



Greater Connect
ALLIANCE

Great Eastern Highway Bypass Interchanges Sustainability Objectives and Targets



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Focus Topic	Objectives	Phase	Target (Following SMART Approach)	Responsible Owner	Relevant Credit(s)
Enhanced Urban Design and Placemaking	Maximise opportunities for vegetation rehabilitation around Helena River	Design	Investigate at least two opportunities to improve environmental outcomes by providing WSUD solutions, revegetation of adjacent degraded areas or other Green infrastructure initiatives	GCA Design Manager	Con-2, Gre, 1, Env-1, Eco-1, Her-1
		Construction	Implement one of the opportunities.	GCA Construction Manager	Con-2, Gre, 1, Env-1, Eco-2, Spr-1
		Operation	Maintain the enhanced environmental outcomes for the maintenance period (5 yrs).	GCA Team and MRWA	Gre, 1, Env-1, Eco-3
		Design	Prepare and implement a landscape plan to maximise the vegetation density, species diversity, and survival rate for the Lloyd Street rehabilitation area	GCA Environment Manager	Eco-1, Eco-2, Her-1, Leg-1
		Construction	Re-plant the Lloyd Street embankment and associated offset area with a variety of species (up to 20) including replacement of E. rudis (2 replacements for every 1 removed)	GCA Environment Manager	Eco-1, Eco-2, Her-1, Leg-1
		Operation	Commit to a 5-year monitoring period to assure the successful maturation of the new vegetation	GCA and MRWA	Eco-1, Eco-2, Her-1, Leg-1
	Enhance the Helena River Crossing and surrounding area	Design	Investigate at least 2 opportunities to enhance the Helena River precinct in consultation with key external stakeholders	GCA Design Manager	Con-2, Gre-1, Eco-1, Her-1, Sta-2
		Construction	Implement at least 1 opportunity to enhance the Helena River precinct identified during consultation with external stakeholders	GCA Construction Manager	Con-2, Gre-1, Eco-1, Her-1, Sta-2
		Operation	Maintain the implemented Helena River precinct enhancement opportunity(s) for the maintenance period (5 yrs)	GCA and MRWA	Con-2, Gre-1, Eco-1, Her-1, Sta-2
	Maximise safe connectivity and permeability for non-motorised or micro modes	Design	Investigate the current and future needs of non-motorised and micro mobility transport users in consultation with external stakeholders, and investigate at least 4 opportunities to improve safe connectivity and permeability for these users, and adopt at least 1 connectivity and 1 permeability opportunity.	GCA Design Manager	Con-2, Sta-2, Lea-2, Res-1, Res-2
		Construction	Implement at least one opportunity to improve safe connectivity and one opportunity to improve permeability for non-motorised transport users.	GCA Construction Manager	Con-2, Sta-2, Lea-2, Res-1, Res-2
		Operation	Maintain the opportunity for the maintenance period (5 yrs).	GCA and MRWA	Con-2, Sta-2, Lea-2, Res-1, Res-2
		Design	Investigate at least two opportunities to improve wayfinding opportunities at Roe Hwy / Great Eastern Highway Bypass Interchange.	GCA Design Manager	Con-2, Sta-2, Lea-2, Res-1, Res-2
		Construction	Implement one of the options.	GCA Construction Manager	Con-2, Sta-2, Lea-2, Res-1, Res-2
		Operation	Maintain the wayfinding elements for the maintenance period (5 yrs).	GCA and MRWA	Con-2, Sta-2, Lea-2, Res-1, Res-2
	Minimise impact on TEC and associated Black Cockatoo Habitat (breeding and foraging areas) at trumpet interchange	Design	Define the minimum area required to be cleared within the permit area and implement a behavioural process that restricts clearing to the minimum area required.	GCA Environment Manager	Eco-1, Eco-2, Lea-2, Spr-2, Spr-3
		Design	Identify drainage basin options that utilise areas of poorer quality vegetation, reducing the need for further clearing.	GCA Environment Manager	Eco-1, Eco-2, Con-2, Gre-1, Env-1
		Construction	Include a specified clearing area within procedures of assigned suppliers and monitor activity on-site during clearing activity.	GCA Environment Manager	Eco-1, Eco-2, Con-2, Gre-1, Env-1
		Operation	Ensure a commitment to no further vegetation clearing within the 5 year period following construction completion to support maintenance access	GCA Team and MRWA	Eco-2, Spr-3
	Preserve and enhance Aboriginal heritage values	Design	Investigate at least four opportunities to enhance the sites social and aboriginal heritage aspects through Urban Design, public and community art and interpretation.	GCA Design Manager GCA Environment Manager	Her-1, Leg-1, Con-2, Spr-2, Sta-2, Lea-2, Spr-1
		Construction	Implement at least two of the opportunities	GCA Environment Manager	Spr-2, Spr-3
Operation		Maintain the heritage elements for the maintenance period (5 yrs).	GCA Team and MRWA	Spr-3	
Consultation and Engagement	Maximise opportunities for stakeholder and community input and feedback on the project design and implementation.	Design	Stakeholder input influences more than one (1) priority project negotiable (as defined in the Community and Stakeholder Engagement Plan (CSEP)).	GCA Community & Stakeholder Engagement Lead	Sta-1, Sta-2, Lea-2
		Design	Communicate to external stakeholders the proposed sustainability objectives, targets and responsibilities for the project	GCA Community & Stakeholder Engagement Lead	Sta-2, Lea-1, Lea-2

