

Appendix 2 C

Justification for the Significant Effects and Objectives

Below are all the 5 issues identified from the consultation which scored 18 on the risk assessment methodology. These issues can be categorised under 3 significant effects, Flood Risk, Summer Heatwaves and Prolonged Periods of Increased Temperatures and Water Availability. These 3 significant effects and the 5 objectives to respond to these effects will be included into the EMAS Risk Register and managed through a series of service level actions detailed in the Adaptation Action Plan (Appendix 4)

Significant Effect	Objective	Who/ What's affected?	Result	Impact	Probability	Score	Influence 2 or 1	3,	Overall Risk
Flood Risk	Reduce the risk and impact of flash flooding across the city-wide road network	R&C - Regeneration, Highways & Transportation - Highway Management, Transport Strategy, Transport Development Planning and Policy, Environmental services - Parks and Green Space, Urban Design	1. Residents of Leicester unable to use parts of the road network, massive disruption to business goods and services and local people	3 The flooding of the road network will have a major impact with significant financial implications and major disruption to LCC services and other users of the road network	2 The probability of the road network flooding will increase as the duration and intensity of localised rainfall events increases	6	3 LCC has total responsibility for maintenance and operation of the road network with exception of major trunk routes	18	
			2. LCC employees unable to travel to work						
			3. LCC employees unable to deliver key services due to disruption to transport network						
			4. Disruption to public transport						
			5. Damage to major road surfaces resulting in road closures and need for remedial repairs						
5.Impact upon emergency services. vehicles unable to reach victims of flooding									
Summer Heatwaves and Prolonged Periods of Increased Temperatures	Future development of the built environment to be 'climate proofed' Designed to meet future climate predictions not historical trends	Resources - Property Management, Property Development, Portfolio Management Adults and Housing - Housing Improvement and Repair Services R&C - Environmental Services, Building Control, Planning and Policy, Planning, Policy and Design, Regeneration, Highways and Transportation, Transport Development, Highway Maintenance CYPs -	Building life shortened due to unsuitability for future changing climate	3 Significant economic impact to replace unsuitable building	2 It is very probable that some of the existing property portfolio will be unsuitable for the future climate.	6	3 LCC are responsible for the design maintenance and operation of our property portfolio	18	
	Reduce the impact of the Urban Heat Island Effect: Urban areas increasing in temperature due to increased solar absorption	Resources - Property Management R&C - Planning and Policy - Planning Policy and Design, Urban Design Environmental Services - Parks and Green Spaces Trees and Woodland, Building Control, Highway Management Adults and Housing - Older People Services, Community Care Services, Housing Renewals, options and Development, Housing Improvement and Repair Service, CYPs -	Residents and workers in urban areas exposed to prolonged periods of increased summer temperatures than those in rural areas'. This exacerbates heat related illnesses and death rate. (Particular issue with night time temperatures). Particularly pertinent to the elderly, the very young, those with existing respiratory and health problems and those in overcrowded, poor quality housing who cannot afford to buy or run air conditioning and those who work outdoors	3 The impact of increased urban temperatures will be significant and may even prove catastrophic if sustained over a long period of time	2 The probability of the UHI affecting large cities will increase as the climate warms and development of urban areas increase	6	3 LCC have significant influence over methods to reduce the UHI effect through planning, best practice and greening the city streets to provide shade and reduce solar absorption	18	
Water Availability	Reduce subsidence risk to the Councils property portfolio and infrastructure. Subsidence affecting the structural integrity of property and highway infrastructure including roads, pavements and services. (Reduced summer rainfall leading to soil shrinkage)	Resources - Property Management, Property Development, Portfolio Management Adults and Housing - Housing Improvement and Repair Services R&C - Environmental Services, Building Control, Planning and Policy, Planning, Policy and Design, Regeneration, Highways and Transportation, Highway Management, parks and Green Space, Trees and Woodland CYPs -	Expensive remedial repairs needed for existing buildings or worse case scenario the buildings needing to be demolished or underground services damaged	3 The impact of subsidence of a LCC property would be significant	2 The probability of this happening will increase as climate change progresses	6	3 LCC are responsible for the maintenance of our property portfolio	18	
	Reduce the risk of damaged to private property through subsidence caused or exacerbated by LCC owned/managed trees	Resources - Risk Management, Property R&C - Parks and Green Space, Trees and Woodland, Highway Management, Adults and Housing - Housing Improvement and Repairs Services, Strategy, Commissioning, Performance and Business Support	Considerable financial implications to pay for damage to private property	They impact of damage to private property caused through subsidence linked to LCC trees would have severe financial implications	Evidence suggests that the probability is increasing as the climate changes	6	3 LCC has total responsibility for the management of it's tree population	18	