential		OPEN & ONGOING	NA.	NA NA	plans. Include spoil register/ initiatives references from biannual report / waste audit results 17.2 of CEMF	On track	On track
	Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 SwTC - Appendix B07 - Sustainability Requirements Rev 2.0		construction and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively beneficially reused. The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and The CSM Contr		and demolition waste, excluding spoil, and at least 50% of office waste generated during the CSM Contractor's Activities is recycled or alternatively beneficially reused. The CSM Contractor must identify and implement opportunities for recycling and reused of non-pursessible general solid wastes (other than construction and demolition waste and office wasted during the CSM Contractor's	Implementation	LR	Inspect	Essential		OPEN & ONGOING	NA.	NA	plans. Include spoil register/ initiatives references from biannual report / waste audit results 17.2 of CEMF Section 4.3 for waste classification	On track	On track
	Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 SwTC - Appendix B07 - Sustainability Requirements Rev 2.0		construction and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively beneficially reused. The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and The CSM Contr		and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively beneficially reused. The CSM Contractor must identify and implement opportunities for recycling and reuse of non-putrescible general solid wastes (other than contraction and demolition waste	Implementation	LR	Inspect	Essential		OPEN & ONGOING	NA.	NA.	plans. Include spoil register/ initiatives references from biannual report / waste audit results 17.2 of CEMF Section 4.3 for waste classification Section 2.4 for key responsibilities	On track	On track
	Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 SwTC - Appendix B07 - Sustainability Requirements Rev 2.0		construction and demolition waste, excluding spoil, and at least 60% of office waste generated during the CSM Contractor's Activities is recycled or alternatively beneficially reused. The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and implement opportunities for recycling and The CSM Contractor must identify and The CSM Contr		and demolition waste, excluding spoil, and at least 50% of office waste generated during the CSM Contractor's Activities is recycled or alternatively beneficially reused. The CSM Contractor must identify and implement opportunities for recycling and reused of non-pursessible general solid wastes (other than construction and demolition waste and office wasted during the CSM Contractor's	Implementation	LR	Inspect	Essential		OPEN & ONGOING	NA.	NA NA	plans. Include spoil register/ initiatives references from biannual report / waste audit results 17.2 of CEMF Section 4.3 for waste classification	On track	On track

CSM-REQ-009654	SWTC - Appendix B07 - Sustainability	2.5.1, (c)	The CSM Contractor must negotiate and implement packaging take-back arrangements with suppliers.	Technical Requirement	The CSM Contractor must negotiate and implement packaging take-back arrangements					To date, much of the procurement has been steel, concrete and services, packaging takeback schemes wil	OPEN & ONGOING	NA.	NA	None implemented	On track	On track
	Requirements Rev 2.0 01/02/2018				with suppliers.					be particularly relevant with much of the fit-out procurement packages.						
										This has been included as a requirement within the contractor action plan and sub-contractors are made						
										aware of the requirement during the sub-contractor on boarding phase to allow for the negotiation of opportunities for take back e.g. precast panels are protected by timber, the timber remains on the truck						
CSM-REQ-009655	SWTC - Appendix B07 -	2.5.1, (d)	The CSM Contractor must use compostable or reusable temporary erosion control	Technical	The CSM Contractor must use compostable or	Implementation	LR	Inspect	Essential	and is not placed on site. Steel stillages can be part of a packaging take back scheme or recycled. This requirement is addressed within the soil and water management plan.	OPEN & ONGOING	NA	NA	CSM-REQ-009655 reusable temporary erosion control	On track	On track
	Sustainability Requirements Rev 2.0		devices where practicable.	Requirement	reusable temporary erosion control devices where practicable.									IMG_0511		
	01/02/2018				· ·	Implementation	LR	Inspect	Essential							
CSM-REQ-009656	SWTC - Appendix B07 - Sustainability	2.5.1, (e)	The CSM Contractor must provide recycling facilities within the Site where practicable.	System Requirement	The CSM Contractor must provide recycling facilities within the Site where practicable.					Recycling facilities have been established at the site. Paper and cardboard and co-mingled bins have been provided around the site.	OPEN & ONGOING	NA	NA	CSM-REQ-009656 - 2022.03.31 Steel skip CSM-REQ-009656 - 2022.03.31 Return and earn	Compliant	Compliant
	Requirements Rev 2.0 01/02/2018									Return and earn scheme has also been implemented that targets cans and bottles Site skips designated only for steel is also provided in the yard area of the project				CSM-REQ-009656 - 2022.05.13 P&C CSM-REQ-009656 - 2022.05.13 Comingled		
CSM-REQ-009657	SWTC - Appendix B07 -	25440		Information		Implementation	LR	Inspect	Essential	For information only	CLOSED			CSM-REQ-009656 - 2022.05.13 Steel skip For information only		
CSM-REQ-009657	Sustainability	2.5.1, (f)	The CSM Contractor must include the following waste management measures in the development of the Design Documentation:	Information						For information only	CLUSED	NA	NA	For information only	NA	NA
	Requirements Rev 2.0 01/02/2018															
CSM-REQ-009658	SWTC - Appendix B07 - Sustainability	2.5.1, (f), (i)	The CSM Contractor must include the following waste management measures in the development of the Design Documentation:	Technical	co-mingled recycling bins adjacent to all general waste bins within all areas accessible					unit:	OPEN & ONGOING	Compliant	Compliant	provide as built drawings / photos / confirmation no change in design at as built?	On track	On track
	Requirements Rev 2.0		co-mingled recycling bins adjacent to all general waste bins within all areas	Kequirement	by customers and in BOH Areas;					SMCSWCSM-WBA-BD-20-DWG-AT-322001 SMCSWCSM-WBA-BD-20-DWG-AT-322002				in design at as built?		
	01/02/2018		accessible by customers and in BOH Areas;							SMCSWCSM-WBA-BD-20-DWG-AT-322003						
										SMCSWCSM-WBA-BD-20-DWG-AT-322004 SMCSWCSM-WBA-BD-20-DWG-AT-322005						
										Metro Box Package 11 - Both recycling and general waste bins provided in FOH areas of station in a single unit-						
										SMCSWCSM-WBA-BD-20-DWG-AT-326001 SMCSWCSM-WBA-BD-20-DWG-AT-326002						
										SMCSWCSM-WBA-BD-20-DWG-AT-326003						
										Metro Box Package 12 - Both recycling and general waste bins provided in FOH areas of station in a single unit-						
										SMCSWCSM-WBA-BD-20-DWG-AT-329041 SMCSWCSM-WBA-BD-20-DWG-AT-329042						
										SMCSWCSM-WBA-BD-20-DWG-AT-329043						
										SMCSWCSM-WBA-BD-20-DWG-AT-329044 SMCSWCSM-WBA-BD-20-DWG-AT-329045						
										Central Walk Package 5 - Both recycling and general waste bins provided in FOH areas of station in a single	•					
										unit: SMCSWCSM-WBA-BD-30-DWG-AT-316020						
										SMCSWCSM-WBA-BD-30-DWG-AT-316021 SMCSWCSM-WBA-BD-30-DWG-AT-318020						
										SMCSWCSM-WBA-BD-30-DWG-AT-318021						
						Design		Review		SMCSWCSM-WBA-BD-30-DWG-AT-318022 SMCSWCSM-WBA-BD-30-DWG-AT-318023						
CSM-REQ-009659	SWTC - Appendix B07 -	2.5.1. (f). (iii)	The CSM Contractor must include the following waste management measures in	Technical	separate bins for storage of specialist waste	Implementation	EN	Inspect	Essential	SMCSWCSM-WBA-BD-30-DWG-AT-318024 BOH waste bins, similar to furnishings, are not provided by project. Refer to Appendix B07 - Sustainability	CLOSED	Compliant	Compliant	TRO	NA	NA.
CSW NEQ 003033	Sustainability	2.3.2, (1), (11)	the development of the Design Documentation:	Requirement	streams, including oil, electrical and electronic					Requirements 2.5.1, (f), (iii). for storage space allowance.	CLOSED	Compilant	Compilant			
	Requirements Rev 2.0 01/02/2018		separate bins for storage of specialist waste streams, including oil, electrical and electronic waste, and equipment waste; and		waste, and equipment waste; and	Implementation	EN	Inspect	Essential							
CSM-REQ-009660	SWTC - Appendix B07 - Sustainability	2.5.1, (f), (iii)	The CSM Contractor must include the following waste management measures in the development of the Design Documentation:	Technical Requirement	sufficient on-site storage space for the safe storage of recyclable waste and general waste					2 back of house bin rooms are provided.	CLOSED	Compliant	Compliant	CSM-REQ-009656 - 2022.03.31 Steel skip CSM-REQ-009656 - 2022.03.31 Return and earn	NA	NA
	Requirements Rev 2.0		sufficient on-site storage space for the safe storage of recyclable waste and	nequienene	prior to collection for treatment and disposal.					•Bin Room ESR-33 is located in the ESR Back of House area (SMCSWCSM-DJV-BD-50-DWG-AT-116021), at				CSM-REQ-009656 - 2022.05.13 P&C		
	01/02/2018		general waste prior to collection for treatment and disposal.							time of contract award the room schedule required a minimum Sm2 room (Appendix F02 Room Schedule). The internal space is over 9m2 (SMCSWCSM-DJV-BD-S0-DWG-AT-456010).				CSM-REQ-009656 - 2022.05.13 Comingled CSM-REQ-009656 - 2022.05.13 Steel skip		
										•Bin Room 1004B is located in the Metro Station Back of House area on the North South Concourse Level (SMCSWCSM-DJV-BD-20-DWG-AT-116004), at time of contract award the room schedule required a						
										minimum 5m2 room (Appendix F01 Room Schedule). The internal space is over 5m2 (SMCSWCSM-DJV-BD)-					
CSM-REQ-009661		2.5.2	Materials	Heading		Implementation	EN	Inspect	Essential	20-DWG-AT-000010). Heading only	CLOSED	NA	NA	Heading only	NA	NA .
	Sustainability Requirements Rev 2.0															
COM DEC 00000	01/02/2018 SWTC - Appendix B07 -	2.5.2, (a)	Materials used by the CSM Contractor for the CSM Contractor's Activities	Technical	Materials used by the CSM Contractor for					The requirement is currently delivered through the Materials Management Plan and architectural	OPEN & ONGOING	Compliant	Compliant		On track	On track
CSW-REQ-009002	Sustainability	2.5.2, (a)	must comply with the requirements set out in the MR Sy.	Requirement	the CSM Contractor's Activities must					specifications. The requirements are discussed during sub-contractor on boarding process and	OPEN & ONGOING	Compliant	Compliant		On track	On track
	Requirements Rev 2.0 01/02/2018				comply with the requirements set out in the MR Sy.					completion of the Sub-contractor sustainability action plan. Laing O'Rourke have also built the requirements into the inspection and test plan process.						
										The stage 3 Materials Impact Report (SMCSWCSM-DJV-NC-00-REP-SU-000018) addresses the LCA requirements of MR-Sy.						
										All requirements pertaining to materials use is covered under sections 6.2 of the Management						
CSM-RFQ-009663	SWTC - Appendix B07 -	252 (b)	The CSM Contractor must undertake life-cycle assessments in	Process	The CSM Contractor must undertake life-	DesignImplementation	SY/LR	ReviewInspect	Essential	Requirements – Sustainability – Central Station Main Works contract. The Materials Impact Report Design Stage 3 (SMCSWCSM-DJV-NC-00-REP-SU-000018) was issued during.	CLOSED	Compliant	Compliant	??	NΔ	NA.
	Sustainability Requirements Rev 2.0		accordance with the requirements of MR Sy, and must use the results of the assessments to inform the selection and use of materials during	Requirement	cycle assessments in accordance with the requirements of MR Sv. and must use					the period as part of Design Pack 1110 – Sustainability Works. This report details Life cycle assessments carried out and how these have been used to inform materials selection during design.						
	01/02/2018		design and construction.		the results of the assessments to inform the selection and use of materials during					See section 7.1 of the Sept-21 to March-22 BSR						
					design and construction.											
CSM-REQ-009664	SWTC - Appendix B07 -	2.5.2, (c)	For those activities where ISCA IS Ratings are required, The CSM Contractor must	Information	+	Design	SY	Review	Essential	For information only	CLOSED	NA.	NA	For information only	NA	NA NA
	Sustainability Requirements Rev 2.0		achieve or exceed the following ISCA IS Rating Scheme Version 1.2 credit requirements:													
	01/02/2018											1			1	
CSM-REQ-009665	SWTC - Appendix B07 - Sustainability	2.5.2, (c), (i)	For those activities where ISCA IS Ratings are required, The CSM Contractor must achieve or exceed the following ISCA IS Rating Scheme Version 1.2 credit	Conditional Requirement	Level 2 for credit Mat-1 'Materials footprint measurement and reduction', demonstrating a						OPEN & ONGOING	On track	On track	Awaiting ISC verification	On track	On track
	Requirements Rev 2.0 01/02/2018		requirements: Level 2 for credit Mat-1 'Materials footprint measurement and reduction',		20% reduction in materials lifecycle impacts compared to a base case footprint.					MAT-1 materials calculator has been completed and the credit summary form has been reviewed by the project ISAP, and pending verification by ISC the project expects to the achieve 20% reduction target.						
	02/02/2010		demonstrating a 20% reduction in materials lifecycle impacts compared to a base		companied to a base case rootprint.					This credit was not verified during the first Design Rating submission – comments made by the verifier has	s				1	
			case footprint.							been address and will be submitted for the Round 2 in Quarter 2 of 2022. The As-Built update for this credit will utilise the Digital Engineering model to extract the materials used						
						Derign	sv	Paview	Ecrantical	on the project as per the Guiding note - SMCSMCSM-LOR-SMC-TW-MAN-000001. See section 3.3 of the Sept-21 to March-22 BSR						
CSM-REQ-009666	SWTC - Appendix B07 -	2.5.2, (d)	The CSM Contractor must use recycled and recyclable materials where	Technical	The CSM Contractor must use recycled	Design	31	neview	essential	Multiple initiatives relating to materials use and waste minimisation have been identified and	OPEN & ONGOING	Compliant	Compliant	- CSM-REQ-009666 speedpanel page 2	Compliant	Compliant
	Sustainability Requirements Rev 2.0		possible, without compromise to the structural integrity, longevity and visual quality of materials and structures.	Requirement	and recyclable materials where possible, without compromise to the structural					documented. In addition, the use of recycled materials such as supplementary cementitious materials and recycled stee				- CSM-REQ-009666 Steel recycling IB-Reinforcing_2022 - pag 13&14	2	
	01/02/2018				integrity, longevity and visual quality of materials and structures.					have been described extensively in individual design reports				- Appendix E in the Sept-21 to March-22 BSR (might change		
										•Appendix E (Monthly Dashboard in the Sept-21 to March-22 BSR) Concrete graph shows that recycled content within concrete is just above 51% across all mixes poured on site.				between BSRs)		
						DesignImplementation	SY/LR	ReviewInspect	Essential	Speedpanel is made from 29.5% recycled materials Reinforcing steel includes recycled steel content.					1	
CSM-REQ-009667	SWTC - Appendix B07 -	2.5.2, (e)	The CSM Contractor must use reusable formwork where practicable.	Technical	The CSM Contractor must use reusable		,		-3301000	Reusable, PEFC and FSC certified timber has been specified for formwork – Each timber formwork board	OPEN & ONGOING	Compliant	Compliant	Include section in biannual report & include some evidence	On track	On track
	Sustainability Requirements Rev 2.0			Requirement	formwork where practicable.					can be reused either onsite or offsite. This is being tracked in a register utilising the monthly sub- contractor reports data.				certificates. Show to PL/JS the evidence we have on file for them to note + photos where available	1	
	01/02/2018					Implementation	IR.	Inspect	Essential					Section 8.12 in March-22 to Sept-22 BSR	1	
CSM-REQ-009668	SWTC - Appendix B07 -	2.5.3	Volatile Organic Compounds	Heading		- Personal P			-3301000	Heading only	CLOSED	NA	NA	Heading only	NA	NA
	Sustainability Requirements Rev 2.0														1	
L	01/02/2018			1	1	l	L	1	1		1	1		1	1	

	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2.5.3, (a)	The CSM Contractor must use low Volatile Organic Compounds (VOC) prints, flinishes, sealants and adhesives and zero or low found-leying emission composite wood products (as defined in the Green Star Design and As Bull Raling Tool) in the CSM Contractor's Activities.	Technical Requirement	The CSM Contractor must use low Volatile Organic Compounds (VOC) paints, finishes, sealants and adhesives and zero or low formadishyle emission composite wood products (as defined in the Green Star Design and As Built Rating Tool) in the CSM Contractor's Activities.	Parindental	CV.(10	Barindanan	Foundate	The requirement is currently delivered through the Materials Management Fau. The requirement is carriedly delivered through the Materials Management Fau. provide materials consistent with the requirement. The requirement is immorprated into Secretations and reflected in the Materials & Finishes schedule the requirement is immorprated into Secretations and reflected in the Materials & Finishes schedule contracts including confirmation letters and have included requirements into the important and contracts including confirmation letters and have included requirements into the important and test plan process. This is being tracked in a register utilizing the monthly sub-contractor reports data.	OPEN & ONGOING	Compliant	Compliant	Evidence for as built can be GS verified score for GS areas & inspections and corrective action processes for Project wide dose out - agreed michol (FB from quality) (FB from quality) (FB from quality) (FB from a from the from t	On track	On traci
	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2.5.3, (b)	All suface coalings used by the CSM Contractor must comply with the Australian Paint Approvid Scheme (PAS) Votatile Caganic Compounds Limits where fit for purpose (to be agreed with TRNSW).	Technical Requirement	All surface coatings used by the CSM Contractor must comply with the Contractor must comply with the Austratian Plant Approx Scheme (APAS) violatile Organic Compounds Limited to for purpose (to be agreed with TRISW).	Designimplementation	SY/IR	Reviewinspect	Essential	All surface coatings used by the CSM Contractor must comply with the Australian Paint Approval Scheme (AMS) Volable Organic Compounds Limits where fit for purpose (to be agreed with TROW) like requirement is currently delivered through the Materials Management Pain. And the Compounds of the Compounds of the Materials Management Pain. The requirement is incorporated into Specifications and reflected in the Materials & Privates schedule or Octors out the specific requirements. Only have developed previously requirements with the property of the Code out the Specific requirements (and the suppler contracts including confirmation letters and have included requirements into the impaction and test plan. This is being texted on a register stillars for monthly sub-contract regists data.	OPEN & ONGOING	Compliant	Compliant	Evidence for as built can be GS verified score for GS areas. & respections and corrective action processes for Project wide done not: agreed many processes for Project wide done not: agreed many project wide for the CS area of the CS area of the CS area of the MCS area of the CS area of the contractors product use project wide and as a many project wide and the contractors and have a letter "SM have agained this contractors and the contractors of the contractors of the contractors and the contractors of the contractors of the contractors of the contractors of the contractors of the contractors of the contractors of the contractors of the contractors of contractors	On track	On trac
	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2.5.3, (c)	All paint products must comply with the following table for maximum Total Volatile Organic Compounds (TVOC).	Technical Requirement	All paint products must comply with the following table for maximum Total Volatile Organic Compounds (TVOC).					The requirement is currently delivered through the Materials Management Plan. The requirement is also included within procurement documentation to ensure that suppliers of materials provide materials consistent with the requirement. The requirement is incorporated in sis Sections and reflected in the Materials & Freinhess schedule to do do not the specific regiment of CMD that developed report requirements included in supplier to do not the specific regiments CMD have developed report requirements included in supplier and the specific regiments in the through comments in the through continuous transition and test plan opposition.	OPEN & ONGOING	Compliant	Compliant	Evidence for as built can be GS verified score for GS areas & inspections and corrective action processes for Project wide close out - agreed method ITPs from quality NCRs Show consistency of subcontractors product use project wide and oa showcase and have a letter "SM have sighted this	On track	On tra
CSM-REQ-009672	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2.5.3, (c), Table	Product Type/Sub Category: Walls and ceilings – Interior semi gloss Max TVOC content (g/l of ready-to-use product): 16	Technical Requirement	Product Type/Sub Category: Walls and ceilings – interior semi gloss Max TVOC content (gil of ready-to-use product): 16	DesignImplementation	SY/LR	ReviewInspect	Essential	This is being tracked in a register utilising the monthly sub-contractor reports data. As for requirement 2.5.3c - CSM-REQ-009671	OPEN & ONGOING	Compliant	Compliant	evidence" As for requirement 2.5.3c - CSM-REQ-009671	On track	On tra
M-REQ-009673	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2.5.3, (c), Table	Product Type/Sub Category: Walls and ceilings – interior low sheen Max TVOC content (g/l of ready-to-use product): 16	Technical Requirement	Product Type/Sub Category: Walls and ceilings – interior low sheen Max TVOC content (g/l of ready-to-use product): 16	DesignImplementation DesignImplementation	5Y/18	Reviewbract	Errential	As for requirement 2.5.3c - CSM-REQ-009671	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3c - CSM-REQ-009671	On track	On tr
	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2.5.3, (c), Table	Product Type/Sub Category: Walls and ceilings – interior flat washable Max TVOC content (g/l of ready-to-use product): 16	Technical Requirement	Product Type/Sub Category: Walls and ceilings – interior flat washable Max TVOC content (g/l of ready-to-use product): 16	Designimplementation	SV/18	Reviewinspect	Errential	As for requirement 2.5.3c - CSM-REQ-009671	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3c - CSM-REQ-009671	On track	On
	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2.5.3, (c), Table	Product TypeiSub Category: Ceilings – interior flat Max TVOC content (g/l of ready-to-use product): 14	Technical Requirement	Product Type/Sub Category: Ceilings – interior flat Max TVOC content (g/l of ready-to-use product): 14	Designimplementation	SV/18	Reviewinspect	Errential	As for requirement 2.5.3c - CSM-REQ-009671	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3c - CSM-REQ-009671	On track	On
	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2.5.3, (c), Table	Product TypeiSub Category: Trim – gloss, semi gloss, satin, varnishes and woodstains Max TVOC content (g/l of ready-to-use product): 75	Technical Requirement	Product Type/Sub Category: Trim – gloss, semi gloss, satin, varnishes and woodstains Max TVOC content (g/l of ready-to-use product): 75	Designingienentason	31/16	Neviewinspect	ESSERILIAI	As for requirement 2.5.3c - CSM-REQ-009671	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3c - CSM-REQ-009671	On track	0
	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2.5.3, (c), Table	Product Type/Sub Category: Timber and binding primers Max TVOC content (g/l of ready-to-use product): 30	Technical Requirement	Product Type/Sub Category: Timber and binding primers Max TVOC content (g/l of ready-to-use product): 30	DesignImplementation	SY/LR	ReviewInspect	Essential	As for requirement 2.5.3c - CSM-REQ-009671	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3c - CSM-REQ-009671	On track	Or
	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2.5.3, (c), Table	Product Type/Sub Category: Latex primer for galvanised iron and zincalume Max TVOC content (g/l of ready-to-use product): 60	Technical Requirement	Product Type/Sub Category: Latex primer for galvanised iron and zincalume Max TVOC content (g/l of ready-to-use product): 60	Desgrimperiestados	317.58	Neve Williples	Calculati	As for requirement 2.5.3c - CSM-REQ-009671	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3c - CSM-REQ-009671	On track	Or
SM-REQ-009679	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2.5.3, (c), Table	Product Type/Sub Category: Interior latex undercoat Max TVOC content (g/l of ready-to-use product): 65	Technical Requirement	Product Type/Sub Category: Interior latex undercoat Max TVOC content (g/l of ready-to-use product): 65	DesignImplementation DesignImplementation	SY/IR	ReviewInspect	Essential	As for requirement 2.5.3c - CSM-REQ-009671	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3c - CSM-REQ-009671	On track	Or
	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018		Product Type/Sub Category: Interior sealer Max TVOC content (gf) of ready-to-use product): 65	Technical Requirement	Product Type/Sub Category: Interior sealer Max TVOC content (g/l of ready-to-use product): 65	DesignImplementation	SY/LR	ReviewInspect	Essential	As for requirement 2.5.3c - CSM-REQ-009671	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3c - CSM-REQ-009671	On track	On
SM-REQ-009681	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2.5.3, (c), Table	Product Type/Sub Category: One and two pack performance coatings for floors Max TVOC content (g/l of ready-to-use product): 140	Technical Requirement	Product Type/Sub Category: One and two pack performance coatings for floors Max TVOC content (g/l of ready-to-use product): 140					As for requirement 2.5.3c - CSM-REQ-009671	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3c - CSM-REQ-009671	On track	On
	Sustainability Requirements Rev 2.0 01/02/2018	2.5.3, (c), Table	Product Type/Sub Category: Any solvent-based coatings whose purpose is not covered in table Max TVOC content (git of ready-to-use product): 200	Requirement	Product Type/Sub Category: Any solvent- based coatings whose purpose is not covered in table Max TVOC content (g/l of ready-to-use product): 200	DesignImplementation DesignImplementation	SY/LR	ReviewInspect ReviewInspect	Essential	As for requirement 2.5.3c - CSM-REO-009671	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3c - CSM-REQ-009671	On track	On
3M-REQ-009683	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2.5.3, (d)	All athesives and sealants must comply with TVCC emissions limits in the following table.	Technical Requirement	All adhesives and sealants must comply with TVDC emissions limits in the following table.					The requirement is currently delivered through the Materials Management Plan. The requirement is also included within procurement documentation to ensure that suppliers of materials the requirement is incorporated into Specification and reflected in the Materials & Friendress schedule for does not the Specific requirements. Other developed program requirements included in supplier contracts including confirmation letters and have included requirements into the inspection and test plan process.	OPEN & ONGOING	Compliant	Compliant	Evidence for as built can be GS verified score for GS areas & inspections and corrective action processes for Project wide close out - agreed method ITPs from quality NGB Show consistency of subconfractors product use project wide can do a showcase and have a letter "SM have sighted this voidence"	On track	On
	Sustainability Requirements Rev 2.0 01/02/2018		Product Type: Indoor carpet adhesive Maximum TVOC content (g/litre of product): 50	Technical Requirement	Product Type: Indoor carpet adhesive Maximum TVOC content (g/litre of product): 50	DesignImplementation	SY/LR	ReviewInspect	Essential	This is being tracked in a register utilising the monthly sub-contractor reports data. As for requirement 2.5.3d - CSM-REQ-009683	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3d - CSM-REQ-009683	On track	On
	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 -	2.5.3, (d), Table 2.5.3, (d), Table	Product Type: Carpet pad adhesive Maximum TVOC content (g/litre of product): 50 Product Type: Wood flooring and Laminate adhesive	Technical Requirement Technical	Product Type: Carpet pad adhesive Maximum TVOC content (g/litre of product): 50 Product Type: Wood flooring and	DesignImplementation	SY/LR	ReviewInspect	Essential	As for requirement 2.5.3d - CSM-REQ-009683 As for requirement 2.5.3d - CSM-REQ-009683	OPEN & ONGOING OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3d - CSM-REQ-009683 As for requirement 2.5.3d - CSM-REQ-009683	On track	On
SM-REQ-009687	Sustainability Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 - Sustainability	2.5.3, (d), Table	Product Type: Wood flooring and Laminate adhesive Maximum TVOC content (gillter of product): 100 Product Type: Rubber flooring adhesive Maximum TVOC content (gillter of product): 60	Requirement Technical Requirement	Laminate adhesive Maximum TVOC content (g/litre of product): 100 Product Type: Rubber flooring adhesive Maximum TVOC content (g/litre of	DesignImplementation	SY/LR	ReviewInspect	Essential	As for requirement 2.5.3d - CSM-REQ-009683	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3d - CSM-REQ-009683	On track	On
	Requirements Rev 2.0 01/02/2018		reco contain (grant or product), or	requirement	product): 60	DesignImplementation	SY/LR	ReviewInspect	Essential							

