

SUSTAINABILITY

MANAGEMENT PLAN

	Site Details
Client:	Sydney Metro
Site Name:	Bays Road Relocation Works
Project Number:	6119-000
ID Code:	6119-ENV-MP-002

©2020 Georgiou Group Pty Ltd

Reproduction of this document, in whole or in part, in any format or media is prohibited without express permission from the authorised Quality Representative of Georgiou.

Sustainability Management Plan

Bays Road Relocation Works



Revision	Date	Revision Details	Environmental Representative	Project Manager
A	8/10/20	Draft for review	Chloe Redman	Brad Collins
B	2/11/20	Updated following comments	Chloe Redman	Brad Collins
C	10/11/20	Updated following comments	Chloe Redman	Brad Collins
D	13/11/20	Updated following comments	Chloe Redman	Brad Collins

TABLE OF CONTENTS

TERMS AND DEFINITIONS	4
1. INTRODUCTION.....	5
1.1 Project Description and Scope	5
1.2 Map of site area	5
1.3 Purpose of this Plan	5
1.4 Interface with other Management Plans	6
1.5 Communication of this Plan	6
2. SUSTAINABILITY POLICY	6
3. STRUCTURE AND RESPONSIBILITIES	6
3.1 Project Team Responsibilities.....	6
4. COMMUNICATION	6
4.1 Internal	6
4.2 External	7
4.3 Sydney Metro.....	7
5. SUSTAINABILITY INITIATIVES	7
5.1 Sustainability Objectives and Targets	7
6. IMPLEMENTATION	7
6.1 Integration during Design	7
6.2 Integration during Construction	8
7. SUSTAINABILITY RISKS.....	8
8. RESOURCE USE AND PROCUREMENT.....	8
8.1 Water Use.....	8
8.2 Resource Use.....	9
8.3 Supply Chain and Sustainable Procurement	9
8.3.1 Subcontractors and vendor engagement.....	10
8.3.2 Key Roles and Responsibilities.....	10
9. MONITORING AND REPORTING	10
9.1 Sustainability Inspections	10
9.2 Sustainability Reporting	10
9.2.1 Monthly Reporting.....	10
9.3 Auditing	10
10. REVIEW	10
APPENDIX 1 - GEORGIU SUSTAINABILITY POLICY.....	12
APPENDIX 2 - ROLES AND RESPONSIBILITIES	13

APPENDIX 3: SUSTAINABILITY INITIATIVES (PROPOSED)	16
1. INTRODUCTION	18
1.1 Purpose	18
1.2 Project Description	18
2. SUSTAINABILITY INITIATIVES	18

TERMS AND DEFINITIONS

Terms and definitions used within this document are listed below and further explained in Georgiou's *Terminology & Definitions Guideline*.

Term	Definition
CEMF	Sydney Metro Construction Environmental Management Framework
RFP	Request for Proposal
SMP	Sustainability Management Plan

