

Assessment of Community Impacts

Technical Report

February 2005

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O 1 Introduction



Introduction

- 1.1.1 This report provides a community impact assessment for the proposed works. It addresses the four proposed route sections: from Ladbroke Grove to Maidenhead and Heathrow in the west, the central tunnel from Paddington to the Isle of Dogs and Stratford, and the two eastern routes to Shenfield and Abbey Wood. The ES records all significant residual impacts identified in this technical report. The community assessment also examines the route wide impacts of the scheme, focusing on accessibility changes for local communities to key
- 1.1.2 This assessment is presented in two volumes. Volume 1 sets out the methodology used to undertake the assessment. It gives a description of the community baseline and a summary of the direct and cumulative impacts. Volume 2 contains the community database, which identifies all resources and receptors (including the name, address and details of each), and plans showing the location.
- 1.1.3 Appendix 1 provides supporting information about community resources directly affected by the works.



Scheme Description

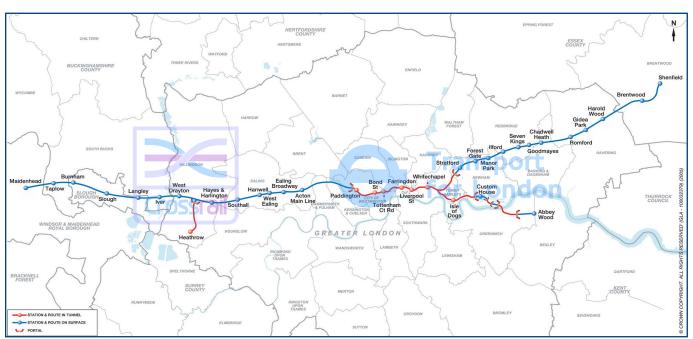




Scheme Description

2.1 Introduction

- 2.1.1 Crossrail is a major new cross-London rail link project that has been developed to serve London and the southeast of England. Crossrail will support and maintain the status of London as a world city by providing a world class transport system. The project includes the construction of a twin-bore tunnel on an west-east alignment under central London and the upgrading of existing National Rail lines to the east and west. The Crossrail route is shown on Figure 1 below.
- 2.1.2 The project will enable the introduction of a range of new and improved rail journeys into, and through, London. It includes the construction of seven central area stations, providing interchange with London Underground, National Rail and London bus services, and the upgrading or renewal of existing stations outside central London. Crossrail will provide fast, efficient and convenient rail access to the West End and the City by linking existing routes from Shenfield and Abbey Wood in the east, with Maidenhead and Heathrow in the west.
- 2.1.3 Crossrail will provide a significant addition to the transport infrastructure of London and southeast England. It will deliver improved services for rail users through the relief of crowding, faster journeys and the provision of a range of new direct journey opportunities. The project will also have wider social and economic benefits for London and the Southeast.



Picture 1: Crossrail Route



2.2 Route overview

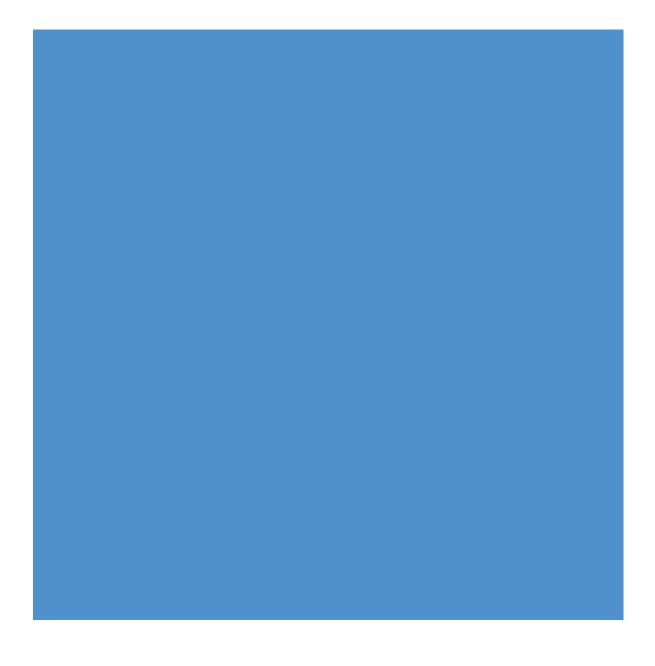
- 2.2.1 Crossrail's route has four distinct sections: western, central London, northeastern and southeastern.
- 2.2.2 In the west, Crossrail will use the Great Western Main Line between Maidenhead and Westbourne Park. The existing 25 kV overhead electrification between Paddington and Airport Junction will be extended to Maidenhead, and bridge alterations will be undertaken as necessary. The main infrastructure changes comprise: the construction of a flyover structure (the Stockley flyover) to allow Crossrail trains to access the existing tunnelled spur to Heathrow; and the provision of a rail underpass (a dive-under) west of Acton Yard.
- 2.2.3 A new line, within the existing railway corridor, will be provided between Langley and West Drayton.
 Enhancements will also be made to stations. The most significant works will be at Ealing Broadway, Southall,
 Hayes and Harlington, West Drayton, Slough and Maidenhead. New stabling sidings are also proposed at Old Oak Common, West Drayton and west of Maidenhead Station.
- 2.2.4 The central route section will comprise: a twin-bore tunnel beneath central London with portals at: Royal Oak in the west, Pudding Mill Lane in the northeast and Victoria Dock Road in the southeast. The central route section will extend from around 200m west of the A40 Westway to; around 500m east of the Pudding Mill Lane portal (in the northeast); and just to the east of Poplar Dock in the Isle of Dogs (in the southeast). New stations and associated structures (such as ventilation shafts) will be provided along the route.



- 2.2.5 Crossrail will use the Great Eastern Main Line between Pudding Mill Lane and Shenfield, on the northeast route section, Main infrastructure changes will comprise a new train maintenance depot west of Romford Station, the reinstatement of a track between Goodmayes and Chadwell Heath and new stabling facilities at Gidea Park. Enhancements will also be made to stations, with the most significant works being proposed at Ilford and Romford. This route has existing 25kV overhead electrification.
- 2.2.6 The southeast route section runs between the Isle of Dogs Station and the eastern terminus at Abbey Wood. The Abbey Wood Station will be reconstructed. Crossrail will operate in a twin-bore tunnel to Victoria Dock portal where it will serve a reconstructed station at Custom House. The route will then follow the existing alignment (currently used by the North London Line) through the Connaught Tunnel to Silvertown. At North Woolwich, a new twin-bore tunnel to Plumstead, referred to as the Thames Tunnel, will pass beneath the River Thames. Two new tracks will be provided between Plumstead and a point east of Abbey Wood Station to accommodate Crossrail services on the North Kent Line corridor. This route will be provided with 25kV overhead electrification on the Crossrail lines.



03 Scope and Methodology





Scope and Methodology

3.1 Introduction

- 3.1.1 This Chapter describes the scope and methodology adopted for the assessment of potential impacts on the
- 3.1.2 The practicality of defining specific 'communities' in such a densely developed area as Central London is difficult. However, it is possible to define links between community resources and receptors at a local level. For example, if there is a large residential area, a parade of local shops, a public house, a local open space and a primary school, it can reasonably be assumed the local population would move between these various uses creating 'community' links. These links may not define a 'community' but help to define the network within which the local population functions.
- 3.1.3 This assessment focuses on these community networks. It identifies the resources and receptors that constitute such networks and examines the way in which the proposed works will affect them. It focuses on changes to the provision of, and access to, community facilities. Facilities are defined as those uses that contribute to the quality of life in the community. They include schools, hospitals, churches, key shops and services, open space, and the accessibility of these facilities to the local population. Residential accommodation is considered where there is a potential for demolition or temporary loss of groups of properties.
- 3.1.4 Employment and economics are addressed separately under the Socio-Economic Assessment. Other impacts such as noise, traffic, visual amenity, and air quality are addressed in the respective studies and only raised under community as part of the cumulative impact assessment. This avoids double counting of significant

3.2 Definition of Scope

3.2.1 Potential impacts were considered on resources and receptors within the Limits of Land to be Acquired or Used (LLAU), and any road that gave rise to significant changes in traffic flows during construction. The spatial scope also included:

any locations at which community resources are likely to be subject to other significant impacts (e.g. noise); and

areas or facilities significantly affected by highway severance or road, bridleways or footpath closures, as identified in the Traffic and Transportation Assessment.

3.2.2 Impacts on community facilities were assessed for the construction and early operational stages of the project. Impacts were considered unlikely to persist into the longer-term (i.e. 15 years after opening when design capacity is reached). The community is anticipated to adjust to any impacts over this period, and new or replacement facilities will develop if demand exists.



3.3 Resources and Receptors

- 3.3.1 The assessment identified the following community facilities and their users:
 - nurseries, schools and colleges;
 - hospitals, clinics, surgeries and other emergency services;
 - residential properties;
 - residential homes and care facilities;
 - religious meeting places;
 - social clubs;
 - sports and recreation centres and facilities;
 - entertainment facilities (e.g. cinemas, theatres);
 - key services serving the local community;
 - public rights-of way and other access routes of local importance (e.g. local roads serving community facilities);
 - public open space; and
 - local communities as a whole.
- 3.3.2 The assessment focused on key shops and services used on a daily basis by the local community. If a similar shop or service was available within a suitable walking distance then it was not deemed vital to community life and was not considered as a sensitive receptor for the purposes of the assessment.



3.4 Establishment of Baseline

Baseline Resources and Receptors

- 3.4.1 A community database was prepared which identified key community resources and receptors for the spatial scope outlined above. The information was obtained by on-site survey and supported by additional research where required. The details of the type of use and address were recorded and the locations mapped. The database and mapping is presented in Volume 2. The baseline also identified key planning approvals for community uses.
- 3.4.2 The following sources were used:
 - large-scale OS maps;
 - local, structure and unitary development plans;
 - field inspection;
 - interviews with users and operators of community facilities;
 - directories of local services and businesses; and
 - societies and user groups.
- 3.4.3 The baseline conditions were assumed to be those prevailing at the commencement of construction. For the purpose of establishing the baseline, the assessment did not attempt to predict social change or to assume changes in the pattern of use of facilities over time.

Community Policy

- 3.4.4 Policies at both strategic and local levels help to shape and influence the distribution and function of communities. These were therefore carefully considered as part of the baseline for the assessment.
- 3.4.5 Planning for London communities starts with the London Plan (February 2004). The Plan sets out a hierarchy and network of Metropolitan, Major and District centres. The Crossrail route spans across such centres providing improved access, reinforcing the community networks and interdependencies.
- 3.4.6 The Plan provides the framework for the growth and development of these communities. It also identifies policies to assist the regeneration of large areas of central and east London. This assessment identifies London Plan policies where specifically relevant to communities along the Crossrail route. They are described within the route window baselines shown in each of the route sections (Chapters 5 − 8).
- 3.4.7 The Local Government Act 2000 places a duty on principal local authorities to prepare community strategies for promoting or improving the economic, social and environmental well being of their areas and contributing to sustainable development in the UK. This has had major impacts on the way local communities are planned and managed with a move towards a community-led approach.
- 3.4.8 This community focus has been developed further with the creation of Local Strategic Partnerships (LSPs) which bring together, at a local level, the different parts of the public and private sectors. The role of LSPs is to create a partnership approach to the management of:
 - community strategies;
 - rationalisation of separate local partnerships;
 - Public Service Agreements (agreements between Central and Local Government which provide minimum standards of achievement for issues such as education, health, crime and transport); and
 - Neighbourhood Renewal Strategies (of which Public Sector Service Agreements form part) which narrow the gap between the most deprived neighbourhoods and the rest of the country.
- 3.4.9 The route window baselines (Chapters 5-8) have reviewed the community strategies and Neighbourhood Renewal Strategies, where relevant. These policies are generally strategic in nature and so have only been documented where they are directly relevant to the works.
- 3.4.10 Unitary Development Plans (UDPs) contribute to the implementation of the local community strategies through the definition of development control policies and zoning of land. The link between the community strategies and the UDPs has been developed further with the Royal Assent of the Planning and Compulsory Purchase Act in May 2004. The Act replaces the UDPs with Local Development Frameworks (LDFs) supported by statements of community involvement. Although many local authorities have started to prepare LDFs, in most cases the UDPs remain the statutory documents.
- 3.4.11 The route window baselines have included a review of the adopted UDPs (including latest drafts). Any UDP policies that could affect the understanding and interpretation of the community were identified. In some cases the latest draft (not the adopted draft) has been used as this more accurately reflects the current situation.



3.5 Consultation

- 3.5.1 Crossrail has undertaken a comprehensive consultation exercise with local communities along the route. This exercise started in September 2003 with a public awareness campaign, which included press releases, leaflets drops, and information packs to 240 stakeholders. Consultation continued with the second phase in October 2003. This included 29 public information centres at key locations along the route, press releases, leaflet drops, a 24hour helpdesk and 300,000 newsletters distributed along school routes. Crossrail also contacted landowners that could potentially be affected by the works. The consultation identified 4,800 issues that were fed back into the design process. The third phase of consultation ran from August to October 2004 with further information centres at key locations.
- 3.5.2 Additional information on specific community resources that may be directly affected was also collated. In some cases meetings were held with the managers or users. This information is presented in Appendix 1.

3.6 Potential Impacts

- 3.6.1 The following temporary impacts were assessed:
 - temporary closure of, or disruption to, the use and amenity of community facilities;
 - temporary severance and /or diversion of public rights-of-way and bridleways;
 - temporary displacement of groups of residents; and
 - cumulative impacts resulting from construction noise, traffic, visual amenity and dust.
- 3.6.2 The following permanent impacts were assessed:
 - demolition of, and/or permanent landtake from community facilities and residential properties;
 - permanent severance and /or diversion of public rights-of-way and bridleways which affect access to community facilities; and
 - cumulative impacts resulting from construction noise, traffic, visual intrusion and dust.



3.7 Prediction of Impacts

- 3.7.1 Impacts were predicted by setting the degree of change due to the project against the type and sensitivity of each resources or receptor within the frame of reference provided by the local community. The definition of sensitivity is varied for each resource or receptor, but took account of the following:
 - the level of use of a facility or access;
 - availability of alternative facilities or access, either temporarily or permanently; and
 - extent of catchment served by a facility.
- 3.7.2 The community assessment also looked at social inclusion benefits (reported in Chapter 9). This examined the impact of Crossrail on accessibility to further education, regional hospitals and major centres. TfL's transport model CAPITAL was used to model accessibility changes within isochrones with, and without, Crossrail. Data from the 2001 census was used to capture the demographic and socio-economic characteristics of the population within these isochrones. The following core criteria were used:
 - % of 18-24 year olds within 30 and 60 minutes of a further education establishment by public transport;
 - % of a) households b) households without access to a car within 30 and 60 minutes of a hospital by public transport; and
 - % of a) households b) households without access to a car within 15 and 30 minutes of a major centre by public transport.

3.8 Evaluation of Impacts

Determination of Significance

- 3.8.1 Significance was determined based on both professional judgement and the use of the criteria laid out in Table 3.1 below. It focused on impacts that are likely to have significant implications for the community as a whole, or for a discreet section of it, rather than for individuals.
 - 3.8.2 The significance of an impact was assessed based on the magnitude of the impact and the nature of the resource/receptor, taking into account the availability of alternative resources in the locality. Specific factors that were considered included:
 - the general nature and extent of the works;
 - the disturbance to the resource arising from the works; and
 - the effectiveness of mitigation proposed by other specialists.



Direct Impacts

- 3.8.3 The assessment reviewed direct impacts. Direct impacts included demolition of, or landtake from, a facility, and severance or diversion of a public right-of-way.
- 3.8.4 The assessment included the impact caused by construction haul routes in residential areas. The assessment looked at roads where there were significant increased in Heavy Goods Vehicles (HGVs) over the construction period, which may affect the general amenity of the local community.
- 3.8.5 The assessment acknowledged a potential community effect could be caused by temporary rehousing due to noise. It was considered that where groups of 10 or more properties were rehoused due to construction noise, there would be a temporary impact on the local community. This would be caused by the impact on the community networks caused by the loss of these people.
- 3.8.6 It was also assumed that where this rehousing was proposed for over three months (in some cases for a number of years) the impact on the community life could be permanent. It was considered permanent because it was not certain that the same population would return, or that the fabric of the community would not have changed considerably in the time that the residents were away.

Cumulative impacts

- 3.8.7 Cumulative impacts were considered where the general impairment of the amenity or well being of the community was affected by multiple impacts that may cause a significant impact on the same resources or receptors. This was applied to impacts resulting from the noise, visual amenity and traffic assessments. The air quality specialists concluded that there were no significant residual impacts on air quality. Air quality was therefore not included as part of the cumulative impact assessment.
- 3.8.8 The results of the cumulative construction impact assessment are reported within the route window assessments (Chapters 5-8).
- 3.8.9 Where there was demolition of residential properties and/or community facilities these were considered as a direct permanent community impact (as explained above). However, although these are permanent community impacts the demolitions were also considered as part of the cumulative assessment of construction impacts because the loss of these residents or facilities would be experienced at the start of the construction period.
- 3.8.10 The results of the cumulative permanent impact assessment are also reported within the route window assessments (Chapters 5-8). The assessment shows there were no areas where it was concluded there would be a negative cumulative permanent impact (during operation of the scheme).

TABLE 3.1 Evaluation criteria for community impacts

Impact	Threshold of significance (at community level)
Permanent loss of residential accommodation	Demolition or displacement (for 3 months or more) of 5 properties or more.
Temporary loss of residential accommodation	Displacement of residents from 10 or more properties for less than 3 months
Community facilities or key services: - closure or rendered unusable - other impairment of use	Assessed based on the availability of alternative facility within a reasonable distance.
Closure or substantial diversion of public footpaths or other access	For more than a few weekends and resulting in a diversion of 500m or more.
Impact on local amenity as a result of Heavy Goods Vehicles (HGVs) during construction	Over 100% increase in lorry number subject to a threshold of at least 5 HGV's a day.
Noise and Vibration	As defined in Noise and Vibration
Visual	As defined in Visual
Atmospheric	As defined in Atmospheric

3.9 Assumptions and Limitations

3.9.1 The following assumptions were made:

- unless stated otherwise, the baseline environment was assumed to remain unchanged from observations
 during site inspections and from current land use information (exceptions included community facilities which
 had planning permission but had not yet been constructed); and
- The presence of an alternative comparable facility within walking distance of one affected by the project was regarded as mitigating any loss of use of amenity of that facility.