CSM-REQ-009688	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	2.5.3, (d), Table	Product Type: Sub-floor adhesive Maximum TVOC content (g/litre of product): 50	Technical Requirement	Product Type: Sub-floor adhesive Maximum TVOC content (g/litre of product): 50					As for requirement 2.5.3d - CSM-REQ-009683	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3d - CSM-REQ-009683	On track	On track
CSM-REQ-009689	01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	2.5.3, (d), Table	Product Type: Ceramic tile adhesive Maximum TVOC content (g/litre of product): 65	Technical Requirement	Product Type: Ceramic tile adhesive Maximum TVOC content (g/litre of product): 65	DesignImplementation	SY/LR	ReviewInspect	Essential	As for requirement 2.5.3d - CSM-REQ-009683	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3d - CSM-REQ-009683	On track	On track
CSM-REQ-009690	01/02/2018 SWTC - Appendix B07 - Sustainability	2.5.3, (d), Table	Product Type: Cove base adhesive Maximum TVOC content (g/litre of product): 50	Technical Requirement	Product Type: Cove base adhesive Maximum TVOC content (g/litre of	DesignImplementation	SY/LR	ReviewInspect	Essential	As for requirement 2.5.3d - CSM-REQ-009683	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3d - CSM-REQ-009683	On track	On track
CSM-REQ-009691	Requirements Rev 2.0 01/02/2018 SWTC - Appendix B07 -	2.5.3, (d), Table	Product Type: Dry Wall and Panel adhesive	Technical	product): 50 Product Type: Dry Wall and Panel	DesignImplementation	SY/LR	ReviewInspect	Essential	As for requirement 2.5.3d - CSM-REQ-009683	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3d - CSM-REQ-009683	On track	On track
	Sustainability Requirements Rev 2.0 01/02/2018		Maximum TVOC content (g/litre of product): 50	Requirement	adhesive Maximum TVOC content (g/litre of product): 50	DesignImplementation	SY/LR	ReviewInspect	Essential							
CSM-REQ-009692	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2.5.3, (d), Table	Product Type: Multipurpose construction adhesive Maximum TVOC content (g/litre of product): 70	Technical Requirement	Product Type: Multipurpose construction adhesive Maximum TVOC content (g/litre of product): 70	DesignImplementation	SV / I B	Reviewdornert	Ecceptial	As for requirement 2.5.3d - CSM-REQ-009683	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3d - CSM-REQ-009683	On track	On track
CSM-REQ-009693	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	2.5.3, (d), Table	Product Type: Structural glazing adhesive Maximum TVOC content (g/litre of product): 100	Technical Requirement	Product Type: Structural glazing adhesive Maximum TVOC content (g/litre of product): 100	besigningeneration	317.00	neve winspect	Carring	As for requirement 2.5.3d - CSM-REQ-009683	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3d - CSM-REQ-009683	On track	On track
CSM-REQ-009694	01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	2.5.3, (d), Table	Product Type: Architectural sealants Maximum TVOC content (g/litre of product): 250	Technical Requirement	Product Type: Architectural sealants Maximum TVOC content (g/litre of product): 250	DesignImplementation	SY/LR	ReviewInspect	Essential	As for requirement 2.5.3d - CSM-REQ-009683	OPEN & ONGOING	Compliant	Compliant	As for requirement 2.5.3d - CSM-REQ-009683	On track	On track
CSM-REQ-009695	01/02/2018 SWTC - Appendix B07 - Sustainability	2.5.4	Spoil management	Heading	product, 250	DesignImplementation	SY/LR	ReviewInspect	Essential	Heading only	CLOSED	NA.	NA	Heading only	NA	NA NA
CSM-REQ-009696	Requirements Rev 2.0 01/02/2018 SWTC - Appendix 807 -	2.5.4, (a)	The CSM Contractor must identify and implement initiatives to both reduce spoil	Technical	The CSM Contractor must identify and					The CSMW Construction Spoil Management Plan addresses this requirement. Currently 100'	9% OPEN & ONGOING	Compliant	Compliant	Data report accepted as close out of 100%?	NA.	NA NA
	Sustainability Requirements Rev 2.0 01/02/2018		quantities which will be generated during the performance of the CSM Contractor's Activities and beneficially reuse 100% of reusable spoil, including toppoil.	Requirement	implement initiatives to both reduce spoil quantities which will be generated during the performance of the CSM Contractor's Activities and beneficially reuse 100% of reusable spoil, including topsoil.	5	EN (10		Ferential	of spoil that can be reused is being beneficially reused.						
CSM-REQ-009697	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0	2.5.4, (b)	The CSM Contractor must where appropriate reuse site-won materials onsite.	Technical Requirement	The CSM Contractor must where appropriate reuse site-won materials onsite.	Impenentation	EN/ LK	inspect	Essential	The CSMW Construction Spoil Management Plan addresses this requirement.	OPEN & ONGOING	Compliant	Compliant	Section in the biannual report to highlight these reuse items Heritage salvage reuse for bench seats and central signs.	On track	On track
CSM-REQ-009698	01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	2.0	Biodiversity conservation	Heading		Implementation	LR	Inspect	Essential	Heading only	CLOSED	NA	NA	Heading only	NA	NA NA
CSM-REQ-009699	01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	2.6, (a)	The CSM Contractor must minimise clearance of vegetation, particularly native vegetation.	Technical Requirement	The CSM Contractor must minimise clearance of vegetation, particularly native vegetation.					Complies- no vegetation cleared	CLOSED	NA	NA	CLOSED	Compliant	Compliant
CSM-REQ-009700	01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	2.6, (b)	The CSM Contractor must undertake any landscaping and revegetation works as soon as practicable.	Technical Requirement	The CSM Contractor must undertake any landscaping and revegetation works as soon as practicable.	Implementation	LR	Inspect	Essential	Complies - no landscaping and revegetation works to take place on the project	CLOSED	NA.	NA	CLOSED	Compliant	Compliant
CSM-REQ-009701	01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	2.3	Pollution control	Heading		Implementation	LR	Inspect	Essential	Heading only	CLOSED	NA NA	NA	Heading only	NA	NA NA
CSM-REQ-009702	U.J.(2/2018 SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018	2.7, (a)	The CSM Contractor must identify and implement pollution control initiatives in design and construction which target zero major pollution incidents.	Technical Requirement	The CSM Contractor must identify and implement pollution control initiatives in design and construction which target zero major pollution incidents.	Implementation	SV/18	lorest	Secontial	The Environmental management plan and sub plans address the process for this requirement for construction phase. For design the project is trageting the ISC credits Dis-1, Dis-2, Dis-3. Which all drive specific design Boused pollution control instaltives. White respect to pollution control instaltives in design, claing CVRourie will take the opportunity to link the requirement to the relevant requirements in both the IS dating and Green Star raining tools that deal with opportunitions of the control of the control of the CVROUND control of the	OPEN & ONGOING	On track	On track	Refer to incident report for enviro update the comment as there are some dis credits not explain management of air quality and light regardless (management plan) SR reports/inspections to be referenced CLOSS for design (ISC credits will help close) OPEN for as built (ISC credits will help close)	On track	On track
CSM-REQ-009703	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018	2.7, (b)	The CSM Contractor must, where practicable, ensure that all excavators and mobile cranes used for the CSM Contractor's Activities, which are onsite for more than three months, comply with USEPA Tier 4 exhaust emission standards.	Technical Requirement	The CSM Contractor must, where practicable, ensure that all excavators and mobile cranes used for the CSM Contractor's Activities, which are onsite for more than three months, comply with USEPA Tier 4 exhaust emission					This is being captured via the vehicle pre-mobilisation checklist.		NA	NA	Retrieve checklist from logistics / safety team & provide doc reference	Missing evidence / overdue	Missing evidence / overdue
CSM-REQ-009704	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	:	B Design Documentation Requirements	Heading	standards.	Implementation	SY/LR	Inspect	Essential	Heading only	CLOSED	NA	NA	Heading only	NA	NA NA
CSM-REQ-009705	01/02/2018 SWTC - Appendix B07 - Sustainability Requirements Rev 2.0 01/02/2018	3, (a)	Sustainability must be addressed by the CSM Contractor within Design Documentation for all relevant design packages at each Design Stage.	Process Requirement	Sustainability must be addressed by the CSM Contractor within Design Documentation for all relevant design packages at each Design Staze.	Design	av.	Review	Escential	Process requirement covered under multiple contract requirements Status is closed from the Design phase review	CLOSED	Compliant	Compliant	Closed out during the design phase	NA	NA NA
CSM-REQ-009706	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018	3, (b)	The CMC Contractor must produce estimates of operational electricity consumption a read of the Design Stage 2 and Design Stage 2 and Design Stage 2 and Design Stage 2 and Design Stage 3. The estimates must include a breakdown of electricity consumption, by system, and document the assumptions which have been used in the development of the estimates.	Technical Requirement	The CSM Contractor must produce estimates of operational electricity consumption at each of the Design Stage 1. Design Stage 2 and Design Stage 3. The estimates must include a breakdown of electricity consumption, by system, and document the assumptions which have been used in the development of the estimates.	Design	St.	Review	Essential	Complies, stage 2 report of operational electricity consumption eliminates produced. SMCSWCSM-DIV-NC-OD-REP-SU-000102, Operational Electricity Consumption Estimates	CLOSED	Compliant	Compliant	Closed out during the design phase	NA	NA.
CSM-REQ-009707	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018	3, (c)	The CSM Contractor must produce dimate change impact assessment reports at Design Stage 1, Design Stage 2 and Design Stage 3 which demonstrates how climate change risks have been mitigated in design.	Technical Requirement	The CSM Contractor must produce climate change impact assessment reports at Design Stage 1, Design Stage 2 and Design Stage 3 which demonstrates how climate change risks have been mitigated in design.					Compiles, stage 2 report produced describing climate change risk migration. 30KCWCSNe-01-VN-CO-8EP-EN-000104, Climate change adaptation report	CLOSED	Compliant	Compliant	Closed out during the design phase	NA	NA.
CSM-REQ-009708	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018	3, (d)	The CSM Contractor must produce life-cycle assessment reports at Design Stage 1. Design Stage 2 and Design Stage 3 which describes how life-cycle assessment has been used as a demand unable good for anterial selection and sourcing and design to minimise life cycle environmental impacts.	Requirement	The CSM Contractor must produce life-cycle assessment reports at Design Stage 1, Design Stage 2 and Design Stage 3 which describes how life-cycle assessment has been used as a decision making tool for material selection and sourcing and design to minimise life cycle environmental impacts.	Design Design	SY	Review	Essential	Compiles. Stage 2 materials impact report has been produced specifically to address this requirement MACNUXYAD INV-ROO-REP-SU 000018, Materials impact Report	CLOSED	Compliant	Compliant	Closed out during the design phase	NA	NA.
CSM-REQ-009709	SWTC - Appendix 807 - Sustainability Requirements Rev 2.0 01/02/2018	3, (e)	The CSM Contractor must produce completed Green Star Design and As Built Refrigerants impacts Calculator for all station heating, ventilation, air conditioning and refrigerant (NVACAR) systems at Design Stage 2 and Design Stage 3.	Technical Requirement	The CSM Contractor must produce completed Green Star Design and As Built Refrigerants impacts Calculator for all station heating, ventilation, air conditioning and refrigerant (HVAC&R) systems at Design Stage 2 and Design Stage 3.	Design	SY	Review	Essential	Complies. See edicator in report ACM/SWCSAN-DIV-20 aBEP-ME-000001, Mechanical Design Statement, Section 3.9	CLOSED	Compliant	Compliant	Closed out during the design phase	NA	NA

Part																	
Part	CSM-REQ-009710	Sustainability Requirements Rev 2.0	3, (f)	Documentation demonstrating that the Project Works have been designed to achieve a minimum 15% improvement over relevant reference cases based on Section J minimum performance requirements as defined by the National Construction Code Building Code of Australia (NCC BCA). The 15% design improvement and reference cases must include all building related energy end	Technical Requirement	Contractor must produce Design Documentation demonstrating that the Project Works have been designed to achievat minimum 15% improvement over relevant reference cases based on Section I minimum performance requirements as defined by the National Construction Code Building Code of Australia (N.C. BCA). The 15% design improvement and reference cases must include all building related energy end uses (excluding process, communications and	Design	SY	Review	Essential	the project works exceed the targeted 15% improvement on a reference case based on Section J minimum performance requirements as defined by the NCC BCA. SMCSWCSM-DIV-NC-00-REP-SU-000104, Energy	CLOSED	Compliant	Compliant	Closed out during the design phase	NA	NA
Property		Sustainability Requirements Rev 2.0 01/02/2018		Occumentation demonstrating that the Project Works have been designed to achieve a minimum. This improvement over relevant reference sees based on Section a minimum performance requirements as defined by the National Improvement and reference cases must include a fluiding related energy end uses (encluding process, communications and specialist equipment energy loaks) and: where works are classified under a particular NCC BCA. Design Documentation with the control of the properties of the pro		NCC BCA, Design Documentation must include energy simulation modelling and associated reporting against minimum performance requirements. Design Documentation provided at Design Stage 2 must be updated	Design	SY	Review	Essential	the project works exceed the targeted 15% improvement on a reference can be and on Section J initing performance requirements as defined by the NCE BICA.SMCSWCSM-DJV-NC-OD-REP-SU-000104, Energy Modelling Report		Compliant	Compliant		NA	NA .
Note	CSM-REQ-009712	Sustainability Requirements Rev 2.0	3, (†), (ii)	Documentation demonstrating that the Project Works have been designed to achieve a minimum 15% improvement over revenue reference sees based on Section 1 minimum performance requirements as defined by the National Construction Code Building Code of Nutration (AC EQA.). The 15% design improvement and reference case must include all building related energy end uses (encluding process, communications and specialist equipment energy loads) and: where works are not classified under a particular NCC BCA building classification, appropriate NCC BCA Section 1 Benchmarks must be used to determine the minimum performance benchmark and improvements must be demonstrated by minimum performance benchmark and improvements must be demonstrated by	Technical Requirement	particular NCC BCA building classification, appropriate NCC BCA Section J benchmarks must be used to determine the minimum performance benchmark and improvements must be demonstrated by energy simulation	Design	SY	Review	Essential	the project works exceed the targeted 15% improvement on a reference case based on Section J minimum performance requirements as defined by the NCE OEL.SMCSWCSM-DJV-NC-00-REP-SU-000104, Energy	CLOSED	Compliant	Compliant	Closed out during the design phase	NA	NA .
Management Man	CSM-REQ-009713	Sustainability Requirements Rev 2.0	3, (f), (iii)	Occumentation demonstrating that the Project Works have been designed to achieve a minimum. 15% improvement over reveals reference sees based on Section 3 minimum performance requirements as defined by the National Improvement and reference cases must include all huding related energy end uses (encluding process, communications and specialist equipment energy loads) and; when the control of the communications and specialist equipment energy loads and; when the communications and specialist equipment energy loads and; when the communications and specialist equipment energy loads and; when the communications and specialist equipment energy loads and; when the communications and specialist equipment energy loads and; when the communications and specialist equipment experiences and specialist equipment experiences and equipment such as computers, Datacom equipment and machinery to write the developer, tested for appropriations and stated within the COM.		for occupancy, energy consuming systems and equipment such as artificial lighting, air- conditioning, ventilation, lifts and internal variable energy using systems and equipment such as computers, Datacom equipment and machinery must be developed, texted for appropriateness and stated within the CSM contractor's energy simulation and/or Contractor's energy simulation and/or	Out to			Security	the project works exceed the targeted 15% improvement on a reference case based on Section J minimum performance requirements as defined by the NCC BCA. SMCSWCSM-DIV-NC-00-REP-SU-000104, Energy	CLOSED	Compliant	Compliant	Closed out during the design phase	NA	NA.
March Marc	CSM-REQ-009714	Sustainability Requirements Rev 2.0	3, (g)	the "Biannual Sustainability Report" (BSR) detailed in MR Sy Clause 9 which	Information						For information only	CLOSED	NA	NA	For information only	NA	NA .
March Marc	CSM-REQ-009715	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0	3, (g), (i)	the "Biannual Sustainability Report" (BSR) detailed in MR Sy Clause 9 which includes: a compliance table which shows the status of compliance with sustainability requirements from this Appendix 807 and the MR Sy which are addressed in		compliance with sustainability requirements from this Appendix B07 and the MR Sy which	Design/molementation	SV/IB	Paviaudorpart	Errential		OPEN & ONGOING	On track	On track	- Section 2.1 Report Requirements Cross Reference	On track	On track
March (1997) Sept. Companies (1997) Sept	CSM-REQ-009716	Sustainability Requirements Rev 2.0	3, (g), (ii)	The CSM Contractor must produce a biannual sustainable design report as part of the "Biannual Sustainability Report" (BSR) detailed in MR Sy Clause 9 which includes: evidence of how the sustainable design initiatives achieve the targets in MR Sy and	Process Requirement	initiatives achieve the targets in MR Sy and	Decimalmentation	CV/10	Designatura	Secondial	SMCSWCSM-LOR-SMC-SU-REP-000005 - Section 2.1 Report Requirements Cross Reference	OPEN & ONGOING	On track	On track	- Section 2.1 Report Requirements Cross Reference	On track	On track
MAIN COURT Septiment Sep	CSM-REQ-009717	Sustainability Requirements Rev 2.0	3, (g), (iii)	The CSM Contractor must produce a biannual sustainable design report as part of the "Biannual Sustainability Report" (BSR) detailed in MR Sy Clause 9 which includes: a graphical representation of the achievement of sustainability targets in MR Sy	Process Requirement	of sustainability targets in MR Sy and this	Designation and a second	SV/10	Devianders	Essential	SMCSWCSM-LOR-SMC-SU-REP-000005 - Section 2.1 Report Requirements Cross Reference	OPEN & ONGOING	On track	On track	- Section 2.1 Report Requirements Cross Reference	On track	On track
MARCO (2007)22 SAME CONTINUED STATE AND ADDRESS ASSESSMENT STATE STATE AND ADDRESS ASSESSMENT AND ADDRE	CSM-REQ-009718	Sustainability Requirements Rev 2.0	3, (g), (iv)	The CSM Contractor must produce a biannual sustainable design report as part of the "Biannual Sustainability Report" (BSR) detailed in MR Sy Clause 9 which includes:	Process Requirement	illustrations of key sustainability initiatives;	Designingeneriasion	S1/ LK	Reviewiispect	Essential		OPEN & ONGOING	On track	On track	- Section 2.1 Report Requirements Cross Reference	On track	On track
MARIQUODITY Source Appendix 807 - 3 (L. L. L. L. L. L. L. L.	CSM-REQ-009719	SWTC - Appendix B07 - Sustainability Requirements Rev 2.0		The CSM Contractor must produce a biannual sustainable design report as part of the "Biannual Sustainability Report" (BSR) detailed in MR Sy Clause 9 which includes: evidence to show where climate change mitigation and adaptation measures or changes have been implemented in design;		mitigation and adaptation measures or	DesignImplementation	SY/LR	Reviewinspect	Essential	- Section 2.1 Report Requirements Cross Reference			On track	- Section 2.1 Report Requirements Cross Reference Final BSR report	On track	On track
MAREQ-009723 SMTC. Appends 807 - Section 1.1 Floor flo	CSM-REQ-009720	Sustainability Requirements Rev 2.0	3, (g), (vi)	The CSM Contractor must produce a biannual sustainable design report as part of the "Biannual Sustainability Report" (BSR) detailed in MR Sy Clause 9 which includes: scoring achieved using the Green Star and ISCA's IS Rating Tool 'Design' Rating	Process Requirement	ISCA's IS Rating Tool 'Design' Rating including supporting completed checklists and		0.440			SMCSWCSM-LOR-SMC-SU-REP-000005 - Section 2.1 Report Requirements Cross Reference	OPEN & ONGOING	On track	On track	- Section 2.1 Report Requirements Cross Reference	On track	On track
MAREQ-099722 SWTCAppends 807 - SLEP-000005 J. (g), (w) The CSM Contractor must produce a binnamal sustainable design report as part of each of where low carbon initiatives have been implemented in the design and construction of the Project Works and Temporary Works; which was a few programs and construction of the Project Works and Temporary Works; which was a few programs and construction of the Project Works and Temporary Works; which was a few programs and construction of the Project Works and Temporary Works; which have been implemented to missistent the design and construction of the Project Works and Temporary Works; which have been implemented or missistent to the Construction of the Project Works and Temporary Works; which was a few programs and construction of the Project Works and Temporary Works; which have been implemented to missistent the design and construction of the Project Works and Temporary Works; which have been implemented or missistent to the construction of the Project Works and Temporary Works; which was a few programs and construction of the Project Works and Temporary Works; which was a few programs and construction of the Project Works and Temporary Works; which was a few programs and construction of the Project Works and Temporary Works; which was a few programs and construction of the Project Works and Temporary Works; which was a few programs and construction of the Project Works and Temporary Works; which was a few programs and construction of the Project Works and Temporary Works; which was a few programs and construction of the Project Works and Temporary Works; which was a few programs and construction of the Project Works and Temporary Works; which was a few programs and construction of the Project Works and Temporary Works; which was a few programs and construction of the Project Works and Temporary Works; which was a few programs and construction of the Project Works and Temporary Works; which was a few project work and the project Works and Temporary Works; which was a	CSM-REQ-009721	Sustainability Requirements Rev 2.0	3, (g), (vii)	The CSM Contractor must produce a biannual sustainable design report as part of the "Biannual Sustainability Report" (BSR) detailed in MR Sy Clause 9 which includes: demonstration of progress toward achieving ISCA Ene-1, Ene-2, Mat-1, Wat-1 and			Designimpiementation	SY/LK	Reviewinspect	Essential		OPEN & ONGOING	On track	On track	- Section 2.1 Report Requirements Cross Reference	On track	On track
MAREQ.099723 SWTCAppends 807 - \$\(\)\[\(\)\[\)\[\)\[\]\[\)\[\)\[\)\[\]\[\]	CSM-REQ-009722	Sustainability Requirements Rev 2.0	3, (g), (viii)	The CSM Contractor must produce a biannual sustainable design report as part of the "Biannual Sustainability Report" (BSR) detailed in MR Sy Clause 9 which includes: details of where low carbon initiatives have been implemented in the design and		been implemented in the design and construction of the Project Works and	DesignImplementation	SY/LR	keviewinspect	Essential		OPEN & ONGOING	On track	On track	- Section 2.1 Report Requirements Cross Reference	On track	On track
MAREQ.099734 SVITCAppenda 807 - 1, (g), (i) The CSM Contractor must produce a binamal sustainable design report as part of Process and Standard design report	CSM-REQ-009723	Sustainability Requirements Rev 2.0	3, (g), (ix)	The CSM Contractor must produce a biannual sustainable design report as part of the "Biannual Sustainability Report" (BSR) detailed in MR Sy Clause 9 which includes: initiatives which have been implemented to minimise the embodied carbon emissions of concrete mixes which will be used in the Project Works and		minimise the embodied carbon emissions of concrete mixes which will be used in the	DesignImplementation	SY/LR	Reviewinspect	Essential	SMCSWCSM-LOR-SMC-SU-REP-000005 - Section 2.1 Report Requirements Cross Reference	OPEN & ONGOING	On track	On track	- Section 2.1 Report Requirements Cross Reference	On track	On track
	CSM-REQ-009724	Sustainability Requirements Rev 2.0	3, (g), (x)	The CSM Contractor must produce a biannual sustainable design report as part of the "Biannual Sustainability Report" (BSR) detailed in MR Sy Clause 9 which includes:			DesignImplementation	SY/LR	Reviewinspect	Essential		OPEN & ONGOING	On track	On track	- Section 2.1 Report Requirements Cross Reference	On track	On track

