



SDGs	FOCUS AREAS	Targets			Monitoring Method - Design & Construction	Reporting Period	Responsibility during D & C		Monitoring Method- Operation	Responsibility during Operation	Related IS credit(s)	Implementation Action(s) Taken - Design	Status of sustainability target			Evidence required to demonstrate close out compliance
		Detailed Design	Construction	Operation			Design	Construction					Design	Construction	Operation	
	Relieve congestion and maximise connectivity for today and the future. Future proof the project for changes in technology.	Review the recommendations of the ITS investigations undertaken during the planning phase and implement measures in the design to help mitigate congestion.	Install at least 1 congestion mitigation measure.	Maintain the congestion mitigation measure.	Design reports & drawings As constructed drawings.	Monthly	Design and Construction Interface Manager Design Manager	Construction Manager	Maintenance Records	Main Roads.	Res-1 Ecn-1	Design considers traffic modelling aspects for recommendation. Interface Variable Message Sign on South Bound of freeway incorporated in design.	Implemented	Ongoing	To be reviewed in operational phase	100% design showing VMS sign on SB Freeway (GBJV-02-SM-DRG-0036) & SWTC Section 4.22
 	Ecology and Stakeholder involvement	Investigate at least 3 opportunities to reduce light spill to sensitive receptors. Collaborate with other government agencies or projects in the local area regarding resource efficiency opportunities (e.g. source/share resources such as fill).	Install at least 1 opportunity to reduce light spill.	MRWA as part of operation. Identify opportunities for resource efficiency during maintenance activities	Design reports & drawings As constructed drawings Monthly sustainability reporting Lighting audit. Community and Stakeholder Engagement reporting. Monthly sustainability report Resource Efficiency Action Plan	Monthly Monthly	Design and Construction Interface Manager Design Manager Community and Stakeholder Engagement Manager Design and Construction Interface Manager	Design and Construction Interface Manager Construction Manager Construction Manager	Maintenance Records Maintenance Records	Main Roads. N/A	Env-5 Ecn-1 Rso-1 Sta-1	LED lights for PSP and freeway incorporated into design. Motion activated LED lights on PSP also included in design. The project has liaised with the Public Transport Authority to utilise excess material from the Yanchep Rail Extension (YRE) project for use as fill in the earthworks package. This information is reported through to MRWA in the monthly Environmental / Sustainability report. Material has been incorporated in earthworks for both project and ultimate works. No other opportunities identified for the project.	Implemented Implemented	Ongoing Ongoing	To be reviewed in operational phase To be reviewed in operational phase	100% lighting design report showing change to LED for street lighting & PSP. Motion sensing PSP Lights in PSP in lighting design report. SWTC showing motion sensing lights on PSP. Records of meetings with YRE project (emails). Records of YRE excess fill being utilised in the MEJV project - Monthly Report fill records.
 	Workforce, employment and education access	Identify opportunities to partner with local TAFE or University to provide site tours/project talks for students of engineering or other related studies. Ensure the design incorporates materials that are able to be sourced locally.	Provide at least 1 site tour/project talk with local TAFE or University.	N/A Maintain the asset from predominantly local supplies.	SWTC Compliance Monthly sustainability reporting Project audits. Design reports & drawings As constructed drawings Monthly sustainability reporting Project audits.	Monthly Monthly	Community and Stakeholder Manager Project Manager Design and Construction Interface Manager	Community and Stakeholder Manager Project Manager Contracts Manager	N/A Maintenance Records	N/A Main Roads.	Wfs-2 Spr-1 Rso-1	Still under investigation. Opportunities being explored further. Subcontracts setup are to target local spend. Use of local materials are targeted for procurement on all packages.	Ongoing Implemented	Ongoing Ongoing	To be reviewed in operational phase To be reviewed in operational phase	Records sheet with name list of site tour Photographic evidence of university students attending site tour Full list of sub contractors to be provided demonstrating Western Australian spend if required.