1. INTRODUCTION

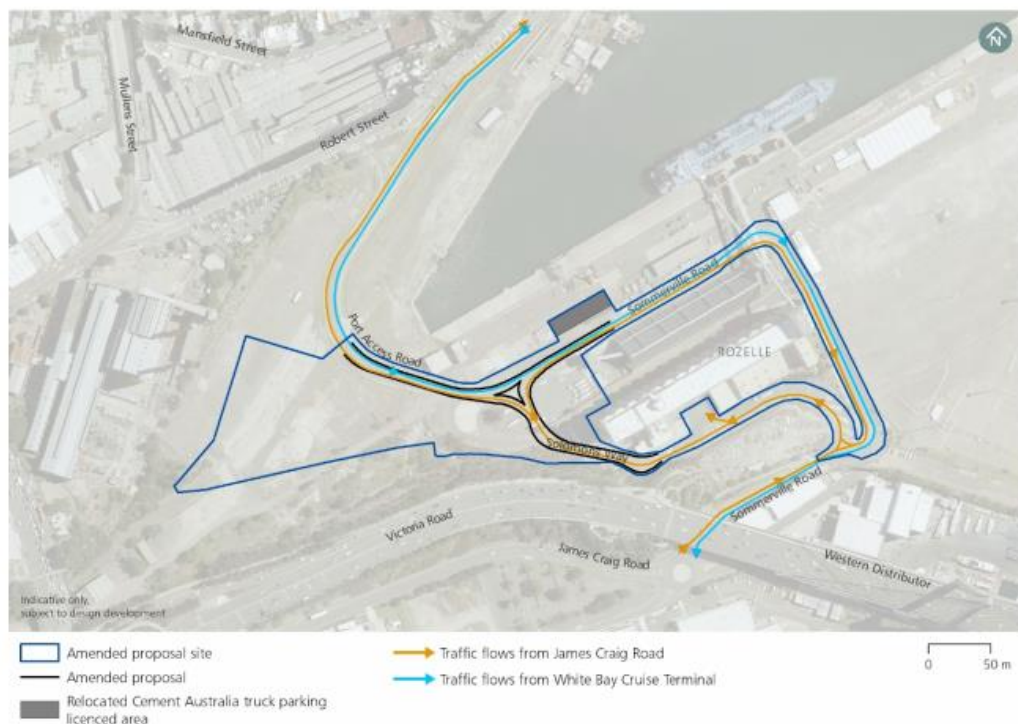
1.1 Project Description and Scope

Sydney Metro is proposing to configure the internal port road network at Rozelle to facilitate the orderly urban renewal of the Bays West area while maintaining access to the White Bay Cruise Terminal and other port operations at Glebe Island and White Bay. This includes long-term urban renewal initiatives for the Bays West area and works for various future developments within the locality, including critical works for the proposed Sydney Metro West. The proposal also provides the opportunity to improve road safety by reducing conflicting traffic movements in the internal port road network.

The proposal would be completed in two phases and would comprise the following key features:

- Reconfiguration of the intersection at Port Access Road / Sommerville Road / Solomons Way
- Line marking and signage at Port Access Road, Sommerville Road and Solomons Way in the east of the proposal site to establish one-way flows and reduce conflicting traffic movements
- Relocation of Cement Australia Truck Parking Licenced Area to the north-east.

1.2 Map of site area



1.3 Purpose of this Plan

The purpose of this Sustainability Management Plan (SMP) is to describe how the Georgiou Team will deliver on the sustainability aspects of the Bays Road Relocation Project (named the Project hereafter). The Sustainability Management Plan provides an outline of how the Sydney Metro CEMF and contract sustainability requirements will be applied throughout the design and construction of the project to achieve the targeted sustainability outcomes.

1.4 Interface with other Management Plans

Achieving sustainable outcomes and delivering on sustainability obligations is a core responsibility of all divisions on the project. The SMP works in conjunction with the project management plan and interfaces across other management plans including the planning, design, procurement, construction, health and safety, community and stakeholder, and environment management documents.

1.5 Communication of this Plan

The Project Manager is accountable for ensuring:

- Location and access to the management plans will be communicated at induction
- Site communication forums will also be used to communicate specific requirements of the plans
- Any changes made to the Management Plan are communicated to all affected persons on the site

2. SUSTAINABILITY POLICY

Georgiou's Corporate Sustainability Policy commits the organisation to promoting a culture of sustainability across all operations and minimising environmental and social impacts by:

- Integrating sustainability initiatives throughout the business
- Maintaining ethical responsibility in project management, procurement and employment
- Setting sustainable objectives and targets annually
- Engaging with local communities
- Supporting a diverse, engaged, motivated and competent workforce
- Facilitating the sharing of ideas, knowledge and innovation that provide sustainable benefits
- Maintaining health and safety of workforce, community and environment
- Delivering sustainable profits without compromising social, legal or contractual obligations,

A copy of the Sustainability Policy is provided in APPENDIX 3.