CSM-REQ-009725			To an			i		1					-1	1	1-	
CSM-REQ-009725	SWTC - Appendix B07 - Sustainability	3, (g), (xi)	The CSM Contractor must produce a biannual sustainable design report as part of the "Biannual Sustainability Report" (BSR) detailed in MR Sy Clause 9 which	Process Requirement	a demonstration and description of innovative sustainable design initiatives.					SMCSWCSM-LOR-SMC-SU-REP-000005 - Section 2.1 Report Requirements Cross Reference	OPEN & ONGOING	On track	On track	SMCSWCSM-LOR-SMC-SU-REP-000005 - Section 2.1 Report Requirements Cross Reference	On track	On track
	Requirements Rev 2.0		includes:											Final BSR report		
	01/02/2018		a demonstration and description of innovative sustainable design initiatives.			DesignImplementation	SV / I R	Reviewdornect	Eccential							
CSM-REQ-009726	SWTC - Appendix B07 -		4 Sustainability Manager	Heading		besignimplementation	31 / LK	Reviewiispect	Essential	Heading only	CLOSED	NA	NA	Heading only	NA	NA .
	Sustainability		· -	_												
	Requirements Rev 2.0 01/02/2018															
CSM-REQ-009727	SWTC - Appendix B07 -	4, (a)	The CSM Contractor must provide a Sustainability Manager who must:	Information						For information only	CLOSED	NA	NA	For information only	NA	NA
	Sustainability															
	Requirements Rev 2.0 01/02/2018															
CSM-REQ-009728	SWTC - Appendix B07 -	4, (a), (i)	The CSM Contractor must provide a Sustainability Manager who must:	Process	possess a recognised qualification relevant to					Nick Clarke was the Sustainability Manager on the CSM project	OPEN & ONGOING	On track	On track	CSM-REQ-009728 Nick Clarke CV	On track	On track
	Sustainability Requirements Rev 2.0		possess a recognised qualification relevant to the position and the CSM Contractor's Activities and have recent relevant experience in sustainability	Requirement	the position and the CSM Contractor's Activities and have recent relevant experience					CSM-REQ-009728 Nick Clarke CV						
	01/02/2018		management on projects similar to the Project Works;		in sustainability management on projects											
					similar to the Project Works;											
CSM-REQ-009729	SWTC - Appendix B07 -	4, (a), (ii)	The CSM Contractor must provide a Sustainability Manager who must:	Process	have at least five years' sustainability	Implementation	LR	Inspect	Essential	Nick Clarke was the Sustainability Manager on the CSM project	OPEN & ONGOING	On track	On track	CSM-REQ-009728 Nick Clarke CV	On track	On track
C3W1-KEQ-009729	Sustainability	4, (a), (ii)	have at least five years' sustainability management experience in the design and	Requirement	management experience in the design and					CSM-REQ-009728 Nick Clarke CV	OPEN & UNGUING	Officials	Oli track	CSM*REQ*009728 NICK Clarke CV	Oli tiatk	Oli track
	Requirements Rev 2.0		construction of sustainable infrastructure or buildings;		construction of sustainable infrastructure or											
CSM-REQ-009730	01/02/2018 SWTC - Appendix B07 -	4. (a). (iii)	The CSM Contractor must provide a Sustainability Manager who must:	Process	buildings; be available as the Principal's Representative's	Implementation	LR	Inspect	Essential	Nick Clarke was the Sustainability Manager on the CSM project	OPEN & ONGOING	On track	On track		On track	On track
	Sustainability	., (=µ ()	be available as the Principal's Representative's primary contact with the CSM	Requirement	primary contact with the CSM Contractor on					CSM-REQ-009728 Nick Clarke CV						
	Requirements Rev 2.0 01/02/2018		Contractor on sustainability matters;		sustainability matters;											
CSM-REQ-009731	SWTC - Appendix B07 -	4, (a), (iv)	The CSM Contractor must provide a Sustainability Manager who must:	Process	be responsible for and have the authority to	Implementation	LK	Inspect	Essential	Nick Clarke was the Sustainability Manager on the CSM project who developed the SMP pm the	OPEN & ONGOING	On track	On track		On track	On track
	Sustainability		be responsible for and have the authority to develop and implement the	Requirement	develop and implement the Sustainability											
	Requirements Rev 2.0 01/02/2018		Sustainability Management Plan; and		Management Plan; and					CSM-REQ-009728 Nick Clarke CV						
	01/02/2016					Implementation	LR	Inspect	Essential							
CSM-REQ-009732	SWTC - Appendix B07 -	4, (a), (v)	The CSM Contractor must provide a Sustainability Manager who must:	Process	be engaged, with responsibilities limited to					Nick Clarke was the Sustainability Manager on the CSM project	OPEN & ONGOING	On track	On track		On track	On track
	Sustainability Requirements Rev 2.0		be engaged, with responsibilities limited to sustainability management of the CSM Contractor's Activities:	Requirement	sustainability management of the CSM Contractor's Activities:					CSM-REQ-009728 Nick Clarke CV						
	01/02/2018					Implementation	LR	Inspect	Essential							
CSM-REQ-009733	SWTC - Appendix B07 -	4, (a), (v), A	The CSM Contractor must provide a Sustainability Manager who must:	Process	full-time during the execution of the CSM					Nick Clarke was the full-time Sustainability Manager during the execution of the CSM Contractor's	OPEN & ONGOING	On track	On track		On track	On track
	Sustainability Requirements Rev 2.0	1	be engaged, with responsibilities limited to sustainability management of the CSM Contractor's Activities:	Requirement	Contractor's Activities, from the date of the Contract through to the completion of Design					Activities, from the date of the Contract through to the completion of Design Stage 3 CSM-REO-009728 Nick Clarke CV		1				
	01/02/2018	1	full-time during the execution of the CSM Contractor's Activities, from the date of		Stage 3; and					AND THE RESERVE OF THE PARTY OF		1				
		1	the Contract through to the completion of Design Stage 3; and						L			1				
CSM-REQ-009734	SWTC - Appendix B07 -	4, (a), (v), B	The CSM Contractor must provide a Sustainability Manager who must:	Process	part-time (a minimum of 0.5 full-time	Implementation	LR	Inspect	Essential		OPEN & ONGOING	On track	On track		On track	On track
	Sustainability		be engaged, with responsibilities limited to sustainability management of the CSM	Requirement	equivalent) from the end of Design Stage 3											
	Requirements Rev 2.0		Contractor's Activities:		until the time of Construction Completion of											
	01/02/2018		part-time (a minimum of 0.5 full-time equivalent) from the end of Design Stage 3 until the time of Construction Completion of the last Portion; and		the last Portion; and											
			, , , , , , , , , , , , , , , , , , , ,			Implementation	LR	Inspect	Essential							
CSM-REQ-009735	SWTC - Appendix B07 -	4, (a), (v), C	The CSM Contractor must provide a Sustainability Manager who must: be engaged, with responsibilities limited to sustainability management of the CSM	Process	following Construction Completion of Portion 3, and until the time of Construction					CSM-REQ-009735 Alyssa Slaney CV	OPEN & ONGOING	On track	On track	Alyssa CV	On track	On track
	Sustainability Requirements Rev 2.0		be engaged, with responsibilities limited to sustainability management of the CSM Contractor's Activities:	Requirement	3, and until the time of Construction Completion of the last Portion, the											
	Requirements Rev 2.0 01/02/2018		following Construction Completion of Portion 3, and until the time of Construction		responsibility for sustainability management											
			Completion of the last Portion, the responsibility for sustainability management may be undertaken by a sustainability engineer with a minimum of 2 years		may be undertaken by a sustainability engineer with a minimum of 2 years relevant											
			relevant sustainability experience.		sustainability experience											
						Implementation	LR	Inspect	Essential							
CSM-REQ-015190	MR-Sy SM-17-00000467 22/02/2018		1 Introduction	Heading						Heading only	CLOSED	NA	NA	Heading only	NA	NA.
CSM-REQ-015191	MR-Sy SM-17-00000467	1.1.	Purpose	Heading						Heading only	CLOSED	NA	NA	Heading only	NA	NA .
	22/02/2018 MR-Sy SM-17-00000467															
CSM-REQ-015192	MR-Sy SM-17-00000467 22/02/2018	1.1., (a)	This Management Requirements – Sustainability – Central Station Main Works (MR-Sy) describes requirements and processes in relation to management.	Information						For information only	CLOSED	NA .	NA	For information only	NA	NA
	,,		reporting and sustainability related aspects of the Works. Temporary Works and													
CSM-REQ-015193			the Contractor's Activities. This MR-Sy must be read in conjunction with other parts of the Contract.								CLOSED					
CSM-KEQ-015193	MR-Sy SM-17-00000467 22/02/2018	1.1., (b)	This Mik-sy must be read in conjunction with other parts or the Contract.	Information						For information only	CLUSED	NA.	NA	For information only	NA	NA
CSM-REQ-015194	MR-Sy SM-17-00000467	1.1., (c)	The Contractor must comply with the requirements of this MR-Sy and any	Process	The Contractor must comply with the					For information only	CLOSED	NA	NA	For information only	NA	NA .
	22/02/2018		Reference Documents listed in Annexure A to this MR-Sy.	Requirement	requirements of this MR-Sy and any Reference Documents listed in Annexure A to this MR-Sy.											
					bocuments issed in Armexure A to this MK-sy.	Design	SY/LR	Inspect	Essential							
CSM-REQ-015195	MR-Sy SM-17-00000467	1.2.	Definitions	Heading						Heading only	CLOSED	NA	NA	Heading only	NA	NA
CSM-REQ-015196	22/02/2018 MR-Sy SM-17-00000467	1.2., (Refer)	Refer to MR-Prelude and the General Conditions for a definition of terms used in	Information						For information only	CLOSED	N/A	NA	For information only	NA.	- NA
	22/02/2018	1.2., (Relet)	this MR-Sy.	illiolillation						Pol milation only		INA	NA.	For internation only	NA.	NA.
CSM-REQ-015197	MR-Sy SM-17-00000467		2 General	Heading						Heading only	CLOSED	NA	NA	Heading only	NA	NA
CSM-REQ-015198	22/02/2018 MR-Sv SM-17-00000467	2 (a)	Where noted in Anneyure C - Project Specific Requirements, the Contractor must	Process	Where noted in Annexure C – Project Specific					Noted, changes made to relevant contract clauses	CLOSED	Compliant	Compliant	Noted, changes made to relevant contract clauses	Compliant	Compliant
CSMI-KEQ-013198	22/02/2018	2., (a)	Where noted in Annexure C – Project Specific Requirements, the Contractor must comply with the requirements of this MR-Sy, as amended by Annexure C.	Requirement	Requirements, the Contractor must comply					Noted, changes made to relevant conduct clauses	CLUSED	Compilant	Compilant	Noted, changes made to relevant contract clauses	Compilant	Compilant
004.050.045		2 (0)			with the requirements of this MR-Sv. as	Design	SY/LR	Inspect	Essential		ci ocen		Constitute of		F	
CSM-REQ-015199	MR-Sy SM-17-00000467 22/02/2018	2., (b)	The Reference Documents listed in this MR-Sy are included in electronic format on the DVD entitled "Sydney Metro City & Southwest Central Station Main Works	Process Requirement	The Reference Documents listed in this MR-Sy are included in electronic format on the DVD					NA Agree that these requirements are NA to Sustainability outcomes	CLOSED	Compliant	Compliant	NA Agree that these requirements are NA to Sustainability	Compliant	Compliant
		1	Incentivised Target Cost Contract – Schedule G1.		entitled "Sydney Metro City & Southwest					V		1		outcomes		
		1			Central Station Main Works Incentivised							1				
					Target Cost Contract – Schedule G1.	Implementation	PM / LR	Inspect	Essential							
CSM-REQ-015200	MR-Sy SM-17-00000467	2., (c)	The Contractor must provide copies of all the Documents required in this MR-Sy in		The Contractor must provide copies of all the	, reconstruction	.,			NA NA	CLOSED	Compliant	Compliant	NA	Compliant	Compliant
	22/02/2018	1	".pdf" format that comply with the Level AA accessibility requirements in the Web	Requirement	Documents required in this MR-Sy in ".pdf" format that comply with the Level AA					Agree that these requirements are NA to Sustainability outcomes		1		Agree that these requirements are NA to Sustainability		
	1		Content Accessibility Guidelines (WCAG 2.0).		format that comply with the Level AA accessibility requirements in the Web Content							1		outcomes		
					Accessibility Guidelines (WCAG 2.0).											
CSM-REQ-015201	MR-Sy SM-17-00000467	2 (4)	The Control of the Co	Process	The Contractor must ensure that sustainability	Implementation	PM / LR	Inspect	Essential	The Cinema of County compliance table lists the most	Onne 8 C	On track	On track	Final Biannual Report compliance table	Complete	Compliant
CSM-KEQ-015201	MR-Sy SM-17-00000467 22/02/2018	2., (0)	The Contractor must ensure that sustainability is addressed throughout the performance of the Contractor's Activities and that sustainability is embedded	Process Requirement	is addressed throughout the performance of					The Biannual Report compliance table lists the performance of the project's sustaianbility performance	open & Ungoing	on track	on track	rinai biannual Report compilance table	Compliant	compliant
	1	1	into the design and construction of the Works and the Temporary Works.		the Contractor's Activities and that							1				
1	1				sustainability is embedded into the design and construction of the Works and the Temporary							1				
	1				construction of the Works and the Temporary Works.							1				1 1
						Implementation	SY/LR	Inspect	Essential			1				
CSM-REQ-015202	MR-Sy SM-17-00000467 22/02/2018		3 Governance	Heading	1					Heading only	CLOSED	NA	NA	Heading only	NA	NA
CSM-REQ-015203	MR-Sy SM-17-00000467	3., (a)	The Contractor must develop, implement and maintain governance structures,	Process	The Contractor must develop, implement and				1	Aligned with: Sydney Metro City & Southwest Sustainability Strategy and Sydney Metro Environment and	OPEN & ONGOING	Compliant	Compliant	Ensure relevant policies are in place until PC?	On track	On track
1	22/02/2018	1	processes and systems that ensure integration and implementation of all	Requirement	maintain governance structures, processes					Sustainability Statement of Commitment Laing O'Rourke Environmental & Energy Policy Laing O'Rourke		1	1 11	What can we show here?		
	1		sustainability considerations, initiatives and reporting.		and systems that ensure integration and implementation of all sustainability					Sustainability Policy Laing O'Rourke Supply Chain Policy Central Station Sustainable Procurement Policy — Endorsed by the new Project Director — John Cosgrove The following governance plans, Sustainability		1				
	1				implementation of all sustainability considerations, initiatives and reporting.					Management Plan and sub plans for Waste. Energy and Materials are approved and operational.		1				
		1								SMCSWCSM-LOR-SMC-SU-PLN-000001 - Sustainability Management PlanSMCSWSMC-LOR-SMC-SU-PLN-		1				
		1								000003 - Waste Management Recycling PlanSMCSWSMC-LOR-SMC-SU-PLN-000004 - Materials Management PlanSMCSWSMC-LOR-SMC-SU-PLN-000002 - Carbon and Energy Management Plan The		1				
		1								remainder of this Compliance Table provides an indication of how all of the requirements are being		1				
1		1							L	addressed through processes and systems		1				
CSM-REQ-015204	MR-Sy SM-17-00000467	3 (b)	For the Contractor's Activities related to the Works, the Contractor must:	Information	+	implementation	SY / LR	inspect	Essential	For information only	CLOSED	NΔ	NΔ	For information only	NΔ	NΔ
	22/02/2018		The work, the Contractor (1926)		<u> </u>							1				1