O4 Mitigation





Mitigation

4.1 Mitigation Process

- 4.1.1 The impact assessment shown in Chapters 5-8 has identified the potential impacts (positive and negative) that may arise during the construction and operation of Crossrail. This impact assessment has considered mitigation proposed by the project. If the mitigation cannot reduce the impact then a significant residual impact remains. This is recorded as part of the community impact assessment and reported in the main ES.
- 4.1.2 Where Crossrail will directly affect community facilities through landtake or displacement, local authorities have been consulted about ways in which to mimimise the extent of impact.

4.2 Mitigation Assumptions

- 4.2.1 The Community Impact Assessment has assumed that each discipline (noise, traffic, visual and air quality) has incorporated the mitigation outlined by Appendix B1 (of the Environmental Statement) into the analysis of environmental impacts. This means that the impacts reported in Chapters 5-8 have been properly considered in terms of incorporated mitigation that will be implemented by the project during construction.
- 4.2.2 Where potential exists to mitigate direct impacts on community facilities, for example, through compensation or use of alternative facilities, this is addressed on a case by case basis. If agreement with the relevant authorities and community facility has not yet been reached, residual impacts have been assumed to persist.



Baseline and Environmental Impacts: Maidenhead to Westbourne Park





Baseline and Environmental Impacts: Maidenhead to Westbourne Park

5.1 Introduction

- 5.1.1 This chapter describes the western route section of Crossrail from Maidenhead Station to Portobello Junction (Westbourne Park), and the significant residual temporary and permanent environmental impacts that may arise from construction and operation.
- 5.1.2 Crossrail will use the existing Great Western relief lines (in normal operations) with additional new tracks at some locations. For example, a new line will be constructed over about 1 km between Langley and West Drayton, to link with existing (but upgraded) freight lines to east and west providing increased track capacity.
- 5.1.3 Major new structures or facilities include: a new dive-under (rail underpass) at Acton (W4), a new flyover at Stockley in Hillingdon (W11), a freight loop from Langley to West Drayton (W14, W15, W16); and new or remodelled sidings at Maidenhead (W25), West Drayton (W13) and Old Oak Common depot (W3). Crossrail will require, at several places, changes to the permanent way, such as new track or track realignment. It will also require new or extended station platforms to accommodate Crossrail's 200 m long trains. At nine stations, improved facilities, including new or modified ticket halls, will be provided to accommodate Crossrail passengers.
- 5.1.4 The GWML between Paddington and the Stockley Road bridge is the only section that is electrified. The remainder of the route west of Stockley Road bridge will require the provision of new 25 kV AC overhead line equipment (OHLE). This will require the raising of some bridges or lowering of track beneath them. In some cases, bridges will require complete reconstruction. In other cases, bridge works will be more limited; for example, the raising of parapets (side walls) for public safety reasons.
- 5.1.5 Tables 5.1 and 5.2 referred to in each route window summerise the direct and cumulative impact assessment and are found in Chapter 10.



5.2 Portobello Junction and Canal Way (Route Windows W1 and W2)

Baseline

- 5.2.1 The Grand Union Canal, Kensal Green Cemetery, St Mary's Cemetery and a large supermarket superstore are located to the north of the track. The track is crossed north/south by Ladbroke Grove. To the east, between Ladbroke Grove and the Grand Union Canal are light industrial and storage uses with some housing. The community resources include: Middle Row Primary School, St Mary's Primary School, Emslie Horniman Pleasance Sports Grounds, St Thomas' Church, the Acorn Community Centre, Kensal Community Centre, St Thomas Primary School and Ainsworth Primary School.
- 5.2.2 The area to the south of the track is mainly residential with open space provided by Little Wormwood Scrubs. Community resources include: Kensington and Chelsea College, North Kensington Fire Station, Lloyd Williams Primary School, St Pius Church, Barlby Primary School, Barlby Surgery, Barlby Play Centre and the Shaftesbury Centre.
- 5.2.3 The Grand Union Canal, Kensal Green Cemetery and St Mary's Cemetery are designated 'Metropolitan Open Land', and Little Wormwood Scrubs is designated 'Open Space' in the Hammersmith and Fulham UDP (Adopted August 2003). The Plan also designates a 'Longer Distance Canal Side Walk' and 'Strategic and Local Cycle Routes' along the Grand Union Canal.

Main Works

- 5.2.4 The four tracks on the GWML corridor increase to six at Ladbroke Grove (in Route Window W1). The point at which the tracks widen to six will be moved eastwards to Subway Junction, east of Westbourne Park. This will provide space for a reversing facility at Westbourne Park.
- 5.2.5 The final track arrangement will result in the northern pair of tracks being used by Crossrail for empty stock movements to, and from, Old Oak Common depot. The middle pair will be used for relief lines and the southern pair will be used for mainlines. The track layout at Portobello Junction will also be modified to permit Crossrail services to cross between the dedicated Crossrail lines and the GWML relief lines.
- 5.2.6 The track layout at Canal Way will be modified to permit Crossrail services to access Old Oak Common Depot, and to reduce conflict with other services accessing the depot.
- 5.2.7 The works will be within the railway corridor with no large construction sites. Main access and egress will be from Canal Way.

Significant Residual Impacts

5.2.8 Table 5.1 summarises the assessment of impacts for this route section. There will be no significant residual impacts.

Cumulative Impacts

5.2.9 Table 5.2 summarises the cumulative impact assessment. There will be no cumulative impact.



5.3 Old Oak Common Depot (Route Window W3)

Baseline

- 5.3.1 The Old Oak Common Depot is located on a large area of railway sidings and railway land to the north of Wormwood Scrubs Park (comprising stabling sidings, engine sheds and workshops). The area is mainly railway and light industrial uses, with small pockets of residential development to the west (Wells House Road, Shaftesbury Gardens and Midland Terrace). John Perryn School is located on Long Drive to the south. Willesden Station is located to the north, with Oak Common Station to the south. The Grand Union Canal runs along the north-eastern boundary of the sidings.
- 5.3.2 Wormwood Scrubs Park (to the south of the depot) is designated 'Metropolitan Open Land' by the Hammersmith and Fulham UDP (Adopted August 2003).

Main Works

5.3.3 Fourteen new stabling sidings will be provided within Old Oak Common depot, with a further siding incorporating a train-washing plant within the site of Old Oak Common depot. This will require some remodelling of existing trackwork to accommodate the needs of other existing users within the depot. The future sidings site will also be used temporarily as a tunnel construction and fit-out depot. The main access and egress will be from Old Oak Common Lane.

Significant Residual Impacts

5.3.4 Table 5.1 summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

5.3.5 Table 5.2 summarises the cumulative impact assessment. There will be no cumulative impact.



5.4 Acton Main Line Station and Yard (Route Window W4)

Baseline

- 5.4.1 Acton Mainline Station is located at the junction of Friary Road and Horn Lane. It lies to the south of Acton Freight Yard, an area of extensive railway sidings and railway uses. There are retail and commercial uses along Horn Lane near the Station. The North Acton Recreation Ground, several playfields and sports grounds are located off Noel Road and Lowfield Road to the north of the freight yard. Community resources include: a post office and shops along Horn Lane; and St Gabriel's Church, a Day Nursery, West Acton Primary School and allotments off Lowfield Road. There are more allotments to the east opposite Ellen Wilkins School for Girls (which has extensive playing fields). The area to the south of the tracks is mainly residential and includes the Japanese School and playing fields.
- 5.4.2 North Acton Recreation Ground is designated 'Public Open Space', and the green space to the north of the railway which includes the playing fields, allotments and land at Acton School area designated 'Community Open Space' by Ealing UDP (Adopted October 2004).

Main Works

5.4.3 The main works will include:

- the construction of a new rail underpass at Acton Yard; and
- **a** new ticket hall, footbridge, platform canopies, and platform extensions at Acton Main Line Station.
- 5.4.4 A new rail underpass will be constructed to provide paths for freight trains going to, and from, Acton Yard without disrupting Crossrail trains and other services. This will take the eastbound relief line beneath the tracks that connect with Acton Yard. Track remodelling will require some demolitions within the Acton Yard.
- 5.4.5 The Acton dive-under and track work will be constructed from Acton Mainline Station Worksite West. The two goods lines and three depot reception lines will need to be realigned considerably north of their current location to accommodate the rail underpass. This will require sidings and facilities (used by NTS or their tenants) to be moved north. The precise location for this has not yet been agreed with EWS.
- 5.4.6 The worksite will require the landtake of allotments (off Alwyn Gardens), part of the open space adjacent to West Acton Primary School and part of the sports ground off Noel Road. The main access will be from Noel Road and Horn Lane. Although it is likely that the land will only be required temporarily, this is subject to discussion with various bodies. The assessment has therefore assumed the landtake will be permanent.
- 5.4.7 A new ticket hall will be constructed at 267 Horn Lane to the south of the existing station. The existing facility on Horn Lane may be converted to commercial use. A new ticket hall will lead to a new footbridge, which will provide access to each platform. New canopies will be provided and platforms three and four will be extended west by 57m.
- 5.4.8 The works at Acton Mainline Station will be constructed from Acton Mainline Station Worksite (requiring the demolition of 267 Horn Lane (mainly office use). Access will be from Horn Lane.



Significant Temporary Residual Impacts

- 5.4.9 Table 5.1 summarises the assessment process for this route section.
- 5.4.10 The increase in HGV (Heavy Goods Vehicles) on Noel Road (over 100%) will be a significant temporary negative impact. This is a primarily residential street with relatively low traffic flows and the additional lorry traffic during the peak period of construction will generate a significant adverse impact on the residential community.

Significant Permanent Residual Impacts

5.4.11 The landtake from allotments off Alwyn Gardens, the open space of West Acton Primary School and all of Lowfield sports ground will be a permanent negative residual impact. Mitigation of this impact is subject to ongoing design work and consultation with the relevant authorities.



Cumulative Impacts

- 5.4.12 The cumulative impact assessment is presented in Table 5.2.
- 5.4.13 There will be a cumulative impact on the local community during construction. This will result from the significant increase in HGV traffic on Noel Road, significant noise and visual impacts on surrounding residents, and impacts on rail users due to the closure of the station during the Paddington blockade.
- 5.4.14 This will also include the permanent landtake of the allotments of Alywn Gardens, part of the open space by West Acton Primary School and of the Lowfield Sports Ground (as outlined in 5.4.11 above). These impacts are included within the cumulative construction impact assessment because, although permanent, they will actually commence during the construction period.



5.5 Ealing Broadway Station (Route Window W5)

Baseline

- 5.5.1 Ealing Broadway Station serves the District Line, Central Line and Network Rail. It provides an important local transport connection to London and the west. Ealing is a regional centre with a wide range of shopping facilities located to the south of the station. These include the Water Glade Centre and other shops on The Broadway. There are a number of community facilities and services near the Station including: a police station, Christchurch junior school and several churches. Open space is provided by Haven Green to the north of the track; and Walpole Park and Ealing Common to the south.
- 5.5.2 Ealing is designated a 'Metropolitan Centre' by the London Plan and the Ealing UDP (Adopted October 2004). This means it serves a wide area covering several boroughs, and offers a high level range of goods with a significant employment leisure and retail function.
- 5.5.3 The Water Glade Centre and other shops on The Broadway are 'Designated Shopping Frontage' and Haven Green is designated 'Public Open Space' by the Ealing UDP (Adopted October 2004). The UDP also designates Walpole Park and Ealing Common as 'Metropolitan Open Land'.

Main Works

5.5.4 The main works will include:

- platforms one to four will be extended at the eastern end by between 10m and 40m with provision of shelters and canopies;
- a new ticket hall will be provided on the site of the existing retail units south of Villiers House. It will replace the existing facility, which will be converted to storage and commercial use;
- a new station footbridge, including three new escalators and lifts to create step-free access to all platforms; and
- a new interchange footbridge with emergency escape at the east end of the main line platforms.
- 5.5.5 There will be three worksites. The Haven Green Worksite will occupy some of the grassed area of Haven Green local open space. Access will be from Haven Green. There will be a second worksite on Ealing Station forecourt with access from the Haven Green. The third worksite will be located to the south east of the station off The Mall (the site is currently carparking for some flats). The works will require the demolition of retail units and kiosks within the station complex.

Significant Residual Impacts

5.5.6 Table 5.1 summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

- 5.5.7 Table 5.2 shows the cumulative impact assessment.
- 5.5.8 There will be a cumulative impact during construction. This will be caused by:
 - noise impacts on residents and a surgery at the Mall and Madeley Road as well as users of Haven Green and the Feathers Public House;
 - visual impacts on residents around Haven Green, at Green Law Court and at College Court;
 - a loss of parking spaces south of the tracks;
 - and delays for train passengers travelling to, and from, the station.



5.6 West Ealing Station (Route Window W6)

Baseline

- 5.6.1 West Ealing Station is located in a residential area. It is served by shops along the Avenue, and at the junction of The Avenue and Alexandria Road. The railway over-bridge also accommodates a number of single storey retail units. The Station is separated from Manor Road to the north by a derelict former siding and small workshops. Manor Road is mainly residential. Resources to the north of the tracks include: a preschool playgroup at Drayton Green and Drayton Green Primary School. A supermarket, car park and light industrial units separate the rail corridor from a residential area to the south. Resources to the south include: Dean Hall Community Hall, a church and Ealing Magistrates Court.
- 5.6.2 West Ealing station falls within the 'Metropolitan Centre' designated by the Ealing UDP (Adopted October 2004). The retail resources at The Avenue, and at the junction of The Avenue and Alexandria Road are 'Designated Shopping Frontage'; and Drayton Green and Dean Gardens are designated 'Public Open Space' by the Ealing UDP. The Royal Borough of Kensington and Chelsea Cemetery to the west is designated 'Metropolitan Open Land' (MOL) by the UDP.

Main Works

5.6.3 The main works will include:

- provision of new track and bay platform for the Greenford Branch;
- platform extensions; and
- construction of a new ticket hall and new footbridge with lifts.
- 5.6.4 Approximately 250m of new track will be introduced west of West Ealing Station (to accommodate the Greenford Branch). Passengers using the Greenford Branch will be required to change at West Ealing (because the through services to, and from, Paddington will no longer be available). Greenford services will use a new 50m long bay platform, located on the north side of the station over some disused sidings.
- 5.6.5 The existing ticket hall located on the road overbridge at the east end of West Ealing Station will be converted to commercial use. A new facility will be constructed on the north side of the station, adjacent to the taxi rank off Manor Road.
- 5.6.6 Both platforms will be extended at the western end by 65m. New canopies will be constructed over part of the platforms.
- 5.6.7 The West Ealing Station Worksite will be located to the north of the tracks and west of the station. It will use railway land that was previously used as a milk dock for servicing London with fresh milk. The main access will be from Manor Road.

Significant Temporary Residual Impacts

- 5.6.8 Table 5.1 summarises the assessment process for this route section.
- 5.6.9 Construction traffic will generate over 100% increase in HGV traffic on Manor Road. This is a residential street with low traffic flows and the additional traffic during a 12 week period will generate a significant impact on the amenity of the community.

Cumulative Impacts

5.6.10 Table 5.2 summarises the cumulative impact assessment. There will be no cumulative impact.



5.7 Hanwell Station (Route Window W7)

Baseline

- 5.7.1 Hanwell Station is located in a residential area. The Brent Valley to the west is an important green corridor. Kensington Cemetery, a synagogue, health centre and Hanwell Library are all located south of the railway; with Ealing Hospital to the southwest. The residents are served by shops along Church Road, the Uxbridge Road and Greenford Avenue. St Joseph's and St Ann's Primary are located to the south of the Station. Open space is provided by Churchfields Recreation Ground and Brent Valley Golf Course to the north of the tracks.
- 5.7.2 The Ealing UDP (Adopted October 2004) designates Churchfields Recreation Ground as 'Public Open Space and MOL, and Brent Valley Golf Course as MOL. The UDP designates Hanwell as a District Centre with the shops on Uxbridge Road and Greenford Avenue as 'Designated Shopping Frontage'.

Main Works

5.7.3 Both platforms will be extended westwards by approximately 65 m to accommodate Crossrail trains. There will also be various minor track modifications. The works will be constructed from three sites. Churchfields Gardens Worksite will be located on part of the recreation ground land to the north of the railway (accessed from Golden Manor). Golden Manor worksite will be located on railway embankment to the rear of houses on Campbell Road (also accessed from Golden Manor); and Hanwell Station Forecourt Worksite will be located in a builders yard (now derelict) adjacent to Hanwell Station forecourt (accessed from Campbell Road).

Significant Residual Impacts

5.7.4 Table 5.1 summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

5.7.5 Table 5.2 summarises the cumulative impact assessment. There will be no cumulative impact.



5.8 Southall Station (Route Window W8)

Baseline

- 5.8.1 Southall Station is located adjacent to a Sikh Temple within an area of mixed residential/light industrial use. Southall is a large local centre with a wide range of shopping, recreation and other social facilities. Shopping facilities are located along South Road near the station and on King Street. Southall Park (to the north) provides large areas of open space and a bowling green. Other facilities include: Villiers School, Hambrough Primary School, and a methodist church to the north of the station; and Southall Norwood Hospital to the south. The Southall Park and residential areas to the north of the tracks are linked to the Glade Way Sports Ground and BMX track in the south via the Green Drive pedestrian subway.
- 5.8.2 Southall is designated a 'Major Centre' by the London Plan and the Ealing UDP (Adopted October 2004). The UDP designates Southall Park as 'Public Open Space' and the shops on King Street as 'Designated Shopping Frontages'.

Main Works

5.8.3 The main works will include:

- reconstruction of Southall Station, including provision of new ticket hall and footbridge;
- minor realignment of the westbound relief line track;
- platform extensions; and
- track modifications to the east.
- 5.8.4 The works will be constructed from Southall Station Worksite located to the north of the tracks on railway land (with access from South Road and Park Avenue). A worksite will also be located on a light industrial yard/storage site off Park Avenue.

