

Appendix 9.1. Construction Impact Tables

Health Related Behaviours Determinants

Physical Activity

Table A.1 – Potential effects of construction activities on physical activity (pre-mitigation)

Physical Receptor	Description of potential effects	Significance of potential effects on Physical Receptor			Significance of potential effects on human receptor		
		Sensitivity of physical receptor	Magnitude of impact	Significance of effect	Sensitivity of human receptor	Magnitude of impact	Significance of effect
Active travel routes (cycleways and pedestrian footpaths)	<u>Physical</u> - Temporary disruptions - Increased construction traffic <u>Human</u> - Health outcome from disruptions to access, pedestrian or cyclist delays and increases in journey length - Temporary loss of amenity - Health and wellbeing changes due to reduction in exercise opportunities	High	Low Adverse	Minor adverse (not significant) Temporary, direct and indirect, short term reversible	Medium (Wider Groups and all vulnerable groups)	Low adverse	Minor adverse (not significant) Temporary, direct and indirect, short-term, reversible

Source: Atkins analysis

Risk Taking Behaviour

Table A.2 – Potential effects of construction activities on risk taking behaviour (pre-mitigation)

Physical Receptor	Description of potential effects	Significance of potential effects on Physical Receptor			Significance of potential effects on human receptor		
		Sensitivity of physical receptor	Magnitude of impact	Significance of effect	Sensitivity of human receptor	Magnitude of impact	Significance of effect
Road Infrastructure – roads, vehicles, diversion routes	Potential risks include: <u>Physical</u> Introduction of construction traffic, increased traffic levels in surrounding areas, altered traffic movements (including large volumes of materials being moved), user conflict, restrictions, diversions and/or closures	Medium	Medium adverse	Moderate adverse (significant) Temporary, direct and indirect, short-term, reversible	High – all vulnerable groups	Medium adverse	Moderate adverse (significant) Temporary, direct and indirect, short term
					Medium – Wider groups	Medium adverse	Moderate adverse (significant)

Physical Receptor	Description of potential effects	Significance of potential effects on Physical Receptor			Significance of potential effects on human receptor		
		Sensitivity of physical receptor	Magnitude of impact	Significance of effect	Sensitivity of human receptor	Magnitude of impact	Significance of effect
	<u>Human</u> Injuries or loss of life from construction traffic, increased traffic levels and an unawareness of altered traffic movements, particularly for sensitive road users (e.g. motorcyclists, elderly drivers, children, pedestrians, new drivers and cyclists)						Temporary, direct and indirect, short term
Site Compound	Potential risks include: <u>Physical</u> - Trespass, damage, conflict, restrictions or closures <u>Human</u> - Unauthorised access / trespass resulting in injuries or loss of life from slips, trips, falls and conflict with plant, vehicles and materials - Criminal behaviours could result in on site conflicts and threats of violence, resulting in personal injuries	Medium	Medium adverse	Moderate adverse (significant) Temporary, direct, short-term, reversible	High (families with children and adolescents, people who are materially disadvantaged)	Low adverse	Minor adverse (not significant) Temporary, direct, short-term
					Medium (Wider groups, people who are physically or mentally disadvantaged, people of a certain ethnicity and/or gender)	Low adverse	Minor adverse (not significant) Temporary, direct, short-term
Utilities and buried services	Potential risks include: <u>Physical</u> - Damage, leaks and blocks <u>Human</u> - Risk to human health from contact with overhead or buried power lines, leaks from gas or sewage networks	Medium	Medium adverse	Moderate adverse (significant) Temporary, direct, short-term, reversible	High (wider group – contractors working on the Scheme in the Route Section)	Medium adverse	Moderate adverse (significant) Temporary, direct, short-term
					High (all vulnerable groups, other wider groups)	Low adverse	Minor adverse (not significant) Temporary, direct and indirect, short-term

Source: Atkins Analysis

Social Environment Determinants

Housing

Table A.3 – Potential effects of construction activities on housing (pre-mitigation)

Physical Receptor	Description of potential effects	Significance of potential effects on Physical Receptor			Significance of potential effects on human receptor		
		Sensitivity of physical receptor	Magnitude of impact	Significance of effect	Sensitivity of human receptor	Magnitude of impact	Significance of effect
Housing	<u>Physical</u> Pressures on housing availability due to the introduction of a potentially non-local workforce	High	Minor adverse	Minor beneficial (significant)	High (all vulnerable groups)	Minor adverse	Minor adverse (significant)
	<u>Human</u> Health outcome from reduced housing availability to local people due to the introduction of a potentially non-local workforce			Temporary, direct and indirect, short term, reversible	Medium (wider groups)	Minor adverse	Minor adverse (significant)
							Temporary, direct and indirect, short term, reversible