	Aboriginal participation strategy is developed and implemented.	Aboriginal employment – at least 10% of Mitchell Extension JV's Total Project. Work Hours undertaken by Aboriginal Persons Aboriginal Business procurement – works and/or services to a value of at least 2% of the Contract Sum undertaken by Aboriginal Businesses.	Continue to implement Main Roads' Aboriginal participation strategy.	SWTC Compliance Workforce statistics and reporting Project audits.	Monthly	Aboriginal Participation Coordinator Community and Stakeholder Manager	Aboriginal Participation Coordinator Construction Manager	N/A	N/A	Wfs-1 Wfs-2 Wfs-4	The project is engaging with local aboriginal employment providers for labour hire where possible as part of contract award (process for procurement).	Implemented	Ongoing	To be reviewed in operational phase	Monthly Project Report with Aboriginal spend total. One contract with aboriginal labour supply company.	
	Facilitate active and recreational transport	Include in the design at least 2 initiatives to improve access and promote use of Neerabup National Park.	Construct initiatives as per design to improve access to Neerabup National Park are implemented	Maintenance of constructed access and promotion.	SWTC Compliance Design reports Monthly sustainability reporting Project audits.	Monthly	Design and Construction Interface Manager Design Manager Site Environmental Manager	Design and Construction Interface Manager Site Environmental Manager	Maintenance Records	Main Roads.	Leg-1 Her-1 Sta-1	Additional access points to the national park from Lukin Drive and Butler Boulevard in 100% design. Signage to be provided with cultural heritage information. Section of the Yaberoo Budjara trail upgraded where the freeway intersects the trail.	Implemented	Ongoing	To be reviewed in operational phase	Romeo Road underpass 100% design . Photos of logs to be used in the landscape package. Photos and records of the seed collected locally for use in the landscape package. 100% landscape design showing seed list including seed species that were collected. Evidence of workshop completed where cockatoo trees were avoided. Evidence of the signage in the landscape design or Neerabup National Park excision strategy. Photos of signage erected at entry points to the Neerabup National Park.
	Legacy	Investigate opportunities to maintain and enhance the ecological function and connectivity of Neerabup National Park.	At least 1 opportunity to maintain or enhance the ecological function and connectivity of Neerabup National Park is installed.	Maintenance of the asset.	Design reports & drawings As constructed drawings SWTC compliance Environmental reporting	Monthly	Design and Construction Interface Manager Design Manager Site Environmental Manager	Design and Construction Interface Manager Site Environmental Manager	Maintenance Records	Main Roads.	Eco-1 Sta-1 Leg-1	Yaberoo Budjara Heritage trail is being upgraded by the following: Fauna Underpass providing connectivity in a north south direction. Fauna logs and seed collected to be utilised as part of the landscape package. Earthworks extent revised to avoid 17 Cockatoo trees.	Implemented	Ongoing	To be reviewed in operational phase	
 	Ecology and water	Minimise clearing required for permanent works.	No additional clearing for temporary works.	Maintain cleared areas.	Design reports & drawings As constructed drawings Monthly sustainability reporting Compliance with SWTC	Monthly	Designer and Construction Interface Manager Site Environmental Manager	Construction Manager Site Environmental Manager	Maintenance Records	Main Roads.	Eco-1	Vegetation clearing reduction workshop completed with design team to revise earthworks extent to avoid Cockatoo trees with 17 avoided. Environmental inspections of the project area. Ground Disturbance Permit process requires Environmental Manager to walk boundary further identifying any Cockatoo trees / priority flora which can be avoided.	Ongoing	Ongoing	To be reviewed in operational phase	Evidence of clearing reduction workshop completed with GHD & BGE. Filled out GDP with criteria in relation to no clearing for temporary works. Map showing cleared areas within the project area versus design extent