					1								1	T	_	
CSM-REQ-015205	MR-Sy SM-17-00000467 22/02/2018	3., (b), (i)	For the Contractor's Activities related to the Works, the Contractor must: enter into a Ratings Agreement to obtain an Infrastructure Sustainability Rating for the Contractor's Activities, and provide a copy to the Principal's Representative;	Process Requirement	enter into a Ratings Agreement to obtain an Infrastructure Sustainability Rating for the Contractor's Activities, and provide a copy to the Principal's Representative;		av tra			LOR and ISC entered into a ratings agreement with ISC and provided to the principal's representative	CLOSED	Compliant	Compliant	LOR and ISC entered into a ratings agreement with ISC and provided to the principal's representative	Compliant	Compliant
CSM-REQ-015206	MR-Sy SM-17-00000467 22/02/2018	3., (b), (ii)	For the Contractor's Activities related to the Works, the Contractor must:(ii) use the S Rating Scheme to achieve the following, in this clause 3 (b) (ii) A. and B, below. Should either of the following occur:	Process Requirement	(ii) use the IS Rating Scheme to achieve the following, in this clause 3 (b) (ii) A. and B, below. Should either of the following occur:	Implementation	SY/LK	inspect	Essential	"Information requirement" (requirement provides context to other associated / subsequent requirements)- no update	CLOSED	Compliant	Compliant	"Information requirement" (requirement provides context to other associated / subsequent requirements)- no update	Compliant	Compliant
CSM-REQ-015207	MR-Sy SM-17-00000467 22/02/2018	3., (b), (ii), A	For the Contractor's Activities related to the Works, the Contractor must (ii) use the S Sating Scheme to achieve the following, in this clause 3 (b) (ii) A, and 8, below. Should either of the following ocur. A: ISCA not accept the business as usual base case assumption that approximately 30% of the power demand be provided from generators in addition to mains power supply, or	Process Requirement	A. ISCA not accept the business as usual base case assumption that approximately 30% of the power demand be provided from generators in addition to mains power supply; or	DesignImplementation	SY/LR	ReviewInspect	Essential	Base case verified with the assumption that 100% of site power will be provided by diesel generators. Therefore, not rejected by ISCA and it is expected that there is no impact to the below target score.	OPEN	On track	On track	Please provide base case Submit BC via TB	On track	On track
CSM-REQ-015208	MR-Sy SM-17-00000467 22/02/2018	3., (b), (ii), B	For the Contractor's Activities related to the Works, the Contractor must:(ii) use the IS Rating Scheme to achieve the following, in this clause 3 (b) (ii) A. and B, below. Should either of the following occur: B. an ISCA Credit Wat-2, Level 1 is not	Process Requirement	B. an ISCA Credit Wat-2, Level 1 is not achieved;	DesignImplementation	SY/LR	ReviewInspect	Essential	Wat-2 has been self-assessed at level 1 or above. Therefore, it is expected that there is no impact to the below target score. Refer to Appendix A ISC Score Card. Wat-2 reduction targets sprouts from mostly operational phase initiatives with the bulk of the water use	OPEN	On track	On track	Wat-2 verified at level 1 for the Design rating	On track	On track
CSM-REQ-015209	MR-Sy SM-17-00000467 22/02/2018	3., (b), (ii), B	Jachieved; For the Contractor's Activities related to the Works, the Contractor must:(ii) use the IS Rating Scheme to achieve the following, in this clause 3 (b) (ii) A. and B, below. Should either of the following occur: the Contractor must:	Information		DesignImplementation	SY/LR	ReviewInspect	Essential	assigned to the operational phase For information only	CLOSED	NA	NA	For information only	NA	NA.
CSM-REQ-015210	MR-Sy SM-17-00000467 22/02/2018	3., (b), (ii), C	For the Contractor's Activities related to the Works, the Contractor must: (ii) use the IS Rating Scheme to achieve the following, in this clause 3 (b) (ii) A. and B, below. Should either of the following occur: the Contractor must: C. demonstrate the associated impact to IS Ratings; and	Process Requirement	C. demonstrate the associated impact to IS Ratings; and	Decimal malement of the	SV/III	Deviandence	Essential	For information only	CLOSED	NA	NA	For information only	NA	NA.
CSM-REQ-015211	MR-Sy SM-17-00000467 22/02/2018	3., (b), (ii), D	the studoutes impact to is natings, and For the Contractor's Activities related to the Works, the Contractor must-(ii) use the IS flating Scheme to achieve the following, in this clause 3 (b) (ii) A. and B, below. Should either of the following occur: the Contractor must D. Schieve an adjusted minimum ISCA rating of 73, which is 75 minus 1 point for each of the above assumptions if rejected.	Process Requirement	D. achieve an adjusted minimum ISCA rating of 73, which is 75 minus 1 point for each of the above assumptions if rejected;	Designimplementation	SY/IR	Reviewinspect Reviewinspect	Essential	This requirement will be reviewed upon the verified Round 2 result expected in quarter 3 of 2022.	OPEN & ONGOING	On track	On track	Update when score is in	On track	On track
CSM-REQ-015212	MR-Sy SM-17-00000467 22/02/2018	3., (b), (ii), D	For the Contractor's Activities related to the Works, the Contractor must:[ii] use the IS Rating Scheme to achieve the following, in this clause 3 (b) (ii) A. and B, below. Should either of the following occur: further, the Contractor must:	Information						For information only	CLOSED	NA	NA	For information only	NA	NA.
CSM-REQ-015213	MR-Sy SM-17-00000467 22/02/2018	3., (b), (ii), E	For the Contractor's Activities related to the Works, the Contractor must:(ii) use the S Rating Scheme to achieve the following, in this clause 3 (b) (ii) A. and 8, below. Should either of the following occur-further, the Contractor must: E. achieve a "Design" rating score of at least 75, with a target of 79, for the design of the Works; and	Process Requirement	E. achieve a "Design" rating score of at least 75, with a target of 79, for the design of the Works; and	DesignImplementation	SY/LR	ReviewInsper*	Essential	The Project has submitted for Round 1 of the Design rating and achieved a verified score of 32.6. The project team is currently in the process of addressing the verifier comments after which The Project will submit for Round 2 verification in quarter 2 of 2022.	OPEN & ONGOING	On track	On track	Update when score is in	NA	NA .
CSM-REQ-015214	MR-Sy SM-17-00000467 22/02/2018	3., (b), (ii), F	For the Contractor's Activities related to the Works, the Contractor must-(ii) use the S Rating Scheme to achieve the following, in this clause 3 (b) (ii) A and B, below. Should either of the following occur-further, the Contractor must: F, achieve an "As Built" rainting score of at least 75, with a target of 79, for the constructed Works, and	Process Requirement	F. achieve an "As Built" rating score of at least 75, with a target of 79, for the constructed Works; and	DesignImplementation	SV/IB	Reviewdornect	Errential	The Project has been working toward achieving a score of 75 for the As-Built rating throughout the project's ratings period and plan to submit for Round-1 As-Built rating in quarter 3 of 2022.	OPEN	NA.	NA	Close out after the As-Built rating verification	On track	On track
CSM-REQ-015215	MR-Sy SM-17-00000467 22/02/2018	3., (b), (iii)	For the Contractor's Activities related to the Works, the Contractor must: use the IS Rating Scheme credit weightings in accordance with 'Draft ISCA Weightings Assessment – Central Station'; and	Process Requirement	use the IS Rating Scheme credit weightings in accordance with 'Draft ISCA Weightings Assessment – Central Station'; and	Designation	SV/18	Pariandorpart	Errantial	The IS Rating scheme credit weightings assessment has been submitted to ISC and verified. LOR confirm that the 'Draft Weightings Assessment – Central Station' was used in a workshop session with ISC to develop the Central Specific Weightings assessment. Weightings are included in the ISC Score Card.	CLOSED	Compliant	Compliant	Closed - Design stage requirement	NA	NA
CSM-REQ-015216	MR-Sy SM-17-00000467 22/02/2018	3., (b), (iv)	For the Contractor's Activities related to the Works, the Contractor must: (iv) use the "Drift ISCA Base Case Assumptions - Central Station' provided by the Principal's Representative to develop Base Case Footprints for relevant IS Rating Scheme credits.	Process Requirement	(iv) use the 'Draft ISCA Base Case Assumptions — Central Station' provided by the Principal's Representative to develop Base Case Footprints for relevant IS Rating Scheme credity	DesignImplementation	SV/IR	Parinudorpact	Errential	LOR has reviewed the Base case assumptions and has tested new assumptions through modelling against the requirements of MAT1, ENt1, and WAT1. Where applicable the TRXW Verified Base Case assumptions were included in the CSM Base Case submitted to ISC. The verified base case has been submitted to Sydney Metro.	OPEN	Missing evidence / overdue	Missing evidence / overdue	Please provide base case Submit BC via TB	On track	On track
CSM-REQ-015217	MR-Sy SM-17-00000467 22/02/2018	3., (c)	The rating scores under the IS Rating Scheme must be verified by Infrastructure Sustainability Council of Australia verifiers in accordance with the IS Rating Scheme process using the IS Rating Scheme tool version 1.2.	Process Requirement	The rating scores under the IS Rating Scheme must be verified by Infrastructure Sustainability Council of Australia verifiers in accordance with the IS Rating Scheme process using the IS Rating Scheme tool version 1.2.	In all and the last	SV/IB		Ferential	LOR confirm it will assess the CSM Is Rating and submit to ISC for verification. The LOR austainability manager is an ISC assessor (IS Accredited Prefereional). IS Rating Certification will be provided to the principles representative for design and as built ratings.	OPEN	Compliant	Compliant	Close out after the As-Built rating verification	On track	On track
CSM-REQ-015218	MR-Sy SM-17-00000467	3., (d)	For the Contractor's Activities related to the Works, the Contractor must:	Information		Implementation	SY / LK	Inspect	Essential	For information only	CLOSED	NA	NA	For information only	NA	NA
CSM-REQ-015219	MR-Sy SM-17-00000467 22/02/2018	3., (d), (i)	For the Contractor's Activities related to the Works, the Contractor must: register the project with the Green Building Council of Australia (GBCA);	Process Requirement	register the project with the Green Building Council of Australia (GBCA);	Implementation	SV / I B	Inspect	Ecceptial	LOR confirm that the project is registered with the GBCA Green Star - Custom (Sydney Metro) rating tool	CLOSED	Compliant	Compliant	LOR confirm that the project is registered with the GBCA Green Star - Custom (Sydney Metro) rating tool	Compliant	Compliant
CSM-REQ-015220	MR-Sy SM-17-00000467 22/02/2018	3., (d), (ii)	For the Contractor's Activities related to the Works, the Contractor must: use the Green Star Design & As Built Rating Tool (GSDABRT) to calculate the 'Design' and 'As Built' rating scores;	Process Requirement	use the Green Star Design & As Built Rating Tool (GSDABRT) to calculate the 'Design' and 'As Built' rating scores;					LOR confirm that the project is registered with the GRICA Green Star - Custons (Sydney Metro) rating tool and that it will use the Green Star Design & As Bullt Rating (Sol (SSCABART) to calculate the "Design" and "As Bull" rating scores. Score card attached as Appendix C of the Sept 2021-March 2022 Biannual report.	OPEN	Compliant	Compliant	LOR confirm that the project is registered with the GRCA Green Star - Custom (Sydney Metro) rating tool and that it will use the Green Star Design 8.45 Built Rating Tool (GSDABRT) to calculate the 'Design' and 'As Built' rating scores. Soor earl attached as Appendix C of the Sept 2021- March 2022 Biannual report. Close cout after the A-Built rating verification	On track	On track
CSM-REQ-015221	MR-Sy SM-17-00000467 22/02/2018	3., (d), (iii)	For the Contractor's Activities related to the Works, the Contractor must: achieve a GSDABRT 'Design Review' rating of at least 5 stars for the design of the Works; and	Process Requirement	achieve a GSDABRT 'Design Review' rating of at least 5 stars for the design of the Works; and	DesignImplementation DesignImplementation	SY	ReviewInspect ReviewInspect	Essential Essential	6 stars achieved and verified in May 2021 (refer to Section 4). The submission was transmitted on Teambinder SMCSWCSM-LOR-TX-005067 to the principal's representative in September 2021.	CLOSED	Compliant	Compliant	NA to an As-Built Rating	NA	NA.
CSM-REQ-015222	MR-Sy SM-17-00000467 22/02/2018	3., (d), (iv)	For the Contractor's Activities related to the Works, the Contractor must: achieve a GSDABRT 'As Built' rating of at least 5 stars for the delivery of the Works.	Process Requirement	achieve a GSDABRT 'As Built' rating of at least 5 stars for the delivery of the Works.	DesignImplementation	SY	ReviewInspect	Essential	LOR are targeting 6 stars for CSM - scorecard at Appendix C of the Sept 2021-March 2022 Blannual report shows the credit pathways to 6 stars		NA	NA	Provide verified score	On track	On track
CSM-REQ-015223	MR-Sy SM-17-00000467 22/02/2018	3., (e)	The GSDABRT rating scores must be verified by the GBCA in accordance with the Green Star Rating System.	Process Requirement	The GSDABRT rating scores must be verified by the GBCA in accordance with the Green Star		0///0			LOR confirm it will assess the CSM GSDABR and submit to GBCA for verification.	OPEN	Compliant	Compliant	LOR confirm it will assess the CSM GSDABR and submit to GBCA for verification.	On track	On track
CSM-REQ-015224	MR-Sy SM-17-00000467 22/02/2018	3., (f)	The sustainability objectives and requirements described in the Contract must be allowed for and addressed in:	Information	Rating System.	Implementation	SY/LK	inspect	Essential	For information only	CLOSED	NA	NA	For information only	NA	NA NA
CSM-REQ-015225	MR-Sy SM-17-00000467 22/02/2018	3., (f), (i)		Process Requirement	design briefings for all personnel involved in the preparation of Design Documentation;					Lead designer included sustainability professionals within the design team to allow for integration of sustainability in reparation of design documentation. Face to the oppreciat induction included sustainability content. The colline project induction includes sustainability content in line with the Green SEAT contractor Education invosation challenge. The sustainability side of the online induction have been sent to the principal's representative as a Management Review action.	OPEN & ONGOING	On track	On track	All suppliers: Send induction slides via teambinder and reference here & description of who does the induction Sustainability professionals integrated into the design team rather than design briefings held. Can this be closed for both phases once evidence is provided -10°C Isunch session & sample meeting minutes, letter of 10°C Isunch session & sample meeting minutes, letter of	On track	On track
CSM-REQ-015226	MR-Sy SM-17-00000467	3., (f), (ii)	The sustainability objectives and requirements described in the Contract must be	Process	the Design Documentation;	Design	SY	Review	Essential	AGJV included relevant sections to applicable Design Reports where sustainability criteria had to be	CLOSED	Compliant	Compliant	scope for GSAP (and ISAP) signed off. NA to an As-Built Rating	NA	NA.
CSM-REQ-015227	22/02/2018 MR-Sy SM-17-00000467 22/02/2018	3., (f), (iii)	allowed for and addressed in: the Design Documentation; The sustainability objectives and requirements described in the Contract must be allowed for and addressed in: site inductions for all of the Contractor's personnel and Subcontractor's personnel engaged in the Contractor's Activities; and	Process Requirement	site inductions for all of the Contractor's personnel and Subcontractor's personnel engaged in the Contractor's Activities; and	Design	SY	Review	Essential	addressed Slides provided via teambinder and reference here & description of who does the induction	OPEN & ONGOING	On track	On track	Slides provided via teambinder and reference here & description of who does the induction	On track	On track
CSM-REQ-015228	MR-Sy SM-17-00000467 22/02/2018	3., (f), (iv)	The sustainability objectives and requirements described in the Contract must be allowed for and addressed in: Management Plans for the management, coordination and delivery of the Contractor's Activities.	Process Requirement	Management Plans for the management, coordination and delivery of the Contractor's Activities.	DesignImplementation DesignImplementation	SY	ReviewInspect ReviewInspect	Essential Essential	Sustainability Management PlanSMCSWSMC-LOR-SMC-SU-PLN-000003 is cross referenced with all applicable management plans	OPEN & ONGOING	Compliant	Compliant	Sustainability Management PlanSMCSWSMC-LOR-SMC-SU- PLN-000003 gets upreved every 6 months during the construction/As-Built phase of the project	On track	On track
CSM-REQ-015229	MR-Sy SM-17-00000467 22/02/2018	3., (g)	The Contractor must also:	Information						For information only	CLOSED	NA	NA	For information only	NA	NA .
CSM-REQ-015230	MR-Sy SM-17-00000467 22/02/2018	3., (g), (i)	The Contractor must also: participate in Sustainability Forums, hosted by the Principal's Representative on a regular (at least monthly) basis and present progress updates, sustainability performance information and sustainability lessons learned and provide other information as requested;	Process Requirement	participate in Sustainability Forums, hosted by the Principal's Representative on a regular (at least monthly) basis and present progress updates, sustainability performance information and sustainability lessons learned					A member of the LOR sustainability team has been attending these forum for the duration of the project- Meeting invites can be provided to confirm this statement	OPEN & ONGOING	On track	On track	A member of the LOR sustainability team has been attending these forum for the duration of the project - Meeting invites can be provided to confirm this statement	On track	On track

CSM-REQ-015231	MR-Sy SM-17-00000467 22/02/2018	3., (g), (ii)	The Contractor must also: develop, implement, maintain and submit to the Principal's Representative for review in accordance with the Contract, a Sustainability Assurance Framework to identify and track compliance with the	Process Requirement	develop, implement, maintain and submit to the Principal's Representative for review in accordance with the Contract, a Sustainability					This document acts as the Sustainability Assurance Framework and is progressively close out during the project.	OPEN & ONGOING	Compliant	Compliant	This document acts as the Sustainability Assurance Framework and is progressively close out during the project.	Compliant	Compliant
			sustainability requirements defined in the Contract; and		Assurance Framework to identify and track compliance with the sustainability requirements defined in the Contract; and											
CSM-REQ-015232	MR-Sy SM-17-00000467 22/02/2018	3., (g), (iii)	The Contractor must also: prepare and submit each year, by 31 August to the Principal's Representative for review in accordance with the Contract, an annual sustainability report which demonstrate the Contractor's performance in economic, 1004, environmental and governance areas over the last Financial fear.	Process Requirement	prepare and submit each year, by 31 August to the Principal's Representative for review in accordance with the Contract, an annual sustainability report which demonstrates the Contractor's performance in economic, social, environmental and governance areas over the last Financial Year.	DesignImplementation DesignImplementation	SY/IR	Reviewinspect	Essential	-1. SMCSWCSM-LOR SMC-SU-REP-000007 August 2019 -2. SMCSWCSM-LOR-SMC-SU-REP-000007 August 2020	CLOSED	Compliant	Compliant	3. SMCSWCSM-LDR-SMC-SU-REP-000007 ft August 2021 -4. SMCSWCSM-LDR-SMC-SU-REP-000007 ft August 2022 -5. SMCSWCSM-LDR-SMC-SU-REP-000007 ft August 2023	On track	On track
CSM-REQ-015233	MR-Sy SM-17-00000467	4	Climate Change	Heading		Designinipienentauon	317 LK	Keviewiispect	Essential	Heading only	CLOSED	NA	NA	Heading only	NA	NA
CSM-REQ-015234	22/02/2018 MR-Sy SM-17-00000467	4.	The Contractor must:	Information						For information only	CLOSED	NA	NA	For information only	NA	NA
CSM-REQ-015235	22/02/2018 MR-Sy SM-17-00000467 22/02/2018	4., (a)	The Contractor must: identify and describe in the Design Documentation, and implement climate change initiatives which demonstrate that the Works have been designed to combat and be resilient to the effects of climate change during	Process Requirement	identify and describe in the Design Documentation, and implement climate change initiatives which demonstrate that the					Climate change initiatives have been identified and described in all relevant design packs during design stages 1, 2 and 3The Stage 3 Climate Change Impact Assessment Report (CCIAR) (28th February 2020) (SMCSWCKS-DV-NC-OR ERE-POOD014) (as referred to in MR-T) has been reviewed by Sydney Metro as	OPEN & ONGOING	On track	On track	This might only be a desing applicable requirement?	On track	On track
			each Design Stage referred to in MR-T;		Works have been designed to combat and be resilient to the effects of climate change during each Design Stage referred to in MR-T;	Design	SY	Review	Essential	SMCSWCSM-LOR-SMC-EN-REP-002156 in March 2020. DIV to respond to open comments. Adaptations identified in the Climate Change Impact Assessment Report has been implemented where applicable — mainly design related.						
CSM-REQ-015236	22/02/2018	4., (b)	The Contractor must: undertake climate change risk assessments in respect of the Works in accordance with the guidance and requirements included in the TIMOV Climate Risk Assessment Guidelines and the Infrastructure Sustainability Council Australia's 15 Resign Col Technical Manual VI 2 - Climate Change Adaptation of Australia's 15 Resign Col Technical Manual VI 2 - Climate Change Adaptation which was a support of the Company of the Company of the Council Cou	Process Requirement	Undertake dimate change risk assessments in respect of the Works in accordance with the guidance and requirements included in the IROW Climate Risk Assessment Guidelines (Australia S is Barling Tool Technical Manual V12 - Climate Change Adaptation Chapter. The risk assessments must be used as an input to inform the Design Documentation submitted to the Principal's Representative at Design Stage 1;	Design	SY	Review	Essential	Climate Change risk assessments were executed during dissips stage? 1 using the guidance stated in this requirement. Risk assessments were presented in the SMCSWCMS-DN-VCC 04FE-RN-OLOG Climate Change Impact Assessment Report issued to Sydrey Metro as part of Design Rack 1100 – Sustainability Works at Design Stage 1 and SMCSWCSM-LOR-TX-OLOGOS in March 2020 for Design Stage 3.	CLOSED	Compliant	Compliant	N/A to the As-Bull: Rating	NA	NA.
CSM-REQ-015237	MR-Sy SM-17-00000467 22/02/2018	4., (c)	The Contractor must: identify all necessary adaptation measures that comprehensively address risks classified as "extreme" and "high" during the design life of the Works using AS/NZS ISO 31000:2009 Risk management – Principles and guidelines;	Process Requirement	identify all necessary adaptation measures that comprehensively address risks dassified as "extreme" and "high" during the design life of the Works using AS/NZS ISO 31000-2009 Risk management – Principles and guidelines;	Design		Review	Economical	Risk assessments were executed (See MR Sy 4., (b) above) and no risks classified as "extreme" or "high" were identified.	CLOSED	Compliant	Compliant	N/A - No high/extreme risks identified	NA	NA.
CSM-REQ-015238		4., (d)	The Contractor must: implement measures to mitigate:	Information		Design	31	neview	Essential	For information only	CLOSED	NA.	NA	For information only	NA	NA.
CSM-REQ-015239	22/02/2018 MR-Sy SM-17-00000467 22/02/2018	4., (d), (i)	The Contractor must: implement measures to mitigate: all climate change risks classified as "extreme" and "high" in clause 4 (b) above; and	Process Requirement	all climate change risks classified as "extreme" and "high" in clause 4 (b) above; and	Design	SY	Review	Essential	Risk assessments were executed (See MR-Sy 4., (b) above) and no risks classified as "extreme" or "high" were identified.	CLOSED	Compliant	Compliant	N/A - No high/extreme risks identified	NA	NA
CSM-REQ-015240	MR-Sy SM-17-00000467 22/02/2018	4., (d), (ii)	The Contractor must: implement measures to mitigate: implement measures to mitigate at least 25% of all climate change risks classified as "medium" in clause 4 (b) above.	Process Requirement	implement measures to mitigate at least 25% of all climate change risks classified as "medium"" in clause 4 (b) above.	Design	CV.	Paviane	Errantial	The Stage 3 Climate Change Impact Assessment Report (SMCSWCSM-DIV-NC-00-REP-EN-000104) (as referred to in MR-T) has been reviewed by Sydney Metro. It summarises that 68% of the medium risks have identified adaptation actions, with almost 40% of medium risks treated to the extent that their residual risk is reduced to low.	OPEN & ONGOING	Compliant	Compliant	As Built CCRA required to confirm implementation AGJV to update	On track	On track
CSM-REQ-015241	MR-Sy SM-17-0000467 22/02/2018	4., (e)	The Contractor must implement measures to miligate sensure that the climate change popicitions and guidance which the Contractor uses to undergrib the climate change risk assessment in clause 4 (b) above are the most recent available and are consistent with industry best practice, including NWRISRT-PBA-SRT-SU-REP-000022 Climate Resilience Report.	Process Requirement	ensure that the climate change projections and guidance which the Contractor uses to underpin the climate change risk assessment in clause 4 (b) above are the most recent available and are consistent with industry best practice, including NWMLSRT-PBA-SRT-SU-REP- 000022 Climate Resilience Report.	Decima		Berieu	Formatical	Projections used in preparation of the climate change risk assessment were based on projections derived nom he PCC fifth assessment proper, which is the nost current scalable at the time of politication. The approach to preparation of the climate change risk assessments is considered best indistry practice to the center that it can be defined. Discussion on methods and the approach to projection selection is validable in sections 3 and 4.3 of the Climate Change impact Assessment Report. Submitted Af Stage 1, Stage 2, Stage 3 and issued as part of Design Prick 1110 – Sunainability Works.	CLOSED	Compliant	Compliant	N/A to the As-Built	NA	NA .
CSM-REQ-015242	MR-Sy SM-17-00000467	5	Carbon and Energy Management	Heading		Design	31	neview	Essential	Heading only	CLOSED	NA.	NA	Heading only	NA	NA.
CSM-REQ-015243	22/02/2018 MR-Sy SM-17-00000467	5.,	The Contractor must:	Heading						Heading only	CLOSED	NA	NA	Heading only	NA	NA
CSM-REQ-015244	22/02/2018 MR-5y 5M-17-00000467 22/02/2018	S., (a)	The Contractor most, undertake promiseurs gas assessment and reporting which cover the Work's impropersy Work and Consections Reviews, in sociedance with the requirements of TROWS carbon Satinate and Reporting Tool (SEIXT). All reports required to be provided under the CRIT must be provided Reporting Tool (SEIXT) and Principal's Representative for review by the Principal's Representative in accordance with the Contract;	Process Requirement	undertake greenhouse gas assessment and reporting which covers the, Works, Temporary Works and Contractors Activities, in accordance with the requirements of TRISWS*. Cachon Estimate and Reporting Tool (ERT). All reports required to be produced under the EST must be provided to the Principal's Representative for review by the Principal's Representative for review by the Vincipal's Representative in accordance with the Contract;	Designimplementation	SY/LR	ReviewInspect	Essential	Generations gas inscriment and reporting was understate for design stage. I and issued as part of Design State 1.119 - Controllably Wards. The Office foodings client States (present groups are completed 1.00%) destated design) and including construction plans up to December 2021, was provided to the principal's representative in March 2022 with an informal copy yas provided on 18th March 2022 to PL and IVV at Sydney Metro. Teambinder correspondence to follow.		Compliant	Compliant	Teambinder numbers for all the CERT that has been submitted	On track	On track
CSM-REQ-015245	MR-Sy 5M-17-00000467 22/02/2018	S., (b)	The Contractor must demonstrate, using the CERT, that the Contractor has achieved at least 20% modulors in greatouse gas emissions sociated with the Contractors Activities, measured against the CERT base Case generated using the CERT, during Position Rage 2 and again prior to the Date of Construction Completion of the final Portion to reach Construction Completion;	Process Requirement	demonstrate, using the CERT, that the Contractor has achieved at least a 20% reduction in greenhouse gas emissions associated with the Contractors Activities, measured against the CERT daing Design Stage generated using the CERT, during Design Stage 3 and again prior to the Date of Construction Completion of the final Portion to reach Construction Completion;	Designimplementation	SY/LR	ReviewInspect	Essential	The CERT including Critical Design Review (CDR) (prefers to completed (DDO)) detailed design) and including construction phase up to December 2021 was provided to the principal's representative in March 2022 with an informat copy was provided on 18th March 2022 to PL and I/W at Sydney Metro. Teambinder correspondence to follow. The percentage reduction is summarised in Section 7 1.12, Biannual Sustainability Report SMCSWCSM-LOR-SMC-SU-REP-000005.	OPEN & ONGOING	Compliant	Compliant	Report on the last CRT submitted to see if the 20% reduction has been included	On track	On track
CSM-REQ-015.246	N8-9; S8-17-00000467 22/02/2018		The Contractor must: ensure, and provide evidence to the Principal's Regreserable what as a minimum, 250 or the total electricity legis used in carrying out the Contractor's Activities is being offset through either one or a combination of the following:	riocess	ensure, and provide evidence to the Principal's Representable that, as a minimum, 27% of the total electricity being used in carrying of the total electricity being used in carrying of the total electricity being used in carrying of the contractor's Artificial Section (1997) and the contractor's Artificial Section (1997) and the contractor's Artificial Section (1997) and the contractor (1997) and the cont	Implementation	57/18	Inspect	Essential	Offsets have not yet been procured. Power was connected as of August 2020 to the construction site. Beactricity is sourced will RNMS ylighny Trans. A purchasing from the developed after a projection of electricity usage has been developed (Section 6.3). A construction offset could be applied to grid electricity to assist the that chimewhere of the 20% greenbourse gas reduction larget. The purchase of nerewards energy through an Aucroficted Remeable Energy Supplier was made possible when Sydrey Trains made any generate with Swory Inform size of Energy Supplier was made possible when Sydrey Trains made any generate with Swory Inform size of Energy for the purchase of tage-scale generation certification. Trains LGG purchase. Therefore the project can confirm that from 1 July 2021, in alignment with Sydrey Trains, Confirmed that from July 2021 the mergy supplier of as Large-scale generation certification, therefore 200% of electricity supplied purchased for size in remembly sourced through an Accredited Remembble Energy spigler. As of February 2021, 1292,204 MW or fermalished certificity purchased by The Project to date.	OPEN & ONGOING	[and]	ina.	Offsets have not yet been procured. Power was connected a of adaptat 2001 to the construction size. Between'they is sourced via 1850W System; Yrams. A purchasing plan will be developed via 1860W System; Yrams. A purchasing plan will be developed after a projection of electricity usage has been developed. Section 6.3.1, A construction offset croud the applies to developed of the process of the process of the program of the process of the process of the program of the process of the	On track	On track