Significant Residual Impacts

5.8.5 Table 5.1 summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

5.8.6 Table 5.2 summarises the cumulative impact assessment. There will be no cumulative impact.



5.9 Southall West Sidings (Route Window W9)

Baseline

- 5.9.1 Southall Sidings divide a former gas works site and large areas of contract parking to the north, from residential uses to the south. The two areas are linked by the White Street Subway, which passes north-south under the tracks. The Spencer Street play area is located to the south of the tracks on Spencer Street. It provides open space and basketball courts for local use. Corridors of open land define the floodplains of Yeading Brook to the west. The residential area of Southall Green lies to the south. Shopping facilities are provided along Dudley Road. Other services include the Southall and West London College and Beasonsfield Primary School on Beaconsfield Road, and the British Legion on Dominion Road.
- 5.9.2 The retail provision on Dudley Road is a 'Designated Shopping Frontage' by the Ealing UDP (Adopted October 2004).

Main Works

5.9.3 There are no works in this route section other than some minor resignalling.

5.10 Hayes and Harlington Station (Route Window W10)

Baseline

- 5.10.1 Hayes & Harlington Station is located between the urban areas of Hayes (to the north) and Harlington (to the south). The two towns combined provide a district centre with a range of retail services and community uses. The area surrounding the centre is mainly residential with Victorian terraced housing and some more recent estates to the north of the tracks and pre-war housing to the south. The land to the east is mainly industrial and storage. The residential uses to the south are served by a number of community facilities including: Elim Pentecostal Church, Hayes Spiritualist Church, a Nursery and Early Years Centre, several surgeries and a local community centre.
- 5.10.2 Hayes & Harlington retail area is designated Town Centre by Hillingdon UDP (Adopted 1998).

Main Works

5.10.3 The main works will include:

- extension of the existing freight line and creation of a new northern span for Station Road Bridge to accommodate this;
- provision of a new ticket hall at Hayes & Harlington Station to replace the existing one;
- a new passenger overbridge with stairs and a lift to all platforms; and
- track and platform modifications at the station.



- 5.10.4 The works will be constructed from three sites. The Hayes & Harlington Station Worksite North will be located off Station Approach. It will be accessed from Station Road and will require the demolition of the current station building, the office/retail buildings known as Bridge House and numbers 107 - 131 Station Approach (which includes three dental surgeries and a dental technician).
- 5.10.5 The Hayes & Harlington Station Road Bridge Worksite is located on railway land to the south of the tracks and to the rear of properties on Keith Road (also accessed from Station Road). The Hayes & Harlington Station Worksite South will be within the station carpark to the rear of properties on Viveash close.

Significant Residual Impacts

- 5.10.6 Table 5.1 summarises the assessment process for this route section.
- 5.10.7 The permanent closure of three dental surgeries and a dental technician at 115 and 117 Station Approach will have a significant permanent negative impact. Although there are other alternatives within a reasonable distance, this represents a considerable proportion of the total number of dentists in the area and is therefore considered significant.



Picture 2: W10 Hayes Dentists

Cumulative Impacts

5.10.8 Table 5.2 summarises the cumulative impact assessment. There will be no cumulative impact.



5.11 Stockley Flyover (Route Window W11)

Baseline

- 5.11.1 The track runs east-west parallel with the Grand Union Canal (located to the north). The Stockley Flyover (which carries train services to Heathrow) runs parallel to Stockley Road branching east to join the mainlines. The area is industrial/storage to the north and south-west of the tracks with housing to the south-east and allotments immediately south of the tracks. Stockley Ponds, trees and open land bound the Stockley Flyover to the west. Open space borders the Grand Union Canal to the north.
- 5.11.2 The open space to the north of the Grand Union Canal is designated 'Green Belt', and the ponds are designated 'Green Belt' and part of an 'Area forming a link in a Green Chain' by Hillingdon UDP (Adopted 1998).

Main Works

- 5.11.3 New OHLE will be provided on the Crossrail route. A new grade separated junction (flyover) will be constructed to the north and west of the existing Stockley Flyover. The new flyover will accommodate the eastbound Crossrail/Heathrow Express line. This will also required substantial tracks realignments to provide for Heathrow Express and other services.
- 5.11.4 Structures will be built to convey a new track onto a new viaduct along the north side of the existing rail corridor. This northern viaduct will be about 400m long. A new bridge deck will be built at each end over the existing lines.
- 5.11.5 A western structure will be constructed northwest of the existing flyover, about 300m east of Stockley Road Bridge. This transfer structure will comprise to bridge decks that will carry a new track over all of the low level tracks in the GWML corridor. Another small viaduct will then carry it to a point north of the airport tunnel. This new track will accommodate all trains travelling from Heathrow.
- 5.11.6 At the eastern end the viaduct widens as a the single track diverges into two, opposite Swallowfield Way. An eastern transfer structure will be constructed to accommodate the new tracks and carry one of them to a new alignment between the low level tracks, the second Crossrail track will remain on the north side of the rail corridor. The two tracks will reach ground level just west of Dawley Road Bridge on 300m long ramps.
- 5.11.7 Various track alignments will be required for this new arrangement. Eastbound Heathrow Express trains will be transferred from the existing Stockley flyover onto the new structure. The Stockley flyover will then be used to accommodate westbound Crossrail airport trains. Westbound Heathrow express trains will continue to use the dedicated track on the south side of the rail corridor. Other alignments will be required to take low level tracks beneath the new bridge decks.
- 5.11.8 The works will be constructed from four sites. The Dagenham Motors Worksite will be located to the north of the tracks within the Aberglen Industrial Estate. It will be accessed from Dawley Road. Two worksites will occupy part of HG Timber and All Point Packaging and will be accessed from the industrial estate service road. The fourth worksite will be located at Stockley Close and will be accessed from Stockley Road. The works will require the demolition of Dagenham Motors, All Point Packaging, Wackenshut (at Stockley Close), KGM transport and HG Timber.



Significant Residual Impacts

5.11.9 Table 5.1 summarises the impact assessment process.

5.11.10 The construction of a landscape bund will require the permanent landtake of the allotments immediately south of the railway. The loss of the allotments will cause a significant permanent adverse impact on the local community.

Cumulative Impacts

5.11.11 Table 5.2 shows the cumulative impact assessment. There will be no cumulative impact.

5.12 Horton Road and Old Stockley Road Bridge (Route Window W12)

Baseline

5.12.1 Horton Bridge lies to the west of the route window linking industrial areas to the north of the tracks with residential areas to the south. Old Stockley Road Bridge lies to the east. It runs parallel to Stockley Road and links Stockley Country Park and industrial land to the north, with residential areas to the south. The Grand Union Canal runs parallel to the tracks on the north side. The main community resource is Jigsaw Day Nursery located within Stockley Country Park.

5.12.2 Stockley Country Park is designated 'Green Belt' by Hillingdon UDP (Adopted 1998).

Main Works

- 5.12.3 This route section will require overhead electrification, which will necessitate works to bridges. Old Stockley Road bridge marks the start of this electrification to the west.
- 5.12.4 In order to accommodate the OHLE, bridge modifications will be required. Kingston Lane footbridge. It will be replaced by a new footbridge immediately to the west. The works will be constructed from Kingston Lane Worksite on a redevelopment site (to the south of the tracks and west of the current bridge).
- 5.12.5 The works will be accessed from the West Drayton to Horton Bridge Worksite, which will use land to the north currently occupied by a plant hire firm (the Drayton end) and scrub land (the Horton end). The new bridge will accommodate the utilities that are contained within the current bridge.
- 5.12.6 Old Stockley Road Bridge will be demolished and replaced by a foot/cycle bridge. The works will be constructed from Stockley Road Bridge Worksite to the south of the tracks and accessed from Stockley Road.

Significant Residual Impacts

5.12.7 Table 5.1 summarises the assessment process for this route section. There will be no significant impacts.

Cumulative Impacts

5.12.8 Table 5.2 shows the cumulative impact assessment. There will be no cumulative impact.



5.13 West Drayton Station (Route Window W13)

Baseline

5.13.1 West Drayton Station is located in West Drayton Town Centre, and surrounded by residential areas. The West Drayton Sidings are occupied by a coal depot and other open storage uses. The sidings are bound to the south by the Great Western Main Line and to the north partly by Fray's River and partly by the Poyle Branch Line. The Colne Valley and River Colne provide open space to the north. There are a number of community facilities which include: the Ivy Leaf Club and health centre to the north of the railway; and a dentists, various health services and a post office to the south.

5.13.2 West Drayton is designated Town Centre by the Hillingdon UDP. The UDP designates the Colne Valley as 'Green Belt'.

Main Works

5.13.3 The main works will include:

- construction of a new stabling facility on the site of the former West Drayton Station;
- redevelopment of West Drayton Station; and
- introduction of OHLE throughout.
- 5.13.4 The works to the station will include track and platform works. Platform four will be lengthened at the eastern end by 62m. The curvature of the goods line behind platform four will be adjusted to allow for the provision of a new face to platform five. Platform three will be extended east by 65m.
- 5.13.5 The works to the station will be constructed from the West Drayton to Horton Bridge Worksite. This will include land railway land north of the tracks between West Drayton Station and Horton Bridge. This land is currently occupied by a plant hire firm (the Drayton end) and scrub land (the Horton end). It will be accessed from Station Approach.
- 5.13.6 A new stabling facility will be constructed on the site of the former West Drayton coal concentration depot, west of the station. The facility will comprise 22 sidings with low height lighting, train washing facilities and staff accommodation buildings. The sidings will require the removal of light industrial units, the provision of a new bridge over the Frays River and the realignment of an access road.
- 5.13.7 The works at the sidings will be constructed from West Drayton Stabling Worksite which will comprise the whole of the West Drayton Yard area (previously a coal concentrate depot and some light industrial uses). The work will be accessed from Tavistock Road.

Significant Residual Impacts

- 5.13.8 Table 5.1 summarises the assessment process for this route section.
- 5.13.9 The construction works along the canal between West Drayton Station and Kingston Lane Bridge may provide an opportunity to create a public canalside walk to the station after completion of the works. This would be a significant permanent beneficial impact.

Cumulative Impacts

- 5.13.10 Table 5.2 summarises the cumulative impact assessment.
- 5.13.11 There will be a cumulative impact on the community during construction caused by: noise at Warwick Road, Knowles Close, the High Street and Tavistock Road; and visual impacts at Weirside Gardens, Humber Close, Knowles Close and Warwick Road.



5.14 Iver Station (Route Window W14)

Baseline

5.14.1 Iver Station is located to the west of Thomey Lane. Open grassland lies to the north of the station with a large concrete batching plant to the west. The haul road for this plant runs along the north side of the tracks and onto Thorney Lane. The area to the south of the Station is mainly residential and forms part of the Richings Park residential area. Shops are provided along Bathurst Walk and services include a pharmacy, library and post office.

5.14.2 The open area is designated 'Green Belt' by the South Buckinghamshire District Local Plan (Adopted March 1999)

Main Works

5.14.3 The main works will include:

- Thorney Lane road bridge will be replaced with a new steel structure to accommodate overhead electrification (the new bridge will be built before the existing bridge is dismantled);
- Thomey Lane footbridge will be retained but the parapets will be raised.
- extension of platforms two, three and four at Iver Station eastwards by approximately 30 m;
- conversion of platform 4 to an island platform and reconstruction of the north facing side to create a new platform 5
- the new platform 5 will serve the new relief line created by upgrading the existing freight loop and realigning it north; and
- a new ticket office on the existing site.
- 5.14.4 The works will be constructed from three sites. Thorney Lane North Worksite East will be located to the north of the tracks and east of the road on open land. It will be accessed from Thomey Lane. Thomey Lane North Worksite West will be located to the north of tracks and west of the road on open land. It will be accessed from the haul road currently used by the Bison Concrete Works. The Thomey Hill Golf Course Electricity Pylon Worksites will be located on open land to the south of the railway and east of the road
- 5.14.5 At Iver station, the Iver Station Worksite will be located on the open land to the north of the station with access from the existing

Significant Residual Impacts

- 5.14.6 Table 5.1 summarises the assessment process for this route section.
- 5.14.7 Thomey Lane will be realigned to create an improved junction with the haul road to the north of the railway. This will move the heavily trafficked road further away from the residential area and provide an improved road junction with the haul road to the cement works. This would provide a significant permanent beneficial impact for local residents.

Cumulative Impacts

5.14.8 Table 5.2 summarises the cumulative impact assessment. There will be no cumulative impact.



5.15 Dog Kennel Bridge (Route Window W15)

Baseline

- 5.15.1 The railway corridor crosses an area of open countryside in shallow cutting and then a low embankment with areas of mature trees. A large open arable field lies to the north of the tracks, which extends south of the railway to the North Park Road and Thorney Park Golf Course. Residential areas and the periphery of Slough Town Centre lie to the west. Dog Kennel footbridge links the open areas north and south of the railway. It is used by pedestrians and horseriders.
- 5.15.2 The open areas are designated 'Green Belt' by the South Buckinghamshire District Local Plan (Adopted 1999).

Main Works

- 5.15.3 A new single-track relief line will be constructed on the northern side of the tracks. It will be approximately 1.2 km and run between Chequer Bridge (in Route Window W16) and Dog Kennel Bridge. The embankment between Chequer Bridge and Dog Kennel Bridge will be widened by approximately 7m to accommodate the new track.
- 5.15.4 Dog Kennel Bridge will be demolished with no replacement footbridge. This will be constructed from Dog Kennel Bridge Worksite South. This will require a small area of land to the south of the tracks. A narrow strip of land will also be required to the north of the tracks between Dog Kennel Bridge east to Hollow Hill Lane.
- 5.15.5 Chequer Bridge will be replaced with a new single track railway bridge to the north. The Hollow Hill Lane to Dog Kennel Bridge Worksite will be located to the north of the tracks with access from Market Lane. It will use some open land from Richings Park.
- 5.15.6 The works will include the diversion of two gas mains and an oil pipeline. This will be carried out from the Chequer Bridge Pipeline Diversion Worksite.

Significant Residual Impacts

- 5.15.7 Table 5.1 summarises the assessment process for this route section.
- 5.15.8 Dog Kennel footbridge is a permissive footpath used by pedestrians and horse riders. It also links two public paths. The permanent loss of this bridge will be a significant negative impact.



Picture 3: Aerial view of dog kennel bridge

Cumulative Impacts

5.15.9 Table 5.1 summarises the cumulative impact assessment. There will be no cumulative impact.



5.16 Langley Station (Route Window W16)

Baseline

- 5.16.1 Langley Station lies within the built up area of Langley. There are industrial estates to the north of the station and housing/industrial land to the south. Langley Shopping Centre is located to the south on the High Street. The Grand Union Canal lies to the north of the tracks, with Iver Golf Course and Sawyer Green Farm to the far north.
- 5.16.2 The shopping area is designated "primary and secondary shopping frontages" by the Slough Local Plan (Adopted March 2004).

Main Works

- 5.16.3 New OHLE will be provided on the Crossrail route. Relief line platforms at Langley Station will be extended eastwards by about 42m to accommodate Crossrail trains. The down main platform will be extended eastwards by 20m to allow for use by five-car Crossrail trains during the maintenance periods for the relief lines. In addition, some track works will also be required to the east of Langley Station, with the provision of a new junction to the east of Langley Station, and a new junction for the Langley-West Drayton Loop (Route Window W15).
- 5.16.4 A small worksite is planned on industrial land east of the station (the site of the former Total GB Ltd oil terminus). This will be accessed from Station Road.

Significant Residual Impacts

5.16.5 Table 5.1 summarises the assessment process for this route section. There will be no significant residual impact.

Cumulative Impacts

5.16.6 Table 5.2 summarises the assessment process for this route section. There will be no cumulative impact.



5.17 Middlegreen Road, St Mary's Road and Trenches Bridges (Route Window W17)

Baseline

- 5.17.1 Middlegreen Road Bridge, St Mary's Road Bridge and Trenches Bridge all link housing to the south of the railway to; industrial space, the Grand Union Canal and Middle Green open space to the north. Residential areas and smaller areas of open space are located to the south. There are several areas of formal open space, allotments, community facilities and St Mary's Church to the south; and Manor Tree Group Langley Nursery School and Junior School to the north.
- 5.17.2 The Slough Local Plan (Adopted March 2004) designates the formal open spaces as 'Public Open Space/ Allotments'.

Main Works

- 5.17.3 New Overhead line equipment will be provided on the Crossrail route. Bridge works will be required at some locations to accommodate this. The brick arches of both Middlegreen Road (Langley Down) Bridge and St Mary's Road (Church Lane) Bridge will be demolished and replaced with new bridge decks. Trenches footbridge will be partially demolished and replaced with a new two-span steel superstructure.
- 5.17.4 Trenches Bridge Worksite North will be located on the vacant land east of the bridge (part of Langley Business Park site). Access will be from the east, using Waterside Drive. St Mary's Road Bridge Worksite South will occupy grassed recreation space that forms part of Springate Fields with access from St Mary's Road.
- 5.17.5 Middlegreen Road Bridge Worksite North will be located on public open space (Bloom Park) north of the railway and accessed from Middlegreen Road.

Significant Residual Impacts

- 5.17.6 Table 5.1 summarises the assessment process for this route section.
- 5.17.7 The five week closure of Middlegreen Bridge will be a temporary significant impact. The temporary closure of the heavily used Trenches Bridge for approximately three weeks will also be a significant negative residual impact.
- 5.17.8 Construction will required the temporary landtake of approximately 20% of Bloomfield Park, given the large remaining park area this is not considered a significant impact. It has been assumed that the landtake at Bloom Park will not effect the yearly canal festival.

Cumulative Impacts

5.17.9 Table 5.2 summarises the cumulative impact assessment. There will be no cumulative impact.



5.18 Slough Station (Route Window W18)

Baseline

- 5.18.1 Slough Station is located on the northern edge of the town centre. The town centre lies mainly to the south of the station comprising offices and retail uses. It includes a superstore, hotel, and St Bernard's School. Business uses predominate to the north of the railway (offices, light industry and distribution) with housing beyond in Stoke Gardens and Petersfield Road.
- 5.18.2 The town centre is designated 'Town Centre Commercial Area' and 'Shopping Centre' by Slough Local Plan (adopted March 2004).