3. STRUCTURE AND RESPONSIBILITIES

3.1 Project Team Responsibilities

Achievement of the project sustainability objectives is the responsibility of the entire project team. It is recognised that leadership from the senior management team, with the support of key personnel within the delivery team, is critical in successfully delivering a sustainable project. The roles and responsibilities of the Project Team members with respect to sustainability are presented in appendix 2.

4. COMMUNICATION

4.1 Internal

Sustainability will be a core topic discussed during weekly project meetings. The current status of sustainability requirements will be presented during the meetings, including progress on meeting sustainability requirements within key disciplines including design, construction, procurement, environment, and community and stakeholder management. The meeting will also be used to track performance against contract requirements and to provide an opportunity to discuss options to improve sustainability outcomes for the project.

Other internal communication methods to discuss sustainability include:

- Management monthly reports;
- Senior leadership team meetings;
- Design and construction meetings;
- Audit reports;
- Staff updates;
- Inductions, training and toolbox sessions; and
- Briefings, notifications and alerts.

4.2 External

Sustainability information may be communicated through the Georgiou intranet, construction notification updates, community engagement events (e.g. Community Reference Group) or meetings, and information sessions.

Communication of sustainability initiatives and achievements by the project to the wider industry will primarily be completed by Sydney Metro. In circumstances (i.e. where Sydney Metro requests specific communication of a sustainability initiative or achievement) Georgiou may participate in events and conferences to showcase initiatives developed on the Project. Examples of this may include Conferences, and Industry Working Groups.

4.3 Sydney Metro

As the client and asset owner, Sydney Metro will be consulted with a view to ensuring technically complex information is communicated and clarified during the design and construction phases of the project. Meetings with Sydney Metro representatives will be held on an as-needs basis to discuss sustainability performance, concerns and options for solution.

5. SUSTAINABILITY INITIATIVES

5.1 Sustainability Objectives and Targets

Sustainability initiatives are to be formally agreed on between Sydney Metro and Georgiou. Potential sustainability initiatives are included as Appendix 3 of this Plan. A forum will be established by Georgiou within the first quarter of the project to formally agree upon sustainability initiatives. The way in which these sustainability initiatives will be implemented can be found in the Pre-Construction Sustainability Report in Appendix 4.

6. IMPLEMENTATION

6.1 Integration during Design

The Sydney Metro CEMF section 3.2b design requirements will be implemented throughout the design phase of the project and design reports will clearly document how sustainability aspects are integrated. Design reports are prepared for Sydney Metro review at 15%, 85% and 100% design stages. Where applicable, sustainability aspects will also be considered at each design stage and documented within each revision accordingly.

A register of sustainability initiatives shall be maintained to document all initiatives proposed and those implemented for the project. Key initiatives and potential innovations identified in design reports shall be transferred into the register for consideration.

6.2 Integration during Construction

The Sydney Metro CEMF section 3.2b construction requirements will be implemented throughout construction. The project team will be informed of relevant sustainability commitments and expectations for integration during the construction phase of the project.

Internal management reviews of sustainability will be undertaken to assess project performance and foster the understanding and reinforcement of sustainability in construction practices.

The outcomes of reviews, inspections and recommendations for improvement will be discussed with the project team to raise awareness about sustainability, how it is applied on the project and the performance of this project against specified targets.

7. SUSTAINABILITY RISKS

Risks related to sustainability have been included in the Project Risk Register. Risks considered may be related to environmental, social or economic impacts and may also be potentially triggered by the effects of climate change. All project risks are maintained in the Project Risk Register and actions targeting mitigation for relevant risks have been included in the design.