CSM-REQ-015247								,				-	,		1	
	MR-Sy SM-17-00000467 22/02/2018	S., (c), (i)	The Contractor must: ensure, and provide evidence to the Principal's Representative that, as a minimum, 25% of the total electricity being used in carrying out the Contractor's Activities is being offset through either one or a combination of the following: purchase of Australian Carbon Offset Credits; and	Process Requirement	purchase of Australian Carbon Offset Credits; and	In all and a state of	cv/In	larana d	Secondary	Same as for requirement CSM-REQ-015246 5., (c)	OPEN & ONGOING	NA	NA	Same as for requirement CSM-REQ-015246 5., (c)	On track	On track
CSM-REQ-015248	MR-Sy SM-17-00000467 22/02/2018	5., (c), (ii)	The Contractor must: ensure, and provide evidence to the Principal's Representative that, as a minimum, 25% of the total electricity being used in carrying out the Contractor's Activities is being offset through either one or a combination of the following: purchase of renewable energy from an Accredited	Process Requirement	purchase of renewable energy from an Accredited Renewable Energy Supplier.	Imperientation	31/ LK	inspect	essential	Same as for requirement CSM-REQ-015246 5., (c)	OPEN & ONGOING	NA	NA	Same as for requirement CSM-REQ-015246 5., (c)	On track	On track
CSM-REQ-015249	MR-Sy SM-17-00000467 22/02/2018	S., (d)	Renewable Energy Supplier. develop and implement Green Travel Plans for the personnel engaged in delivery of the Contractor's Activities.	Process Requirement	develop and implement Green Travel Plans for the personnel engaged in delivery of the Contractor's Activities.	Implementation	SY/LR	Inspect	Essential	Green Travel Plan Drafted Feb 2019 & Updated March 2022 SMCSWCSM+LOR-SMC-SU-PLN-015665.01.INF.01.02.doc	CLOSED	Compliant	Compliant	Green Travel Plan Drafted Feb 2019 & Updated March 2022 SMCSWCSM-LOR-SMC-SU-PLN-015665.01.INF.01.02.doc	Compliant	Compliant
CSM-REQ-015250	MR-Sy SM-17-00000467		6 Resources	Heading		Implementation	SY/LR	Inspect	Essential	Heading only	CLOSED	NA	NA	Heading only	NA	NA .
CSM-REQ-015251	22/02/2018 MR-Sy SM-17-00000467	6.1.	Water Efficiency	Heading	+					Heading only	CLOSED	NA.	NA	Heading only	NA.	NA NA
CSM-REQ-015252	22/02/2018 MR-Sy SM-17-00000467	6.1 (The)	The Contractor must:	Information						For information only	CLOSED			For information only		
	22/02/2018			Information								NA .	NA	,	NA .	NA .
CSM-REQ-015253	MR-Sy SM-17-00000467 22/02/2018	6.1., (a)	The Contractor must undertake a water balance study and submit it to the Principal's Representate (prior to the commencement of construction word) that identifies the source, uses and estimated quantities of potable and non-potable water which will be either created or used in the performance of the Contractor's Activities;	Process Requirement	undertake a water balance study and submit it to the Principal's Representative (prior to the commencement of construction work) that identifies the sources, uses and estimated quantifies of potable and non-potable water which will be either created or used in the performance of the Contractor's Activities;		SV/10		Secondial	The revised construction phase water balance (Appendix 6 of the Sustainability Management Plan) addresses the potale and non-potable blands, and accounts free potable use where no encomonal socially viable alternative is available, for instance where a mains water feed is available for dust suppression against a "trucked to site" non-potable water solution	CLOSED /ty/	Compliant	Compliant	The revised construction phase water balance (Appendix 6 the Sustainability Managemen Flam) addresses the polar blad and non-potable balance, and accounts for the potable use where no economically socially value alternative is available, for instance where a mains water feed is available for dust suppression against a "trucked to site" non-potable water solution	F Compliant	Compliant
CSM-REQ-015254	MR-Sy SM-17-00000467	6.1., (b)	The Contractor must: ensure that the water balance study in clause 6.1 (a) above	Process	ensure that the water balance study in clause	Implementation	SY/LK	inspect	Essential		CLOSED	Compliant	Compliant	See water balance as noted in MR-Sy 6.1., (a) above. The	Compliant	Compliant
CSM-REQ-015255	22/02/2018		identifies initiatives to reduce water demand and use non-potable water, which must be adopted in order to achieve the targets set out in clause 9; and	Requirement	6.1 (a) above identifies initiatives to reduce water demand and use one) optable water, which must be adopted in order to achieve the targets set out in clause 9°, and	Implementation	SY/LR	Inspect	Essential	See water balance as noted in MR-5y 6.1., (a) above. The water balance identified non-potable water us for the following dependent on non-potable water variability costs: uite compound soliest, washdown, concrete curing, concrete curing, concrete rund washout and wheelwash. Distantiability Management Rain, Section 4.3 yeldection in water demand included in the worter balance nuclear for the real policy of the properties of	OPEN & ONGOING			water balance identified one potable water use for the following dependent on one potable water use for the following dependent on one potable water valiability on its site compound to lets, washdown, concrete cutting, concrete trust, decided in configurations, and the configuration of the configuratio	y d	
CSM-REQ-015255	MR-Sy SM-17-00000467 22/02/2018	6.1., (c)	The Contractor must meter the water supplied for the Contractor's Activities from both recycled water hereinds and potable sources in order to report against the targets set out in clause 9 below.	Requirement	meter the water supplied for the Contractor's Activities from both recycled water networks and potable sources in order to report against the targets set out in clause 9 below.		0.440			Water cart supply through LDM was reported through to CSM monthly reporting process, a potable bourse. Nater carts now fill ast metered used ten or site. CSM site offices is currently metered for potable and non-potable use. LSM site offices is currently metered for potable and non-potable use. Metero box. Metero box. discource folice! -Satern Sistembar Railway (BOH build) -Sate office. -Satern Sistembar Railway (BOH build) -Sate office. -Satern Sistembar Railway (BOH build)	OPEN & ONGOING	NA .	NA .	Water use register and ISC model	On track	On track
CSM-REQ-015256	MR-Sy SM-17-00000467	6.2.	Materials	Heading		Implementation	SY/LK	inspect	Essential	- Kainwater tanks are metered. Heading only	CLOSED	NA .	NA	Heading only	NA	NA .
CSM-REQ-015257	22/02/2018 MR-Sy SM-17-00000467	6.2., (The)	The Contractor must:	Heading						Heading only	CLOSED	NA .	NA	Heading only	NA	NA NA
CSM-REQ-015258	22/02/2018 MR-Sy SM-17-00000467 22/02/2018	6.2., (a)	The Contractor must: include evidence in its Design Stage 1, Design Documentation of how materials use has been minimised through materials avoidance, reduction and innovative design;	Process Requirement	include evidence in its Design Stage 1, Design Documentation of how materials use has been minimised through materials avoidance, reduction and innovative design;					The Materials impact Report - Design Stage 1 issued as part of Design Pack 1110 – Sustainability Works included evidence of how materials use has been minimised through materials avoidance, reduction and innovative design;	CLOSED	Compliant	Compliant	NA to the As-Built stage	NA	NA NA
CSM-REQ-015259	MR-Sy SM-17-00000467 22/02/2018	6.2., (b)	The Contractor must: undertake life-cycle assessments in accordance with ISO 14044-2006 to assist in selection of the most appropriate low-impact materials for the Contractor's Activities, Works and Temporary Works including (as a minimum):	Process r Requirement	undertake life-cycle assessments in accordance with ISO 14044:2006 to assist in selection of the most appropriate low-impact materials for the Contractor's Activities, Works and Temporary Works including (as a minimum):	Design	SY	Review	Essential	Use cycle analysis of materials has been ongoing the results of which were used to inform materials telection during design. This was documented in the Materials Impact Report - Design Stage 1 is used as part of Design Pack 1110 – Sostainability Works.	CLOSED	Compliant	Compliant	NA to the As-Built stage	NA	NA NA
CSM-REQ-015260	MR-Sy SM-17-00000467 22/02/2018	6.2., (b), (i)	The Contractor must: undertake life-cycle assessments in accordance with ISO 14044-2006 to assist in selection of the most appropriate low-impact materials for the Contractor's Activities, Works and Temporary Works including (as a minimum): concrete;	Process r Requirement	concrete;	Design	sy	Pavian	Errential	As for requirement 6.2, (b)	CLOSED	Compliant	Compliant	NA to the As-Built stage	NA	NA
CSM-REQ-015261	MR-Sy SM-17-00000467 22/02/2018	6.2., (b), (ii)	The Contractor must: undertake life-cycle assessments in accordance with ISO 140442006 to assist in selection of the most appropriate low-impact materials for the Contractor's Activities, Works and Temporary Works including (as a minimum): steel;	Process r Requirement	steel;	Design	SY	Review	Essential	As for requirement 6.2, (b)	CLOSED	Compliant	Compliant	NA to the As-Built stage	NA	NA
CSM-REQ-015262	MR-Sy SM-17-00000467 22/02/2018	6.2., (b), (iii)		Process r Requirement	architectural tunnel lining;	Design	sy	Pavian	Errential	As for requirement 6.2, (b)	CLOSED	Compliant	Compliant	NA to the As-Built stage	NA	NA
CSM-REQ-015263	MR-Sy SM-17-00000467 22/02/2018	6.2., (b), (iv)	The Contractor must: undertake life-cycle assessments in accordance with ISO 14044-2006 to assist in selection of the most appropriate low-impact materials for the Contractor's Activities, Works and Temporary Works including (as a minimum): Rooring:	Process r Requirement	flooring;	Design	sy	Pavian	Errential	As for requirement 6.2, (b)	CLOSED	Compliant	Compliant	NA to the As-Built stage	NA	NA
CSM-REQ-015264	MR-Sy SM-17-00000467 22/02/2018	6.2., (b), (v)	The Contractor must: undertake life-cycle assessments in accordance with ISO 14044-2006 to assist in selection of the most appropriate low-impact materials for the Contractor's Activities, Works and Temporary Works including (as a minimum): wall lining; and	Process r Requirement	wall lining; and	Design	SY	Review	Essential	As for requirement 6.2, (b)	CLOSED	Compliant	Compliant	NA to the As-Built stage	NA	NA
CSM-REQ-015265	MR-Sy SM-17-00000467 22/02/2018	6.2., (b), (vi)	The Contractor must: undertake life-cycle assessments in accordance with ISO 14044-2006 to assist in selection of the most appropriate low-impact materials for the Contractor's Activities, Works and Temporary Works including (as a minimum): glazing.	Process r Requirement	glazing.	Design	SY	Review	Essential	As for requirement 6.2, (b)	CLOSED	Compliant	Compliant	NA to the As-Built stage	NA	NA
CSM-REQ-015266	MR-Sy SM-17-00000467	6.2., (c)	The Contractor must: ensure that the life-cycle assessments in clause 6.2 (b) are undertaken before the completion of Design Stage 1, and the results of the life cycle assessments are included in its Design Documentation for Design Stage 1;	Process Requirement	ensure that the life-cycle assessments in clause 6.2 (b) are undertaken before the completion of Design Stage 1, and the results					This was documented in the Materials Impact Report - Design Stage 1 issued as part of Design Pack 111i - Sustainability Works.	0 CLOSED	Compliant	Compliant	NA to the As-Built stage	NA	NA
CSM-REQ-015267	22/02/2018 MR-Sy SM-17-00000467	6.2., (d)	The Contractor must: maximise the use of recycled steel, in the Works and	-	of the life cycle assessments are included in its Design Documentation for Design Stage 1; maximise the use of recycled steel, in the	Design	SY	Review	Essential	LOR has been supplied by mostly infrabuild steel on the CSM project. Infrabuild are arguably the leaders				LOR has been supplied by mostly Infrabuild steel on the CSM		

CSM-REQ-015268	MR-Sy SM-17-0000467 6.2., (e) 22/02/2018	The Contractor must: use low volatile organic compounds (VOC) paints, finishes, sealants and adhesives and low emission formaldehyde composite wood products in the Works and the Temporary Works;	Process Requirement	use low volatile organic compounds (VOC) paints, finishes, sealants and adhesives and low emission formaldehyde composite wood products in the Works and the Temporary Works;					The requirement is currently delivered through the Materials Management Plan. The requirement is also included within procurement documentation to ensure that suppliers of materials provide materials consistent with the requirement. The requirement is incorporated into Sectifications and reflected in the consistent with the requirement. The requirement is incorporated in Sectifications and reflected in the requirements included in supplier contracts including confirmation letters and have included requirements to the impaction and sets gain process. This is being tracted on register utilities the monthly sub-	OPEN & ONGOING	Compliant	Compliant	evidence for as built can be GS verified score for GS areas & inspections and corrective action processes for Project wide dose out - agreed method ITPs from quality NCRs	On track	On track
					Implementation	SY/LR	Inspect	Essential	contractor reports data.				Show consistency of subcontractors product use project wid can do a showcase and have a letter "SM have sighted this evidence"	e	
CSM-REQ-015269	MR-Sy SM-17-00000467 6.2., (f) 22/02/2018	The Contractor must: ensure that all surface coatings used in the Works comply with the VOC Limits defined in the Australian Paint Approval Scheme;	Process Requirement	ensure that all surface coatings used in the Works comply with the VOC Limits defined in the Australian Paint Approval Scheme;					The requirement is currently delivered through the Materials Management Plan. The requirement is also included within procurement documentation to ensure that supplies of materials protein demanded consistent with the requirement is incorporated into Specifications and reflected in the Materials & Finishes schedule To close out the specific requirements. If CNM have developed report requirements founded in supplier contracts including confirmation letters and have included requirements.	OPEN & ONGOING	Compliant	Compliant	evidence for as built can be GS verified score for GS areas & inspections and corrective action processes for Project wide close out - agreed method ITPs from quality	On track	On track
					Implementation	SY/LR	Inspect	Essential	into the inspection and test plan process. This is being tracked in a register utilising the monthly sub- contractor reports data.				NCRs Show consistency of subcontractors product use project wid can do a showcase and have a letter "SM have sighted this evidence"	e	
CSM-REQ-015270	MR-Sy SM-17-00000467 6.2., (g) 22/02/2018	The Contractor must: source the following materials for the Works and Temporary Works in accordance with the following requirements:	Information						For information only	CLOSED	NA	NA	For information only	NA	NA
CSM-REQ-015271	MR-Sy SM-17-00000467 6.2., (g), (i) 22/02/2018	The Contractor must source the following materials for the Works and Genporary Works in accordance with the following requirements: concrete must be sourced from members of the Cement Concrete and Aggregate Australia; or a "similar" international association or organisation by agreement with the Principal's Representative;	Requirement	concrete must be sourced from members of the Cement Concrete and Aggregate Australia; or a "similar" international association or organisation by agreement with the Principal's Representative;	Implementation	SY/CS/ST/LR	Inspect	Essential	The requirement is currently delivered through the Materials Management Plan. The requirement is also included within procurement documentation to ensure that supplies or industrials produce materials consistent with the requirement. The built of project converte is sourced from Cement Concrete and Aggregate Auction Borridge members. Which and Boral-Sh pirecast and Wanger are members of National Precast Concrete Association Australia.		Compliant	Compliant	Please provide and reference certificates in biannual / annual reports provide certificates for material steel mills and associated processors / fabricators could be "SM have sighted the evidence" approach AND/OR register of suppliers/makers against tick box for each certificate		On track
CSM-REQ-015272	MR-Sy SM-17-00000467 6.2., (g), (ii) 22/02/2018	The Contractor must source the following materials for the Works and Cemporary Works in accordance with the following requirements: telem stub sourced from suppliers that are certified under the Australian Certification Authority for Reinforcing and Structural Steet or a "Gemonstrated equivalent" approved association or organisation, where agreed by the Principal's Representative;	Requirement	steel must be sourced from suppliers that are certified under the Australian Certification Authority for Reinforcing and Structural Steels or a "demonstrated equivalent" approved association or organisation, where agreed by the Principal's Representative;	Implementation	SY/CS/ST/LR	Inspect	Essential	The requirement is currently delivered through the Materials Management Pan. The requirement is also included within procurement documentation to ceasure that supplies of inductive procurement of consistent with the requirement. To dose out the specific requirements CSM have built the requirements into the inspection and text plan process.		Compliant	Compliant	Please provide and reference certificates in biannual / annuar reports provide certificates for material steel mills and associated processors / fabricators could be "SM have sighted the evidence" approach AND/OR register of suppliers/makers against tick box for each certificate		On track
CSM-REQ-015273	MR-Sy SM-17-00000467 6.2., (g), (iii) 22/02/2018	The Contractor must: source the following materials for the Works and Temporary Works in accordance with the following requirements: steel must be sourced from	Process	steel must be sourced from steelmakers with an ISO 14001:2015 Environmental					The requirement is currently delivered through the Materials Management Plan. The requirement is also included within procurement documentation to ensure that suppliers of materials provide materials	OPEN & ONGOING	Compliant	Compliant	Please provide and reference certificates in biannual / annual	On track	On track
		steelmakers with an ISO 14001:2015 Environmental management certified Environmental Management System;		management certified Environmental Management System;	Implementation	SY/LR	Inspect	Essential	consistent with the requirement. To close out the specific requirements CSM have built the requirements into the inspection and test plan process.				repuits provide certificates for material steel mills and associated processors / fabricators could be "SM have sighted the evidence" approach AND/OR register of suppliers/makers against tick box for each certificate		
CSM-REQ-015274	MR-Sy SM-17-00000467 6.2., (g), (iv) 22/02/2018	The Contractor must source the following materials for the Works and Emporary Works in accordance with the following requirements: fabricated steel products must be in accordance with AS 51313-2016 Structural Steelework — Fabrication and erection and certified through the National Structural Steelwork Compliance Scheme;	Process Requirement	fabricated steel products must be in accordance with AS 5131:2016 Structural steehwork – Fabrication and erection and certified through the National Structural Steehwork Compliance Scheme;	Implementation	SY/IR	Inspert	Essential	The requirement is currently delivered through the Materials Management Pan. The requirement a lab included within procurement documentation to ensure that supplies or industrials procure materials or consistent with the requirement. To dose out the specific requirements. CSM have built the requirements into the inspection and test plan process.	OPEN & ONGOING	Compliant	Compliant	Please provide and reference certificates in biannual / annus reports provide certificates for material steel mills and associated processors / fabricators could be "SM have sighted the evidence" approach AND/OR register of suppliers/makers against tick box for each certificate	On track	On track
CSM-REQ-015275	Mn Sy 5N+37-00000467 6.2, (g), (v) 22,/02/2018	The Contractor must: source the following materials for the Works and Temporary Works in accordance with the following regiments: at least 600 ky mass of all reinforcing steel has been produced using energy-reducing processes, which include Polymer Injection Technology or its equivalent, in its manufacture;	Process Requirement	at least 60% by mass of all reinforcing steel has been produced using energy-reducing processes, which include Polymer Injection Technology or its equivalent, in its manufacture;					The requirement is currently deliwered through the Materials Management Plan. The requirement a lab included within procurement documentation to ensure that supplies or indentals provide materials to consistent with the requirement. To close out the specific requirements CSM have built the requirement into the inspection and set plan processible sections of the Basiman Beport) Exe Appendix G for certificates). Noted that the biannual report BSR 6 (Mar 22) shows that currently tracking at 64%	OPEN & ONGOING	Compliant	Compliant	The last submitted filamousl report to the client would contain the final percentage	On track	On track
CSM-REQ-015276	MR-Sy SM-17-00000467 6.2., (g), (vi)	The Controller much course the faller in a material: for the Warle and Tomason	Dennes	Polyvinyl chloride must be compliant with the	Implementation	SY/LR	Inspect	Essential	The requirement is currently delivered through the Materials Management Plan. The requirement is also	ODEN & ONCOINC	Compliant	Compliant	Can provide a sample of weekly inspection where products	On track	On track
	22/02/2018	The Contractor must: source the following materials for the Works and Temporary Works in accordance with the following requirements: Polywing/ floride must be compliant with the Green Building Council of Australia Best Practice Guidelines for PVC in the Built Environment; and	Requirement	Green Building Council of Australia Best Practice Guidelines for PVC in the Built Environment; and	Implementation	SY/LR	Inspect	Essential	included within procurement documentation to ensure that suppliers of materials provide materials consistent with the requirement. To close out the specific requirements CSM have built the requirements into the inspection and test plan process Two PVC related MCRs are included in Section 10.3 of the Biannual Report. This is being tracked in a register utilising the monthly sub-contractor reports data.	OPEN & ONGOING	Compilant	Compilant	with PVC was inspected	Ontiack	Oli track
CSM-REQ-015277	MR-9; SM-17-00000467 6.2., (g), (w) 22/02/2018	The Contractor must: source the following materials for the Works and Temporary Works in accordance with the following requirement: timber products must be sourced from one or more of the following:	Process Requirement	timber products must be sourced from one or more of the following:					The requirement is currently deliwered through the Materials Management Plan- The requirement at lab crucked within procurement documentation to ensure that supplies or Materials provide materials consistent with the requirement. To doue out the specific requirements CSM have developed report requirements include in supplier contracts including confirmation letters and have included requirements included in supplier contracts including confirmation letters and have included requirements into the inspection and test plan process. A sustainable timber process has been issued as a sub process to the sustainability management plan. This is being tracked in a register utilising the monthly sub-contractor reports data.	OPEN & ONGOING	Compliant	Compliant	include section in biannousl report & include some evidence conflictates. Show a Publish evidence we have on file for them to note + photos where available	On track	On track
CSM-REQ-015278	MR-Sy SM-17-00000467 6.2., (g), (vii), A	The Contractor must: source the following materials for the Works and Temporary	Process	re-used timber;	Implementation	SY/LR	Inspect	Essential	As for requirement 6.2., (g), (vii)	OPEN & ONGOING	Compliant	Compliant	As for requirement 6.2., (g), (vii)	On track	On track
CSM-REQ-015279	22/02/2018 MR-Sy SM-17-00000467 6.2., (g), (vii), B	Works in accordance with the following requirements: re-used timber; The Contractor must: source the following materials for the Works and Temporary	Requirement	post-consumer recycled timber;	Implementation	SY/LR	Inspect	Essential	As for requirement 6.2., (g), (viii)	OPEN & ONGOING	Compliant	Compliant	As for requirement 6.2., (g), (viii)	On track	On track
CSW-NEQ-013279	22/02/2018	Works in accordance with the following requirements: post-consumer recycled	Requirement	post-consumer recycled unities,	Implementation	SY/LR	Inspect	Eccential	As for requirement 6.2., (g), (vii)	OPEN & UNGUING	Compilant	Comphanic	AS for requirement 6.2., (g), (vii)	Oiltiack	Oiltiack
CSM-REQ-015280	MR-Sy SM-17-0000467 6.2., (g), (vii), C 22/02/2018	The Contractor must: source the following materials for the Works and Temporary Works in accordance with the following requirements: timber suppliers in Australia certified by the Forest Stewardship Council, Australia; or	Process Requirement	timber suppliers in Australia certified by the Forest Stewardship Council, Australia; or	Implementation	SY/LR	Inspect	Essential	As for requirement 6.2., (g), (vii)	OPEN & ONGOING	Compliant	Compliant	As for requirement 6.2., (g), (vii)	On track	On track
CSM-REQ-015281	MR-Sy SM-17-00000467 6.2., (g), (vii), D 22/02/2018	The Contractor must: source the following materials for the Works and Temporary Works in accordance with the following requirements: timber suppliers in Australia, certified under the Program for the Endorsement of Forest Certification.	Process Requirement	timber suppliers in Australia, certified under the Program for the Endorsement of Forest Certification.	Implementation	SV / I B	Inspect	Eccential	As for requirement 6.2., (g), (vii)	OPEN & ONGOING	Compliant	Compliant	As for requirement 6.2., (g), (vii)	On track	On track
CSM-REQ-015282	MR-Sy SM-17-00000467 6.2., (h) 22/02/2018	The Contractor must: record the percentage of steel sourced from Australian manufacturers and make this information available to the Principal's Representative upon request;	Process Requirement	record the percentage of steel sourced from Australian manufacturers and make this information available to the Principal's Representative upon request;	Implementation	SY/LR	Inspect	Essential	This is being captured on a monthly basis through the contractor returns and quality management process. Information is provided when requested.	OPEN & ONGOING	Compliant	Compliant	Ongoing reports in the BSR	On track	On track
CSM-REQ-015283	MR-Sy SM-17-00000467 6.2., (i) 22/02/2018	The Contractor must: identify and implement initiatives to both reduce spoil quantities which will be generated during the performance of the Contractor's Activities and maximise the beneficial reuse of spoil; and	Process Requirement	identify and implement initiatives to both reduce spoil quantities which will be generated during the performance of the Contractor's Activities and maximise the beneficial reuse of spoil; and	DesignImplementation	SY/LR	Reviewinspect	Essential	With respect to the removal and haulage of spoil forms the Metro Bias, this requirement and those below 52, §2.5.4 (p.5.5) where discussed probential tenderers his process; the successful tenderer was procured on this basis. This requirement has been passed to the spoil haulage contractor to ensure that all class spoil removed from the bad disc works in the metro box on the beneficially used on size, spoil removal and reach to being strated by the project and will continue to be reported upon in the project quarterly variedability data region.		Compliant	Compliant	Confirmation on the percentage in the last BSR	On track	On track
CSM-REQ-015284	MR-Sy SM-17-00000467 6.2., (j) 22/02/2018	The Contractor must: ensure that 100% of spoil which can be re-used, is beneficially reused in accordance with the spoil reuse hierarchy identified in the Environmental Documents and is not disposed to landfill.	Process Requirement	ensure that 100% of spoil which can be re- used, is beneficially reused in accordance with the spoil reuse hierarchy identified in the Environmental Documents and is not disposed to landfill.		0.440			The CSMV Construction Spot Management Plan addresses this requirement. The target is being tracked six the quarterly stationability data report, metro box and central walk built dig have been completed. The project has resoured that 100% of spoil that can be reused is being beneficially reused. This is being tracked in a spoil register and updated by the Project's Enviro team.	OPEN & ONGOING	NA	NA	Confirmation on the percentage in the last BSR	On track	On track
CSM-REQ-015285	MR-Sy SM-17-00000467	7 Supply Chain	Heading		implementation	31 / LK	пърест	essential	Heading only	CLOSED	NA	NA	Heading only	NA	NA
	144/44/4010	1		4	1		1	·	1		-		1	1	