Main Works

5.18.3 The main works will include:

- upgrading of Slough Station including a new bay platform, platform extensions and modifications to the ticket
- a new footbridge at the western end of the station with lift access to all platforms;
- provision of a Slough goods loop; and
- introduction of OHLE throughout the route window, and changes to three road bridges to accommodate this.
- 5.18.4 The works to Uxbridge Road Bridge will be carried out from a small worksite to the east of the road adjacent to the tracks. Electrification works at Wexham Bridge will take place from Wexham Road Bridge Worksite South on a strip of open scrub land south of the tracks and Wexham Road Bridge Worksite North on a carpark to the north. They will be accessed from Wexham Road.
- 5.18.5 At Slough Station, several small work sites are planned on car parking areas and railway land to the north at Railway Terrace Worksite West and Slough Station Worksite North. To the south worksites will be located at William Street Bridge, Brunel Way and Slough Station South.

Significant Residual Impacts

5.18.6 Table 5.1 summarises the assessment process for this route section. There will be no significant impacts.

Cumulative Impacts

5.18.7 Table 5.2 summarises the cumulative impact assessment. There will be no cumulative impact.



5.19 Stoke Poges Lanes Bridge (Route Window W19)

Baseline

- 5.19.1 The railway passes through mainly residential areas. Godolphin Playing Fields to the north are linked to the Salt Hill Pleasure Ground to the south by a railway underpass. Slough Town Centre is located to the south-east. There are a number of community resources to the south which include: the Bharami Health Centre on Lansdowne Avenue, the Polish Roman Catholic Church on Pitts Road and Thames Valley University on Wellington Road. Acorn dental surgery on Stoke Poges Lane is located to the north. Industrial uses lie between the residential areas and Farnham Road to the west. The Rotunda Stadium and Youth Community Centre are located within this industrial area.
- 5.19.2 The open spaces are designated 'Public Open Space' and Slough Town Centre is designated 'primary and secondary shopping frontages' by Slough Local Plan (Adopted March 2004).

Main Works

- 5.19.3 OHLE will be introduced throughout this route window. Bridge modifications will be required to accommodate this. At Stoke Poges Lane, the road bridge will be raised to provide sufficient clearance. This will require two work sites, one to the north east of the bridge on a carpark area (Stoke Poges Lane Bridge Worksite North) and one to the south west in Salt Hill Pleasure Grounds (Stoke Poges Lane Bridge Worksite South). The worksites will be accessed from Stoke Poges Lane.
- 5.19.4 At Farnham Road Bridge the parapets will be raised and the track will be lowered beneath the bridge. Two small work areas are planned: one to the north on a small patch of open land (Farnham Road Bridge Worksite North) and one to the south on part of a car park (Farnham Road Bridge Worksite South). The worksites will be accessed from Farnham Road.

Significant Residual Impacts

5.19.5 Table 5.1 summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

5.19.6 Table 5.2 summarises the cumulative impacts assessment. There will be no cumulative impact.



5.20 Dover Road and Leigh Road Bridges (Route Window W20)

Baseline

5.20.1 The Dover Road and Leigh Road bridges provide access across the railway within Slough Trading Estate.

5.20.2 There are no community policies that directly affect this area.

Main Works

- 5.20.3 The Crossrail track will be electrified throughout the route window. This will require works to bridges. The parapets of Dover Road Bridge will be raised. Dover Road Bridge works will be constructed from three sites: the Dover Road Bridge Worksite North, Dover Road Bridge Worksite South East and the Dover Road Bridge Worksite South West all of which are located within the grounds of light industrial buildings. The works will be accessed from Ipswich Road and Deal Avenue.
- 5.20.4 The Leigh Road Bridge will be replaced with a new steel single 25m span bridge. The new bridge will accommodate a pavement and two traffic lanes. The Leigh Road Bridge works will take place from three construction sites: the Leigh Road Bridge Worksite North located on railway scrub, the Leigh Road Bridge Worksite South East located to the south of the tracks on a carparking area; and the Leigh Road Bridge Worksite South West within the grounds of a light industrial building. Access to Leigh Road Bridge will be from Bedford Avenue to the north of the tracks and Argyll Avenue and Leigh Road to the south.

Significant Residual Impacts

5.20.5 Table 5.1 summarises the assessment process for this route section.

5.20.6 Leigh Road Bridge will be closed for approximately five months. This will have a significant negative impact on pedestrian access.

Cumulative Impacts

5.20.7 Table 5.2 summarises the cumulative impact assessment. There will be no cumulative impact.



5.21 Burnham Station (Route Window W21)

Baseline

- 5.21.1 Burnham Station is located in the district centre of Burham. The area to the north of the railway is mainly residential. Residential uses are mixed with commercial and light industrial sites (including Slough Trading Estate) to the south and east. Open space is provided by open land to the north and a recreation ground to the south of the tracks. The local centre of Cippenham lies to the south with shops along Elmshott Road. Community resources include: Haymill Community Centre, Haymill Youth Centre, Haymill After School Club a doctors surgery on Burnham Lane, and Dragons Health Club within the Slough Trading Estate.
- 5.21.2 The retail facilities to the south of the station are designated 'primary and secondary shopping frontages' by the Slough Local Plan (Adopted March 2004). The open space is designated 'Public Open Space' by the Local Plan.

Main Works

5.21.3 Crossrail lines will be electrified through this route window. The island platform at Burnham Station will be extended westwards by about 26m to accommodate Crossrail trains. The works will be constructed from Burnham Lane Worksite (accessed from Burnham Lane) and Sandringham Court Worksite North (accessed from Sandringham Court).

Significant Residual Impacts

5.21.4 Table 5.1 summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

5.21.5 Table 5.2 summarises the cumulative impact assessment. There will be no cumulative impact.



5.22 Lent Rise (Route Window W22)

Baseline

5.22.1 This route window includes the western part of Slough, which comprises mainly residential uses.

5.22.2 There are no community policies that are directly relevant to works in this area.

Main Works

5.22.3 Crossrail lines will be electrified through this route window.

Significant Residual Impacts

5.22.4 Table 5.1 summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

5.22.5 Table 5.2 summarises the cumulative impact assessment. There will be no cumulative impact.



5.23 Taplow Station (Route Window W23)

Baseline

5.23.1 The railway runs across the Thames floodplain on embankment arriving at Taplow Station at ground level. The surrounding area is mainly countryside and urban fringe residential uses. Taplow Station lies on the edge of Burnham Town within the Green Belt. Taplow village is 1km to north-west. The Bishops Centre, a busy local shopping centre is to the east. Taplow Lake and open space is located to the south; and playing fields, two sports grounds and allotments are to the north. There are a number of community facilities to north which include: two community halls on Instate Road, Phoenix and Claire's Court Sports Ground, Taplow and Hitcham recreation ground and Taplow and Hitcham Women's Institute. The Penstone veterinary clinic lies to the south.

5.23.2 The South Buckinghamshire local Plan (Adopted March 1999) designates the green space as 'Green Belt'.

Main Works

- 5.23.3 The Crossrail track will be electrified. This will require works to bridges. The station footbridge will be modified to accommodate overhead wires. Taplow station platforms will be extended west by approximately 26m to accommodate Crossrail trains.
- 5.23.4 The works will be constructed from two sites: Taplow Station Approach Road North (accessed from Approach Road) and Taplow Station Footbridge Worksite South (accessed from Bath Road) both are within carparks.

Significant Residual Impacts

5.23.5 Table 5.1 summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

5.23.6 Table 5.2 outlines the cumulative impact assessment. There will be no cumulative impact.



5.24 Maidenhead Railway Bridge (Route Window W24)

Baseline

5.24.1 This section of the route runs across the Thames floodplain on embankment with Brunel's bridge carrying the railway over the river. The embankment is densely vegetated. The area to the west of the river is built-up with mixed residential and business uses. To the east of the river the area between the railway and Bath Road, and to the south of the railway is predominantly open and rural.

5.24.2 There are no community policies that are directly relevant to works in this area.

Main Works

5.24.3 Crossrail lines will be electrified through this route window. This will be carried out using portal frames, although masts with cantilevers will be used over Maidenhead Bridge. Some utility diversions will be required to enable the installation of the OHLE on the bridge.

Significant Residual Impacts

5.24.4 Table 5.1 summarises the impact assessment. There will be no significant residual impacts.

Cumulative Impacts

5.24.5 Table 5.2 summarises the cumulative impact assessment. There will be no cumulative impact.



5.25 Maidenhead Station (Route Window W25)

Baseline

- 5.25.1 Maidenhead town centre lies to the north of the station. The centre comprises extensive retail and office based uses. Grenfell Park residential area lies to the north west. There are large areas of open space to the south including: golf courses, playing fields, allotments and open space. There are a number of community resources in the north which include the David Lloyd Health and Fitness Club, Desborough Bowling Club, Maidenhead Dental Centre, and Maidenhead United Football Club. Desborough School and Maidenhead Golf Club lie to the south.
- 5.25.2 The Royal Borough of Windsor and Maidenhead Adopted Local Plan July 1999 designates the retail areas as 'Shopping Area and Secondary Shopping Core'. It proposes a number of local cycle routes around and through the town and designates the open space to the south as 'Green Belt'.

Main Works

- 5.25.3 A new 70 m long bay platform (platform six) will be constructed on the north side of the station and a new track will be provided to accommodate Marlow branch line trains. Island platform two/three will be extended westwards by 10m to accommodate Crossrail trains.
- 5.25.4 The existing ticket hall will be demolished and replaced by a larger facility that will extend into the station forecourt area. The eastern subway will be extended southwards to platform one, and new stair and lift access will be provided to all Crossrail platforms; passive provision will be made for a lift to platform one.
- 5.25.5 The western subway (which currently provides access to the platforms) will be changed to a subway linking the north side of the station with a new entrance on the south side.
- 5.25.6 Stabling facilities will be constructed about 350 m west of Maidenhead Station on a site currently occupied by a car park and an industrial unit. They will comprise six 250 m long sidings with low height lighting. New staff accommodation buildings with associated car parking will be located at the west end of the site.
- 5.25.7 The works will be constructed from six worksites. The Northern Station Car Park Worksite will be located to the east within the station forecourt and accessed from Braywick Road. The Shoppenhanger's Road Worksite and Southern Station Car Park Worksite will be located to the south of the tracks and will be accessed from Shoppenhanger's Road. The Maidenhead Sidings Worksite will be located on the sidings to the west of the station and the Northern Platform Worksite will be located to the north of the stations both will be accessed from Grenfell Road. The Maidenhead Yard Sewer Diversion Worksites will be located to the north and south of the track, west of the Station.

Significant Residual Impacts

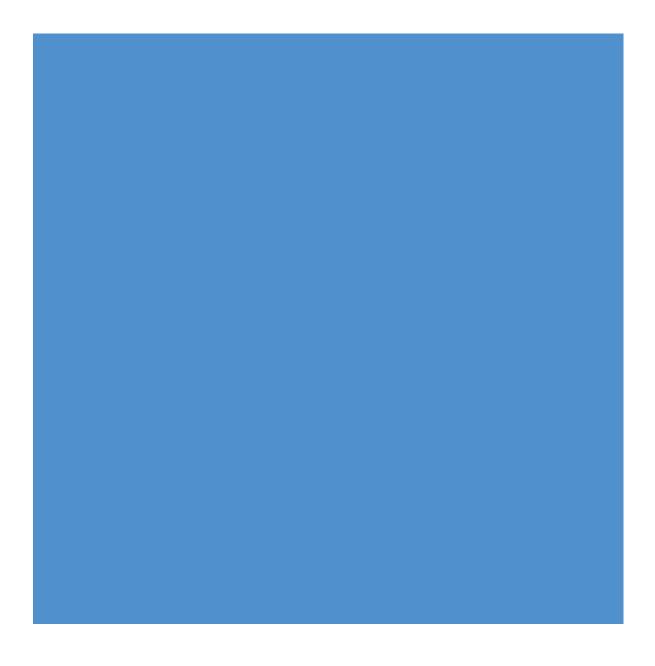
5.25.8 Table 5.1 summarises the assessment process for this route section. There will be no significant residual impact.

Cumulative Impacts

5.25.9 Table 5.2 summarises the cumulative impact assessment. There will be no cumulative impacts.



Baseline and Environmental Impacts: Westbourne Park to Pudding mill Lane





Baseline and Environmental Impacts: Westbourne Park to Pudding Mill Lane

6.1 Introduction

- 6.1.1 The central area works comprise a new tunnel across London that will connect existing railways to the west and east. The route will comprise two ("twin bore") tunnels that will accommodate west and east bound Crossrail trains. At a point beneath Stepney Green, the new alignment will branch: one route will continue north-east towards Stratford, the other will head south-east towards the Isle of Dogs.
- 6.1.2 Crossrail stations will be provided at Paddington, Bond Street, Tottenham Court Road, Farringdon, Liverpool Street and Whitechapel. Each station will have two entrances and ticket halls to provide access to the east and west ends respectively. A further station will be provided on the southeast branch, at Canary Wharf.
- 6.1.3 The tunnel portals will be located at Royal Oak (Paddington) in the west and Pudding Mill Lane (Stratford) in the east, with the south-eastern branch continuing in tunnel beyond the Isle of Dogs. The tunnels will require access and/or ventilation shafts. The twin bore tunnels will be excavated using tunnel boring machines with excavated material removed at the west and east portals. Excavated material will also be removed via a temporary tunnel linking Hanbury Street shaft to a temporary shaft on Pedley Street. It will then be taken by conveyor to a holding site in Mile End Park waiting for removal by rail.

6.2 Royal Oak Portal (Route Window C1)

Baseline

- 6.2.1 The Royal Oak route section is dominated by the elevated A40 Westway, the Grand Union Canal, and the Mainline and London Underground tracks into Paddington Station. There are various commercial land uses to the north of the railway which include: a concrete batching plant, taxi garage and Westbourne Park Bus Garage. The rest of the area is residential with large areas of social housing including high and medium-rise blocks to the north and more traditional rows of terraces to the south.
- 6.2.2 Neighbourhood shopping facilities are provided on the Harrow Road to the north and Westbourne Park Road to the south. There are a number of community facilities to the south of the railway which include: St Mary the Angel Roman Catholic Primary School, the Brunel Family Centre, St Stephens Church of England Primary School, the West London Buddhist Centre, St Stephen's Church, Westbourne Park Baptist Church, Westbourne Park Family Centre, Paddington Children's Library, Harrow Road Health Centre and Warwick Community Centre.
- 6.2.3 Facilities to the north are also quite varied and include: Parkview Lodge pre School, Our Lady of Dolous School, Our Lady of Sorrows Church, Warwick Nursery, Paddington Community Mental Health Service, St Mungo's Association, post offices (on Harrow Road and Sutherland Avenue), doctors surgeries, Paddington Arts Centre, Edward Wilson Primary School and a police station. There are also several leisure facilities including: Meanwhile Gardens play area, Westbourne Green Park and Westbourne Green sports complex. Facilities also include the Stowe Boys Youth Club at 258 Harrow Road. This has recently been granted planning permission for demolition and replacement by a new building to accommodate an improved youth club and health centre.



- 6.2.4 The Royal Oak worksite is within the North West Westminster Special Policy Area (emerging UDP). The Special Policy Area aims to promote the regeneration of the area, develop business, improve the environment, strengthen shopping frontages, provide a mix of housing tenure and improve the pedestrian environment. It also highlights the need for a range of related community facilities to support this growth.
- 6.2.5 Westminster City Council, in conjunction with the Westminster City Partnership (key public and private sector partners) published a community strategy titled the Westminster City Plan in 2002. The plan aims to improve access to education, the safety of the local population, people's health, the quality of the local environment and improvements to transport infrastructure.
- 6.2.6 Westminster City Council's Neighbourhood Renewal Strategy (NRS) builds on this framework and aims to tackle deprivation targeting vulnerable groups and individuals including many local people living in and around Paddington. Groups that assist include the Paddington Development Trust, Paddington Regeneration Partnership, Paddington First, and investment through the Paddington Social and Community Fund.

Main Works

- 6.2.7 The Crossrail route runs along the surface railway within the existing rail corridor through the western part of the route window. The route then passes into tunnel at Royal Oak. The permanent works will comprise:
 - taxi servicing facilities buildings (below Westway);
 - a train reversing facility at Westbourne Park and track alternatives to the Great Western Main Line;
 - an approach ramp, a portal at Royal Oak, a cut and cover tunnel, and twin bore tunnel commencing at Westbourne Park; and
 - a Westbourne Bridge shaft containing intervention and ventilation facilities.
- 6.2.8 The works at Royal Oak will be constructed from four sites. The Royal Oak Worksite West will be located adjacent to the Westbourne Park Bus Garage (with access from Alfred Road and Great Western Road). Royal Oak Worksite East will be located north of the track under the Westway. The Platform 1A Worksite will be located to the south of the tracks (accessed from Gloucester Terrace) and north of the tracks will be the Paddington Central Worksite used for delivery and storage (although it appears in C2).
- 6.2.9 The majority of these works are on railway land, however, they will require the demolition of:
 - ß buildings associated with, and including, the Great Western Studios (formerly the parcels office and Network Rail lost property):
 - ß buildings located in Murphy's Yard;
 - ß bus washing facilities; and
 - ß temporary closure of the Tarmac Topmix concrete ready-mix plant.
 - Significant Residual Impacts
- 6.2.10 Table 6.1 summarises the assessment process for this route section. There will be no significant impacts in this route section.

Cumulative Impacts

6.2.11 Table 6.2 summarises the assessment process for this route section. There will be no cumulative impact in this route section.



6.3 Paddington Station (Route Window C2)

Baseline

- 6.3.1 The Paddington area is dominated by the railway, which provides services into Paddington Station, one of London's main rail termini. The surrounding uses reflect this travel function with the Hilton International Hotel, a YWCA and YMCA, numerous shops and services located within the station, and several smaller hotels in the surrounding streets. Praed Street provides the main local shopping facilities catering for the densely populated surrounding residential area and the staff of St Mary's Hospital and medical school. There are several day care nurseries, doctor's surgeries and a number of churches and religious institutions. Leisure facilities include the Imperial College Recreation Centre and several small open spaces.
- 6.3.2 Paddington is identified as an Opportunity Area by the London Plan with proposals for the renewal of St Mary's Hospital and relocation of the Royal Brompton Hospital and Harefield Hospital which will support the creation of the largest health campus in London.
- 6.3.3 The Westminster Unitary Development Plan (notice of intention to adopted in 2004) designates Paddington as a 'Special Policy Area'. The Special Policy Area is targeted for high-density good quality business and housing which will develop and strengthen the local community and range of facilities available.
- 6.3.4 The UDP identifies Praed Street as a district centre, which traditionally provides convenience goods and services for local communities. The UDP notes that the environment is poor and it forms part of the Circle of Initiative for planned management improvements. It also identifies local shopping and services at Craven Place/Craven Terrace.

