Summary of Baseline Information

Topic		Current Baseline	Evolution without Plan
Population and	Population growth	The West Berkshire population is expected to increase to	The predicted level of population growth in the district puts
Human Health	and structure	168,396 by 2036. The average age in West Berkshire is 40.4	increasing pressure on public services, housing and waste
		years, with 26% of the population under 20 and 18% over 65.	facilities. This in turn will put increasing pressure on natural
	Quality of	There are typically low levels of depravation in West	resources, waste production and new developments meaning
	life/social	Berkshire, with West Berkshire being the 291st lowest	that natural resources may be lost and unsustainable waste
	deprivation	deprived area in England (out of 326), although there are	disposal may occur. Inappropriate development may be
		pockets of higher depravation across the district, the most	approved which do not have a reliable source of minerals and do
		deprived area in the District is the Greenham ward.	not include the most sustainable waste practices.
	Health	The population of West Berkshire consider themselves to be	
		relatively health (86% stated their health was 'good' on the	There are a number of potential health implications of minerals
		2011 census). However there are pockets of the district	and waste development and without an up to date plan it is more
		where health depravation is an issue. These areas are	likely that there could be negative impacts from development as
		concentrated in the more urban areas of Newbury and	a result of out-of-date policies being used to control and manage
		Thatcham, and in the Eastern Urban Area of Calcot and	development.
		Purley-on-Thames. Lambourn, Mortimer and Aldermaston	
		also have higher rates of health deprivation.	
	Tourism and	Tourism does not form a significant part of the West	
	recreation of	Berkshire economy however, there are a number of heritage	
	national and	and cultural attractions within the district, including the North	
	regional	Wessex Downs Area of Outstanding Natural Beauty, several	
	importance	nation recreational routes for walking and cycling and the	
		Kennet and Avon Canal.	
Material Assets	Infrastructure	At the centre of West Berkshire is the crossroads of the M4	With a predicted increase in population an increased demand on
(land use,	Network	motorway and the A34. The A4 and A339 also provide good	public transport and increasing pressure on the existing transport
transport, waste and minerals)		road access through the district to major urban areas outside the district.	and waste management infrastructure is inevitable.
,		A railway line travels through the centre of the district linking	Without an up to date Minerals and Waste plan is it likely that the
		the district to the west country (to the west) and Reading and	area would continue to produce more waste, which may not be
		London to the east. A second railway runs along the north	manged in the most appropriate way.
		eastern boundary of the district with Oxfordshire providing	
		links to Reading and London to the east and Oxford to the	It is predicted that aggregate requirements / consumption will
		north. There are limited bus services outside the main urban	increase within the district and without an up to date plan there
		areas.	could be an increase of importation of minerals. There are a
	Traffic and	There is a reliance on private cars for travel to work, with	number of constraints and issues which may impact the location
	Congestion	71% of people show as travelling to work by car in the 2011	

	census. This is higher than the regional (66%) or national	of mineral development including the location of viable mineral
	(63%) figures.	deposits and the transportation of minerals.
	There are a number of leastined convention between access	
	There are a number of localised congestion hotspots across	
	the district usually related to junctions with the strategic road network.	
Waste and	West Berkshire's most abundant resources are sharp sand	
Mineral	and gravel, soft sand, chalk and clay. Hard rock and marine	
Infrastructure	dredged sand and gravel are also supplied through the two	
IIIII asii uciure	rail depots at Theale. Recycled aggregates are produced in	
	the district, the 2017 mineral survey suggested that just over	
	300,000 tonnes of recycled aggregates were produced, with	
	60,000 tonnes of material for non-aggregate use. Mineral	
	extraction has declined in West Berkshire over the last 10	
	years, with only 2 currently active quarries (both near the end	
	of their lives) remaining. Processing of material is usually	
	done by mobile processing plants on site, but there is a	
	permanent processing plant at Colthrop Industrial Estate.	
	There are a number of strategic areas in the district where	
	there is a concentration of waste management facilities	
	(Beenham / Padworth, Theale / Burghfield, Tadley and	
	Newbury). Over time there has been a reduction in the	
	reliance on landfilling, with increases in recovery and	
	composting. Recycling has remained largely static.	
Emergency	There is one hospital, West Berkshire Community Hospital,	
Services	within the district. The hospital has a minor injuries unit and runs a number of clinics. However, for Accident and	
	Emergency cases residents are required to travel out of the	
	district.	
	There is one police station in the district located in Newbury	
	and five fire stations.	
Economy and	Berkshire has one of the highest performing local economies	
Employment	in England (in terms of GVA per head). 23T of GVA in	
	Berkshire is generated by the ICT sector, compared with 6%	
	nationally.	
	There are generally low levels on unemployment in the	
	district (3.1% at March 2017).	