CSM-REQ-015286	MR-Sy SM-17-00000467		7 The Contractor must:	Information						For information only	CLOSED	NA	NA	For information only	NA	NA.
CSM-REQ-015287	22/02/2018 MR-Sy SM-17-00000467	7., (a)	The Contractor must: develop, implement and maintain a sustainable	Process	develop, implement and maintain a					The Materials Management Plan addresses these requirements.	CLOSED	Compliant	Compliant	CSM-REQ-015287 Pro-1a. Sustainable Procurement Policy	Compliant	Compliant
	22/02/2018	. 5 (5)	procurement policy and processes that comply with the requirements of BS 8903:2010 "Principles and framework for procuring sustainably – Guide", and	Requirement	sustainable procurement policy and processes that comply with the requirements of BS					Have a sustainable procurement policy in place - CSM-REQ-015287 Pro-1a. Sustainable Procurement				,		
			include them in the Construction Sustainability Management Plan required in		8903:2010 "Principles and framework for					Policy						
			Annexure B clause 3.2;		procuring sustainably – Guide", and include them in the Construction Sustainability											
					Management Plan required in Annexure B clause 3.2:	Implementation	10	Incoact	Secontial							
CSM-REQ-015288	MR-Sy SM-17-00000467	7., (b)	The Contractor must: achieve, as a minimum, the following for its procurement	Process	achieve, as a minimum, the following for its	impiementation	LK	inspect	Essential	Update MMP & Can use ISC verification on Pro credits.	OPEN & ONGOING	On track	On track	ISC verification required	On track	On track
	22/02/2018		activities using the IS Rating Scheme version 1.2 tool:	Requirement	procurement activities using the IS Rating Scheme version 1.2 tool:	Implementation	LR	Inspect	Essential							
CSM-REQ-015289	MR-Sy SM-17-00000467 22/02/2018	7., (b), (i)	The Contractor must: achieve, as a minimum, the following for its procurement activities using the IS Rating Scheme version 1.2 tool: Level 2 for Pro-1	Process	Level 2 for Pro-1 "Commitment to sustainable					As for requirement 7., (b)	OPEN & ONGOING	On track	On track	ISC verification required	On track	On track
CSM-REQ-015290	MR-Sy SM-17-00000467	7., (b), (ii)	"Commitment to sustainable procurement":	Process	Level 3 for Pro-2 "Identification of suppliers";	Implementation	LR	Inspect	Essential	As for requirement 7., (b)	OPEN & ONGOING	On track	On track		On track	On track
CSM-REQ-015290	MR-5y SM-17-00000467 22/02/2018	7., (b), (II)	The Contractor must: achieve, as a minimum, the following for its procurement activities using the IS Rating Scheme version 1.2 tool: Level 3 for Pro-2	Process Requirement	Level 3 for Pro-2 "Identification of suppliers";					As for requirement 7., (b)	OPEN & ONGOING	On track	On track	ISC verification required	On track	On track
CSM-REQ-015291	MR-Sv SM-17-00000467	7., (b), (iii)	"Identification of suppliers"; The Contractor must: achieve, as a minimum, the following for its procurement	Process	Level 3 for Pro-3 "Supplier evaluation and	Implementation	LR	Inspect	Essential	As for requirement 7., (b)	OPEN & ONGOING	On track	On track	ISC verification required	On track	On track
	22/02/2018	, (2)/ ()	activities using the IS Rating Scheme version 1.2 tool: Level 3 for Pro-3 "Supplier	Requirement	contract award"; and											
CSM-REQ-015292	MR-Sy SM-17-00000467	7., (b), (iv)	evaluation and contract award"; and The Contractor must: achieve, as a minimum, the following for its procurement	Process	Level 2 for Pro-4 "Managing supplier	Implementation	LK	inspect	Essential	As for requirement 7., (b)	OPEN & ONGOING	On track	On track	ISC verification required	On track	On track
	22/02/2018		activities using the IS Rating Scheme version 1.2 tool: Level 2 for Pro-4 "Managing supplier performance".	Requirement	performance".	Implementation	I.B.	Inspect	Essential							
CSM-REQ-015293	MR-Sy SM-17-00000467 22/02/2018	7., (d)	The Contractor must: demonstrate that sustainability training is being provided to High Impact Suppliers; and	o Process	demonstrate that sustainability training is being provided to High Impact Suppliers; and					Each new contractor that is on-boarded and determined to be high impact will develop a Sustainability Action Plan. The sustainability team brief the sub-contractor team leads on sustainability requirements	OPEN & ONGOING	Missing evidence /	Missing evidence overdue	/ All suppliers: Send induction slides via teambinder and reference here	On track	On track
	22/02/2018		High Impact Suppliers; and	Requirement	being provided to High Impact Suppliers; and					including offshore procurement from developing countries in the development of the plan. Use of the		overdue	overque			
										Australian Sustainability Supply chain school is being required via the contractor sustainability action plan All suppliers are requested to sign up to the Australian supply chain school where they can access	1.			High Impact: Provide Action plan reference (SMCSWCSM-LOR SMC-SU-PLN-000005 - Subcontractor Sustainability Action	1-	
										appropriate training. Project induction includes sustainability section.(see Section 8 of the Biannual				Plan) and an example of a completed action plan.		
										Report)						
						Implementation	10	Incoact	Secontial							
CSM-REQ-015294	MR-Sy SM-17-00000467	7., (e)	The Contractor must: use a risk based approach to ensure that where High Impac	t Process	use a risk based approach to ensure that	Implementation	LK.	inspect	ESSERIGAL	The Materials Management Plan addresses the process for this requirement.	OPEN & ONGOING	NA	NA	Please refer to relevant section of BSR	On track	On track
	22/02/2018		Materials are sourced from a Developing Country the supplier's operations are in compliance with:	Requirement	where High Impact Materials are sourced from a Developing Country the supplier's operations					The response to MR-Sy 7., (d) also applies				blank questionnaires alongside the tracker of who has done it in the procurement section.	t	
CSM-REQ-015295	MR-Sv SM-17-00000467	7., (e), (i)	The Contractor must: use a risk based approach to ensure that where High Impac	n Dennes	are in compliance with: all relevant laws and regulations local to that	Implementation	LR	Inspect	Essential	As for requirement 7 (e)	OPEN & ONGOING	NA.	N/A	Please refer to relevant section of BSR	On track	On track
C3M-KEQ-013293	22/02/2018	7-, (e), (i)	Materials are sourced from a Developing Country the supplier's operations are in		country;					As for requirement 7., (e)	OPEN & ONGOING	NA.	NA	blank questionnaires alongside the tracker of who has done it	t	Oli track
			compliance with: all relevant laws and regulations local to that country;			Implementation	I.R.	Inspect	Essential					in the procurement section.		
CSM-REQ-015296	MR-Sy SM-17-00000467	7., (e), (ii)	The Contractor must: use a risk based approach to ensure that where High Impac	t Process	the International Labour Organization's	mpenerador	Lit	mapeet	COSCIICAN	As for requirement 7., (e)	OPEN & ONGOING	NA	NA	Please refer to relevant section of BSR	On track	On track
	22/02/2018		Materials are sourced from a Developing Country the supplier's operations are in compliance with: the International Labour Organization's Fundamental	Requirement	Fundamental Conventions; and									blank questionnaires alongside the tracker of who has done it in the procurement section.	1	
CSM-REQ-015297	MR-Sv SM-17-00000467	7., (e), (iii)	Conventions; and The Contractor must: use a risk based approach to ensure that where High Impac		the "Ten Principles" of the UN Global Compact	Implementation	LR	Inspect	Essential	As for requirement 7 (e)	OPEN & ONGOING			Please refer to relevant section of BSR	On track	On track
CSM-REQ-015297	22/02/2018	7., (e), (III)	Materials are sourced from a Developing Country the supplier's operations are in	Requirement	the Ten Principles of the UN Global Compact					As for requirement 7., (e)	UPEN & UNGUING	NA	NA	blank questionnaires alongside the tracker of who has done it	Un track	On track
			compliance with: the "Ten Principles" of the UN Global Compact.			Implementation	I.R.	Inspect	Essential					in the procurement section.		
CSM-REQ-015298	MR-Sy SM-17-00000467		8 Community Benefit	Heading						Heading only	CLOSED	NA	NA	Heading only	NA	NA
CSM-REQ-015299	22/02/2018 MR-Sy SM-17-00000467	8. (a)	The Contractor must identify and implement at least eighteen (18) community	Process	The Contractor must identify and implement											
											OPEN & ONGOING	NA	NA	Update this section with the correct reference in the BSR to	On track	On track
CawineQuisiss	22/02/2018	-, (-,	benefit initiatives which provide demonstrable and tangible benefits to local	Requirement	at least eighteen (18) community benefit					- 15 community benefit initiatives have been achieved	OPEN & ONGOING	NA	NA	Update this section with the correct reference in the BSR to close out this item	On track	On track
CSW NEQ 013133	22/02/2018	-, (-)	benefit initiatives which provide demonstrable and tangible benefits to local community groups, during the construction period.		at least eighteen (18) community benefit initiatives which provide demonstrable and tangible benefits to local community groups,					 - 3 initiatives are in longer term opportunity pipeline for 2022 Refer to Appendix E of the Sept-21 - March 22 Biannual Report for dashboard graph. 	OPEN & ONGOING	NA	NA		On track	On track
Carried 013133	22/02/2018		the Controllation with chronic production and the state controllation community benefit initiatives which provide demonstrable and tangible benefits to local community groups, during the construction period.		at least eighteen (18) community benefit initiatives which provide demonstrable and	Implementation	IR.	Inspect	Essential	 - 3 initiatives are in longer term opportunity pipeline for 2022 Refer to Appendix E of the Sept-21 - March 22 Biannual Report for dashboard graph. Community Initiative delivery has been impacted in this reporting period by Covid-19 due to social 	OPEN & ONGOING	NA	NA		On track	On track
CSM-REQ-015300	22/02/2018 MR-Sy SM-17-0000467	8., (b)	benefit initiatives which provide demonstrable and tangible benefits to local community groups, during the construction period. The Contractor must identify and implement at least ten [10] community benefit	Requirement	at least eighteen (18) community benefit initiatives which provide demonstrable and tangible benefits to local community groups, during the construction period. The Contractor must identify and implement	Implementation	LR	Inspect	Essential	- 3 initiatives are in longer term opportunity pipeline for 2022 Refer to Appendix E of the Sept-21 - March 22 Biannual Report for dashboard graph. Community initiative delivery has been impacted in this reporting period by Covid-19 due to social distancing requirements which limit physical volunteering initiatives 11 community benefit initiatives have been achieved.	OPEN & ONGOING	NA NA	NA NA	dose out this item Update this section with the correct reference in the BSR to	On track	On track
	22/02/2018		benefit initiatives which provide demonstrable and tangible benefits to local community groups, during the construction period.	Requirement	at least eighteen (18) community benefit initiatives which provide demonstrable and tangible benefits to local community groups, during the construction period. The Contractor must identify and implement at least ten (10) community benefit initiatives which provide demonstrable and tanaible	Implementation	LR	Inspect	Essential	- 3 initiatives are in longer term opportunity pipeline for 2022 Refer to Appendix E of the Sept-21 - March 22 Biannual Report for dashboard graph. Community Initiative delivery has been impacted in this reporting period by Covid-19 due to social distancing requirements which limit physical volunteering initiatives.		NA NA	NA NA	close out this item		
	22/02/2018 MR-Sy SM-17-0000467		benefit initiatives which provide demonstrable and tangible benefits to local community groups, during the construction period. The Contractor must identify and implement at least ten (10) community benefit initiatives which provide demonstrable and tangible benefits to the broader local	Requirement	at least eighteen [18] community benefit initiatives which provide demonstrable and tangible benefits to local community groups, during the construction period. The Contractor must identify and implement at least ten [10] community benefit initiatives which provide demonstrable and tangible benefits to the troader local community	Implementation	LR	Inspect	Essential	- 3 initiatives are in longer term opportunity pipeline for 2022 Refer to Appendix E of the Sept-21 - March 22 Biannual Report for dashboard graph. Community initiative delivery has been impacted in this reporting period by Covid-19 due to social distancing requirements which limit physical volunteering initiatives 11 community benefit initiatives have been achieved.		NA NA	NA NA	dose out this item Update this section with the correct reference in the BSR to		
CSM-REQ-015300	22/02/2018 MR-Sy SM-17-00000467 22/02/2018		benefit initiatives which provide demonstrable and tangible benefits to local community groups, during the construction period. The Contractor must identify and implement at least ten (10) community benefit initiatives which provide demonstrable and tangible benefits to the broader local community beyond the construction period.	Requirement	at least eighteen (18) community benefit initiatives which provide demonstrable and tangible benefits to local community groups, during the construction period. The Contractor must identify and implement at least ten (10) community benefit initiatives which provide demonstrable and tanaible	Implementation	LR LR	Inspect	Essential Essential	- 3 initiatives are in longer term opportunity pipeline for 2022 Refer to Appends of the Sept 2-1 - March 22 Biannual Report for dashboard graph. Community Initiative delivery has been impacted in this reporting period by Covid-19 due to social distancing requirements which limit physical voluntering initiatives11 community benefit initiatives have been achieved Refer to Appendix E of the Sept-21 - March 22 Biannual Report for dashboard graph.		NA NA	NA NA	close out this item Update this section with the correct reference in the BSR to close out this item		
	22/02/2018 MR-Sy SM-17-00000467 22/02/2018 MR-Sy SM-17-00000467		benefit initiatives which provide demonstrable and tangible benefits to local community groups, during the construction period. The Contractor must identify and implement at least ten (10) community benefit initiatives which provide demonstrable and tangible benefits to the broader local	Requirement	at least eighteen [18] community benefit initiatives which provide demonstrable and tangible benefits to local community groups, during the construction period. The Contractor must identify and implement at least ten [10] community benefit initiatives which provide demonstrable and tangible benefits to the troader local community	Implementation	LR	Inspect Inspect	Essential Essential	- 3 initiatives are in longer term opportunity pipeline for 2022 Refer to Appendix E of the Sept-21 - March 22 Biannual Report for dashboard graph. Community initiative delivery has been impacted in this reporting period by Covid-19 due to social distancing requirements which limit physical volunteering initiatives 11 community benefit initiatives have been achieved.		NA NA	NA NA	dose out this item Update this section with the correct reference in the BSR to		
CSM-REQ-015300	22/02/2018 MR-Sy SM-17-00000467 22/02/2018 MR-Sy SM-17-00000467 22/02/2018 MR-Sy SM-17-00000467		benefit initiatives which provide demonstrable and tangible benefits to local community groups, during the construction period. The Contractor must identify and implement at least ten (10) community benefit mistatives which provide demonstrable and tangible benefits to the broader local community beyond the construction period. 3 Sustainability Reporting The Contractor must prepare and submit a report named the "Climate Change"	Requirement Process Requirement Heading Process	at least eighteen (18) community benefit instaties with provide demonstrable and trappible benefits to local community groups, during the construction period. The Contractor must identify and implement at least ten (10) community benefit initiatives which provide demonstrable and trappible benefits to the broade local community beyond the construction period. The Contractor must prepare and submit a	Implementation	LR	Inspect	Essential Essential	- I initiatives are in longer term opportunity pipeline for 2022 Refer to Appends of the Sept-1 - March 22 Binnual Report for dashboard graph. Community Initiative delivery has been injected in this reporting period by Croid-19 due to social distancing requirements which him physical voluntering initiatives. - 11 community benefit initiatives have been achieved Refer to Appendix E of the Sept-21 - March 22 Binnual Report for dashboard graph. Needing only Climate charge initiatives have been identified and described in all relevant design packs during design.	CLOSED	NA NA NA Compliant	NA NA Compliant	close out this item Update this section with the correct reference in the BSR to close out this item		
CSM-REQ-015300	22/02/2018 MR-Sy SM-17-00000467 22/02/2018 MR-Sy SM-17-00000467 22/02/2018	8., (b)	benefit initiatives which provide demonstrable and tangible benefits to local ommunity groups, during the construction period. The Constructor must identify and implement at least ten [10] community benefit initiatives with provide demonstrable and tangible benefits to the broader local community beyond the construction period. Statistically beyond the construction period. The Constructor must prepare and submit a report named the "Climate Canage impact Assessment Report" to the Principals's Representative for privious in secondars with the Constructor Contract, at Design Sager, 2	Requirement Process Requirement Heading	at least eighteen (18) community benefit institutes with provide demonstrable and trangible benefits to local community groups, during the construction period. The Constructor must identify, and implement at least test (16) (10) community benefit institutes which provide demonstrable and trangible benefits to the broader local community beyond the construction period. The Constructor must prepare and submit a report named the "Clamatic Change Impact Acasesment Report" to the Principal's	Implementation	LR	Inspect	Essential Essential	- 3 instalates are in longer term opportunity pipeline for 2022 feder to Appendix of the Sept 21 - March 22 Binnumal Report for dashboard graph. Community Instalative delivery into been impacted in this reporting period by Cond-19 due to social Community Instalative delivery has been impacted in this reporting period by Cond-19 due to social 2.1 community been full instalative has we been achieved Refer to Appendix E of the Sept-21 - March 22 Binnumal Report for dashboard graph. Heading only H	CLOSED	NA NA Compliant	NA NA NA Compliant	dose out this item Update this section with the correct reference in the BSR to dose out this item Heading only	On track	On track
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CSM-REQ-015300 CSM-REQ-015301 CSM-REQ-015302 CSM-REQ-015303 CSM-REQ-015304 CSM-REQ-015305 CSM-REQ-015305 CSM-REQ-015307	22/02/2018 M8-Sy SM-17-00000467 22/02/2018	9. (a) 9. (b) (i) 9. (b) (ii) 9. (b) (iii) 9. (b) (iii)	benefit intiatives which provide demonstrable and tangible benefits to local community groups, during the construction period. The Contractor must identify and implement at least ten [10] community benefit intiatives which provide demonstrable and tangible benefits to the broader local community beyond the construction period. Sustainability Reporting The Contractor must prepare and submit a report named the "Climate Change Impact Assessment Report" to the Principal's Representative for review in page 2 Design and again prior to the Date of Construction Completion of the last Portion to reach Construction Completion. The Climate Change Impact Assessment Report must: be prepared in accordance with the guidance and requirements included in the TROW Climate Rak Assessment Workshop of the Climate Change Impact Assessment Report must: be prepared in accordance with the guidance and requirements included in the TROW Climate Rak Assessment Workshop of the Climate Change Impact Assessment Report must: dentify any project-specific dimeter change risk cyclinding climate medicing data); and The Climate Change Impact Assessment Report must: identify any project-specific dimeter change risk cyclinding climate medicing data); and The Climate Change Impact Assessment Report must: identify any project-specific dimeter change risk cyclinding climate medicing data); and The Climate Change Impact Assessment Report must: identify any project-specific dimeter change risk cyclinding climate medicing data); and The Climate Change Impact Assessment Report must: identify any project-specific dimeter change risk cyclinding climate medicing data); and The Climate Change Impact Assessment Report must: identify any project-specific dimeter change risk propers on a similar to the Principal Report of the Contractor on the Principal Report R	Requirement Process Requirement Heading Process Requirement Information Process Requirement Process Requirement Process Requirement Process Requirement Process Requirement	al least eighteen (18) community breneft institutes with provide demonstrable and trangible bereiffst to local community groups, during the construction period. The Contractor must identify and implement a least ten (19) community bereiff initiatives which provide demonstrable and trangible benefits to the bridge and trangible benefits to the bridge and trangible benefits to the bridge lead to the least ten (19) community beyond the construction period. The Contractor must prepare and submit a report samed the "Climate Change impact to the least ten of the Contractor must prepare and submit a report samed the "Climate Change impact to the contract, as the least period to the least period to the contract, as Design Stage 1, Design Stage 2, Design Stage 3, Design Stage 2, Design Stage 3, Design Stage 4, Design Stage 6, Design and again price for the Date of Construction Completion of the last Portion to reach Construction Completion of the last Portion to reach Construction Completion of the last Portion of the las		UR UR CM/59'	Inspect Inspect Reviewinspect Reviewinspect Reviewinspect Reviewinspect	Essential Essential Essential Essential Essential	- I initiatives are in longer term opportunity pipeline for 2022 Medier to Appendix of the Sept 21. **Mar 22 Binnmula Report for dashboard graph. Community Initiative delivery his been impacted in this reporting period by Cond-19 due to social 2. **Community Initiative delivery his been impacted in this reporting period by Cond-19 due to social 2. **Longway his period initiatives have been achieved.** Befer to Appendix E of the Sept-21 - March 22 Binnmusi Report for dashboard graph. **Heading only** Climate change initiatives have been identified and described in all relevant design packs during design size. 2. 2 and 3 The Stage 3 Climate Change impact Accessment Report (CLAR) (28th February 3200) SMACWS/CAS-LOR-SAG-18-REP-002156 in March 2020. DIV to respond to open comments. Adaptations indentified in the Climage impact Accessment Report has been implemented where applicable—mainly design related. For information only CAP Look at other reg for this Look at other reg for this Look at other reg for this Look at other Requirements and link it back to this:	CLOSED CLOSED CLOSED	NA NA NA Compliant NA Compliant	NA NA	close out this item Update this section with the correct reference in the BSR to dose out this item Heading only As Built CSRA required to confirm implementation For information only AGIC CAP Ust out reg from CSM-REQ-015233 AGIC CAP Ust out reg from CSM-REQ-015233 Look at other Requirements and link it back to this	On track NA On track	On track NA On track
CSM-REQ-015300 CSM-REQ-015301 CSM-REQ-015302 CSM-REQ-015303 CSM-REQ-015304 CSM-REQ-015305 CSM-REQ-015305 CSM-REQ-015307	MR-9y SM-17-00000467 22/02/2018 MR-9y SM-17-00000467 22/02/2018	9. (a) 9. (b) (i) 9. (b) (ii) 9. (b) (iii) 9. (b) (iii)	benefit intiatives which provide demonstrable and tangible benefits to local community groups, during the construction period. The Contractor must identify and implement at least ten [10] community benefit intiatives which provide demonstrable and tangible benefits to the broader local community beyend the construction period. Sustainability Reporting The Contractor must prepare and submit 1 report named the "Circuit Change inspect assessment Report to the Principal's Representable for review in accordance with the Contract, at Design Stage 3, Design Stage 4, Design Stage 5, Design Stage 6, Design Stage 6, Design Stage 6, Design Stage 8, Design Stage 9, Desig	Requirement Process Requirement Heading Process Requirement Information Process Requirement Process Requirement Process Requirement Process Requirement Process Requirement	al least eighteen (18) community brents institutes with provide demonstrable and trangible bereiffs to local community groups, during the construction period. The Contractor must identify and implement at least ten (10) community benefit institutes which provide demonstrable and trangible benefits to the broade lecal community beyond the construction period. The Contractor must prepare and submit a report ramed the "Climate Change impact Assessment Report" to the Principals. Assessment Report of the Principals with the Contractor must prepare and submit a report ramed the "Climate Change impact Assessment Report to the Principals" of the Principals of the Principals of the Principal of the Pr		UR CM / SV SV SV SV	Inspect Inspect Reviewinspect Reviewinspect Reviewinspect Reviewinspect	Essential Essential Essential Essential Essential	- I initiatives are in longer term opportunity pipeline for 2022 Medier to Appendix of the Sept 21. **Mar 22 Binnmula Report for dashboard graph. Community Initiative delivery his been impacted in this reporting period by Cond-19 due to social 2. **Community Initiative delivery his been impacted in this reporting period by Cond-19 due to social 2. **Longway his period initiatives have been achieved.** Befer to Appendix E of the Sept-21 - March 22 Binnmusi Report for dashboard graph. **Heading only** Climate change initiatives have been identified and described in all relevant design packs during design size. 2. 2 and 3 The Stage 3 Climate Change impact Accessment Report (CLAR) (28th February 3200) SMACWS/CAS-LOR-SAG-18-REP-002156 in March 2020. DIV to respond to open comments. Adaptations indentified in the Climage impact Accessment Report has been implemented where applicable—mainly design related. For information only CAP Look at other reg for this Look at other reg for this Look at other reg for this Look at other Requirements and link it back to this:	CLOSED CLOSED CLOSED	NA NA NA Compliant Compliant	NA NA	close out this item Update this section with the correct reference in the BSR to dose out this item Heading only As Built CSRA required to confirm implementation For information only AGIC CAP Ust out reg from CSM-REQ-015233 AGIC CAP Ust out reg from CSM-REQ-015233 Look at other Requirements and link it back to this	On track NA On track	On track NA On track
CSM-REQ-015300 CSM-REQ-015301 CSM-REQ-015302 CSM-REQ-015303 CSM-REQ-015306 CSM-REQ-015306 CSM-REQ-015306 CSM-REQ-015307	MR-9y SM-17-00000467 22/02/2018 MR-9y SM-17-00000467 22/02/2018	9. (a) 9. (b) (i) 9. (b) (ii) 9. (b) (iii) 9. (b) (iii)	benefit intiatives which provide demonstrable and tangible benefits to local community groups, during the construction period. The Contractor must identify and implement at least ten [10] community benefit intiatives which provide demonstrable and tangible benefits to the broader local community beyond the construction period. Sustainability Reporting The Contractor must prepare and submit a report named the "Climate Change Impact Assessment Report" to the Principal's Representative for review in page 2 Design and again prior to the Date of Construction Completion of the last Portion to reach Construction Completion. The Climate Change Impact Assessment Report must: be prepared in accordance with the guidance and requirements included in the TROW Climate Rak Assessment Workshop of the Climate Change Impact Assessment Report must: be prepared in accordance with the guidance and requirements included in the TROW Climate Rak Assessment Workshop of the Climate Change Impact Assessment Report must: dentify any project-specific dimeter change risk cyclinding climate medicing data); and The Climate Change Impact Assessment Report must: identify any project-specific dimeter change risk cyclinding climate medicing data); and The Climate Change Impact Assessment Report must: identify any project-specific dimeter change risk cyclinding climate medicing data); and The Climate Change Impact Assessment Report must: identify any project-specific dimeter change risk cyclinding climate medicing data); and The Climate Change Impact Assessment Report must: identify any project-specific dimeter change risk cyclinding climate medicing data); and The Climate Change Impact Assessment Report must: identify any project-specific dimeter change risk propers on a similar to the Principal Report of the Contractor on the Principal Report R	Requirement Process Requirement Heading Process Requirement Information Process Requirement Process Requirement Process Requirement Process Requirement Process Requirement	at least eighteen (13) community brentst institutions which provide demonstrable and trangible brentfist to local community groups, during the construction period. The Contractor must identify and implement at least ten (10) community benefit initiatives which provide demonstrable and trangible the least ten (10) community benefit initiatives which provide demonstrable and trangible the least fit in the least		UR	Inspect Inspect ReviewInspect ReviewInspect ReviewInspect ReviewInspect	Essential Essential Essential Essential Essential Essential	- I initiatives are in longer term opportunity pipeline for 2022 Medier to Appendix of the Sept 21. **Mar 22 Binnmula Report for dashboard graph. Community Initiative delivery his been impacted in this reporting period by Cond-19 due to social 2. **Community Initiative delivery his been impacted in this reporting period by Cond-19 due to social 2. **Longway his period initiatives have been achieved.** Befer to Appendix E of the Sept-21 - March 22 Binnmusi Report for dashboard graph. **Heading only** Climate change initiatives have been identified and described in all relevant design packs during design size. 2. 2 and 3 The Stage 3 Climate Change impact Accessment Report (CLAR) (28th February 3200) SMACWS/CAS-LOR-SAG-18-REP-002156 in March 2020. DIV to respond to open comments. Adaptations indentified in the Climage impact Accessment Report has been implemented where applicable—mainly design related. For information only CAP Look at other reg for this Look at other reg for this Look at other reg for this Look at other Requirements and link it back to this:	CLOSED CLOSED CLOSED	NA NA Compliant Compliant	NA NA	close out this item Update this section with the correct reference in the BSR to dose out this item Heading only As Built CSRA required to confirm implementation For information only AGIC CAP Ust out reg from CSM-REQ-015233 AGIC CAP Ust out reg from CSM-REQ-015233 Look at other Requirements and link it back to this	On track NA On track	On track NA On track