Source: Atkins analysis

Transport Modes, Access and Connections

Table A.4 – Potential effects of construction activities on transport options (pre-mitigation)

Physical Receptor	Description of potential effects	Significance of potential effects on Physical Receptor			Significance of potential effects on human receptor		
		Sensitivity of physical receptor	Magnitude of impact	Significance of effect	Sensitivity of human receptor	Magnitude of impact	Significance of effect
Public transport (buses)	<u>Physical</u> Temporary closure/disruptions to services along main access routes	High	Medium adverse	Moderate adverse (significant)	High (all vulnerable groups)	Medium adverse	Moderate adverse (significant)
	<u>Human</u> - Health outcome from temporary closure, modification, diversion or disruption to local roads and routes - Disruptions to normal activities / journeys			Temporary, direct and indirect, short term, reversible	Medium (wider groups)	Medium adverse	Moderate adverse (significant)

Physical Receptor	Description of potential effects	Significance of potential effects on Physical Receptor			Significance of potential effects on human receptor		
		Sensitivity of physical receptor	Magnitude of impact	Significance of effect	Sensitivity of human receptor	Magnitude of impact	Significance of effect
	- Health outcome from temporary impacts on traffic and demand for public transport. Impacts on bus stop immediately adjacent to site. - Any temporary closure of routes increasing the number of passengers using roads and bus services, resulting in congestion and/or crowding						Temporary, direct and indirect, short-term, reversible
Roads in the study area	Potential effects include: <u>Physical</u> - Temporary changes to traffic flows/numbers and routing of vehicles using the highway network <u>Human</u> - Health outcome from disruptions to normal activities/journeys - Temporary loss of amenity	High	Low adverse	Minor adverse (not significant) Temporary, direct and indirect, short term, reversible	High (all vulnerable groups)	Low adverse	Minor adverse (not significant) Temporary, direct and indirect, short-term, reversible
					Medium (wider groups)	Low adverse	Minor adverse (not significant) Temporary, direct and indirect, short-term, reversible

Source: Atkins analysis

Community Safety

Table A.5 – Potential effects of construction activities on community safety (pre-mitigation)

Physical Receptor	Description of potential effects	Significance of potential effects on Physical Receptor			Significance of potential effects on human receptor		
		Sensitivity of physical receptor	Magnitude of impact	Significance of effect	Sensitivity of human receptor	Magnitude of impact	Significance of effect
Construction compound	<u>Potential effects include:</u> <u>Physical</u> Damage to buildings and materials <u>Human</u>	Medium	Low adverse	Minor adverse (not significant)	High (All vulnerable groups but particularly those with health issues)	Low adverse	Minor adverse (not significant) Temporary, direct, short-term
					Medium (All Groups)	Low adverse	Minor adverse (not significant)

Physical Receptor	Description of potential effects	Significance of potential effects on Physical Receptor			Significance of potential effects on human receptor		
		Sensitivity of physical receptor	Magnitude of impact	Significance of effect	Sensitivity of human receptor	Magnitude of impact	Significance of effect
	Health outcomes from presence of vermin and other pests due to potential disturbance to sewers and other utilities or by providing sources of food and or habitat						Temporary, direct, short-term
Surrounding roads and properties	<u>Potential effects include:</u> <u>Physical</u> - None Identified <u>Human</u> - Health outcomes from presence of vermin and other pests due to potential disturbance to sewers and other utilities or by providing sources of food and or habitat	N/A	N/A	N/A	High (All vulnerable Groups, but particularly those with health issues and young children)	Low adverse	Minor adverse (not significant) Temporary, direct, short-term
					Medium (All Groups)	Low adverse	Minor adverse (not significant) Temporary, direct, short-term

Source: Atkins analysis

Social Participation, Interaction and Support

Table A.6 – Potential effects of construction activities on social participation, interaction and support options (pre-mitigation)

Physical Receptor	Description of potential effects	Significance of potential effects on Physical Receptor			Significance of potential effects on human receptor		
		Sensitivity of physical receptor	Magnitude of impact	Significance of effect	Sensitivity of human receptor	Magnitude of impact	Significance of effect
Local Communities	<u>Potential effects include:</u> <u>Physical</u> - Introduction of 505 new homes <u>Human</u> - Health outcomes from the introduction of a mix of tenure of new residential properties	High	Negligible	Negligible	High	Negligible	Negligible

Source: Atkins analysis

Economic Environment Determinants

Education and Training

Table A.7 – Potential effects of construction activities on education and training (pre-mitigation)