Biodiversity Flora	Designations	There are 3 Special Areas of Conservation (SACs) (River	Without the new Minerals and Waste Local Plan applications for
and Fauna		Lambourn, Kennet and Lambourn Floodplain and Kennet	minerals and waste development would be determined using the
		Valley Alderwoods)	Replacement Berkshire Minerals Local Plan and the Waste Plan
			for Berkshire, both of which are dated, and the NPPF. This
		50 SSSIs covering 1,406ha of the district. These include,	approach would not give consideration of the collective impacts
		amongst other habitats, Ancient woodland, chalk grassland	or opportunities and may not address fully local circumstances.
		and chalk streams.	As such it is possible that designated sites may be impacted
		There are no Special Protection Areas in the district, although	upon. Increase in traffic and congestion may worsen around designated
		the southern eastern corner of the district falls within the 5km	sites should development of minerals and waste sites be
		buffer zone of the Thames Basin Heaths SPA.	inappropriately located.
			,
		There are three Local Nature Reserves	
		508 Wildlife Heritage Sites and 17 Biodiversity Opportunity	
		areas	
	Priority habitats	788 out of 943 protected species for conservation naturally in	
	and species	the UK Biodiversity Action Plan are present in West Berkshire	
		and require positive action	
Soil, Geology and	Soils Superficial		With increasing development there are a number of threats to soil
Geomorphology	and Bedrock	West Deduction's and other process of the Heat and are Oleve	from compaction and soil sealing. This prevents waster infiltrating
	Geology	West Berkshire's underlying geology is Chalk, London Clay and Reading and Bagshot Beds. In many areas alluvial	into the soil and can result in increased surface run off and promote soil erosion.
		deposits and plateau gravels are superimposed upon this	promote soil erosion.
		geology.	There is also the threat of soil loss as a result of agriculture and
		99,	this trend is likely to continue.
		West Berkshire main mineral resources are sharp sand and	
		gravel, soft sand, chalk and clay.	Climate change is likely to increase pressure on soil. An increase
		Hard rock and marine dredged sand and gravel are imported	in soil erosion is likely due to included wind speeds and
	5	via the rail depots at Theale.	increased flooding events.
	Designated and	There is one regionally Important Geological / Geomorphological Site (RIGS) in the district at Rushall Farm	Mineral and waste sites have the potential to cause
	non-designated heritage sites	Pit.	contamination and the risks associated with contamination of
	Tioritage sites	1 16	these sites would increase in the absence of an up to date
		Some SSSI's (identified above) have also been identified for	Minerals and Waste Local Plan.
		their geomorphological value.	

	Contaminated	There are two sites declared contaminated land under the	As well as being a resources, aggregates and soil contribute to
	land	Environmental Protection Act, and a further 1200 potentially	the construction, demolition and excavation waste streams, much
		contaminated land sites have been identified in the district.	of which can be recycled. In the absence of an up to date
	Agricultural and	Agriculture is the largest land use in the district at 79% of the	Minerals and Waste Local Plan these opportunities may not be
	Land Use	district. Over half of the agricultural land is under arable	realised.
		cropping, with around a third bring used for grazing.	
Water	Water Resources	The district is located within two water resources zones (the Kennet Valley Resources Zone and the Swindon and Oxfordshire Resources Zone). There are three main rivers flowing through the district, the River Kennet, River Lambourn and River Pang, in addition to the River Thames forming the north eastern boundary of the district. The main groundwater resource is the chalk aquifer that underlies much of eastern and southern England. The district is included within an area identified with "serious	Without the new Minerals and Waste Local Plan applications for minerals and waste development would be determined using the Replacement Berkshire Minerals Local Plan and the Waste Plan for Berkshire, both of which are dated, and the NPPF. This approach would not give consideration of the collective impacts or opportunities and may not address fully local circumstances. As such, it is possible the aquatic environment is at risk either from contamination via leachate or aquifer systems of potentially form the flooding of waste sites.
	Water Framework Directive	levels of water stress" A Catchment Flood Management Plan has been developed for the River Thames. While the river Thames does not flow through West Berkshire, it flows along its north eastern boundary of the district with Oxfordshire, the rivers flowing though West Berkshire are tributaries to the Thames, joining the Thames outside of West Berkshire.	
	Flood Risk	Flood risk in West Berkshire is widespread, arising from not only rivers but also from surface water and groundwater. Widespread flooding of homes and businesses occurred most recently in Winter 2013/14 and July 2007.	
	Water Quality	There are no Nitrate Sensitive Areas in West Berkshire, but there are large areas covered by Nitrate Vulnerable Zones. This is characteristic of the agricultural land use of much of west Berkshire.	
		Groundwater sources protection zones have been identified by the Environment Agency. There are 25 SPZs in the district.	
Climate Change and Air Quality	Air Quality	There are two Air Quality management areas in West Berkshire. One in Central Newbury along a section of the	Waste management generates carbon dioxide and methane which are both greenhouse gases. Some waste management