CSM-REQ-015309	MR-Sy SM-17-0000467 22/02/2018	9., (e)	The Contractor must provide an inventory of non-road diesel powered vehicles to be use of for the Contractor's Activities within 1 month of the date of the Contract and subsequently, annually using TINSW's Air Emission Data Collection Workbook 3TP-FT-439.	Process Requirement	The Contractor must provide an inventory of non-road diesel powered vehicles to be used for the Contractor's Activities within 1 month of the date of the Contract and subsequently, annually using TINSW's Air Emission Data Collection Workbook 9TP-FT-439.					N/a to CSM CSM-HIQ 015309 RVTM and Contract deliverables close out -HS1 CSM				N/a to CSM CSM-REQ-015309 RVTM and Contract deliverables close out KS1 CSM	-	
CSM-REQ-015310	MR-Sy SM-17-00000467 22/02/2018	9., (f)	Until the Date of Construction Completion of the last Portion to reach Construction Completion, the Contractor must electronically submit a report titled the "Bianumal Sustainablik Report" (BBI) to be Principal's Representative in accordance with the Contract and submit one hard copy of the SSI to the independent Certified by the seventh day of the month following the end of that six month period.	Process Requirement	Until the Date of Construction Completion of the last Portion to reach Construction Completion, the Contractor must descronically submit a report titled the "Biannual South September of the Contractor of the Contract Representative concedions with the Contract and submit one hard copy of the 83A to the independent Certifier by the seventh day of the month following the end of that six- month period.	Implementation	IR .	Inspect	Essential	All reports submitted to date 1-1. 9MCSWCSM-4-DR-SMC-5U-8EP-000007 August 2019 -2. SMCSWCSM-4-DR-SMC-5U-8EP-000007 August 2020	CLOSED	Compliant	Compliant	All reports submitted to date -3. sM/SAWCSM-LOR SM/S-SU-REP-000007 it August 2021 -5. SM/SSWCSM-LOR SM/S-SU-REP-000007 it August 2022 -5. SM/SSWCSM-LOR SM/S-SU-REP-000007 it August 2023	On track	On track
CSM-REQ-015311	MR-Sy SM-17-00000467 22/02/2018	9., (g)	The BSR must be easy to understand and the Contractor must provide a copy in a pdf format that compiles with the Level AA accessibility requirements in the Web Content Accessibility Guidelines (WCAG 2.0) for uploading to the Principal's Sydney Metro website.	Process Requirement	The BSR must be easy to understand and the Contractor must provide a copy in a.pdf format that complies with the Level AA accessibility requirements in the Web Content Accessibility Guidelines (WCAG 2.0) for uploading to the Principal's Sydney Metro	Implementation	LR	Inspect	Essential	For information only	CLOSED	NA NA	NA	For information only	NA	NA NA
CSM-REQ-015312	MR-Sy SM-17-00000467 22/02/2018	9., (h)	The BSR must, as a minimum, include, address and detail:	Information	website.	Implementation	LR	Inspect	Essential	For information only	CLOSED	NA .	NA	For information only	NA	NA NA
CSM-REQ-015313	MR-Sy SM-17-00000467 22/02/2018	9., (h), (i)	The BSR must, as a minimum, include, address and detail: an executive summary;	Process Requirement	an executive summary;					All BSR's contain an Executive summary Section	CLOSED	Compliant	Compliant	All BSR's contain a Executive summary Section See - SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-21 to	Compliant	Compliant
CSM-REQ-015314	MR-Sy SM-17-00000467 22/02/2018	9., (h), (ii)	The BSR must, as a minimum, include, address and detail: the status of the implementation of the sustainability strategies and initiatives identified in the Sustainability Management Plan, required under MR PA;	Process Requirement	the status of the implementation of the sustainability strategies and initiatives identified in the Sustainability Management Plan, required under MR-PA;	DesignImplementation	SY/LR	ReviewInspect	Essential	See SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-19 to March-20 page 3 of 60 All BSR's contain a section relating to the SMP	CLOSED	Compliant	Compliant	March 22 page 4 of 74 All BSR's contain a section relating to the SMP See - SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-21 to	Compliant	Compliant
CSM-REQ-015315	MR-Sy SM-17-00000467 22/02/2018	9., (h), (iii)	The BSR must, as a minimum, include, address and detail: an update on "Design" and "As Built" performance against the infrastructure Sustainability Council of Australia IS Rating tool version 1.2 required in clause 3 above;	Process Requirement	an update on "Design" and "As Built" performance against the Infrastructure Sustainability Council of Australia IS Rating tool version 1.2 required in clause 3 above;	DesignImplementation	SY/LR	ReviewInspect	Essential	See SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-19 to March-20 section 2.1 page 6 of 60 All BSR's contain a section relating to the Design and As-Bull Stages of the project and the ratings	CLOSED	Compliant	Compliant	March 22 Section 2.1 page 8 of 71 All BSR's contain a section relating to the Design and As-Bui Stages of the project and the ratings See - SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-21 to	Compliant	Compliant
CSM-REQ-015316	MR-Sy SM-17-00000467 22/02/2018	9., (h), (iv)	The BSR must, as a minimum, include, address and detail: an update on "Design" and "As Built" performance using the GSDABRT, as required in clause 3 above;	Process Requirement	an update on "Design" and "As Built" performance using the GSDABRT, as required in clause 3 above;	DesignImplementation DesignImplementation	SY/LR SY/LR	ReviewInspect ReviewInspect	Essential Essential	See SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-19 to March-20 All BSR's contain a section relating to the Design and As-Built Stages of the project and the ratings See SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-19 to March-20	CLOSED	Compliant	Compliant	March 22 Section 3 All BSR's contain a section relating to the Design and As-Bui Stages of the project and the ratings See - SMC/SWCSM-LOR-SMC-SU-REP-000005 Sept-21 to March 22 Section 4		Compliant
CSM-REQ-015317	MR-Sy SM-17-00000467 22/02/2018	9., (h), (v)	The BSR must, as a minimum, include, address and detail: climate change risk assessments undertaken and details of where the climate change risk assessment have influenced the design and construction for the Works and Temporary Works;	Process Requirement	climate change risk assessments undertaken and details of where the climate change risk assessment have influenced the design and construction for the Works and Temporary Works;	DesignImplementation	SY/LR	ReviewInspect	Essential	All BSR's contain a section relating to the Climate Change Risk Assessment See SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-19 to March-20 Section 5	CLOSED	Compliant	Compliant	All BSR's contain a section relating to the Climate Change Ris Assessment See - SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-21 to March 22 Section 5		Compliant
CSM-REQ-015318	MR-Sy SM-17-00000467 22/02/2018	9., (h), (vi)	The BSR must, as a minimum, include, address and detail: details of greenhouse gas reduction initiatives which have been implemented in the design and construction Works and Temporary Works;	Process Requirement	details of greenhouse gas reduction initiatives which have been implemented in the design and construction Works and Temporary Works;	DesignImplementation	SY/LR	ReviewInspect	Essential	All BSR's contain a section relating to the greenhouse gas reduction initiatives See SMCSW/CSM-LOR-SMC-SU-REP-000005 Sept-19 to March-20 Section 6	CLOSED	Compliant	Compliant	All BSR's contain a section relating to the greenhouse gas reduction initiatives See - SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-21 to March 22 Section 6	Compliant	Compliant
CSM-REQ-015319	MR-Sy SM-17-00000467 22/02/2018	9., (h), (vii)	The BSR must, as a minimum, include, address and detail: life cycle assessments undertaken, and details of environmental impact reduction initiatives which have been implemented in the design and construction Works and Temporary Works;	Process Requirement	life cycle assessments undertaken, and details of environmental impact reduction initiatives which have been implemented in the design and construction Works and Temporary Works;					All BSR's contain a section relating to the life cycle assessments undertaken See SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-19 to March-20 Section 4.1	CLOSED	Compliant	Compliant	All BSR's contain a section relating to the life cycle assessments undertaken See - SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-21 to March 22 Section 7	Compliant	Compliant
CSM-REQ-015320	MR-Sy SM-17-00000467 22/02/2018	9., (h), (viii)	The BSR must, as a minimum, include, address and detail: compliance with sustainable procurement requirements described in clause 7 above;	Process Requirement	compliance with sustainable procurement requirements described in clause 7 above;	DesignImplementation DesignImplementation	SY/LR SY/LR	ReviewInspect ReviewInspect	Essential	All BSR's contain a section relating to sustainable procurement See SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-19 to March-20 Section 8	CLOSED	Compliant	Compliant	All BSR's contain a section relating to sustainable procurement See - SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-21 to March 22 Section 8	Compliant	Compliant
CSM-REQ-015321	MR-Sy SM-17-00000467 22/02/2018	9., (h), (ix)	The BSR must, as a minimum, include, address and detail: the sustainability performance of the Contractor against all other requirements contained in this MR-Sy; and	Process Requirement	the sustainability performance of the Contractor against all other requirements contained in this MR-Sy; and	DesignImplementation	SY/LR	ReviewInspect	Essential	All BSR's contain a section relating to sustainability performance See SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-19 to March-20 Section 9	CLOSED	Compliant	Compliant	All BSR's contain a section relating to sustainability performance See - SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-21 to March 22 Section 9 & Appendix E	Compliant	Compliant
CSM-REQ-015322 CSM-REQ-015323	MR-5y SM-17-00000467 22/02/2018 MR-5y SM-17-00000467	9., (h), (x) 9., (i)	The BSR must, as a minimum, include, address and detail: corrective actions taken where Defects in the Works, Temporary Works or Contractor's Activities relating to sustainability were identified. In addition and until the Date of Construction Completion of the last Portion to	Process Requirement Process	corrective actions taken where Defects in the Works, Temporary Works or Contractor's Activities relating to sustainability were identified. In addition and until the Date of Construction	DesignImplementation	SY/LR	ReviewInspect	Essential	All BSR's contain a section relating to sustainability performance See SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-19 to March-20 Section 7.2 Quarterly Sustainability Data Report has been provided to the Principal's Representative each quarter	CLOSED OPEN & ONGOING	Compliant G On track	Compliant On track	All BSR's contain a section relating to sustainability performance See - SMCSWCSM-LOR-SMC-SU-REP-000005 Sept-21 to March 22 Section 10 All reports submitted until Project Completion	Compliant	Compliant
	22/02/2018		reach Construction Completion, the Contractor must submit to the Principal's Regresentable for review in accordance with the Costruct, a report titled the "Quarterly Sustainability Data Report" (SDGR) by the thirtiesth day of the month following the end of each quarter. For example, the January to March data would be submitted by the thirtieth day of April	Requirement	Completion of the last Portion to reach Construction Completion, the Contractor must submit to the Principal's Representative for review in accordance with the Contract, a report titled the "Colusterly Sustainability Data Report" (ISDR) by the thirtieth day of the month following the end of each quarter. For example the January to March data would be submitted by the thirtieth day of April	Design/mplementalion	SV/IR	Reviewdoxpect	Fountial	Soloving CSM Statinisability Reporting - M8-SY Change Order 000017 dated November 8, 2018. This requirement relates to the biannual report submitted to the client						
CSM-REQ-015324	MR-Sy SM-17-00000467 22/02/2018	9., ()	The Contractor's SDDR must as a minimum, detail the Contractor's performance against the target interfield in the Sostanbility Management Plans, Spoil Management Plans, Carbon and Forery Management Plans, and Materials Management Plans of the regived under MR4, Justing the Syder Method Con 2 Sostanbility Plans of the State State State State State State Sostanbility Reporting Template SME SSFT-459 including reporting con-	Process Requirement	The Contractor's CSDR must as a minimum. detail the Contractor's performance against the targets identified in the Sustainability Amaragement Plan, Sooil Management Plan, Curbon and Energy Management Plan, and Materials Management Plan (all reguld under MR-PA), using the Sydney Metro Ccty & Southwest Sustainability Reporting Template SME ES-FT-439 including reporting on:									All reports submitted until Project Completion		
CSM-REQ-015325	MR-Sy SM-17-00000467 22/02/2018	9., (1), (1)	The Contractor's QDR must as a minimum, detail the Contractor's performance against the targets identified in the Sustainability Management Plan, Spoil Management Plan, Canhon and Fiorgy Management Plan, and Marterials Management Plan, and Jair Repaired under MR-PAI, using the Sydney, Metro City & Southwest Usatinability Reporting Template SME ES-FT-439 including reporting on:	Process Requirement	Scope 1 Carbon Emissions, Scope 2 Carbon Emissions, Scope 3 Carbon Emissions and Total Carbon Emissions;	DesignImplementation	SY/LR	Reviewinspect	Essential					All reports submitted until Project Completion		
CSM-REQ-015326	MR-Sy SM-17-00000467 22/02/2018	9., (i), (ii)	and Total Carbon Emissions; The Contractor's QDIR must as a minimum, detail the Contractor's performance against the target destrifted in the Scialiship Management Plan, Gool Management Plan, Carbon and Forery Management Plan, and Materials Management Plan, Carbon and Forery Management Plan, and Materials Management Plan (arbon and Forery Management Plan, and Materials Southwest Sustainability Reporting Template SME ES-FT-439 including reporting on: one of the Scialiship Reporting Template SME ES-FT-439 including reporting on: performance against the Carbon Emission Target identified in the Carbon and Energy Management Plan;	Process Requirement	performance against the Carbon Emission Target identified in the Carbon and Energy Management Plan;	DesignImplementation	SY/LR	ReviewInspect	Essential					All reports submitted until Project Completion		

CSM-862;015327 MiR-9; SM-17-000000467 22/02/2018		The Contractor's GDSR must as a minimum, detail the Contractor's performance against the targets derified in the Sustainsbilly Management Flan, Sooil Management Flan, Carbon and funergy Management Flan, and Matterals Management Flan, Carbon and Green State (Sept. 1997). The Contractor Scatthwest Sustainability Reporting Templates ME ES-FT-439 including reporting on: electricity consumption and generation, including any on-site mensuable energy generation and any renewable energy sourced for the construction of the Worst and Temporary Worst and performance against Electricity Consumption Targets included in the Sustainability Management Flan;	Process Requirement	electricity consumption and generation, including any on-site remewable energy generation and any renewable energy source for the construction of the Works and Temporary Works and performance against Electricity Consumption Targets included in the Sustainability Management Plan;	DesignImplementation	SY/LR	Reviewin:pect Es	ential			i reports submitted until Project Completion	
CSM-REQ-015328 MR-Sy 5M-17-00000467 22/02/2018	9., (i), (iv)	The Contractor's GDSR must as a minimum, detail the Contractor's performance against the targets certified in the Sustainstibly Management Plans, Sool Management Plan, Carbon and Energy Management Plan, and Materials Management Plan (Larequiet under MRA), using the Sydney Mort Coty & Southwest Sustainability Reporting Template SME ESFT-439 including reporting of the Contractor of the Con	Process Requirement	quantity of greenhouse gas emissions associated with electricity consumption which have been offset, and method of offset;	Design mp ementation	SY/LR	Reviewinspect Es	ential		A	Project Completion	
CSM-REQ-015329 MR-Sy SM-17-00000467 22/02/2018	9., (i), (v)	The constructor's CSDR must as a minimum, detail the contractor's performance qualitant the targest central feet in the schoolship! Management Plan, Grahon and Indray Management Plan, Carbon and Indray Management Plan, and Materials Management Plan (archited under March, Junight the Sylvey Mort Colly 8, Southwest Sustainability Reporting Template SME ES-FT- 439 including reporting critical processing of the Consumption and performance against Fuel Consumption Targets; fuel consumption and performance against Fuel Consumption Targets;	Process Requirement	fuel consumption and performance against Fuel Consumption Targets;	DesignImplementation	SY/IR	ReviewInspect Fs	ential		A	II reports submitted until Project Completion	
CSM-REQ-015330 MR-5y-5M-17-00000467 22/02/2018	9., (i), (vi)	The Consecutor' (DSIR must as a minimum, detail the Consecutor's performance against the targets desirated in the Sectionably Management Plan, Grandon and Georgy Management Plan, and Materials Management Plan, Carbon and Georgy Management Plan, and Materials Management Plan (in propertied med Plan), using the System Method City & Southwest Sustainability Reporting Template SME ES-FT-439 including reporting continued of postable mainst water consumed for the Contractor's Activities, and performance against the Mains Water Consumption Target;	Process Requirement	volume of potable mains water consumed for the Contractor's Activities, and performance against the Mains Water Consumption Target;	Designimplementation	SY/IR	Reviewinspect F-	ential		А	II reports submitted until Project Completion	
CSM-8EQ-015331 MR-9; SM-17-00000467 22/02/2018		The Contractor's CSDR must as a minimum, detail the Contractor's performance against the targets incentified in the Sustainablity Management Plans, Sooil Management Plan, Carbon and Inergy Management Plan, and Materials Management Plan (I acquied under MR A)L, unigh the Sylvey Merch Ctily is Southwards Sustainability Reporting Template SME ES-FT-439 including reporting or: volume of non-potable water consumed for the Contractor's Activities, including details of the source of non-potable water, and performance against the Non- Potable Water Consumption Target,	Process Requirement	volume of non-potable water consumed for the Contractor's Activities, including details of the sources of non-potable water, and performance against the Non-Potable Water Consumption Target;	Designimplementation	SY/LR	Reviewinspect Es	ential			Il reports submitted until Project Completion	
CSM-REQ-015332 MR-9y SM-17-00000467 22/02/2018	9., (i), (viii)	The Contractor's GDSR must as a minimum, detail the Contractor's performance against the targets certified in the Sustainship Management Plan, Sool Management Plan, Carbon and Energy Management Plan, and Materials Management Plan (I enqueled under MR PA), using the Sydney Mort Coty & Southwest Sustainability Reporting Template SME ESFT-439 including reporting cr. percentage of water consumed for the Contractor's Activities which has been parcent from non-petable sources;	Process Requirement	percentage of water consumed for the Contractor's Activities which has been sourced from non-potable sources;	Design/mplementation	SY/LR	ReviewInspect Es	ential		A	Project Completion	
CSM-REQ-015333 MR-9-5M-17-00000467 22/02/2018	9., (i), (ix)	The Constructor's COSIR must as a minimum, detail the Constructor's performance against the targets certified in the Sustainably Management Plan, and Materials Management Plan, Carbon and Energy Management Plan, and Materials Management Plan (le required under Mex Plan), using the Sydney Mort Cory & Construction of the Construction of the Construction of the Construction of the Construction of Construction of the Construction of the Construction and demolitical was set generator, covinging and disposit, it call quantity of was generated; quantity of one-putrescrible general solid waste generated and percentage which has been recycled or resulted, quantity of construction and demolitical waste generated and processing which has been recycled or result, quantity of office wasts generated and processing which has been recycled or result, quantity of office wasts generated and processing which has been recycled or result, quantity of office wasts generated and processing which has been recycled or result, quantity of office wasts generated and processing which has been recycled or result, quantity of office wasts generated and processing which are supplied or result or supplied to the construction of the construction and demolitics wasts generated and processing which are supplied or result of the wastername.	Process Requirement	waste generation, recycling and disposal, for an unantity of waste generated, quantity of non- patriciable general solid waste generated and experimental properties of the properties of the quantity of construction and denoition waste generated and percentage which has been recycled or reused; quantity of office waste generated and percentage which has been recycled or reused;						А	reports submitted until Project Completion	
CSM-REQ-015334 MR-9; SM-17-00000467 22/02/2018	9., (i), (x)	The Contractor's CSDR must as a minimum, detail the Contractor's performance against the targets identified in the Sustainability Management Plan, Spoil Management Plan, and Lordon and Energy Management Plan, and Maristis Management Plan (all required under MR-PA), using the Sydney Metro City & Scottwest Sustainability Reporting Templas SME GSFT. 439 inciding reporting on: the volume of spoil reused within the Site, beneficially reused off-site or disposed of off-site against the Spoil Targets identified in the Spoil Management Plan;	Process Requirement	the volume of spoil reused within the Site, beneficially reused off-site or disposed of off- site against the Spoil Targets identified in the Spoil Management Plan;	DesignImplementation	SV/LR	ReviewInspect Es	ential		А	il reports submitted until Project Completion	
CSM-REQ-015335 MR-Sy SM-17-000000467 22/02/2018	9., (i), (xi)	The Consecurar's CSDR must as a minimum, detail the Consecur's performance against the targets clearlifed in the Sustainably Management Plans, Sool Management Plan, Carbon and Energy Management Plan, and Materials Management Plan (I enqueut under Mar Plan), unigit the Sydney Mort Coty & Southwest Sustainability Reporting Template SME EATT-439 including reporting detainations for spoil which has been beneficially reused off-size or disposed of off ster.	Process Requirement	destinations for spoil which has been beneficially reused off-site or disposed of off- site;	Designimplementation	SY/LR	Reviewinspect Es	ential				
22/02/2018	9., (i), (xii)	The Contractor's GDRR must as a minimum, detail the Contractor's performance against the targets certified in the Sustainship Management Plans, Sooil Management Plans, Carbon and Energy Management Plans, and Materials Management Plans (Larquiet under MRA PLA), using the Sydney Mort Coty & Southwest Sustainability Reporting Template SME ESTF-439 including reporting causalities of steel and concrete which have been used for the Contractor's Activities;	Process Requirement	quantities of steel and concrete which have been used for the Contractor's Activities;	DesignImplementation	SY/LR	ReviewInspect Es	ential				
CSM-REQ-015337 MR-Sy-SM-17-00000467 22/02/2018	9., (i), (xiii)	The contractor's CDSR must as a minimum, detail the contractor's performance qualith the targets clientified in the Suitability Management Plans, Sooil Management Plan, Carbon and Inergy Management Plan, and Materials Management Plan I derugeried under MRS Alu, using the Sylven Merch CDs is Southwest Sustainability Reporting Template SME ES-FT-439 including reporting or: volume weighted average percentage comentitious content in concrete used for the Contractor's Activities which has comprised fly safe or slag; and	Process Requirement	volume weighted average percentage cementitious content in concrete used for the Contractor's Activities which has comprised fly ash or slag; and	Designimplementation	SY/LR	Reviewinspect Es	ential				