Main Works

- 6.3.5 The twin-bore tunnels will pass beneath the surface railway lines that run into Paddington station. The route will then follow the alignment of Eastbourne Terrace before continuing under Spring Street and Sussex Square in twin-bore tunnels, with rails at a depth of between approximately 20 and 30 m below street level.
- 6.3.6 The new Crossrail station will be constructed under Eastbourne Terrace. It will provide an interchange with London Underground and National Rail services. Above-ground, the station will consist of a narrow glazed structure, between 6 m and 8 m high, referred to as the 'light spine'. This will run the length of the station and separate the existing Departures Road (for taxi access) and Eastbourne Terrace. Street level access will be provided from Eastbourne Terrace into the western ticket hall and access to the eastern ticket hall will be provided from the mainline concourse. Streetscape enhancement works will also be implemented.
- 6.3.7 Two ventilation structures will be constructed at the eastern and western ends of the box. These will include emergency intervention facilities.
- 6.3.8 The Paddington works will be constructed from four sites. The Redstar Parcel Deck Worksite will be located on the site of the former parcels deck to the north of the station (it will be accessed from Bishop's Bridge Road). The Eastbourne Terrace Worksite will require the use of Eastbourne Terrace and will be also accessed from Bishop's Bridge Road. The Circle Line Link Worksite will be located at the junction of Praed Street and Craven Road. The works will also use the Platform 1A Worksite identified in Route Window C1.

6.3.9 The works will require the following demolitions:

- retaining wall and railings between Eastbourne Terrace and Departures Road;
- canopy over Departures Road;
- 191 to 195 Praed Street;
- internal demolition works within MacMillan House; and
- GWML parcels office at 4 to 18 Bishopsbridge Road.

Significant Residual Impacts

6.3.10 Table 6.1 summarises the assessment process for this route section. There will be no significant direct community impacts.

Cumulative Impacts

- 6.3.11 Table 6.2 summarises the cumulative impact assessment. There will be a cumulative impact on the community during construction caused by:
 - visual impacts on residents and pedestrians around the work sites and occupants of the Hilton Hotel;
 - noise disruption to 20 residential properties, St Mary's Hospital and the Hilton Hotel; and
 - delays to train users, loss of car parking and disruption to users of Paddington Station.



6.4 Hyde Park and Park Lane Shafts (Route Window C3)

Baseline

- 6.4.1 Hyde Park covers most of the route window. It provides a substantial recreation space in the heart of London. The Park is used for informal sports, walking, picnicking and horse riding. Park Lane runs north-south at the eastern boundary of Hyde Park. Oxford Street, which provides both regional and international shopping facilities, is located to the north-east. These retail and recreation functions support London's role as an international centre
- 6.4.2 The community uses reflect this international function. They include the Royal Lancaster Hotel, Grosvenor Hotel, Victory Services Club and Mayfair Conference Centre. Local facilities include the shopping centre at Connaught Street, Ravenstone pre-Preparatory School, a NHS clinic, Albermarle College, Marylebone Police Station and Tyburn Convent (near the site of Tyburn Gallows). Local open space is provided by Sussex Gardens.
- 6.4.3 The emerging Westminster UDP designates Hyde Park as 'Metropolitan Open Land'. It also designates Oxford Street as 'Primary Shopping Frontage' (a role supported by the designation of an 'International Shopping Centre' by the London Plan). The emerging UDP identifies the shops at Connaught Street as 'Local Shopping Frontage' and target Sussex Gardens to the north as a 'Priority Area for Open Space'.

Main Works

6.4.4 The twin-bore tunnels will pass between Lancaster Gate in the west and Park Street in the east with the rails at an approximate depth of between 27 m and 34 m below street level. East of Lancaster Gate the alignment will run under Hyde Park roughly parallel with Bayswater Road, and then parallel to Oxford Street. Other permanent works will consist of a shaft in Hyde Park and another shaft at Park Lane.

Hyde Park Shaft

- 6.4.5 A ventilation and emergency intervention shaft will be constructed on the northern boundary of Hyde Park, in the vicinity of the Victoria and Clarendon Gates. A ventilation terminal will be constructed immediately west of Victoria Lodge. The structure will be approximately 15 m by 10 m in area by 12 m deep (protruding about 2 m above-ground level) and will contain service equipment. It will be concealed by a low wall.
- 6.4.6 A horizontal tunnel (the ventilation passage) of between 8 and 13 m width will run eastwards from the ventilation terminal to a vertical shaft, located under North Carriage Drive. An intervention passage will run from the shaft to an entrance hatchway adjacent to Bayswater Road. The vertical shaft to the twin-bore tunnels will be 13 m in internal diameter. The bottom of the shaft will be connected to the twin-bore tunnels by adits. Two permanent access points to mechanical and electrical equipment and the ventilation fans will be constructed north of the shaft, at the edge of the park boundary.
- 6.4.7 The Hyde Park Worksite will be located within the northern boundary of Hyde Park. It will include footpaths, part of North Carriage Drive (between Victoria Gate and Clarendon Gate), parkland open space, and part of the North Ride (used by horses). Heavy goods vehicles will access the site using North Carriage Drive (from Park Lane).



Park Lane Shaft

- 6.4.8 A second ventilation and emergency intervention shaft is required in the Park Lane area. It is required because the tunnelled distance between Bond Street station and the Hyde Park shaft will be around 1500m which does not meet safety requirements.
- 6.4.9 It will be constructed within the central reservation of Park Lane immediately south of Marble Arch and opposite Green Street. The terminal will be 7.5 m in diameter and 2 m height and will be constructed over the shaft, with equipment rooms provided in a concrete box below. The access stair to the surface will be provided. The Park Lane Worksite will occupy the entire landscaped central reservation site (with access direct from Park Lane).

Significant Residual Impacts

- 6.4.10 Table 6.1 (Chapter 10) summarises the assessment process for this route section.
- 6.4.11 The north ride will be diverted around the construction site. The noise caused by general construction activity and the movement of lorries will result in a significant temporary adverse residual impact on the users of the diverted North Ride and the users of the riding school training ring. Appendix 1 provides more details on Hyde Park Stables.



Picture 4: Hyde Park north ride and training ring

- 6.4.12 Construction vehicles are currently prohibited from using North Carriage Drive. The introduction of construction lorries during the works will lead to a significant impact on the users of this part of Hyde Park.
- 6.4.13 The temporary closure of Victoria Gate will require the horse riders to use Clarendon Gate. Clarendon Gate does not have a specific horse crossing and cars drive faster at location at this location on the Bayswater Road. It has been assumed that safe crossing for horses will be ensured.

Cumulative Impacts

6.4.14 Table 6.2 (Chapter 10) summarises the cumulative impact assessment. There will be no cumulative impact.



6.5 Bond Street Station (Route Window C4)

Baseline

- 6.5.1 Bond Street Station provides the main public transport access to the major retail areas of Oxford Street, Bond Street and South Molton Street. These streets form part of the London 'Central Activities Zone' which supports London's role as an international centre. The main uses are high-order serving international and national visitors. They include: department stores (e.g. Selfridges, John Lewis, the House of Fraser), hotels (Claridges), Wigmore Hall, the Handel House Museum and the Palladium Theatre. There are three London squares: Grosvenor Gardens (which fronts onto the American Embassy), Hanover Square and Cavendish Square. Residential areas comprise large and exclusive private apartments and houses. There are a number of supporting community uses which include: St Peter's Church, the Ukrainian Catholic Cathedral, the Greek Orthodox Church of the Annunciation of the Virgin Mary, Mayfair Medical Centre, the Porchester Public Library and West End Central Police Station. Educational buildings include the London College of Fashion, the London College of Music, two primary schools and one nursery school.
- 6.5.2 The London Plan identifies Oxford Street, Regent Street and Bond Street as part of an 'International Centre'. This is reflected by the emerging Westminster UDP which designates these streets as 'Primary Shopping Frontages'.

Main Works

- 6.5.3 The permanent works will consist of new twin-bore tunnels and a new station at Bond Street featuring two ticket halls. The tunnels will pass between Park Street in the west and Poland Street in the east, roughly parallel to Oxford Street with rails at an approximate depth of 26 m to 32 m below street level.
- 6.5.4 The new station will be located to the south of Oxford Street between Gilbert Street to the west, and Hanover Square to the east. Two new ticket halls will be constructed, in the west at 65 Davies Street and the east at 18/19 Hanover Square.
- 6.5.5 The station will include two platforms fitted out to a length of 210 m, although the station tunnels will be constructed to facilitate extensions to 245 m should the need to operate longer trains arise. Ventilation and emergency intervention facilities will be provided at each ticket hall location.

Western Ticket Hall

- 6.5.6 Access from the west will be from a street level ticket hall located at 65 Davies Street, in a block bounded by Davies Street, St. Anselm's Place, Gilbert Street and Weighhouse Street. Access to the platforms will be provided by two flights of escalators and an intermediate concourse. Ventilation and emergency intervention facilities will be included within a box located beneath the ticket hall. A sewer diversion will be carried out from the Davies Street Sewer Diversion Worksite.
- 6.5.7 The Davies Street Worksite will be located at 65 Davies Street with access from Weighhouse Street and egress via Davies Street. It will require the demolition of 65 Davies Street.

Eastern Ticket Hall

- 6.5.8 The eastern ticket hall will be located at street level at 18 and 19 Hanover Square, at the corner of Tenterden Street. Access to the platforms will be provided by a single flight of escalators. Ventilation and emergency intervention facilities will be adjacent to the ticket halls.
- 6.5.9 The Hanover Square worksite will require the demolition of 18-19 Hanover Square and 1a Tenterden Street. It will include the western part of the square and gardens. Access to the site will be from Brook Street and egress via Hanover Street to the south.



Temporary Significant Residual Impacts

6.5.10 Table 6.1 (Chapter 10) summarises the assessment process for this route section.

6.5.11 Construction traffic will lead to more than 100% increase in HGV traffic on Davies Street and Weighhouse Street. This will be a significant negative temporary impact.

Permanent Significant Residual Impacts

- 6.5.12 The western ticket hall will require the permanent acquisition of 65 Davies Street. This building houses the headquarters of the University of the Arts and teaching facilities for the London College of Fashion. It also contains a gallery which is open to the public, exhibiting works by local artists and students. The facility caters for a wide range of students, 25% of whom are from overseas (see Appendix 1 for further information). The loss conflicts with the UDP planning policy. The loss will be a significant negative permanent impact.
- 6.5.13 There are likely to be 31 dwellings around the Davies Street Worksite which may qualify for rehousing for a period of greater than three months. Residents may be absent from the community for a relatively long period, it is therefore assumed that there will be a significant permanent impact.



Picture 5: London College of Fashion, 65 Davies Street

Cumulative Impacts: Davies Street

6.5.14 Table 6.2 (Chapter 10) summarises the cumulative impact assessment.

6.5.15 There will be a cumulative impact on the local community at Davies Street during construction caused by

- increased HGV movements on Davies Street and Weighhouse Street;
- disruption to road users and bus users on Davies Street;
- noise disruption to one dwelling, the Ukrainian Catholic Cathedral and Regent Hall Church, users of the Hanover Square open space; and visual impacts on residents surrounding the worksite.

6.5.16 This also includes the potential rehousing of 31 dwellings for over 3 months and the demolition of 65 Davies Street, although permanent, these impacts will commence during the construction period.

Cumulative Impacts: Hanover Square

6.5.17 Users of Hanover Square and residents will also experience a cumulative impact resulting from a combination of noise and visual amenity impacts on users and residents of Hanover Square; and the loss of on-street parking spaces.



6.6 Tottenham Court Road Station (Route Window C5)

Baseline

- 6.6.1 The area along Oxford Street and Charing Cross Road is a major commercial and tourist destination, with numerous retail outlets. It houses a mixture of local, national and international facilities which include: international shopping along Oxford Street, the clubs, bars and restaurants of Soho, the theatres on Charing Cross Road, the Astoria night club and the British Museum. These uses play a vital role in the success of London as an international and national centre for leisure and entertainment. The residential community is small comprising mainly flats above retail uses, the YMCA, the YWCA and a number of hotels. It is served by the churches of St Patrick's and St Giles in the Fields, open space on Soho Square and Bedford Square, sports facilities at the University of London, the CentrePoint Snooker Club and numerous local shops.
- 6.6.2 Tottenham Court Road, Charing Cross Road, Oxford Street and New Oxford Street. It lies within 'Central Activities Zone' (as designated by the London Plan). The area is highlighted by the Plan as 'an area of mixed uses with strong arts, cultural or entertainment character'. It also targets Tottenham Court Road as an 'Area of Intensification' to accommodate growth with higher density development and good accessibility.
- 6.6.3 The open space at Soho Square is designated by the UDP as a priority area for additional playspace and targeted by the Westminster City Plan (the community strategy) for the creation of safe and secure places for children to play.
- 6.6.4 Route window C5 also includes the proposed Fisher Street vent shaft. This area is mainly commercial with many retail outlets on High Holborn and Kingsway. The main residential uses are the Chancery Court Hotel and Holborn Hotel. Educational uses include the St Martins College of Art and Design and several buildings linked to the University of London. Open space is provided by Bloomsbury Square Gardens and Red Lion Square Gardens

Main Works

- 6.6.5 The twin-bore tunnels will pass between Poland Street in the west and Jockey's Fields in the east with rails at a depth of approximately 24 m below street level. East of Poland Street the alignment will run under Soho, approximately parallel with Oxford Street, towards Charing Cross Road. The alignment will then move northeast and pass under New Oxford Street into Holborn.
- 6.6.6 The permanent works will include:
 - twin-bore tunnels:
 - a new station at Tottenham Court Road consisting of a new box at Goslett Yard and two new ticket halls;
 - ventilation and EIP facilities at Fareham Street and Goslett Yard;
 - a ventilation and EIP at Fisher Street: and
 - the closure of Andrew Borde Street and streetscape enhancement.



Tottenham Court Road Station

- 6.6.7 The station will be located between Great Chapel Street and Charing Cross Road, to the South of Oxford Street. Two new ticket halls will be constructed, one at Dean Street and the other beneath the plaza at the front of Centre Point. The station will consist of two platforms fitted out to 210 m, although the tunnel will be constructed to facilitate extensions to 245 m should the need to operate longer trains arise.
- 6.6.8 Western Ticket Hall: A new ticket hall will be constructed on a site bounded by Oxford Street to the north, Great Chapel Street to the west, Dean Street to the east and Diadem Court to the south. This site at 93-96 Dean Street and 3-9 Diadem Court is occupied predominantly by media and property companies. A bank of four escalators will provide access to the ticket hall from an entrance building on Oxford Street. Two further banks with three escalators each will provide access down to the Central line interchange level and Crossrail platforms.
- 6.6.9 Fareham Street Shaft: A shaft will be sunk to the immediate south of the western ticket hall. The shaft will be 19 m in diameter and will be used for ventilation and emergency intervention.
- 6.6.10 Plaza (Eastern) Ticket Hall: An extension to the existing basement level ticket hall will be constructed beneath the plaza at the front of Centre Point and beneath Charing Cross Road. The existing Hornes Corner entrance will be permanently closed. The Dominion Theatre entrance on Tottenham Court Road will be retained and three new entrances will be provided at:
 - the corner of Oxford Street and Charing Cross Road containing three escalators and a lift that will replace the existing station entrance;
 - the front of Centre Point and facing northwards containing a fixed stair and a lift; and
 - the front of Centre Point and pointing southwards containing two escalators and a fixed stair.
- 6.6.11 Two new shafts each containing three escalators will be provided down to the Northern line and Crossrail platforms. Andrew Borde Street will be permanently closed and landscaped and 148 Charing Cross Road will be demolished to allow for temporary diversion of Charing Cross Road.
- 6.6.12 Goslett Yard Shaft: A temporary shaft will be sunk, within a permanent box immediately to the south of the Astoria Theatre to facilitate construction work prior to its use as a ventilation and emergency intervention shaft.
- 6.6.13 The above works will be constructed from four worksites. The Astoria and Goslett Yard Worksites are both accessed from Charing Cross Road; and the Charing Cross Worksite is accessed from Charing Cross Road and Oxford Street. The Fareham Street Worksite will be accessed from Great Chapel Street. In addition to these main worksites there will be two lorry holding areas (Tottenham Court Road East and Newman Street (also a worksite); and a utilities worksite called Dean Street Sewer Diversion Worksite.
- 6.6.14 These worksites will require the demolition of Goslett Yard, the Astoria, the CentrePoint Snooker Club and a number of residential/retail/ office buildings on Dean Street, Great Chapel Street, Charing Cross Road, Fareham Street, Oxford Street, Sutton Row, Falconberg Court and Diadem Court.



Fisher Street Shaft

6.6.15 A ventilation and emergency intervention shaft will be located between Catton Street and Fisher Street.

6.6.16 The work site will be located at Fisher Street (with access from Southampton Row and egress onto Catton Street and Fisher Street). This will require the demolition of 2-6 Catton Street and 1-2 Fisher Street as well as 8-10 Southampton Row although the façade will be retained as a frontage for a future over-site development. There will also be a lorry holding area at Fisher Street.

Significant Temporary Residual Impacts: Tottenham Court road

6.6.17 Table 6.1 (Chapter 10) summarises the assessment process for this route section.

6.6.18 During construction there will be a significant adverse impact on pedestrian circulation and amenity in the St Giles Circus area (reported in the traffic impact assessment).

Significant Permanent Residual Impacts: Tottenham Court road

6.6.19 There will be a number of permanent significant impacts. The works will lead to the loss of the Astoria, the Mean Fiddler and Rouge nightclubs (Appendix 1 provides more detail on these facilities). The Astoria is one of the largest club and concerts venues in the UK. There are no comparable venues in the area. The loss of this, the Rouge and the Mean Fiddler from the same area is considered a significant permanent impact.

