

Environment and Sustainability Reporting Detail

Water			
Plans	Action	Achieved?	Output/comments
SCP, SoE, EMS, KCN	Developing and implementing a water savings conservation plan for water use across the City/work towards being a Waterwise Council, Integrated Water & Wastewater Servicing Strategy, Best practice per capita water consumption, retention of predevelopment water balance	X	Significant cost savings could be achieved
PPIF, SoE, EMS, KCN	Develop stormwater management plans for Karratha, Point Samson, Dampier and Roebourne that ensure appropriate levels of service will be maintained as development occurs and water quality of stormwater is addressed/minimise development near waterways and wetlands in locations where there is potential for environmental damage and flood risk, Ensure the management of stormwater addresses water quality as well as flooding, prevention of pollution and erosion from stormwater	√	Roebourne, Dampier, Pt Samson, Wickham, parts of Karratha completed
EMS, SoE	Work with the Water Corporation and Rio Tinto to improve water use practices across the community and mining operations	N/A	Not City responsibility
EMS, SoE	Identify opportunities to maximise fit-for-purpose use of recycled or dewatering water, Work with Rio Tinto and the Water Corporation to optimise the use of treated wastewater from wastewater treatment plants	√	Effluent Reuse Scheme
EMS	Actively support the installation of greywater systems and rainwater tanks	N/A	ERS & unsuitability of rainwater tanks in Pilbara
	Optimise the use of groundwater for irrigation through increased efficiencies and reduction in irrigated area through landscape changes	√	Parks & Gardens irrigation monitoring
	Install rainwater tanks, preferentially plumbed into toilets in Council buildings	N/A	Unsuitability of rainwater tanks in Pilbara
	Require Council purchasing decisions to consider waterwise ratings of goods and optimise performance where possible	√	Undertaken through each project
	Where asset upgrades are proposed, ensure the outcome maximises water sensitive urban design principles	√	Various infrastructure projects & strategic plans
ACHIEVED		5/6	

Built Environment			
Plans	Action	Achieved?	Output/comments
SCP, SoE, KCN, PPIF, EM	Develop and Implement an Energy Savings Action Plan/ Energy & Green House Gas Management Strategy, Promote increases in energy efficiency within businesses and encourage the installation of water and energy efficient fittings and fixtures and smart meters in private and public buildings, Consider the opportunity to require improved energy performance in public and private buildings (in addition to BCA requirements), explore options to reduce, reuse or recycle our waste and minimize our carbon footprint, energy efficient built form, lighting, equipment, appliances, material efficiency, reduced net per capita carbon emissions	X	In progress. Initial work undertaken through Electricity Supply Analysis (current), project by project energy efficient design and use across City assets.
KCN, EMS, SoE	Introduce waste recovery program at the 7 Mile Waste Facility, plan for future waste management facilities which will optimise opportunities for reuse and recycling of waste, minimal waste to landfill, best practice recovery and reuse of materials, develop a strategic waste management plan together with the community	√	7 Mile facility including waste recycling, waste diversion to tip shop and green waste diversion.
SoE, EMS	Install solar panels on Council buildings, Encourage uptake of renewable energy such as photovoltaic panels and solar hot water systems,	√	Airport solar, Youth Shed
SoE, EMS	Provide streetscapes, public places and spaces that enhance the local character of towns and integrate with the natural environment, optimising shade with locally native plants.	√	P&G maintenance works, various strategic plans

SoE, EMS	Ensure proposed development is consistent with the principles and recommendations of LandCorp's Pilbara Vernacular Handbook including built form outcomes that optimise passive solar orientation appropriate for north-west conditions, Develop educational materials on sustainable (alternative) building forms and options	✓	Developers are required to check compliance.
KCN, EMS	Work with State Government and industry to ensure holistic planning and development occurs that is consistent with the strategic vision for the Shire, particularly with regards to air quality and large industrial operations in proximity to settlements, work with industry regarding air quality complaints around port infrastructure and other large industrial activities to improve air quality, high levels of air quality, acceptable noise levels	✓	Business as usual for dust complaints, and the City participates in the University of Queensland passive air quality monitoring project.
SCP, KCN	New cycle ways and cycling trails developed, measured by number of new cycle ways constructed, Develop an Integrated Transport Strategy for Karratha incorporating street hierarchy, parking, public transport, walking and cycling	✓	Infrastructure Services and cycle strategy
SCP	Supporting community volunteer groups, in particular through measurement of number of active voluntary groups working for cleaning beaches, number of environmental education programs conducted and number of participants attended	✓	Cleansweep Taskforce, Captain Cleanup and iCARE
SCP	Initiatives on recycling measured by number of new initiatives for developing partnerships with recycling agencies	✓	Waste Services
EMS	Extend the Port Hedland Air Quality and Noise Management Plan framework and governance structure across the Shire of Roebourne	N/A	See air quality comments
	Manage tip sites fires and issue permits and infringements where required	✓	Business as usual
	Develop educational materials on the impacts of rubbish dumping	✓	Cleansweep Taskforce, Captain Cleanup (all schools), Bucks for bags, community material
	Consider establishment of a domestic recycling service	✓	Report to September 2014 OCM
	Obtain data from the Department of Environment Regulation regarding contaminated sites yet to be determined and monitor as required	✓	Business as usual, including remediation of contaminated sites.
	Ensure development complies with the requirements of the Contaminated Sites Act as well as the WAPC's Acid Sulfate Soils guidelines.	✓	Developers are required to check compliance
	ACHIEVED	13/14	