8. RESOURCE USE AND PROCUREMENT

The objectives of this section is to identify and implement opportunities to minimise embodied impacts and facilitate the wider sustainability targets outlined in this CSMP and Strategy. This has been done to address the requirements of the Sydney Metro - Construction Environmental Framework and the Planning and Reporting Specification. The following requirements are applicable to this section:

- The low carbon strategies and initiatives that will be implemented to minimise the carbon emissions
- The strategies and initiatives that will be implemented to minimise overall water use, maximise the availability and use of non-potable water sources
- The strategies and initiatives that will be implemented to maximise the use of recycled materials
- The strategies and initiatives to recycle and reuse materials onsite

8.1 Water Use

Water will be needed for the project for the following uses:

- Minimise dust,
- Support landscaping,
- Clean down plant and equipment
- Achieve compaction requirements.

To help minimise water use, the Project will undertake the following measures:

- All water used will be monitored on a monthly basis
- Maximise the use of non-potable water as much as possible
- Reseeding of stockpiles to minimise the need for continuous watering
- Reuse rainwater from tanks
- Investigate the potential to install bores or use pre-existing bores to extract ground water to be used during Construction

8.2 Resource Use

Construction of the Project would require various materials and pre-cast elements. The major construction materials required would include:

- General fill and select fill for earthworks
- Pavement materials including road base and sub-base
- Materials for lining drainage channels
- Concrete
- Asphalt
- Bitumen
- Steel for reinforcement
- Wood for use in formwork and other temporary structures
- Water
- Pre-cast concrete including pipes, culvert segments and roadside barriers

Materials would be sourced from appropriately licensed facilities and commercial suppliers in nearby areas. None of the materials proposed to be used are considered to be in short supply.

A minimum of 95% of construction and demolition generated materials (non-spoil, uncontaminated) based on percent diversion from landfill will be reused on site or recycled off site. 100% of usable spoil will be reused or recycled (On or Off Site). The Construction Waste Management Plan (WMP) (Appendix 1 of the CEMP) also contains information on how the Project will reuse/recycle materials where practically possible.

Electricity needs on the site would be minor, and connection of the office to the solar panel system installed by Sydney Metro would be sufficient.

Georgiou will explore options where the Project can utilise recycled materials (such as recycled aggregates in road pavement and surfacing; steel with recycled content) for use in Construction or operation of the Project where they are cost, quality and performance competitive.

8.3 Supply Chain and Sustainable Procurement

Essential for the effective incorporation of sustainability is comprehensive procurement planning. All procurement of materials, goods and services will reflect the sustainability requirements for the Project. These include:

- A commitment to require environmental, social and economic aspects to be considered in the procurement process
- Potential suppliers will be requested to provide details of their environmental and sustainability policy, its implementation and sustainability objectives and/or targets
- A transparent and robust procedure and policy will be embedded to prioritise procurement from local businesses including Georgiou's subcontractors, voluntary sector organisations, consultants and suppliers but also extending to service providers and employment opportunities within the program.
- Processes will be implemented to ensure dematerialisation, minimum environmental impact of resources (including low embodied energy, standard sizes, recyclability and local sourcing), fair contract prices are met and minimum ethical and regulatory requirements are complied with.
- Key subcontractors will be selected based on demonstrated sustainability experience, including past experience with sustainability rating tools, or a demonstrated cultural willingness to embrace sustainability initiatives.

8.3.1 Subcontractors and vendor engagement

All subcontractors and vendors will be requested to complete the Georgiou pre award checklist. Where practical, sub-contractors may be requested to remove packaging waste to be reused in future products.

8.3.2 Key Roles and Responsibilities

Georgiou's Project Team organisational structure and overall roles and environmental responsibilities are outlined in Section 6.1 of the CEMP. Specific responsibilities for the implementation of sustainability management are detailed in Appendix 2 of this plan.

9. MONITORING AND REPORTING

Monitoring and recording performance against the achievement of the sustainability criteria for the project shall be conducted on at least a monthly basis prior to project meetings with Sydney Metro. Where monitoring identifies credit targets that are not being met, corrective actions may be discussed or the credit target may be reviewed in parallel to design and project progress.

9.1 Sustainability Inspections

Environment and Sustainability Inspections will be completed in order to monitor the implementation of sustainability requirements across project sites. Inspections will be completed by a suitably qualified member of the project team.