		Investigate opportunities to reduce water use across lifecycle by 5%	Implement opportunities to reduce water use by 5%	Maintain landscaping with minimal or no irrigation requirements	SWTC compliance Design reports & drawings Landscape and urban design plan Monthly sustainability reporting Project audits		Design and Construction Interface Manager Site Environmental Manager	Construction Managers Site Environmental Manager	Maintenance Records	Main Roads	Wat-1 Ecn-1	Prioritise earthworks during winter period. Implementation of dustex in earliest stage possible. Sequencing of earthworks to reduce water consumption. Early application of mulch / topsoil to mitigate water use in these areas.	Implemented	Ongoing	To be reviewed in operational phase	100% landscape design application Evidence of dustex application Evidence of mulch / topsoil application Monthly Water / Energy monitoring spreadsheet Water model demonstrating 5% water reduction
	Mitigation of carbon emissions	Update carbon emissions modelling and investigate reduction opportunities to reduce energy use across lifecycle by 5%	Implement feasible carbon emissions reduction opportunities during construction to reduce use by 5% across lifecycle of the project	Maintenance of the asset as per operation and maintenance planning	Design reports & drawings As constructed drawings Monthly sustainability reporting Compliance with SWTC Energy modelling	Monthly	Design and Construction Interface Manager	Construction Manager	Maintenance Records	Main Roads	Ene-1 Ene-2 Ecn-1	Preference for procurement of local companies that demonstrate savings in their products / operations associated carbon emissions. Design modifications resulting in reductions in structures dimensions (Bridges, noise walls, etc) resulting in energy savings. Use of YRE project material for fill in Zone 3 resulting in significant energy savings for the project.	Implemented	Ongoing	To be reviewed in operational phase	Monthly energy monitoring spreadsheet. Monthly Evidence of change of HPS to LED lights (15% to 100% Lighting design report). Use of temporary solar powered lights used on the project Vegetation clearing records. Evidence of local sourcing of materials to the project.
	Materials, energy, water consumption, waste production (whole of life).	Investigate at least 3 opportunities to utilise recycled materials on the project.	Implement at least 1 opportunity to utilise recycled material.	Maintenance of the asset as per operation and maintenance planning	SWTC compliance Design reports & drawings Landscape and urban design plan Monthly sustainability reporting	Monthly	Design and Construction Interface Manager	Construction Manager	Maintenance Records	Main Roads.	Rso-1 Rso-6 Rso-4 Ecn-1	MEJV is using other projects (YRE) fill material for the required earthworks package and future embankment at Romeo Road. MEJV is using 25% Recycled Asphalt in the FDA layer. MEJV is undertaking a site won limestone trial in base course of the Shared path. Cut to fill balance for the earthworks component of the project.	Implemented	Ongoing	To be reviewed in operational phase	YRE fill import records (Monthly report). Monthly sustainability report showing use of recycled fill from YRE Project Downer utilising 25% RAP in FDA areas 100% Design showing use of Downer RAP material Monthly Sustainability Report detailing waste records.
Design to include initiatives to reduce material lifecycle impact by 5% from baseline quantities (Reference design)		Implement initiatives to reduce at least 5% of material use across lifecycle of the project	Monitor and maintenance of the asset.	SWTC compliance Design reports & drawings Landscape and urban design plan Monthly sustainability reporting Materials Calculator	Monthly	Design and Construction Interface Manager	Construction Manager	Maintenance Records	Materials Calculator to show 5% savings in materials from reference to 100% design. Comparison of design from reference to 100% design with changes such as Bridge 1878 which was originally a tunnel approx. 200m to a 78m bridge long. Monthly report detailing limestone boulders sent to Quinns Rock Marina.							
Develop resource efficiency plan to achieve waste diversion targets during construction		Must adhere and report on landfill diversion targets: 70-80% by volume of spoil 25-50% by volume of inert and non-hazardous 25-40% by volume of office waste	Implement waste hierarchy for waste disposal	SWTC compliance Design reports & drawings Landscape and urban design plan Monthly sustainability reporting Project audits	Monthly	Design and Construction Interface Manager	Construction Manager	Maintenance Records	These targets are undertaken in accordance with the Resource Efficiency Action Plan and Construction Environmental Management Plan with totals reported via the MRWA monthly report.							