6.6.20 The loss of the Centre Point Snooker Club is also considered significant as there are no similar facilities in the area.



Picture 6: The Astoria

6.6.21 The works also require a number of residential demolitions at Diadem Court and the Bath House (Dean Street). Together the loss totals 10 dwellings. This is considered a significant negative permanent residual impact.

6.6.22 Noise disruption will significantly affect the West End Hostel for the homeless at Diadem Court for 11 months. This may render the hostel inoperable. This will be a significant negative permanent impact.

6.6.23 There will be a permanent beneficial impact on pedestrian circulation and amenity in the area with, amongst other measures, the pedestrianisation of Andrew Borde Street.

Cumulative Impacts: Tottenham Court Road

6.6.24 Table 6.2 (Chapter 10) summarises the cumulative impact assessment.

6.6.25 There will be a cumulative impact on the local community during construction. This will be caused by the combination of the impacts on pedestrian flows and amenity at St Giles Circus (outlined above) and:

- disruption to bus and underground users and road closures at Sutton Row, Fareham Street and Falconberg Court;
- disruption to pedestrians around St Giles Circus;
- noise disruption at St Patrick's Church, a medical centre and a residential unit;
- visual impacts on residents surrounding the worksites, visitors to the Dominion Theatre and CentrePoint, users of Soho Square; and
- visual impacts on pedestrians along Oxford Street, Great Chapel Street, Dean Street, Diadem Court and in the vicinity of the Eastern Ticket Hall worksite

6.6.26 This will also include the potential loss of the use of the West End Hostel, the loss of three nightclubs, the snooker club and 19 dwellings outlined as permanent impacts above. Although the loss of these uses are permanent, the effects will commence at the beginning of the construction period.

Significant Temporary Residual Impacts: Fisher Street

6.6.27 Construction works will generate over 100% increase in HGV traffic on Fisher Street and Catton Street. These streets currently have low traffic flows, additional lorry traffic will cause a significant impact on the local community.

Significant Permanent Residual Impacts: Fisher Street

6.6.28 The permanent loss of 9 dwellings at 8-10 Southampton Row and the Student Union and teaching Rooms of the Central St Martins College of Art and Design in Catton Street are both considered significant permanent negative impacts. Appendix 1 provides more information on Central St Martins College.

Cumulative Impacts: Fisher Street

6.6.29 There will be a cumulative impact during construction caused by:



Picture 7: Central St Martins College of art and design, 2-6 Catton Street

- the increase in HGV flows down Fisher Street and Catton Street;
- noise impacts on students and teachers at the nearby
 University of Westminster and Central St Martins College buildings; and
- visual impacts on pedestrians along Catton Street and Procter Street and students and teachers at the University of Westminster and Central St Martins College.

6.6.30 This will include the loss of the 9 dwellings on Southampton Row and the Central St Martins College's building at 2-6 Catton Street. They are considered as part of the cumulative construction assessment because although the loss of these uses is permanent, the effects will commence at the beginning of the construction period.



6.7 Farringdon Station (Route Window C6)

Baseline

- 6.7.1 Farringdon Station is located on Cowcross Street within a mix of offices, restaurants, retail outlets and Smithfield wholesale market. The street forms an important pedestrian route with the station and between surrounding shops and offices.
- 6.7.2 The area has a special character and appearance, which stems from its mix of uses, architecture and history. This character is derived from incremental and sustained development over nine centuries from Norman times to the present day. This has produced a unique layout of narrow streets.
- 6.7.3 There are large established social housing estates to the west of Hatton Garden, the Peabody Estate to the north, and several modern residential developments on Turnmill Street and Farringdon Road. These are supported by dental and doctors' surgeries and a school. The area has seen the development and growth of the Hatton Garden jewellery trade (with associated workshops). The jewellery trade is focused on Hatton Garden with shops and workshops on most of the surrounding streets. The traders are supported by shops and cafés along Grenville Street, St Cross Street, Cowcross Street and Farringdon Road. Smithfield Market is located on Charterhouse Street to the south. It is one of London's oldest markets, where meat has been bought and sold for over 800 years. St Bartholomew's Hospital and Medical College are located to the north and south of the market.
- 6.7.4 Over the last ten years many jewellery workshops and former industrial buildings have been converted to residential properties and offices. These have attracted a range of health clubs, bars and several nightclubs on Turnmill Street, Cowcross St, St Johns St and Charterhouse Street. Farringdon Station (main line trains and underground) is the main local transport link. These facilities also serve the Barbican residential and cultural complex to the north.
- 6.7.5 The main works are located in the London Borough of Islington and some of the works fall within the City of London to the south. The Islington UDP was adopted in June 2002. It designates a Clerkenwell and Smithfield Special Policy Area (SPA) based on the history, range and mix of uses. The SPA aims to protect the special character of the Clerkenwell and Smithfield area. The Council wishes to prevent excessive growth of new residential units and not to marginalise the existing commercial activities or impose environmental requirements that force them to leave. It also strives to ensure that the specialist workshop uses, which are essential to the character of Clerkenwell as a cultural quarter, are not forced out by high land prices.
- 6.7.6 The UDP designates the station as an 'Area of Opportunity' where the council wishes to see investment during the plan period, under the direction of a planning brief. The plan designates shops on Farringdon Road as a 'Protected Local Shopping Area'.
- 6.7.7 The City of London UDP was adopted in April 2002. It designates Smithfield Market as an Economic Activity Zone. It identifies strategic cycle routes across the Farringdon area.
- 6.7.8 The Neighbourhood Renewal Strategy and Community Strategy processes have been combined in Islington to create one strategy implemented through an action plan. The first Islington Community and Neighbourhood Renewal Strategy Action Plan was finalised in March 2003.



6.7.9 It is based on the Islington Community and Neighbourhood Renewal Strategy developed by Islington Strategic Partnership, after extensive consultation with local organisations and residents. The Action Plan promotes neighbourhood renewal across the poorest communities addressing: crime and safety, education and lifelong learning, health and well-being, housing, business, jobs and training, environment and sustainability. It also promotes active citizenship and community empowerment, and sustainable development. Responsibility for implementation is with the Islington Strategic Partnerships Board (ISPB).

Main Works

6.7.10 The tunnels will pass from Holborn, beneath the Fleet Valley and Smithfield, and then to Aldersgate and the Barbican, with the rails at a depth of about 31m. The permanent works will consist of a twin-bore tunnel, and a new station at Farringdon with western and eastern ticket halls and integrated ventilation and emergency access. A new rail crossover will also be constructed between Farringdon and Liverpool Street Stations, beneath the Barbican.

Farringdon Station

- 6.7.11 The station will serve the western edge of the City, providing an interchange with London Underground and Thameslink. The station will be located between Farringdon Road and Lindsey Street. Two new ticket halls will be constructed in the west at Farringdon Road and the east at Lindsey Street (Barbican). The station will consist of two platforms fitted out to 210 m although the tunnel will be constructed to facilitate extensions to 245 m should the need to operate longer trains arise. Interchange with London Underground will be provided from Lindsey Street ticket hall. Cowcross Street will be pedestrianised between the London Underground station at Farringdon and the Crossrail western ticket hall.
- 6.7.12 Farringdon Road Ticket Hall: will be at street level and will be built to approximately the same height as the existing London Underground ticket hall (approximately 8 m high) on the site of Cardinal House. A bank of three escalators will descend from the ticket hall to platform level. The escalators will be housed in a deep box that will also include ventilation and emergency intervention equipment. To the southwest of the structure, a construction shaft will be built and then back filled upon completion of the station works.
- 6.7.13 Lindsey Street Ticket Hall: will be located at street level in a block bounded by Charterhouse Street, Hayne Street, Long Lane and Lindsey Street. A bank of three escalators will descend to an intermediate concourse from which stairs to Barbican Underground station will be provided. A further bank of three escalators will descend to a further concourse beneath the London Underground and Thameslink tunnels before a third bank connects with the Crossrail platforms. A separate shaft will be constructed on this site that will contain ventilation and emergency intervention access. Emergency escape from the Crossrail platforms will be provided in a new shaft in 38-42 Charterhouse Street (this is also known as Fox and Knot Street).
- 6.7.14 The works will be carried out from four sites. The Cardinal House Worksite uses the railway land running parallel to Farringdon Road (it will be accessed from Farringdon Road and West Smithfield). The Smithfield Market Basement Worksite which uses the market basement will be accessed from the ramp in West Smithfield. The Lindsey Street Worksite (which will be accessed from Cowcross Street with egress onto West Smithfield) occupies Lindsey Street. The Fox and Knot Street Worksite will occupy the area bounded by Charterhouse Square, Charterhouse Street and Fox and Know Street.



- 6.7.15 There will also be a lorry holding area on Snow Hill (south of Farringdon Station), a Farringdon Crossover Worksite and an Aldersgate Street Sewer Diversion Worksite.
- 6.7.16 The works will require the following demolitions:
 - Cardinal House on the corner of Cowcross Street and Farringdon Road;
 - 54, 56 and 58-64 Charterhouse Street, 3, 8 to 9 and 10 Hayne Street, 2a, 3, 4 and 5 Lindsey Street (including Smithfield House), 20 to 23 Long Lane;
 - 33-35 and 36-37 Charterhouse Square;
 - 38-42 Charterhouse Street; and
 - Charterhouse Square and Hayne Street bridges spanning Circle and Metropolitan Lines.

Temporary Significant Residual Impacts

6.7.17 Table 6.1 (Chapter 10) summarises the assessment process for this route section. There will be no temporary significant residual impacts.

Permanent Significant Residual Impacts

- 6.7.18 The demolition of the Lindsey Street Hotel will be a permanent significant negative residual impact as there are no other low cost hotels within the area.
- 6.7.19 The pedestrianisation of Cowcross Street will be a beneficial significant impact on the amenity and circulation of the pedestrians. (Appendix 2 - Picture 9).

Cumulative Impacts

- 6.7.20 Table 6.2 (Chapter 10) summarises the cumulative impact assessment. There will be a cumulative impact on the local community surrounding the Eastern Ticket Hall caused by:
 - noise impacts on local residents, pupils and teachers at Charterhouse School and patients and doctors at a surgery on Long Lane;
 - loss of car parking and traffic impacts on pedestrians; and
 - visual impacts on local residents, users of Charterhouse Gardens, occupants of Charterhouse College and the City University Medical College and pedestrians on streets around the worksites



6.7.21 This will also include the loss of the Lindsey Street Hotel. Although this is a permanent impact the effect will commence at the beginning of construction.

Picture 8: Lindsey Street Hotel



6.8 Liverpool Street Station (Route Window C7)

Baseline

- 6.8.1 The area surrounding Liverpool Street Station and Blomfield Shaft mainly comprises office and office services which provide for the 210,000 people employed within the catchment of the station. Although this does not constitute a residential based community the Corporation of London make it very clear in the City of London UDP that social, retail and transport services are vital to support this population. Finsbury Circus and the area around Liverpool Street Station provide the mix and range of shops and services to serve the office-based population.
- 6.8.2 Due to the commercial nature of the area there are relatively few community facilities, they include the University and several health centres. The bowling green and local open space at Finsbury Circus provide the main recreation space.
- 6.8.3 Bishopsgate and Shoreditch to the east of the station fall within the Borough of Tower Hamlets. They are designated an 'Opportunity Area' by the London Plan. The Plan states that the Mayor will work with partners to draw up planning frameworks to inform UDP reviews and broader regeneration and community strategies.
- 6.8.4 The City of London UDP designates Finsbury Circus, Liverpool Street Station (mainly south of the station at The Arcade, Old Broad St and Blomfield St) and the Moorgate/London Wall as 'Principal Shopping Centres'. The UDP aims to reduce traffic and create better facilities for pedestrians to support this. It also provides 'Strategic Cycle Routes' that link a network of cycle ways around the City.
- 6.8.5 At Moorgate the UDP supports that redevelopment opportunities will improve the streetscape through good urban design and that traffic management policies will help create better conditions for shoppers including more space for seating and pedestrians. Open spaces are recognised as limited and are therefore important resources in the area. Policy Rec4 states 'resist the loss and encourage the provision of recreation and sports facilities.

Main Works

- 6.8.6 The twin-bore tunnels will pass between Moorgate in the west and Commercial Street in the east. East of the Barbican the alignment will run approximately parallel with, and north of, the London Wall, before swinging northwards beyond Liverpool Street Station. The permanent works will consist of twin-bore tunnels, a new station at Liverpool Street with a new ticket hall at Moorgate, and a separate shaft structure on Blomfield Street.
- 6.8.7 A new station will be constructed to serve the City and provide interchange with Underground and national rail services at Liverpool Street and Moorgate Stations. The station will be located between Liverpool Street and Moorgate with a new ticket hall. The existing London Underground ticket hall will be modified to provide access to the east end of the Crossrail platforms. Crossrail passengers will use two banks of three escalators to reach the existing Central, Metropolitan & Circle line ticket hall adjacent to the mainline concourse.
- 6.8.8 The new basement level ticket hall (approximately 8 m deep) will be provided next to the existing London Underground station with two street-level entrances, one between Moorfields and Moorgate and one from a pedestrian area off Moorfields, opposite the Moorhouse development. A bank of two escalators will descend from street level to the ticket hall where a bank of a further three will connect with the Crossrail platforms. There will be an interchange passage between the Crossrail platforms and the London Underground Northern line platforms. There will be access to London Underground Metropolitan line platforms. Ventilation and emergency intervention facilities will be incorporated into the new ticket hall box.



- 6.8.9 A new 37 m deep box will be sunk at 10-11 Blomfield Street to provide ventilation, escape and EIP facilities to the Crossrail station tunnels. This will include a 28 m high ventilation stack.
- 6.8.10 The scheme will be constructed from four worksites. The Moorgate Worksite will be located at Moorgate Station (accessed from Moorgate). The Finsbury Circus Worksite will be located on Finsbury Circus open space and bowling club area. The Liverpool Street Worksite and Blomfield Street Worksites will both be accessed from Blomfield Street. There will also be two lorry holding areas, one on Finsbury Circus and at London Wall.

6.8.11 The works require the demolition of:

- Moorgate Box: 91-109 Moorgate;
- Blomfield Street Shaft; 11-12 Blomfield Street; and
- Finsbury Circus Worksite: bowling green, pavilion and gardens.

Temporary Significant Residual Impacts

- 6.8.12 Table 6.1 (Chapter 10) summarises the assessment process for this route section.
- 6.8.13 The temporary loss (over five year period) of the open space at Finsbury Circus will be a significant negative residual impact. The open space is used all year round by office workers and local residents. It is the largest open space in the City and provides a bandstand with outdoor concerts. The loss of both the recreation and open space functions is in direct conflict with local planning policy and will be a significant negative impact.
- 6.8.14 The open space includes a bowling green used by the City of London Bowling Club (Appendix 1 provides more details on the Bowling Club). The construction will require the temporary use of the Green. It has been assumed that the Green will be re-instated at the end of the construction period, however the temporary loss of this facility is considered a significant negative impact. It may be possible to mitigate this loss by using the nearby green at Finsbury Square as an alternative. This is subject to an agreement between the Corporation of London and the London Borough of Islington.
- 6.8.15 Construction traffic will generate over 100% increase in HGV traffic on Circus Place. This will be a significant negative temporary impact.



Picture 9: Finsbury Circus



Permanent Significant Residual Impacts

6.8.16 Table 6.1 (Chapter 10) summarises the assessment process for this route section. There will be no permanent significant impacts.

Cumulative Impacts

- 6.8.17 Table 6.2 (Chapter 10) summarises the cumulative impact assessment. There will be a cumulative impact on the community around Moorgate and Finsbury Circus during the construction period.
- 6.8.18 This will be caused by the combination of the direct temporary impacts outlined above and:
 - noise disruption on one residential property, the London Metropolitan University, a dental practice and medical clinic:
 - adverse impacts on the visual amenity of pedestrians in the area, students at the University and occupants of the Great Eastern Hotel; and
 - disruptions for bus users.



6.9 Whitechapel Station (Route Window C8)

Baseline

- 6.9.1 Whitechapel Station is located on Whitechapel Road, east London. The Whitechapel area is a vibrant multicultural mix with a street market and the wide range of Bangladeshi restaurants and shops on Brick Lane. The main shopping facilities are provided along Whitechapel Road and Brick Lane. There are a number of community uses near Whitechapel Station including the Whitechapel Sports Centre, several dental surgeries, the Eastenders Snooker Club, the Albion Health Centre and a young people's centre. There are also many residential streets and the Royal London Hospital to the south.
- 6.9.2 Hanbury Street forms part of a residential area to the east of Brick Lane (which accommodates one of the largest Bangladeshi communities in London). The community uses reflect the ethnic diversity of this neighbourhood with facilities such as the Kobi Nazul Centre, the Hanbury Community Project and Spitalfield Society, the HEBA Women's Project, the London Jamme Masjid Mosque, the Bangladesh Welfare Association, Christ Church with gardens and community centre and primary school, Bongobir Osman Centre, the Bradbury Centre and St Anne's R.C. Church.
- 6.9.3 The Network Rail tracks runs east-west to the north of Pedley Street. To the west of Pedley Street is the extensive Bishopsgate redevelopment area. Community facilities in this area include: Spitalfields City Farm, Hague Primary School, The Good Shepherd Mission, Weavers Community Space, St Matthews Social Club and Repton Boys Club.
- 6.9.4 The London Plan identifies East London as a priority area for development, regeneration and infrastructure improvements. Whitechapel/Aldgate are designated as an 'Opportunity Area' where the Mayor will work with partners to draw up planning frameworks to inform UDP reviews and broader regeneration and community strategies. The Plan strives to find a balance between the developing business community and sustaining and strengthening exsting communities.
- 6.9.5 The Plan also identifies Whitechapel as a district centre, which provides convenience goods and services for the local community, it proposes to develop the capacity of this centre.
- 6.9.6 The Tower Hamlets UDP was adopted in December 1998. A revised draft was put on deposit in May 2004. The policies below have been taken from the deposit draft, which provides the most up to date information on the local community. The vent shaft and the station works are within the City Fringe Action Area. This includes Aldgate, Bishopsgate and Whitechapel and is described by the UDP as 'one of the most dynamic and vibrant London precincts with its rich blend of old and new buildings and existing communities'.
- 6.9.7 The Action Area seeks to balance the pressure for large-scale redevelopment with the need to maintain the economic and social vitality of the area.
- 6.9.8 The UDP identifies 'Development Nodes' as the focus for intensive redevelopment whilst ensuring impacts on the surrounding community are minimised. It also identifies 'Activity Nodes' where activities will be sustained, promoted and any new development should enhance, promote and complement the identified activities. Two such nodes in Brick Lane and Spitalfields (with the unique retail, restaurant and residential character) are near the works and Whitechapel, which is developing as a creative industry area, is also identified. The Plan also mentions community areas where creation of new housing and social facilities are priorities; one such area is almost opposite Whitechapel Station on Whitechapel Road. Whitechapel is identified as a 'District Centre' in the Plan with key shopping facilities along Whitechapel Road outside the station.