9.2 Sustainability Reporting

9.2.1 Monthly Reporting

A monthly Environment and Sustainability report will be prepared in accordance with SME ES-FT-429 Template and presented to Sydney Metro and Project Management Team outlining the implementation of this Plan and detailing progress.

The report will include:

- Highlights/updates;
- Key initiatives considered and progressed;
- Sustainability proposals (opportunities);
- Recycled Material and waste statistics;
- Fuel and Energy use statistics.

9.3 Auditing

Internal sustainability auditing frequency will be agreed on between the Project Manager and Corporate Quality Manager, and will be included within the projects Audit Schedule.

10. REVIEW

This plan will be reviewed and updated at least annually, and in response to:

- Changes to project definition and or scope;
- Opportunities for improvement being identified by the team, formal review or audit; and
- Changes to initiative and sustainability targets.

APPENDIX 1 - GEORGIU SUSTAINABILITY POLICY



COMPANY POLICY



SUSTAINABILITY

Georgiou is committed to achieving sustainable growth by managing its operations to positively influence environmental, economic and social outcomes.

In order to achieve this commitment, Georgiou will:

- apply innovation, lifecycle thinking and effective planning to drive sustainable performance;
- be ethically responsible in managing project construction, materials procurement and companies employed;
- build long-term relationships with communities and stakeholders;
- support the workforce in being diverse, engaged, motivated and competent;
- engage with supply chain to achieve project sustainability objectives and targets;
- value a culture based on leadership, inclusiveness and personal development;
- facilitate the sharing of ideas, knowledge and innovation within the business and stakeholders;
- manage and minimise all environmental impacts;
- implement risk and hazard management principles to maintain the health and safety of its people, the surrounding community and the environment;
- create long-term sustainable outcomes for our clients aligned to their objectives; and
- deliver sustainable profitable growth while satisfying social, legal and contractual obligations.

All employees, and persons who work with Georgiou, have a personal responsibility for implementing this Policy.

SAFETY | PROFIT | RELATIONSHIPS | PEOPLE | INNOVATION



Rob Monaci
Chief Executive Officer
Georgiou Group
September 2020



APPENDIX 2 - ROLES AND RESPONSIBILITIES

Project Manager

The Project Manager is accountable for leading the sustainability culture and execution of the management system on the project and will:

- Ensure that sustainability is considered in decision making and procurement
- Ensure sustainability is communicated from the project to Senior Management
- Support assessment of sustainability initiatives and endorses implemented initiatives
- Hold as a minimum, monthly meetings to review sustainability performance and monitor implementation and effectiveness of the IS Framework.
- Ensure sustainability responsibilities of the project team are fulfilled and KPI's are achieved
- Support workers to immediately stop any 'At Risk Behaviour' identified during their work activities

Environmental Site Representative

The Environmental Site Representative has responsibility for sustainability and will:

- Ensure that the Sustainability Specialist successfully executes and implements this Sustainability Management Plan
- Oversee the development, implementation and monitoring of the sustainability initiatives identified on the Project
- Develop implement and report on/document the approach and outputs of the application of environmental sustainability aspects for the project.
- Apply sustainability requirements to the project management systems and procedures
- Develop, implement, assess and verify relevant sustainability measures for all project works
- Provide technical support and advice on sustainability matters to the procurement, design and construction teams
- Maintain a Register of Sustainability Initiatives and Opportunities
- Coordinate communication of sustainability initiatives, objectives, targets and performance
- Interface with Commercial Manager to ensure all services providers and sub-contractors understand and fulfil their sustainability requirements
- Work with Community and Stakeholder Engagement Representative in meeting the commitments Sydney Metro has made with respect to community and key stakeholders
- Liaise with Sydney Metro on relevant sustainability matters
- Coordinate and prepare sustainability reporting required by Sydney Metro.