Physical Receptor	Description of potential effects	Significance of potential effects on Physical Receptor			Significance of potential effects on human receptor		
		Sensitivity of physical receptor	Magnitude of impact	Significance of effect	Sensitivity of human receptor	Magnitude of impact	Significance of effect
Educational premises immediately adjacent the site boundary such as The Manchester College and the Manchester Film School (UCEN Manchester)	<u>Potential effects include:</u> <u>Physical</u> • Temporary disruptions to access and teaching conditions (including impacting on College operations) • Amenity effects <u>Human</u> • Health outcomes from disruptions to journey times, access and loss of amenity • Health outcomes from disruption to teaching	Medium	Medium adverse	Moderate adverse (significant) Temporary, direct and short-term, reversible	High (vulnerable group – specifically people who attend the Manchester College or Manchester Film School)	Medium adverse	Moderate adverse (significant) Temporary, direct and short-term, reversible

Source: Atkins analysis

Employment and Income

Table A.8 – Potential effects of construction activities on work and training and access to businesses / commercial premises (pre-mitigation)

Physical Receptor	Description of potential effects	Significance of potential effects on Physical Receptor			Significance of potential effects on human receptor		
		Sensitivity of physical receptor	Magnitude of impact	Significance of effect	Sensitivity of human receptor	Magnitude of impact	Significance of effect
Businesses / commercial premises immediately adjacent the site boundary such as the Travelodge.	<u>Potential effects include:</u> <u>Physical</u> - Temporary disruptions to access and trading conditions (including impacting on hotel operations) - Amenity effects <u>Human</u> - Health outcomes from disruptions to journey times, access and loss of amenity	Medium	Medium adverse	Moderate adverse (significant) Temporary, direct and short-term, reversible	High (wider group – specifically people who work at or are visiting Travelodge)	Medium adverse	Moderate adverse (significant) Temporary, direct and short-term, reversible
Businesses / commercial premises within 100m of the Scheme Boundary	<u>Potential effects include:</u> <u>Physical</u> - Potential for disruptions to access and trading conditions - Loss of amenity <u>Human</u> - Health outcomes from disruptions to journey times, access and loss of amenity	Low	Low adverse	Minor adverse (not significant) Temporary, direct and indirect, short-term	High (wider groups)	Low adverse	Minor adverse (not significant) Temporary, direct and indirect, short-term
Businesses / commercial premises within 500m of the Scheme Boundary	<u>Potential effects include:</u> <u>Physical</u> - Temporary disruptions to access and trading conditions - Loss of amenity <u>Human</u> - Health outcomes from disruptions to journey times, access and loss of amenity	Low	Low adverse	Minor adverse (not significant) Temporary, direct and indirect, short-term, reversible	High (wider groups – people who work at the commercial premises)	Low adverse	Minor adverse (not significant) Temporary, direct and indirect, short-term, reversible
					Medium (other people in the wider group, all vulnerable groups)	Low adverse	Minor adverse (not significant)

Physical Receptor	Description of potential effects	Significance of potential effects on Physical Receptor			Significance of potential effects on human receptor		
		Sensitivity of physical receptor	Magnitude of impact	Significance of effect	Sensitivity of human receptor	Magnitude of impact	Significance of effect
							Temporary, direct and indirect, short-term, reversible
Local businesses – new employment and local jobs market	<u>Physical</u> - Changes to trading conditions - Effects on employment receptors <u>Human</u> - Health outcomes from economic benefits of construction could stimulate the local economy (including local suppliers) and local job market, including the multiplier effects - Health benefits from development of local skills base and increased training opportunities	Low	Negligible	Negligible	High (wider groups, people who are materially disadvantaged)	Low beneficial	Minor beneficial (not significant)
					Medium (other vulnerable groups)	Low beneficial	Minor beneficial (not significant) Temporary, direct and indirect, short-term

Source: Atkins analysis

Bio-physical Environment Determinants

Air Quality

Refer to the Air Quality section for a full explanation of this assessment and for information on the implications of the proposed development.

Water Quality or Availability

Refer to the Water section for a full explanation of this assessment and for information on the performance of the implications of the proposed development.

Land Quality

Refer to the Soil and Water sections for a full explanation of this assessment and for information on the performance of the implications of the proposed development.

Noise Pollution and Vibration

Refer to the Noise and Vibration section for a full explanation of this assessment and for information on the implications of the proposed development.

Institutional and Built Environment

Built Environment

Refer to the Daylight and Sunlight section for a full explanation of this assessment and for information on the implications of the proposed development.