Coast			
Plans	Actions	Achieved?	Output/comments
EMS, SoE, PPIF, KCN	Land use planning strategies should address risk from the projected effects of climate change by avoiding areas with high exposure and vulnerability to flooding, storm surge, sea level rise, inundation and coastal erosion, Any development to address the requirements of relevant coastal vulnerability studies (where available) and any substantial future development to be supported by appropriate current storm surge and flood inundation information consistent with the most current predictions for sea level rise and coastal processes, Develop a strategy to manage coastal vulnerability & Climate Change across the City, Management strategies for climate change and natural disasters	✓	Storm surge and coastal inundation modelling, DP 17 Storm surge policy, GIS platform
EMS, SoE, PPIF, KCN	Maintain and enhance safe public access to the foreshore and coastal waters and ensure public access is designed and maintained to conserve coastal resources, Undertake a strategic assessment of coastal recreation and access and develop a framework for the future management of coastal recreation, having consideration of signage, access, safety and tourism, Develop Coastal Recreation Plan for the Shire and Pilbara region,	✓	Foreshore Management Plans, Pilbara Regional Council coastal access strategy, draft Coastal Management Strategy
EMS, SoE, PPIF	Identify opportunities for the joint management of coastal areas with Traditional owners and Ranger groups including tourism activities, Ensure meaningful participation by Aboriginal people including the utilisation of Ngarluma, Yindjibarndi, Yaburara,	X	In progress through Tracks and Trails, Karratha Hills and other City investigations.

	Kuruma, Marthudunera and Mardudhunera expertise in environmental management and related activities to generate respect for their cultural values of coastal areas (Burrup Peninsula in particular), river systems and water holes.		
EMS, SoE	Provide local level guidance for the management of recreation at key coastal nodes consistent with the Coastal Management Strategy Position Paper through the preparation of Foreshore Management Plans for Dampier Foreshore, Hearson Cove, Karratha Back Beach, Cleaverville, Wickham Back Beach, Point Samson/Sam's Creek area and Cossack/ Settlers Beach, Prioritise recommendations in foreshore management plans and develop a program for implementation including identification of capital and operational funding	√	3 Foreshore Management Plans completed, 2 underway and 3 under implementation
EMS, PPIF	Work with the State Government and industry to ensure that any expansion of port activities and/or infrastructure minimises impacts on the environment and coastal values	√	Anketell engagement through Improvement Plan
EMS, PPIF	Continue to manage rubbish and off-road vehicles in coastal areas together with community groups and increase levels of resources where possible, Support education of the community regarding the use of 4WDs/quad bikes/motorbikes and dumping of rubbish within the Shire.	√	Ranger services management of rubbish & off-road vehicles including fines and enforcement
EMS	Deliver education programs consistent with Leave No Trace principles for the community and key workforce sectors	√	Cleansweep Taskforce operations and iCARE industry cleanups
EMS	Encourage and support community involvement in the protection of coastal and marine habitats through monitoring programs and increasing awareness through educational opportunities	X	
	Incorporate interpretive signage in Shire managed lands including coastal camp grounds, Incorporate recreation infrastructure and interpretive signage in Shire managed lands to "bring the community closer to nature".	√	Foreshore Management Plans
	ACHIEVED	7/9	

Biodiversity			
Plans	Actions	Achieved?	Output/comments
EMS, SoE, KCN, PPIF	Identify areas of locally significant bushland and habitat and provide appropriate protection and management, Consider the appropriate location of cultural and environmental corridors as part of the development of the local planning strategy to provide connectivity between environments, Land use strategies and plan should identify and provide for protection of areas of high conservation value and take into account sustainability targets and environmental measures to preserve environmentally significant features, Identify important biodiversity corridors in the draft Local Planning Strategy, Natural Resource Management Strategy – Establish an integrated holistic NRM framework, Protection of significant landform, native vegetation and habitat,	X	
EMS, SoE, KCN, PPIF	Work with the DEC to extend the conservation estate to protect underrepresented areas of vegetation and habitat	X	
EMS, SoE	Manage natural areas within the Shire to retain and restore biodiversity values through control of weeds, pests and introduced species, as well as uncontrolled access, Manage weeds, pests and introduced animals on Shire land, Undertake mapping of weed infestations and monitor on an ongoing basis to determine the effectiveness of weed management activities,	X	
EMS, SoE	Establish a nursery in partnership with the private sector to support landscaping strategy, Develop an incentive program for the planting of locally native street tree species and consider the establishment of a City nursery	X	
KCN, EMS	Continue to work with the Department of Parks and Wildlife in the management of bushfires	√	Business as usual
EMS, SoE	Develop a fire management plan for the City	√	See Bushfire Management Plan
EMS	Develop a weed brochure for weeds of particular importance to the Shire, Develop a fauna awareness brochure	X	
EMS	Enhance biodiversity and streetscape through planting of locally native street trees and vegetation	√	Various strategic plans, particularly Karratha Revitalisation Strategy,

			plantings in Roebourne, Pegs Creek
	Revegetate and restore natural areas within public open space and pastoral stations to improve levels of biodiversity across the Shire	X	
	Develop a local plant list for use by the community and the Shire as part of landscaping in public spaces and places	√	Local Planning Policy DP6 includes a plant species list. Currency and applicability of this list to planting in public spaces to be confirmed.
	Identify opportunities for the joint management of natural areas with Traditional owners and Ranger groups	X	
	Ensure the preservation of protected flora and fauna including Threatened Ecological Communities as part of any future structure planning and/or development	√	Various strategic plans
	Develop a policy and community education materials regarding off-road vehicle use across the Shire	√	Off-road vehicle strategy, maps where off-road vehicles are allowed
	Fund the development of the Millars Road Off Road Vehicle Area in Karratha	√	Currently progressing through land tenure requirements
	ACHIEVED	7/14	