	I		In	T-	T	ı	1	1	-		-	_		1	_	
CSM-REQ-015338	MR-Sy SM-17-00000467 22/02/2018	9., (ī), (xiv)	The Contractor's QSDR must as a minimum, detail the Contractor's performance against the targets identified in the Sustainability Management Plan, Spoil Management Plan, Carbon and Energy Management Plan, and Materials Management Plan (all required under MR-PA), using the Sydney Metro City &	Process Requirement	such other information that the Principal's Representative may request.											
			Southwest Sustainability Reporting Template SME ES-FT- 439 including reporting on: such other information that the Principal's Representative may request.													
CSM-REQ-015339	MR-Sy SM-17-00000467	10	Construction Environmental Management Framework (CEMF)	Heading		DesignImplementation	SY/LR	ReviewInspect	Essential	Heading only	CLOSED	NA.	NA.	Heading only	NA	NA .
CSM-REQ-015340	22/02/2018 MR-Sy SM-17-00000467 22/02/2018	10.	The Contractor must comply with the relevant clauses of the CEMF SM ES-ST-204 as listed in Annexure B of this MR-Sy.	Process Requirement	The Contractor must comply with the relevant clauses of the CEMF SM ES-ST-204 as listed in											
CSM-REQ-015341	MR-Sy SM-17-00000467	Annexure A	Annexure A: Reference Documents	Heading	Annexure B of this MR-Sy.	DesignImplementation	SY	ReviewInspect	Essential	Heading only	CLOSED	NA.	NA.	Heading only	NA	NA.
CSM-REQ-015342	22/02/2018 MR-Sy SM-17-00000467	Annexure A	The following are Reference Documents:	-							CLOSED			For information only		
CSM-REQ-015342	22/02/2018	Annexure A	NWRLSRT-PBA-SRT-SU-REP-000022 Climate Change Resilience Report, 25	Information						For information only	CLUSED	NA.	NA.	For information only	NA	NA
			November 2015. *Air Emission Data Collection Workbook 9TP-FT-439, 22 February 2018. *Sydney Metro City & Southwest Sustainability Reporting Template SME ESFT-889, 22 February 2018. *Sydney Metro Construction Environmental Management Framework CKMF SM SKY 2009, 15 August 2019. *Sydney Metro Construction Environmental Management Framework CKMF SM SKY 2009, 15 August 2019. *Sydney State Stat													
CSM-REQ-015343	MR-Sy SM-17-00000467 22/02/2018	Annexure B	Annexure B: CEMF Requirements included in the Contractor's Activities	Heading						Heading only	CLOSED	NA	NA	Heading only	NA	NA
CSM-REQ-015344	MR-Sy SM-17-00000467 22/02/2018	Annexure B	CEMF Clause: 1.3	Process	The Contractor must comply with these					SMCSWCSM-LOR-SMC-SU-PLN-000001 - Sustainability Management Plan - Section 2, PDF page 10	CLOSED	Compliant	Compliant	Design	NA	NA
	22/02/2018		Heading: Environment and Sustainability Policy Contractor's Responsibility: The Contractor must comply with these requirements.	Requirement	requirements.									Implementation		
CSM-REQ-015345	MR-Sy SM-17-00000467	Annexure B	CEMF Clause: 2.1	Process	The Contractor must comply with these	DesignImplementation	SY	ReviewInspect	Essential					ISO14001 - have these audits and closed actions	-	+
	22/02/2018		Heading: Legislation Contractor's Responsibility: The Contractor must comply with these requirements except the Principal retains the obligation to address any legislation which is not	Requirement	requirements except the Principal retains the obligation to address any legislation which is not relevant to the Contractor's Activities.											
CSM-REQ-015346	MR-Sy SM-17-00000467	Annexure B	relevant to the Contractor's Activities. CEMF Clause: 3.1	Process	The Contractor must comply with these	DesignImplementation	SY	ReviewInspect	Essential		_	1			-	+
	22/02/2018		Heading: Environmental and Sustainability Management System Contractor's Responsibility: The Contractor must comply with these requirements.	Requirement	requirements.											
						DesignImplementation	SY	ReviewInspect	Essential							
CSM-REQ-015347	MR-Sy SM-17-00000467 22/02/2018	Annexure B	CEMF Clause: 3.2 Heading: Construction Sustainability Management Plan (referred to as the SMP) Contractor's Responsibility: The Contractor must comply with these requirements.	Process Requirement	The Contractor must comply with these requirements.											
						DesignImplementation	SY	ReviewInspect	Essential							
CSM-REQ-015348	MR-Sy SM-17-00000467 22/02/2018	Annexure B	CEMF Clause: 3.2 Heading: Construction Sustainability Management Plan (referred to as the SMP) Contractor's Responsibility: The SMP must also include a matrix of all the Contract requirements (including those in the SWTC and MR-Sy) relating to sustainability,	Process Requirement	The SMP must also include a matrix of all the Contract requirements (including those in the SWTC and MR-Sy) relating to sustainability, referencing the relevant document clause.											
			referencing the relevant document clause.			Contactoralementation	ev	Davieudeum d	Ecceptial							
CSM-REQ-015349	MR-Sy SM-17-00000467 22/02/2018	Annexure B	CEMF Clause: 3.2 Heading: Construction Sustainability Management Plan (referred to as the SMP) Contractor's Responsibility: The Contractor must provide an SMP with the	Process Requirement	The Contractor must provide an SMP with the following sub-plans:	Designingenentation	31	Reviewiispect	ESSERIGAT							
			following sub-plans:			DesignImplementation	SY	ReviewInspect	Essential							
CSM-REQ-015350	MR-Sy SM-17-00000467 22/02/2018	Annexure B	CEMF Clause: 3.2 Heading: Construction Sustainability Management Plan (referred to as the SMP) Contractor's Responsibility: The Contractor must provide an SMP with the following sub-plans: a) Construction Carbon and Energy Management Plan;	Process Requirement	a) Construction Carbon and Energy Management Plan;											
						DesignImplementation	sv	ReviewInspect	Essential							
CSM-REQ-015351	MR-Sy SM-17-00000467 22/02/2018	Annexure B	CEMF Clause: 3.2 Heading: Construction Sustainability Management Plan (referred to as the SMP) Contractor's Responsibility: The Contractor must provide an SMP with the following sub-plans: b) Waste Management and Recycling Plan; and	Process Requirement	 b) Waste Management and Recycling Plan; and 	Designing	31	neviewing to	Last House							
	**** C C** *** 0000C : ***					DesignImplementation	SY	ReviewInspect	Essential			-				
CSM-REQ-015352	MR-Sy SM-17-00000467 22/02/2018	Annexure B	CEMF Clause: 3.2 Heading: Construction Sustainability Management Plan (referred to as the SMP) Contractor's Responsibility. The Contractor must provide an SMP with the following sub-plans: c) A Materials Management Plan	Process Requirement	c) A Materials Management Plan											
CSM-REQ-015353	MR-Sy SM-17-00000467	Annexure B	CEMF Clause: 3.2	Process	In relation to the Workforce Development Plan	DesignImplementation	SY	ReviewInspect	Essential						 	+
	22/02/2018		Heading: Construction Sustainability Management Plan (referred to as the SMP) Contractor's Responsibility: In relation to the Workforce Development Plan the Contractor must comply with the requirements of MR-PA and not clause 3.2 (d) of the CEMF.	Requirement	the Contractor must comply with the requirements of MR-PA and not clause 3.2 (d) of the CEMF.											
CSM-REQ-015354	MR-Sy SM-17-00000467	Annexure B	CEMF Clause: 13.1	Process	The Contractor must comply with these	DesignImplementation	SY	ReviewInspect	Essential	Management Plan and teambinder ref					-	+
	22/02/2018		Heading: Carbon and Energy Management Objectives Contractor's Responsibility: The Contractor must comply with these requirements.	Requirement	requirements.					2.3 Compliance Obligations from the SMP						
						DesignImplementation	SY	ReviewInspect	Essential	2.3 Compliance Obligations from the SMP Appendix F. Compliance Matrix						
CSM-REQ-015355	MR-Sy SM-17-00000467 22/02/2018	Annexure B	CEMF Clause: 13.2 Heading: Carbon and Energy Management Implementation	Process Requirement	The Contractor must comply with these requirements. The Carbon and Energy											
			Contractor's Responsibility: The Contractor must comply with these requirements. The Carbon and Energy Management Plan must include estimates of Scope 1, Scope 2 and Scope 3 emissions and the Carbon Emission Target.		Management Plan must include estimates of Scope 1, Scope 2 and Scope 3 emissions and the Carbon Emission Target.											
CSM-REQ-015356	MR-Sy SM-17-00000467	Annexure B	CEMF Clause: 13.3	Process	The Contractor must comply with these	DesignImplementation	SY	ReviewInspect	Essential		_	-			-	+
	22/02/2018		Heading: Carbon and Energy Mitigation Contractor's Responsibility: The Contractor must comply with these requirements.	Requirement	requirements.	DesignImplementation	SY	ReviewInspect	Essential							
CSM-REQ-015357	MR-Sy SM-17-00000467 22/02/2018	Annexure B	CEMF Clause: 14.1 Heading: Materials Management Objectives Contractor's Responsibility: The Contractor must comply with these requirements.	Process Requirement	The Contractor must comply with these requirements.											
CSM-REQ-015358	MR-Sy SM-17-00000467 22/02/2018	Annexure B	CEMF Clause: 14.2 Heading: Materials Management Implementation Contractor's Responsibility: The Contractor must comply with these requirements.	Process Requirement	The Contractor must comply with these requirements.	DesignImplementation	SY	ReviewInspect	Essential							
CSM-REQ-015359	MR-Sy SM-17-00000467 22/02/2018	Annexure B	Contractor's Responsibility: The Contractor must comply with these requirements. CEMF Clause: 14.3 Heading: Materials Mitigation	Process Requirement	The Contractor must comply with these requirements.	DesignImplementation	SY	ReviewInspect	Essential							
			Contractor's Responsibility: The Contractor must comply with these requirements.			DesignImplementation	SY	ReviewInspect	Essential							
CSM-REQ-015360	MR-Sy SM-17-00000467 22/02/2018	Annexure B	CEMF Clause: 17.1 Heading: Waste Objectives	Process Requirement	The Contractor must comply with these requirements.											
			Contractor's Responsibility: The Contractor must comply with these requirements.			DesignImplementation	SY	ReviewInspect	Essential							

CSM-REQ-015361	MR-Sy SM-17-00000467 22/02/2018	Annexure B	CEMF Clause: 17.2 Heading: Waste Implementation Contractor's Responsibility: The Contractor must comply with these requirements.	Process Requirement	The Contractor must comply with these requirements.							
CSM-REQ-015362	MR-Sy SM-17-00000467 22/02/2018	Annexure B	CEMF Clause: 17.3 Heading: Waste Mitigation	Process Requirement	DesignImplementation SY The Contractor must comply with these requirements.	ReviewInspect Essential						
			Contractor's Responsibility: The Contractor must comply with these requirements.		DesignImplementation SY	ReviewInspect Essential						
CSM-REQ-015363	MR-Sy SM-17-00000467 22/02/2018	Annexure C	Annexure C: Project Specific Requirements	Heading		Heading only	CLOSED	NA	NA	Heading only	NA	NA
CSM-REQ-015364		Annexure C	The following amendments apply to the clauses listed in the main body of this MR Sy .	- Information		For information only	CLOSED	NA	NA	For information only	NA	NA
CSM-REQ-015365	MR-Sy SM-17-00000467 22/02/2018	Annexure C	Section Number: 3 Collaboration for deleted in full: (8) Clause No. to be deleted in full: (8) Clause No. to be added: (9) Clause No. to be added: (9) Clause wording to deleted and/or replaced: Delete: "For the Contractor's Activities related to the Works" Replace with: "For the Contractor's Activities related to the Central Station Works	Information		For information only	CLOSED	NA.	NA	For information only	NA	NA .
CSM-REQ-015366	MR-Sy SM-17-00000467	Annexure C	and Central Walk Works" Section Number: 3	Information		For information only	CLOSED	NA.	NA	For information only	NA	NA
	22,62,7018		(A) Clause No. to be detected in fail: (B) Clause No. to be addect: (C) New Clause Pol. to be addect: Detect: "Live the S Rating Scheme to achieve: A. a "Design" rating score of at least 75, with a target of 79, for the design of the Works; and B. an "As Built" rating score of at least 75, with a target of 79 for the constructed Works. Replace with: "See the S Rating Scheme to achieve: A. a "Design" rating score of at least 75, with a target of 79 for the constructed Works. A "Design" rating score of at least 75, with a target of 79, for the design of the Central Station; and Works and Central Wall Works; B. an "As Built" rating score of at least 75, with a target of 79, for the design of the Central Station; and Works and Central Wall Works; B. an "As Built" rating score of at least 76, with a target of 79, for the constructed Central Station Works and Central Wall Works; "On "As Built" rating score of at least 75, with a target of 79, for the constructed Central Station Works and Central Walk Works;	,								
CSM-REQ-015367	MR-Sy SM-17-00000467 22/02/2018	Annexure C	Section Number: (A) Clause No. to be deleted in full:	Information		For information only	CLOSED	NA	NA	For information only	NA	NA
C5M-REQ-015368	22/02/2018 MR-Sy 5M-17-00000467	Anneuer C	(A) Clause (No. 10 be detected in fault. (A) Clause (No. 10 be detected in fault. (B) Clause Walsen (No. 10 be added: (D) Clause wording to deleted and/or replaced: Detect. (For the Contractor's Activities related to the Works, the Contractor must: (For the Contractor's Activities related to the Works, the Contractor must: (For the Contractor's Activities related to the Works, the Contractor must: (For experiment of As Built' rating scores and the size of the Contractor must: (For additional activities of the Works) and (For additional activities related to the Works) and (For additional activities related to the Meror Station Works), and (For additional activities related to the Meror Station Works), the Contractor must: (For the Contractor's Activities related to the Meror Station Works), the Contractor must. (For activities and For activities related to the Meror Station Works), the Contractor must. (For activities and For activities related to the Meror Station Works), the Contractor must. (For activities and For activities related to the Meror Station Works), the Contractor must. (For activities and For activities related to the Meror Station Works), the Contractor must. (For activities activities related to the Meror Station Works), the Contractor must. (For activities activities related to the Meror Station Works), the Contractor must. (For activities activities related to the Meror Station Works), the Contractor must. (For activities activities related to the Meror Station Works), the Contractor must. (For activities activities related to the Meror Station Works), the Contractor must. (For activities activities related to the Meror Station Works), the Contractor must. (For activities activities related to the Meror Station Works), the Contractor must. (For activities activities related to the Meror Station Works), the Contractor must. (For activities activities related to the Meror Station Works), the Contractor must. (For activities activities related to the Meror Station Works)	deformation		for information only	CLOSED	NA	NA.	For information only	Na Na	NA.
	22,02/2018	Annexure C	Section Number: 3 (A) Clause No. to be deleted in full: (B) Clause No. to be deleted in full: (B) Clause No. to be amended / replaced: 3(h) (C) New Clause No. to be added: (C) So Satishability Manager, being a full time resource from the date of the Contract Whough to the completion of Design Sage 3, then part-time (a) minimum of the organization of Design Sage 3, then part-time (a) minimum of the own and organization of Design Sage 3, then part-time (a) minimum of the own and minimum of the own and reprincipation (a) so a similar most own and a minimum of the own and organization (a) minimum of the own and the	Information		For information conly	CLOSED	NA.	NA .	For information only	NA.	NA .
CSM-REQ-023130	MR-Sy SM-17- 00000467 22/02/2018	9, (h), (xi)	the requirements of the biannual sustainable design report detailed in Appendix B07 Clause 3 (q).	Information		For information only	CLOSED	NA	NA	For information only	NA	NA.
	VVVVVVVV ZZ/UZ/ZU10		reportant por Giudat 3 (g).		1 1	<u> </u>						

Sustainability Management Plan



Appendix H. Requirements Change Log

The table below indicates requirements discussed with Principals Representative and where this plan deviates for the compliance requirements and any future potential changes.

Document Clause	Requirement	Plan Reference	Change / Potential change
MR-Sy 9e	The Contractor must provide an inventory of non-road diesel powered vehicles to be used for the Contractor's Activities within 1 month of the date of the Contract and subsequently, annually using TfNSW's Air Emission Data Collection Workbook 9TP-FT-439.	Section 5.2 Table 9	Change no. 1 The plan indicates that the 1 st inventory will be provided after 6 months and each 6 months subsequently. 6 months will allow for design, establishment period, and preconstruction planning to have progressed sufficiently to provide a more confident prediction. Change no. 2 "the requirement can be omitted mark this as complete or N/A" – The Principal (7/7/2022)
MR-Sy 7a	develop, implement and maintain a sustainable procurement policy and processes that comply with the requirements of BS 8903:2010 "Principles and framework for procuring sustainably – Guide"	SMP Section 4.1 Materials Management Plan Section 3.2	Change BS8903:2010 has been superseded by BS ISO 20400:2017. And Australia the relevant standard is now AS ISO 20400:2018 (ISO 20400:2017) Sustainable procurement Guidance.

Sustainability Management Plan



Appendix I. Community Initiative Proposal form

Name of Community initiative

Proposed by

Date submitted

Initiative category

- Construction: (benefits short term during project), OR
- Legacy: ongoing benefit beyond construction completion, does not require further external funding / assistance to continue (e.g. provision of equipment to an organisation / training initiative that can have long-lasting benefits).

Community group supported

*see potential categories below or suggest own with rationale.

Brief description of initiative

- who are we supporting,
- what need will we fulfil.
- what will we do,

Sustainability Management Plan



 what's the community outcomes

Location (address.)

Will initiative provide an opportunity for broader team to "get involved" as EPIC day e.g.

- Single event
- Multiple days
- Total number of people/ volunteers

Project management required for initiative and time commitment

• Who and how long?

Resources required (e.g. plant, labour, materials)

Indicative cost

Breakdown of proposed funding streams / sources

E.g. LOR cost, Subbie donations, Project "whip around", In kind donations etc.

Proposed timeframe

Planning

Implementation

Sustainability Management Plan



Review

Is the opportunity already mandated by the contract (note – looking for opportunities above and beyond contractual deliverables)

Community groups/ strategic focus

- Projects that support the homeless / or those in temporary sheltered accommodation.
- Projects that foster social inclusion: people with a disability or those isolated from community life
- Projects that help or support disadvantaged communities e.g. residents in social housing
- Projects that support or develop local art and cultural activities
- Indigenous projects that support Reconciliation and strengthen culture
- Projects that protect the environment and enhance and engage people with the natural environment
- Projects supporting healthy eating
- Projects encouraging physical activity across ages and abilities
- Projects linked to City of Sydney's Plan or the local health district's plan
- Projects that support older adults to age well in their communities
- Projects that strengthen newly arrived migrant communities
- Projects that support schools/education
- Projects that facilitate young people to actively contribute to their own community
- Projects that utilise LOR's core skills
- Projects that recognise and strengthen the community's understanding of local heritage

OTHER:

Definition of community

Community relates to the local government area around the project site.

Broader community can be a wider geographic area but generally in Sydney.

Sustainability Management Plan



Initiative evaluation (refer evaluation matrix below)

Self-assessmentJustification (please quantify as far as possible)

(1-5 or n/a)

Project merit

Engages project people

Engages the community

Capacity

Scalability

Communication

Central Station Main Works Project Sustainability Management Plan



Initiative Evaluation Matrix

	1	2	3	4	5
Project merit	1 focus area	2 focus areas	3 focus areas	>3 focus areas	>3 focus areas
Responds to community groups / strategic focus	S				
(specify the focus areas)					
Engages project people	Donations –	Epic day for 5 people	Epic day for 10 people	Epic day for 20 people	Epic day for >30 people
	no Epic days				
Engages community people	Doesn't respond to a local community need or group — e.g. donation only		 Meets community need Locally based and provides benefit to residents and communities 	 Meets community need Locally based and provides benefit residents and communities. Supports partnership between LOR and community 	and uses community skills in the planning and execution of the project 4. Supports partnerships between LOR and community in longer term of
Capacity Capacity to carry out what is being proposed, including	Just an idea- no contact made	Community group contacted and it's a potential live project	 Community group contacted and it's a potential live project A well-developed project plan which 	Community group contacted and it's a potential live project A well-developed project plan which can	project and legacy All items in place Capacity to carry out what is being proposed, including experience,

Central Station Main Works Project Sustainability Management Plan



experience, governance, peopl and resources A well-developed project plan which can be implemented in the timeframe A well-developed budget with clear income and expenditure	e No budget or program identified		can be implemented in the timeframe	be implemented in the timeframe Budget well developed	resources and budget
items identified					
Community project engaged					
Scalability	One off	(2 events) or 2 days	3 events (days)	More than 3 days-	Long lasting partnership
		Or annual – 2 days/ years	sOr annual 3 days / 3 years	different engagement each event	with multiple events or opportunities over project
			, ca. c		Different engagement each event
Communication	Monthly progress report	Internal communications (Sydney Metro & CONTRACTOR) e.g internal newsletters, presentations, Yammer etc.	External , case studies, social media	Published article (in relevant industry magazine) or conference presentation	Part of award nomination / industry best practice
Geography	Supports the NSW / Australian Community	Supports the Sydney and Greater Western Sydney Community		Supports the community 1km from project site	Directly supports the local community < 500m from project site