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				GCA Sustainability Manager			
		Design	Engage with key stakeholder to identify priority risks and opportunities	GCA Community & Stakeholder Engagement Lead GCA Commercial Manager	Lea-2, Sta-2, Env1, Env-2, Env-3, Env-4, Ecn-1, Ecn-4, Eco-1, Con-2		
		Design	Engage with key stakeholders to identify social legacy priorities of the local community	GCA Community & Stakeholder Engagement Lead GCA Project Director	Leg-1, Sta-2, Lea-2		
		Design	Engage with key stakeholders to identify and manage aboriginal heritage value	GCA Community & Stakeholder Engagement Lead GCA Environment Manager	Her-1, Sta-2, Lea-2		
		Design	Engage with key stakeholders to review and comment upon resilience planning for the project	GCA Community & Stakeholder Engagement Lead GCA Sustainability Manager	Res-1, Sta-2, Lea-2		
		Design	Engage with key stakeholders to identify and treat risks associated with climate and natural hazards.	GCA Community & Stakeholder Engagement Lead GCA Sustainability Manager	Res-2, Sta-2, L, Ecn-4, Lea-2, Ecn-1		
		Construction	Stakeholder input influences more than one (1) priority project negotiable (as defined in the CSEP).	GCA Community & Stakeholder Engagement Lead	Sta-1, Sta-2, Lea-2		
		Construction	Integrate contributions from stakeholders obtained during design into construction phase.	GCA Community & Stakeholder Engagement Lead	Sta-1, Sta-2, Lea-2		
		Operation	Integrate lessons learned from stakeholder engagement completed during design and construction into the operations communication plan.	GCA Team and MRWA	Sta-1, Sta-2, Lea-2		
		Operation	Implement initiatives which will provide tangible benefits to the broader local community beyond the construction period.	GCA Team and MRWA	Sta-2, Leg-1, Ecn-1, Ecn-4		
		Industry Engagement and Prosperity	Maximise workforce diversity and wellbeing	Design	Create a diversity and Inclusion policy and plan to attract and retain diversity within the project team	GCA Community & Stakeholder Engagement Lead	Wfs-1, Wfs-2, Wfs-3, Wfs-4, Spr-1, Spr-2, Spr-3
				Construction	Create and run 6 awareness raising events to promote awareness of diversity and inclusion.	GCA Aboriginal Engagement	Sta-1, Sta-2, Lea-2, Wfs-3, Wfs-4
Operation	Ensure the diversity and inclusion policy and plan is maintained into the operational phase for all monitoring and maintenance activities during the maintenance period (5 yrs)			GCA Team and MRWA	Sta-1, Sta-2, Lea-2, Wfs-3, Wfs-4		
Develop capability and capacity in Small-Medium Enterprises (SMEs)	Design		Identify key risks and opportunities for SME on the project including smaller design consultancies	GCA Commercial Manager	Lea-2, Spr-1		
	Construction		Create and implement at least 2 initiatives or programs to support SME involvement on the project	GCA Aboriginal Engagement Lead	Spr-1, Spr-2, Spr-3		
	Operation		Ensure the SME initiatives/programs are maintained into the operational phase for all monitoring and maintenance activities during the maintenance period (5 yrs)	GCA Team and MRWA	Spr-3		
Maximise capacity for Aboriginal participation.	Design		Investigate and establish business baseline for engaging Aboriginal businesses during construction	GCA Aboriginal Engagement Lead GCA Commercial Manager	Wfs-1, Wfs-2, Wfs-3, Wfs-4, Spr-1, Spr-2, Spr-3		
	Design		Explore at least 4 Aboriginal heritage opportunities and Aboriginal engagement opportunities through design (e.g. Elder engagement to determine design and placemaking themes, public art opportunities).	GCA Aboriginal Engagement Lead GCA Commercial Manager	Con-2, Her-1, Sta-1, Sta-2		
	Construction		Establish a project working group and implement at least two (2) initiatives	GCA Aboriginal Engagement Lead	Sta-2, Her-1, Leg-1		
	Construction		Engage at least 10% aboriginal employees for the construction phase of the project.	GCA Construction Manager	Wfs-1, Wfs-2, Wfs-4, Spr-1, Spr-2		