Community and Stakeholder Engagement Representative

The Community and Stakeholder Engagement Rep is responsible for ensuring that sustainability commitments related to stakeholder and community engagement are honoured and will:

- Provide direction and support for the implementation of this Sustainability Management Plan during consultation and engagement activities
- Develop, implement and report on/document the approach and outputs of the application of the social sustainability aspects for the project.
- Ensure stakeholder and community engagement specific requirements for sustainability are achieved.
- Support credit owners with elements of stakeholder and community engagement to achieve desired performance levels

Commercial Manager

The Commercial Manager provides direction and support for the implementation of this Sustainability Management Plan during procurement and commercial activities and will:

- Develop, implement and report on/document the approach and outputs of the application of the governance related sustainability aspects for the project.
- Facilitate the use of commercial administrators, estimators and quantity surveyors to assist with the preparation, collation and analysis of energy, water, materials and waste data.
- Ensure procurement and governance specific requirements for sustainability are achieved

Senior Project Engineer

- The Senior Project Engineer is responsible for creating an exemplary HSE culture and ensuring adherence to sustainability requirements, and will:
- Understand and ensure implementation of all sustainability requirements relevant to works on site
- Participate in sustainability performance review at site meetings
- Ensure recording and communication of all relevant data and documentation related to sustainability requirements
- Review, evaluate and update Site Risk Registers, including sustainability risks; and incorporate sustainability risk controls, procedures and permits into their planning processes of design review and work method statements
- Assist in the identification and resolution of sustainability related issues arising within their construction area of responsibility
- Ensure their direct reports fulfil their sustainability responsibilities and achievement of KPI's
- Support workers to immediately stop any 'At Risk Behaviour' identified during their work activities

Project Engineer

The Project Engineer is responsible for creating an exemplary HSE culture and ensuring adherence to sustainability requirements, and will:

- Understand and ensure implementation of all sustainability requirements relevant to works on site
- Participate in sustainability performance review at site meetings
- Ensure recording and communication of all relevant data and documentation related to sustainability requirements
- Review, evaluate and update Site Risk Registers, including sustainability risks; and incorporate sustainability risk controls, procedures and permits into their planning processes of design review and work method statements
- Assist in the identification and resolution of sustainability related issues arising within their construction area of responsibility
- Close out of actions to address hazards/incidents/ complaints/ non-conformances in a timely manner
- Support workers to immediately stop any 'At Risk Behaviour' identified during their work activities

Superintendent

The Superintendent is responsible for creating an exemplary HSE culture and ensuring adherence to the Management System on their site. The Superintendent is responsible for approving the commencement of works and to allocate necessary resources to complete a job safely in accordance with the Management Plan and will:

- Understand and ensure implementation of all sustainability requirements relevant to works on site
- Ensure recording and communication of all relevant data and documentation related to sustainability requirements
- Demonstrate commitment to the Environment by monitoring the workplace to ensure work practices are adhered to by way of routine checks of the workplace compliance to the Management Plan
- Demonstrate through their actions and behaviour that safety and the environment are core values
- Hold Supervisors and leading hands (Georgiou & subcontractors) accountable for the fulfilment of their Environmental responsibilities, including KPI's
- Allocating work to ensure appropriate supervision for those with lesser experience
- Ensure appropriate and necessary plant and equipment is provided for workers to carry out their work safely and without undue harm to the environment
- Stop, rejecting or quarantining materials, plant and equipment where these do not comply with requirements
- Support workers to immediately stop any 'At Risk Behaviour' identified during their work activities
- Participate in audits, investigations and constructability reviews
- Manage works and HSE performance of the subcontractors utilised on site.