		A339 and the other along a section of the A4 in Thatcham. Since the declaration of the AQMAs and the implementation	facilities are capable of producing heat and electricity from thermal and biological treatment processes thereby converting
		of the Air Quality Management Plan levels of nitrogen dioxide are declining.	energy within stored material to useful energy, reducing fossil fuel requirements. In the absence of the Minerals and Waste
	Climatic Factors	The Department of Energy and Climate Change have produced UK local authority and regional carbon dioxide emissions national statistics for 2005 – 2016. The data suggests that West Berkshire has a slightly higher CO ₂ emission per capita (6t) when compared to the south east	Local Plan opportunities to implement this form of energy and reduce use of fossil fuels may be missed. The UK is likely to see more extreme weather events, including hotter and drier summers.
		region (5t) and the UK as a whole (5.4t). The highest proportion of CO ₂ emissions in West Berkshire comes from the transport sector at 36%. While transport is the highest proportion of CO ₂ emissions regionally (45%) nationally the highest proportion if from Industrial/Commercial sectors (40%)	HGV movements associated with mineral and waste development will generate CO ₂ emissions and nitrogen dioxide and without an up to date plan to ensure these factors are fully considered, there would be the potential for development to take occur is less sustainable locations where there is likely to be a greater generation of CO ₂ emissions.
		In West Berkshire there has been a 33% decrease in CO ₂ emissions per capita between 2005 and 2016 (from 8.9t in 2005 to 6t in 2016).	The reduction in CO ₂ emissions previously seen in the district will become increasingly hard to achieve particularly as this is likely to be affected by new developments and the increased traffic associated with those new developments.
Historic Environment	Designated Heritage Assets	There are 1877 listed buildings in West Berkshire (42 Grade I, 109 Grade II* and 1,728 Grade II).	In the absence of the Minerals and Waste Local Plan applications for minerals and waste development would be determined against the saved policies of the existing
		90 sites/structures identified as Scheduled Monuments. 12 registered parks and gardens 2 historic battlefields	Replacement Minerals Local Plan for Berkshire and Waste Plan for Berkshire and against the policies of the NPPF.
		There are 15 listed buildings/structures included on the Historic England Heritage at Risk Register (2 grade I, 4 Grade II*, 3 Registered parks and gardens, 4 Scheduled monuments).	This approach may not give consideration of the collective impacts or opportunities and may not address fully local circumstances. As such, it is possible that archaeological sites may be impacted upon, and archaeological remains may be needlessly destroyed. Further traffic and congestion may worsen around important sites.
		54 conservation areas	·
	Historic Landscape Character	The Historic Environment Character Zoning (HECZ) project carried out by West Berkshire's Archaeology service provides a comprehensive account of the historic environment. The	
		district has been divided into 23 Historic Character Areas 9HECAs), which are in turn sub-divided into 91 Historic Environment Character Zones (HECZs). Each HECA has a	

	Other known and	similar landscape historic and evolution as well as geographical characteristics. HECZs have common traits in archaeological monuments, buildings, land-use of settlement patterns. Over 5000 other heritage assets are recorded in the Historic	
	unknown features	Environmental Record.	
Landscape and Visual Amenity	Designated Landscapes	The North Wessex Downs Area of Outstanding Natural Beauty (AONB) covers 74% of West Berkshire, to the north of the district. The Berkshire Landscape Character Assessment (2003) identifies 14 landscape types which are subdivided into potential character areas. The main landscape characters identified in West Berkshire are Chalk Scarp, Woodland and	Landscapes can change by a variety of physical, environmental and man-made influences. Increased development pressures, particularly in the South East has the potential to threaten the landscape character and could result in the loss of unique landscape features. Mineral and Waste sites have the potential to alter the landscape and visual amenity in a negative way. The development of the MWLP will ensure adequate protection is given to the protection of landscape character, especially within
		Heathland Mosaic, Farmed Chalk Mosaic, Wooded Downland, Open Downlands and Elevated Wooded Chalk	the AONB.
		slopes.	Agricultural pressures and climate change could also have an effect with potential increase in erosion and flooding events
	Tranquillity	West Berkshire is largely rural in nature where tranquillity will form part of the character of the area.	resulting in changes in livestock, crops and land uses.

Limitations

The information presented in this report is the result of a desk-based review of publically available data and no formal requests for records, data of information have been made