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		Construction	Award at least \$10M of contracts to Aboriginal businesses and 5% contracts over \$20,000	GCA Construction Manager	Spr-1, Spr-2, Spr-3
		Construction	Provide at least 1 mentor to Aboriginal employees for project duration.	GCA Aboriginal Engagement Lead	Wfs-2, Wfs-3
		Construction	An aboriginal coordinator appointed to the project will be available for at least 50% of the project.	GCA Aboriginal Engagement Lead	Wfs-2, Wfs-3
		Operation	Implement the existing commitment outlined in the Main Roads WA RAP to maintain a proportion of the workforce as Aboriginal employees	GCA Team and MRWA	Wfs-2, Wfs-4
		Design	Investigate and establish workforce plan and baseline for engaging entry level workers during design and construction	GCA Aboriginal Engagement Lead GCA Commercial Manager	Wfs-1, Wfs-2, Wfs-4, Spr-1, Spr-2
		Construction	Engage at least 10 Full Time Equivalent (FTE) for entry level workers for the entire project duration	GCA Workforce Manager	Wfs-1, Spr-1
Efficient Resource use and sourcing	Reduce carbon footprint from materials requirements.	Operation	Continue to implement workforce plan and maintain the proportion of the workforce with entry level employees for maintenance works	GCA Team and MRWA	Wfs-4, Leg-1
		Design	Investigate opportunities to reduce the use of material and adopt at least two (2) with a stretch target of 4 opportunities for material reduction/use of recycled products.	GCA Innovation and Value for Money Manager	Rso-1, Rso-4, Rso-5, Rso-6, Rso-7, Wfs-5, Spr-2, Lea-2
		Construction	Achieve at least a 5% reduction in materials used on the project as measured by the IS Materials Calculator v2.0 and based on environmental impacts.	GCA Construction Manager	Rso-1, Rso-6, Spr-3
	Reduce whole of life energy use for the project.	Operation	Minimise use of virgin materials during maintenance.	GCA Team and MRWA	Rso-6
		Design	Investigate energy efficiency opportunities and implement at least 3	GCA Sustainability Manager	Ene-1, Spr-2, Lea-2
		Construction	Achieve at least a 5% reduction in energy used or emissions (scope 1 and 2) created during project lifetime (construction and operation)	GCA Construction Manager	Ene-1, Ene-2, Ene-3, Rso-6, Spr-3
	Reduce whole of life water use for the project	Operation	Maintain the asset to ensure electrical equipment runs efficiently during the maintenance period	GCA Team and MRWA	Ene-1, Rso-6
		Design	Investigate opportunities to improve water efficiency and adopt at least 3 initiatives	Carlos Rodriguez, GCA Construction Manager	Wat-1, Spr-2
		Construction	Achieve at least a 5% reduction in water used or reuse of water during construction and operation	Carlos Rodriguez, GCA Construction Manager	Wat-1, Wat-2, Rso-6, Spr-3
	Reduce waste and maximise onsite reuse and recycling	Operation	Maintain the asset to ensure that water consuming equipment and processes operate efficiently	GCA Team and MRWA	Wat-1, Rso-6
		Design	Investigate opportunities to minimise waste and maximise recycling and adopt at least 3 initiatives	GCA Innovation and Value for Money Manager	Rso-4, Spr-2, Lea-2
		Construction	Diversion targets from landfill: Site and Design Office Waste >60%; Inert Resource Outputs >70%; Clean excavation spoil >85%; ASS >95%; Contaminated soils >80%	GCA Construction Manager	Rso-2, Rso-3, Rso-4, Rso-6, Spr-3
	Integration of off-site recycled products and materials	Operation	Divert >85% of inert resource outputs from landfill as a result of maintenance activities	GCA and MRWA	Rso-4, Rso-6
		Design	Investigate opportunities to replace the use of virgin materials with off-site recycled products and adopt at least 1 with a stretch target of 2 opportunities	GCA Innovation and Value for Money Manager	Rso-1, Rso-4, Rso-6, Rso-7, Spr-2, Lea-2
		Construction	Implement least 1 opportunity	GCA Construction Manager	Rso-1, Rso-4, Rso-6, Rso-7, Spr-3
		Operation	Maximise use of recycled products or materials during maintenance procedures	GCA Team and MRWA	Rso-4, Rso-6
		Design	Identify and adopt at least 3 key adaptation actions identified through climate change and resilience risk assessments and REAP adaptation plan	GCA Innovation and Value for Money Manager	Rso-1, Res-1, Res-2, Lea-2, Spr-2, Rso-4, Rso-5
		Construction	Implement at least 1 key adaptation action	GCA Construction Manager	Rso-1, Rso-5, Spr-3
Management and treatment of impacts on waterborne and airborne contamination	Operation	Ensure adaptation is recorded in operations, maintenance, and decommissioning plans	GCA Team and MRWA	Rso-5	
	Design	Investigate at least 3 opportunities to minimise risk and challenges of the design and ground water interface and adopt at least 2 opportunities	GCA Design Manager	Env-1, Gre-1, Lea-2, Spr-2, Rso-2, Rso-3	
		Construction	Implement at least 2 of the adopted treatment plans defined during design phase	GCA Construction Manager	Env-1, Gre-1, Lea-2, Spr-3, Rso-2, Rso-3