Supervisor

The Supervisor is responsible for creating an exemplary HSE culture and ensuring workers under their supervision work in accordance to the Management System and will:

- Understand and ensure implementation of all sustainability requirements relevant to works on site
- Ensure recording and communication of all relevant data and documentation related to sustainability requirements

- Demonstrate commitment to the Environment HSE by monitoring the workplace to ensure safe work practices are adhered to by way of routine checks of the workplace compliance to the Management Plan and other GMS requirements
- Demonstrate through their actions and behaviour that safety and the environment are core values
- Hold workers accountable for the fulfilment of their Environmental responsibilities and working in accordance to their JHA, permit or safe work instruction
- Allocate work to ensure appropriate supervision for those with lesser experience
- Ensure appropriate and necessary plant and equipment is provided for workers to carry out their work safely and without undue harm to the environment
- Stop, reject or quarantine materials, plant and equipment where these do not comply with requirements
- Support workers to immediately stop any 'At Risk Behaviour' identified during their work activities
- Participate in audits, investigations and constructability reviews
- Manage works and Environmental performance of the subcontractors utilised on site.

All Personnel

All personnel on site are responsible for:

- Carrying out their work in a manner, which does not put themselves or others at risk of harm
- Only performing tasks for which they are competent
- Clarify with their supervisor any matter which may put them or others at risk of harm
- Ceasing work and reporting when an unsafe act is identified
- Attending pre-start meetings
- Conducting pre-start tasks (Take 5's, plant pre-starts)
- Attending Environmental and Sustainability presentations and toolbox meetings
- Reporting incidents, illness, injuries and hazards
- Assisting in achieving the site performance goals
- Working proactively with the Client
- Ensuring compliance with the requirements of the HSE management system
- Participating and adhering to SWI's and JHA's
- Adhering to all permit requirements
- Removing or isolating any hazard identified during daily work activities
- Immediately stopping any 'At Risk Behaviour' identified during daily work activities
- Complying with statutory and regulatory requirements

APPENDIX 3: SUSTAINABILITY INITIATIVES (PROPOSED)

Initiative/ outcome description	Aim/ Target of initiative	Value which will be achieved? Extent of impacts?	Measure on completion of contract	Potential cost savings
Investigate: Use of warm-mix asphalt	Reduction in maximum asphalt production temperature and energy use/CO2 emissions	TBC with asphalt supplier. Ideally at least 20°C reduction	Asphalt production temperature compared with typical production temperature	Note cost and sustainability impact of additives for warm - mix may offset benefits from temperature reduction
Investigate: increasing RAP content in asphalt	Increase use of recycled material up to 15% and reduce use of virgin material in asphalt	Saving of new asphalt production Use of recycled material	Tonnes of new asphalt production saved. Tonnes CO2 saved	Expected to generate minor cost savings through reduced virgin material use in initial build
Investigate: Use of S45R binder in lieu of S35E for seals on FDA pavements	S45R contains recycled rubber from car tyres, which is beneficial compared to manufactured polymer in S35E	Recycling of car tyres to produce binder. Use of recycled material	Volume of rubber used to produce binder. Volume of Polymer saved by not using S35E	Note a small increase in bitumen spray rate may be required and may offset benefits. Expected to be cost neutral, potential to have minor cost impact
Recovery and Re-use of existing pavements (resurfacing).	Maximise the reuse of asphalt	Reduction in material use and CO2 emissions from construction of pavements	Square metres of pavement re-used onsite or sent offsite for reused. Tonnes of material saved	Expected to result in cost savings reusing onsite or reusing offsite under Resource recovery act vs sending to landfill as GSW
Utilise LED lighting towers for temporary lighting on site	Minimise impact of temporary construction lighting on sensitive receivers and road users	No complaints related to temporary construction lighting from sensitive receivers or road users	Compliance with AS 4282/ 1158	Neutral
Spoil management	100% of non-contaminated Spoil is beneficially reused onsite or offsite	Reduce material use Diversion from landfill	Reduce materials Reduce landfill disposal costs	Expected to result in cost savings reusing onsite or reusing offsite under Resource recovery act vs sending to landfill as GSW