- 6.9.9 Brick Lane is identified as a 'Restaurant Zone' and 'Local Shopping Parade' and classified as a 'Neighbourhood Centre'. There are also neighbourhood centres at Wentworth Street and O'Leary Square. The Royal London Hospital opposite the station is identified as a social facility.
- 6.9.10 The first community plan for Tower Hamlets was launched in May 2001 setting out a vision for the future of Tower Hamlets to 2010. The current plan reports on progress in Year 3 identifying what was achieved in 2003-2004. Tower Hamlets also has a Young People's Community Plan. The Plan targets safety, housing, health and social care, business investment, education and leisure, and public services. In the last 10 years organisations have been set up to look at the problems of the City Fringe area and ways to integrate and link the local population into benefits available from proximity to the City. Training has also been targeted at the youth population in Spitalfields Banglatown and Whitechapel where there is a large proportion of people under 20 (mainly Bangladeshi).
- 6.9.11 Tower Hamlets has been targeted by Central Government for neighbourhood renewal. Tower Hamlets partnership, launched in 2001; has designed a neighbourhood renewal strategy to produce more measurable improvements in housing, health, employment, crime and education using the neighbourhood renewal fund grant. Local Area Partnership (LAP2) Bethnal Green South Spitalfields and Banglatown prioritises improvement of services and facilities and community involvement and engagement and improvement in the quality of the local environment

Main Works

- 6.9.12 The twin-bore tunnels will pass between Commercial Street in the west and Stepney Green in the east with the rails at an approximate depth of between 26m and 31m from street level. East of Commercial Street the alignment will run approximately parallel with, and south of, the Great Eastern Main line (GEML), before swinging southeastwards beyond Whitechapel station.
- 6.9.13 The scheme main works will consist of:
 - a permanent shaft at Hanbury Street;
 - a new station at Whitechapel with an interchange concourse beneath Durward Street and, shaft structures, all integrated with the station; and
 - a temporary shaft at Pedley Street.

Hanbury Street Shaft

- 6.9.14 A shaft will be constructed between Liverpool Street and Whitechapel Station (to comply with safety standards). It will measure 32m in length, 14m in width and 37m in depth and will be constructed at the junction of Hanbury Street, Spelman Street and Princelet Street. The shaft will contain EIP and ventilation equipment. The surface level structures will include a ventilation stack and maintenance building approximately 12 m high. The work will be carried out from a worksite that will occupy an area between Hanbury Street, Spelman Street and Princelet Street. Access will be from Whitechapel Road via Greatorex Street and Hanbury Street.
- 6.9.15 The works will require the demolition of:
 - 68-80 Hanbury Street;
 - Britannia House at 80-102 Hanbury Street; and
 - ground floor rear extensions of 63, 65 and 67 Princelet Street.



Whitechapel Station

- 6.9.16 Crossrail will construct a new station to provide interchange with the District line and East London line and in the 2016 baseline the Metropolitan Line replacing the current Hammersmith and City services. The Station will also improve transport links to the local area. The new station will be constructed between Court Street and Cambridge Heath Road.
- 6.9.17 Three scenarios were assessed for ticket halls at Whitechapel Station. The first is the preferred solution because this performs best in transport terms. However, it depends on further work by London Underground and possibly a Transport and Works Act Order to allow the London Underground works. Under these circumstances the Crossrail project cannot rely on this going ahead. Therefore two additional scenarios were considered.
- 6.9.18 All three scenarios can be constructed, subject to the London Underground works, under the powers in the Bill. The three scenarios are described in full in the main Environmental Statement. The first scenario (which is preferred) is outlined here. The other two scenarios are not explained in detail because the community impacts are the same.
- 6.9.19 Scenario 1 A new western ticket hall would be provided over the District line east of Court Street. The western end of the Crossrail platforms will be accessed from this ticket hall via the District line platforms, then escalators to an interchange concourse within a box under Durward Street providing interchange to the District line and the East London line. A further bank of escalators will descend from this interchange concourse to the Crossrail platforms. This western ticket hall will require demolition of London Underground accommodation over the District line and removal of three District line tracks; the northernmost and southern two (by London Underground).
- 6.9.20 Removal of the District line tracks may require London Underground to provide facilities for reversing trains at an alternative location, powers for which would need to be obtained by London Underground separately to the Bill. The ventilation, escape and EIP infrastructure will be constructed at the east end of the Crossrail platforms to the west of Cambridge Heath Road at the junction with Whitechapel Road.
- 6.9.21 A shaft at Durward Street would be required for all three scenarios. This will include the Whitechapel station interchange concourse (providing access to London Underground East London line platforms) escape, EIP and ventilation equipment at the west end of the Crossrail platforms. The shaft will be constructed at Essex Wharf.
- 6.9.22 The following worksites will be required at Whitechapel:
 - The eastern part of the Durward Street Worksite will occupy Swanlea School carpark, open amphitheatre, caretakers house, play area, garden area, staff parking and a small store room of the sports centre. This site will be accessed from Durward Street. The western part of the Durwood Street worksite will termporarily occupy the staff carpark of a sports centre:
 - the Sainsbury's Car Park Worksite and Sainsbury's Car Park Temporary Shaft Site will require a large proportion of the carparking area and will be accessed from Cambridge Heath Road with egress onto Brady
 - the District Line worksite will be located on Durwood Street and includes an area used as a bus stand and bus turning area.



6.9.23 The Whitechapel works will require the demolition of:

- the school caretaker's house at the Essex Wharf worksite: and
- London Underground signalling accommodation over District line south of Durward Street for scenarios 1 & 2 only; and
- a conservatory to the Blind Beggar pub, and a section of Sainsbury's supermarket car park and adjacent wall at Sainsbury's Car Park worksite.

Pedley Street Shaft

6.9.24 A temporary shaft at Pedley Street (which will be connected to the Hanbury Street Shaft via a temporary tunnel under Spital Street). It will be used for the delivery and removal of materials during the tunelling phase. The temporary shaft at Pedley Street will be backfilled and the site reinstated during the construction phase of the running tunnels. The Pedley Street worksite will occupy land on the south side of the GEML between the eastern end of Pedley Street and the western end of Tent Street, which lies just to the west of Bethnal Green station.

6.9.25 Demolitions at Pedley Street will comprise:

- the western part of the disused viaduct between Pedley Street and the active GEML lines, currently occupied by Banjax Motorcycles;
- the remaining section of the disused railway viaduct, located to the north of Weaver House between Pedley Street and the active GEML lines;
- minor structures at 73-74 Vallance Road, currently occupied by Forest Reclaim; and
- the end of the disused Railway Viaduct between Hemming Street and Tent Street.

Significant Temporary Residual Impacts: Hanbury Street

6.9.26 Table 6.1 (Chapter 10) summarises the assessment process for this route section.

6.9.27 There will be increases in lorry traffic on Greatorex Street, Hanbury Street, Spital Street and Buxton Street. Whilst containing some commercial uses, these streets are primarily residential with some community facilities. Current traffic flows are low and the additional lorry traffic during the 11 month peak period of construction will generate a significant adverse community impact.

Significant Permanent Residual Impacts: Hanbury Street

6.9.28 Table 6.1 (Chapter 10) summarises the assessment process for this route section.

6.9.29 There are likely to be 20 dwellings around Hanbury Street which may qualify for re-housing for a period of greater than three months. Due to the fact that residents may be absent from the community for a relatively long period, it is assumed that there will be a significant permanent impact.

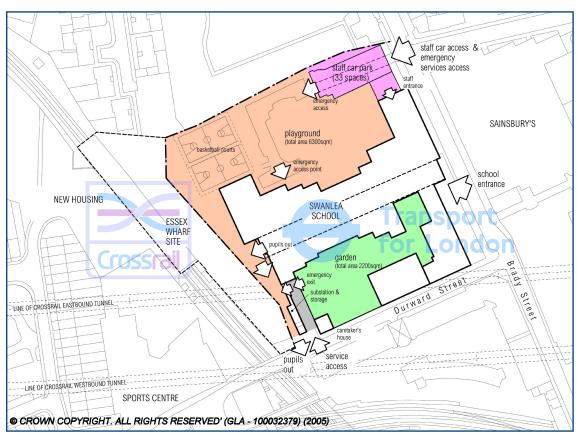
Cumulative Impacts: Hanbury Street

6.9.30 Table 6.2 (Chapter 10) summarises the cumulative impact assessment. In addition to the direct temporary impacts outlined above there will be a cumulative impact arising from noise and visual impacts during construction. This will also include the potential rehousing of 20 residential properties for a period of greater than three months. Although this is reported as a permanent impact the effect will commence during construction.



Significant Temporary Residual Impacts: Whitechapel Station

- 6.9.31 Table 6.1 (Chapter 10) summarises the assessment process for this route section.
- 6.9.32 Construction works will require the temporary acquisition of a garden area, playground space, outdoor amphitheatre and caretaker's house at Swanlea school. Appendix 1 provides additional information on Swanlea
- 6.9.33 Residents at 11 dwellings on Durward Street are likely to require re-housing for less than three months. This will be a significant negative impact on the local community.
- 6.9.34 There will also be an increase in lorry traffic on Durward Street because it is currently closed to through traffic and will be opened up to provide a route for construction traffic. There will also be a significant increase of HGV traffic on Brady Street which currently has relatively low traffic flows. This additional HGV traffic during construction will generate a significant adverse community impact.



Picture 10: Swanlea school existing layout (Source: Crossrail)



Significant Permanent Residual Impacts: Whitechapel Station

6.9.35 Table 6.1 (Chapter 10) summarises the assessment process for this route section.

6.9.36 There are two options for the reinstatement of open space at Swanlea School which are subject to on-going discussions with the school. The first option reinstates the open space lost during construction. The second option which includes the use of Essex Wharf site would provide a net increase in the school playground space. The selection of which option is dependant on discussions with the local authority and school, neither option will result in a significant permanent impact on the school.

Cumulative Impacts: Whitechapel Station

6.9.37 Table 6.2 (Chapter 10) summarises the cumulative impact assessment.

6.9.38 There will be a cumulative impact on the local community at Whitechapel caused by a combination of the direct temporary impacts outlined above and:

- noise impacts on local residents, pupils at Swanlea school, users of the Young People Centre (2a-12 Cambridge Heath Road) and patients and doctors at the Albion Health Centre;
- visual impacts on residents, users of the youth centre and pupils at Swanlea school; and
- loss of car parking and localised traffic congestion.

Significant Temporary Residual Impacts: Pedley Street

6.9.39 Table 6.1 (Chapter 10) summarises the assessment process for this route section. There will be no temporary significant impacts.

Significant Permanent Residual Impacts: Pedley Street

6.9.40 Table 6.1 (Chapter 10) summarises the assessment process for this route section.

6.9.41 It is likely that 17 dwellings round Pedley Street may qualify for re-housing for a period of greater than three months. Due to the fact that residents may be absent from the community for a relatively long period, it is assumed that this will be a significant permanent impact.

Cumulative Impacts: Pedley Street

6.9.42 Table 6.2 (Chapter 10) summarises the cumulative impact assessment. At Pedley Street, there will be a cumulative impact resulting from a combination of increased noise, the loss of visual amenity. This cumulative impact will also include the potential rehousing of 17 residential properties for a period of greater than three months. Although this is reported as a permanent impact the effect will commence during construction.



6.10 Mile End Corridor Conveyor (Route Window C8A)

Baseline

- 6.10.1 The area to the south of the railway is mainly residential. Meath Gardens and Mile End Park lie to the north with the Regents Canal to the east (along the western boundary of Mile End Park). Community resources include several play areas, the Morpeth Secondary School, Bethnall Green Goodwill Centre, Wessex Community Centre, Bangabanhu Infants School and Baitul Aman Mosque and Cultural Centre.
- 6.10.2 The area is within the London Borough of Tower Hamlets. The UDP designates Mile End Park and Meath Gardens as 'Metropolitan Open Land'.

Main Works

- 6.10.3 This route window contains the eastern part of the conveyor from Pedley Street, Mile End (Devonshire Street) sidings at which excavated material will be loaded onto trains, and the northern part of Mile End Park, which will form a stockpiling area for excavated material. The temporary Mile End conveyor will run along the south side of the existing railway corridor. It will be used to carry excavated material removed through the Pedley Street temporary shaft (see Route Window C8) to Mile End (Devonshire Street) sidings and a holding area located within part of Mile End Park.
- 6.10.4 In order to accommodate the works at this worksite, it will be necessary to demolish Globe New Furniture on Globe Road.
- 6.10.5 The Mile End Park Excavated Material Handling Site will be fully restored and no permanent structures will be constructed on the site. The conveyor will be dismantled following completion of the works.

Significant Residual Impacts

- 6.10.6 Table 6.1 (Chapter 10) summarises the assessment process for this route section.
- 6.10.7 The temporary loss of a large area of open space at Mile End Park for approximately 26 months is considered a temporary negative residual impact. This is an area of informal open space, distinct from neighbouring areas of the park which are used for specific activities (Artspark to the south and the ecology park to the north).



Picture 11: Mile End Park spoil handling area



Cumulative Impacts

6.10.8 Table 6.2 summarises the cumulative impact assessment.

6.10.9 The combination of the direct community impact outlined above, noise impacts on the University Halls of Residence, the London Hospital, residents of 45 dwellings and visual impacts on users of the Park and residents around the Mile End Park worksite will cause a cumulative impact on the local community.



6.11 Stepney Green Shafts (Route Window C9)

Baseline

- 6.11.1 This area is mainly residential with some industry. The main recreation area is provided by Stepney Green which houses an all weather sports pitch. There are a number of community facilities, which include Stepping Stones Farm, Sir John Cass's Foundation, Rolan Philips Scot Centre and Redcoat Secondary School. St Dunstan's Church and grounds are located to the east of Stepney High Street.
- 6.11.2 There are no community policies that directly affect this area.

Main Works

- 6.11.3 The twin-bore tunnels will pass between Stepney Green in the west and the Regent's Canal in the east. East of Stepney Green the alignment will divide into two, the northern tunnel continuing eastwards towards the southern end of Mile End Park and the southern tunnel running southeast towards Limehouse and the A13, Commercial Road. The new Stepney Green shaft structures are the only above-ground Crossrail features within this route window.
- 6.11.4 Crossrail will construct two shafts to provide facilities for EIP, escape and ventilation. Two 16 m diameter shafts will be constructed on Stepney Green, immediately west of Garden Street. EIP, ventilation and escape facilities will be provided. Two 7.5 m high surface structures will be constructed along with an area of hardstanding.
- 6.11.5 The shafts will be constructed within one large worksite located on Stepney Green. The worksite will require Stepping Stones Farm grazing area and the astroturf on Stepney Green. Construction access will be from Stepney Green.



PICTURE 12 – AERIAL VIEW OF STEPNEY GREEN



PICTURE 13 - STEPPING STONES FARM GRAZING AREA



Significant Residual Impacts

- 6.11.6 Table 6.1 (Chapter 10) summarises the assessment process for this route section. The temporary loss (for up to six years) of the astroturf will be a significant negative impact. There are no alternative facilities locally and it is in conflict with local planning policy.
- 6.11.7 The temporary loss of the grazing area of the city farm will be a significant negative impact. It will change the function of the farm from small and large animals to just small animals. Appendix 1 provides more information on Stepping Stones Farm.
- 6.11.8 Garden Street will be closed for 5 years requiring pedestrians to be diverted. This will be a significant negative temporary impact.

Cumulative Impacts

6.11.9 Table 6.2 (Chapter 10) summarises the cumulative impact assessment. The combination of the direct community impacts outlined above, noise impacts on residents on local residents; and visual impacts on pupils at Sir John Cass's Foundation and Red Coat Secondary School, residents, pedestrians and users of the Green and Stepping Stones Farm will cause a significant cumulative impact on the local community during construction.



6.12 Lowell Street Shaft (Route Window C10)

Baseline

- 6.12.1 Lowell Street is located to the north of the DLR (which runs east-west across the route window). To the south is Limehouse Basin with boat docking facilities. Retail facilitates are located along Salmon Lane to the north, other community facilities include Tower Hamlets Homeless Hostel Limehouse Library and Our Lady Immaculate Roman Catholic Church.
- 6.12.2 The area lies within the London Borough of Tower Hamlets. The UDP identifies Salmon Lane near Lowell Street shaft as a 'Neighbourhood centre'. The shaft lies to the immediate east of a 'Green Chain' a linear open area linking open space, canals, river and parks for nature and recreation functions.
- 6.12.3 The area lies within the Local Action Plan area 7 (LAP7) East India and Lansbury, Limehouse. The Plan aims to improve educational achievements and lifelong learning opportunities, increase employment for local people, and promote healthy living.

Main Works

- 6.12.4 The Docklands Light Railway (DLR) runs east-west on a Victorian viaduct through this route window, which lies within LB Tower Hamlets. The twin-bore tunnels will pass beneath Commercial Road before swinging southwards to pass beneath the DLR between Limehouse and Westferry stations.
- 6.12.5 The Lowell Street shaft and surface building are the only permanent works within this route window. An 18.8 m diameter shaft will be constructed on undeveloped land at the comer of Commercial Road and Basin Approach (at 610 Commercial Road). EIP, ventilation and escape facilities will be provided. The ventilation structures will be about 15 m in height. One approximately 25 m long surface structure will be constructed along with an area of hardstanding.
- 6.12.6 Beneath the surface, a concrete box will contain ventilation equipment. Construction of the Lowell Street shaft works will be carried out from an area of undeveloped land located at No. 610 Commercial Road, which is bounded by a DLR viaduct to the south and a disused railway viaduct to the east. Access will be from Commercial Road. There will also be a lorry holding area along West India Dock Road

Significant Residual Impacts

6.12.7 Table 6.1 (Chapter 10) shows the assessment process. There will be no significant residual impacts.

Cumulative Impacts

6.12.8 Table 6.2 (Chapter 10) summarises the assessment of cumulative impacts in this route section. There will be no cumulative impact.