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	Minimise the impacts of groundwater contamination, air quality contamination and ASS	Operation	Maintain the treatment plans	GCA Team and MRWA	Rso-2, Rso-3, Spr-3
		Design	Optimise the design to minimise disturbance to ASS	GCA Environment Manager GCA Design Manager	Rso-3, Lea-2
		Design	Optimise the design to minimise disturbance of Coal Tar with a stretch target of not disposing offsite	GCA Environment Manager GCA Design Manager	Rso-2, Lea-2, Inn-1, Lea-3
		Design	Prepare ASS management plan with the aim to meet the treatment and management of soil and water in DWER guidelines	GCA Environment Manager	Rso-3
		Design	Prepare contamination management plan to outline the requirements to minimise health risk and where possible, contain and encapsulate Coal Tar onsite	GCA Environment Manager	Rso-2
		Construction	Implement the prepared plans	GCA Construction Manager	Rso-2, Rso-3
		Construction	Receive no valid dust complaints from delivery phase works	GCA Construction Manager	Env-4, Sta-2
		Construction	No inadvertent release of air or waterborne contaminants	GCA Construction Manager	Env-1, Env-4, Sta-2
		Operation	Maintain management strategies implemented during construction as per the ASSMP, SCMP	GCA and MRWA	Rso-2, Rso-3
		Minimise impact and improve discharge quality to surface water	Design	Develop appropriate sediment control and hazardous materials management procedures, to ensure avoidance of impacts to surface water quality within Helena River.	GCA Environment Manager GCA Design Manager
	Construction		Implement appropriate sediment control and hazardous materials management procedures, to ensure avoidance of impacts to surface water quality within Helena River.	GCA Construction Manager	Env-1, Gre-1
	Operation		Maintain constructed wetland	GCA Team and MRWA	Gre-1



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