Sustainability Management Plan

Bays Road Relocation Works



Investigate the use energy efficient site accommodation (if temporary accommodation used)	Reduce energy and water use from site accommodation	Reduce energy use Reduce water use	Reduce CO2 emissions	Neutral
Waste diversion from landfill	Maximise waste diversion from landfill	Enhance resource efficiency	Achievement of Georgiou 80% target for waste diversion from landfill	Neutral
Reduction in potable water use onsite by harvesting construction water in a basins / sumps for dust suppression and fill conditioning	Reduce potable water use	Reduction in CO2 emissions associated with water treatment for potable means.	KL water used from onsite harvest	Neutral

APPENDIX 4 - PRE-CONSTRUCTION SUSTAINABILITY REPORT

1. INTRODUCTION

1.1 Purpose

This Pre-Construction Sustainability Report forms part of the Sustainability Management Plan. This plan outlines the sustainability initiatives identified in design and how they will be implemented in construction.

1.2 Project Description

Sydney Metro is proposing to configure the internal port road network at Rozelle to facilitate the orderly urban renewal of the Bays West area while maintaining access to the White Bay Cruise Terminal and other port operations at Glebe Island and White Bay. This includes long-term urban renewal initiatives for the Bays West area and works for various future developments within the locality, including critical works for the proposed Sydney Metro West. The proposal also provides the opportunity to improve road safety by reducing conflicting traffic movements in the internal port road network.

The proposal would be completed in two phases and would comprise the following key features:

- Reconfiguration of the intersection at Port Access Road / Sommerville Road / Solomons Way
- Line marking and signage at Port Access Road, Sommerville Road and Solomons Way in the east of the proposal site to establish one-way flows and reduce conflicting traffic movements

Relocation of Cement Australia Truck Parking Licenced Area to the north-east.

2. SUSTAINABILITY INITIATIVES

Table 1 below outlines the sustainability initiatives and how Georgiou may implement them on site. It is important to note that these initiatives will be confirmed on site in consultation with the client due to feasibility of the initiative in relation to cost, time and project quality objectives.

Applicable to design or construction	Initiative	How it will be implemented
Design and construction	Investigate: Use of warm-mix asphalt Reduction in maximum asphalt production temperature and energy use/CO2 emissions	The use of warm mix as opposed to hot mix asphalt will be used. This will be dependent on acceptance from a design perspective.
Design and construction	Investigate: increasing RAP content in asphalt. By increasing the use of recycled material up to 15% and reduce use of virgin material in asphalt saves the production of new asphalt and uses recycled materials.	The use of a greater recycled content will used. This will be dependent on acceptance from a design perspective.
Design and construction	Investigate: Use of S45R binder in lieu of S35E for seals on FDA pavements as S45R contains recycled rubber from car tyres, which is beneficial compared to manufactured polymer in S35E	The use of this alternate material will be used. This will be dependent on acceptance from a design perspective.

Construction	Recovery and Re-use of existing pavements (resurfacing).Maximise the reuse of asphalt	Existing pavement will be re-used on site where possible or disposed of at a recycling facility
	Minimise impact of temporary construction lighting on sensitive receivers and road users	No complaints related to temporary construction lighting from sensitive receivers or road users
Design and construction	Reduce energy and water use from site accommodation	Site sheds will be connected to existing solar power grid. Lights will be turned off when not in use. LED lighting towers to be used for temporary lighting.
Construction	Maximise waste diversion from landfill	Waste generated on-site will either be reused on site, or sent to a recycling facility Recycling bins will be provided for steel and co-mingled (paper & plastic) waste.
Construction	Reduce potable water use	Rain water tanks on site in use, water used for dust suppression will only be used when necessary. Misters to be used for water suppression in lieu of hoses
Construction	100% of non-contaminated Spoil is beneficially reused onsite or offsite.	Excavations will be planned in order to maximise re-use of spoil in cut to fill. Where spoil can't be re-used on site it will be sent to a recycling facility.
Construction	Reduce fuel use in Plant and Vehicles	When idling, vehicles will be required to turn off their engines to minimise fuel use