6.13 Isle of Dogs Station (Route Window C11)

Baseline

- 6.13.1 The Isle of Dogs is dominated by the Canary Wharf office and retail complex and Billingsgate Fish Market (the largest inland fish market in the UK). Given the strong commercial nature of the area there are limited community resources but they do include: the Limehouse Practice and Emmanuel Miller Centre, sheltered accommodation on Gill Street, St Anne's Church, Lambeth Consultation and Participation Team and the Cruising Association.
- 6.13.2 The London Plan designates the Isle of Dogs as an 'Opportunity Area'. It states the Mayor will work with partners to draw up planning frameworks to inform UDP reviews and broader regeneration and community strategies. The Isle of Dogs and Poplar are also designated as 'District Centres', which, according to the London Plan provide convenience goods and services for the local community. The London plan proposes to develop the capacity of these centres.
- 6.13.3 The Tower Hamlets UDP has produced an outline Area Action Framework for the Isle of Dogs. It recognises issues raised by the London Plan including the increasing isolation of local communities in the Isle of Dogs. The Area Action Framework proposes to ensure new development contributes to the social and physical infrastructure required to stop this isolation. The UDP identifies the area to the north as 'Primary Shopping Frontage' i.e. a district centre. It identifies the docks as 'Activity Areas' to promote the development of leisure opportunities in the area to the north of the Crossrail works. It also identifies 'Community Areas' to the south, with a priority to identify community needs including services, facilities and public realm improvements.
- 6.13.4 The area falls within LAP 8 Blackwall/ Cubitt Town, Millwall. The Plan aims to raise the standard of healthy living, enhance quality of local environment by resisting inappropriate development and improve lifelong learning and achievement.



Picture 14: Blackwall Basin



Picture 15: Popular Basin



Main Works

6.13.5 The twin-bore tunnels will pass under the northern part of the Isle of Dogs between Westferry Road in the west and the Blackwall Tunnel in the east with the rails at a depth of about 30 m below street level. East of Westferry Road, the alignment will run under West India Docks and North Dock (roughly parallel with the Docklands Light Railway (DLR)) and Aspen Way.

6.13.6 The main permanent features comprise the Hertsmere Road shaft and the Isle of Dogs Station.

Hertsmere Road Shaft

6.13.7 A 9 m diameter shaft (with emergency ventilation facilities will be constructed on a car park between the Cannon Workshops on Cannon Drive and Hertsmere Road. A 5 m high building will be constructed on the surface with a basement containing plant equipment. The worksite will include a lorry holding area. The Cannon workshop car park will be reinstated on completion of the works.

Isle of Dogs Station

- 6.13.8 A new station will be constructed beneath and within the West India North Dock. The station will extend from east of the DLR bridge to the east end of the dock. The station will be constructed within a 475 m long concrete box with a 245 m long island platform. This will be fitted out to 210 m with the potential for extension should the need to operate longer trains arise. A 165 m long scissor crossover at the western end of the box will enable trains to terminate at the station and return either to central London or to Abbey Wood.
- 6.13.9 Access to and from the station will be via a re-built Great Wharf bridge. A bank of escalators will be provided from the bridge down to a landing at the same level as the dockside where a further bank will connect with the ticket hall located within the station box beneath the water level. Further escalators will be provided to platform level.



Picture 16: St Peter's barge area



Picture 17: Great Wharf Bridge



- 6.13.10 Escape and ventilation structures will be constructed at each end of the station box. The station will have one ticket hall, with passive provision for a second.
- 6.13.11 There will be three construction sites: the North Quay (accessed from Aspen Way), Billingsgate market carpark (accessed from Aspen Way) and a conveyor worksite at Bellmouth passage to the north of the southern dock (using part of the water area).

Significant Residual Impacts

- 6.13.12 Table 6.1 (Chapter 10) summarises the impact assessment.
- 6.13.13 The closure of the West India North Dock, will block access to the Blackwall Basin and Poplar Basin. It is likely that, with no other means of access, 20 vessels moored in Blackwall Basin and 90 vessels moored in Poplar Dock may have to find alternative moorings. Given the shortage of alternative moorings in Central London this will result in a significant temporary impact. Appendix 1 provides more details on the uses of Poplar and Blackwall Basins.
- 6.13.14 The closure of West India North Dock will also effectively 'lock in' St Peter's barge, which accommodates St Helen's Church. It is likely that this barge will have to find an alternative mooring during the construction works. The potential temporary loss of the use of the barge by the Church would be a significant impact.
- 6.13.15 The construction works will also require the closure of Great Wharf Bridge resulting in a considerable diversion for pedestrians. A significant adverse impact will therefore occur.

Cumulative Impacts

6.13.16 Table 6.2 (Chapter 10) summarises the assessment of cumulative impacts in this route section. There will be no cumulative impact.



6.14 Mile End and Eleanor Street Shafts (Route Window C12)

Baseline

- 6.14.1 Mile End Park is in a predominantly residential area with large areas of social housing, two primary schools, one secondary school and Avery Hill College (Mile End Annex). Mile End Park provides a district leisure and recreation facility which includes the East London Stadium.
- 6.14.2 Mile End Park is designated as 'Metropolitan Open Land' (strategically important open space unique to London) in the Tower Hamlets UDP. There is a presumption against development unless it is for leisure recreation sport or culture. It is proposed to launch the Football at Mile End (FAME) development in 2005, to open a Mile End leisure centre in 2006 and complete the redevelopment of York Hall by 2007.
- 6.14.3 Eleanor Street Shaft is located within a 'railway triangle' with tracks on three sides. The main use is storage and warehousing, but there is also a traveller's site, which accommodates 19 residential caravans. Several local open spaces, the Wellington primary school and isolated local shops are located within the wider area.
- 6.14.4 Eleanor Street is within Local Area Partnership 6 and Mile End Park shaft is in Local Area Partnership 7. Both partnerships work with the local communities on urban renewal.

Main Works

6.14.5 The twin-bore tunnels will broadly follow beneath the London, Tilbury and Southend (LT&S) Line in this route window, with the rails at an approximate depth of between 23 m and 28 m from street level. Other permanent works within this route window will comprise the Mile End Park shaft and Eleanor Street shaft.

Mile End Shaft

- 6.14.6 A 16 m diameter shaft will be constructed in the southeast corner of Mile End Park bounded by Burdett Road and the mainline railway viaduct that carries the LT&S line to and from Fenchurch Street. The shaft will have emergency escape, EIP and ventilation facilities which will be housed in a structure approximately 8 m high, 38 m wide and 52m long. The surface structure will be shaped as a green mound. A hardstanding area will be provided for emergency assembly and for use by emergency and maintenance vehicles.
- 6.14.7 The twin bore tunnels will broadly follow the existing railway corridor. Mile End Shaft will be constructed in the south east corner of Mile End Park (bound by Burdett Road and the viaduct to Fenchurch Street). Access will be from Burdett Road. The area is currently being developed for seven games pitches (as part of the Tower Hamlets Stadium Development). A lorry holding area will be in place along Burdett Road, north of the worksite.



Eleanor Street Shaft

- 6.14.8 A 15 m diameter shaft will be constructed within the eastern extent of the current caravan park site at the eastern end of Eleanor Street. The site is in an area of land bounded by London Underground's District line and the LT&S line to Fenchurch Street. Ventilation and emergency intervention facilities will be provided. A surface structure of 11 m height, 17.5 m width and 35.5 m length will be constructed and set within an area of hardstanding for emergency and maintenance vehicles.
- 6.14.9 The Eleanor Street shaft will be constructed in land bound by the District line and Mainlines (to, and from, Fenchurch Street). The worksite will be located on a traveller's site. Access will be from Eleanor Street. There will be a lorry holding located on Eleanor Street.

Significant Temporary Residual Impacts: Mile End Park

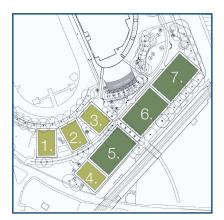
6.14.10 Table 6.1 (Chapter 10) summarises the assessment process for this route section. The construction of the Mile End Park shaft will result in the temporary loss of a football pitch. The pitch will be reinstated on completion of the works however, its loss will be a significant adverse impact on the community. Appendix 1 provides more information on the pitches at Mile End Park.

Significant Permanent Residual Impacts: Eleanor Street

6.14.11 Table 6.1 (Chapter 10) summarises the assessment process for this route section. The loss of 19 dwellings at the Eleanor Street travellers' will be a significant permanent negative impact. There is currently no agreement in place for the reinstatement of these units. It is proposed that a compensation payment could be made to the LB Tower Hamlet to permanently relocate the travellers' caravan park. Further discussions will be required with Tower Hamlets to progress this proposal. At this stage a significant adverse impact is predicted. See Appendix 1 for more information on the caravan park.

Cumulative Impacts

6.14.12 Table 6.2 (Chapter 10) summarises the assessment of cumulative impacts in this route section. There will be no cumulative impact.



Picture 18: Mile End Park proposed mini soccer



Picture 18: Mile End Park, layout of reinstated mini soccer pitches area



Picture 20: Traveller's caravan park



6.15 Pudding Mill Portal (Route Window C13)

Baseline

- 6.15.1 This area is mainly light industrial (including the Heron Industrial Estate) and railway lands with some residential to the west.
- 6.15.2 The area falls within the London Borough of Newham. The UDP was adopted in June 1997 and the review has not yet been published. The only community related designations include a proposed cycle route and the existing Green Chain.

Main Works

- 6.15.3 The twin-bore tunnels will pass between the A11, Bow Road and under the River Lea at a depth of about 17 m from street level, before emerging from the ground near Pudding Mill Lane. The Docklands Light Railway (DLR) station will be replaced and the existing railway realigned. The alignment will run parallel with the DLR corridor (north of Bow Road) towards Pudding Mill Lane Station. The alignment will then use the existing surface railway corridor to the east. There are substantial enabling works including sewer diversions.
- 6.15.4 The works are located between the River Lea in the west and Marshgate Lane in the east. The twin-bore tunnel emerges at the tunnel eye, immediately east of the River Lea, where a ramp will rise through a cut and cover box to a portal and up to the track level of the GEML west of the DLR station. Permanent works will consist of:
 - ß Pudding Mill Lane portal, covered ramp and cut and cover box;
 - ß a new Pudding Mill Lane DLR station and alignment on viaduct;
 - ß re-alignment of the westbound (up line) electric track of the GEML;
 - ß twin-bore tunnels; and
 - ß permanent closure of Pudding Mill Lane to road traffic and the opening up of Marshgate Lane to road traffic;
- 6.15.5 There will be EIP and escape facilities at the portal.
- 6.15.6 The works will be constructed from three sites: Puddingmill Lane Worksite on Heron Industrial Estate, Bow Midland Yard Worksite and Bow Midland Yard West Worksite (all the works will be accessed from Pudding Mill Lane and Marshgate Lane).
- 6.15.7 At the Pudding Mill Lane and Bow Midland Yard worksites, the following structures will be demolished:
 - Units 1 to 9, Heron Industrial Estate, Barbers Road;
 - Unit 1, Heron Industrial Estate, Bridgewater Road;
 - 8 Barbers Road;
 - Unit 1, 50b Marshgate Lane;
 - 22, 47, 51 and 53 Marshgate Lane;
 - the forecourt of 20 Marshgate Lane;
 - Marlborough House, Unit C The Gatehouse and Capital Print and Display, all on Barbers Road;
 - BBL building, Cooks Road;
 - Kierbeck Coil Compound, Pudding Mill Lane;
 - the DLR bridge; and



6.15.8 buildings within the Bow Midland Yard worksite.

Significant Residual Impacts

6.15.9 Table 6.1 (Chapter 10) summarises the assessment process for this route section.

6.15.10 Construction work will require the closure of the City Mill River footpath for approximately one year and three months, and utilities work and general construction will require the closure of the River Lea footpath for at least six months. As there are no alternative routes within a reasonable distance, these will generate a significant adverse impact for pedestrians.

Cumulative Impacts

6.15.11 Table 6.2 (Chapter 10) summarises the assessment of cumulative impacts in this route section. There will be no cumulative impact.



Picture 21: River Lea footpath area



6.16 Abbey Mills (Route Window C13A)

Baseline

- 6.16.1 The site is located at Abbey Mills Pumping Station. This lies within an area called Mill Meads which comprises the old pumping station, a new pumping station, allotments and some green space. Residential streets lie to the north-west with railway land and a gas depot to the east. The Three Mills Wall River lies to the west, and the Prescott Channel to the south.
- 6.16.2 The works are in the London Borough of Newham. The Newham UDP (Adopted June 2001). It designates Mill Meads area as 'Green Space to be protected' and as Major Opportunity Zone 3 (MOZ3). The MOZ covers West Ham Mills (including Three Mills Island, land at Sugar House Lane and Hunts Lane. It proposes high quality mixed use employment which would inlcude heritage, leisure and recreation uses. The Plan also designates a proposed 'Recreational Footpath Network' with routes along the boundary of Mill Meads

Main Works

- 6.16.3 The works comprise the diversion of the Hackney to Abbey Mills and Wick Lane sewers, as a result of alignment of the Crossrail running tunnels at Pudding Mill Lane (Route Window C13). The works will take approximately fifteen months to complete.
- 6.16.4 The works will involve two shafts, one of which is required for the insertion or recovery of a TBM; the other shaft is for access during and after the works. A new pumping station will be constructed at the Abbey Mills site. Material, including excavated material, will be transported by road.

Significant Residual Impacts

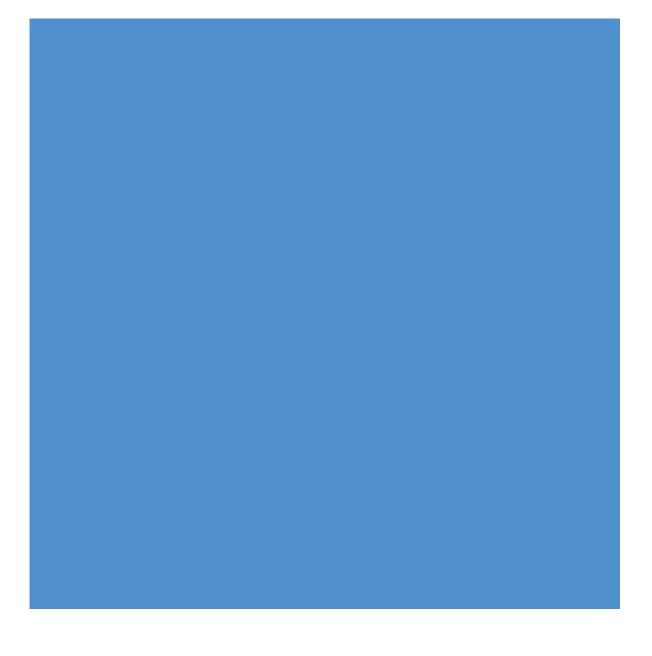
6.16.5 Table 61 (Chapter 10) summarises the impact assessment. There will be no significant impacts.

Cumulative Impact

6.16.6 Table 6.2 (Chapter 10) summarises the cumulative assessment. There will be no cumulative impact.



Baseline and Environmental Impacts: Stratford to Shenfield





Baseline and Environmental Impacts: Stratford to Shenfield

7.1 Introduction

- 7.1.1 This chapter describes the north-eastern route section from Stratford to Shenfield, and the temporary and permanent environmental impacts that will arise from the construction and operation.
- 7.1.2 Crossrail will use the Great Eastern mainline. Additional track will be required to provide a freight loop between Goodmayes and Chadwell Heath. This will replace an existing loop at Manor Park, which will be removed. Crossrail will require new or extended platforms at several stations in order to accommodate 200 m long trains. New station buildings and other facilities will be provided at Romford and Ilford.
- 7.1.3 There will also be a new depot and stabling sidings to the west of Romford Station and south of the GEML, These will be linked to the eastbound and westbound Crossrail running lines by a dive-under (rail underpass) enabling Crossrail trains to access the depot without affecting services on the mainlines.
- 7.1.4 Stabling sidings will also be provided on re-modelled existing sites at Gidea Park and Shenfield. New sidings will be constructed at Aldersbrook (near Ilford) to facilitate fit-out of the Crossrail tunnels, and at Pitsea for disposal of excavated material.

7.2 Stratford Station (Route Window NE1)

Baseline

- 7.2.1 Stratford is a major transport interchange in East London served by the Docklands Light Railway, London Underground, Network Rail and in the near future the Channel Tunnel Rail Link. The Stratford Shopping Centre is located to the immediate south of the station and accommodates major retail outlets, a cinema and theatre. The surrounding area comprises a local market on the Broadway, a museum, large areas of social housing, a community centre, play area, the Building Crafts College and protected open space. The area to the north of the station is mainly railway land and the Channel Tunnel construction site.
- 7.2.2 The London Plan designates Stratford as an 'Opportunity Area'. It promotes a new business quarter between Stratford Station and the future Channel Tunnel Terminus. This regeneration focus is also supported by the Newham UDP (Adopted June 2001) which designates Stratford rail lands as a Major Opportunity Zone 1 (MOZ). The MOZ has a draft urban development framework which promotes the wider regeneration of East London a range of local, regional and international uses enhance the role of Stratford as a shopping, entertainment and cultural centre.

Main Works

- 7.2.3 Platform five, which forms part of the island platform three/four and five, will be widened to accommodate Crossrail trains. Some refurbishment works and fitting out of new platform furniture will also be carried out.
- 7.2.4 The Stratford Station Worksite will be located on the triangle of land at the corner of Angel Lane and Great Eastern Road (an undeveloped railway site). Access will be from Meridian Square.



Significant Residual Impacts

7.2.5 Table 7.1 (Chapter 10) summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

7.2.6 Table 7.2 (Chapter 10) summarises the cumulative impact assessment. There will be no cumulative impact.

7.3 Forest Gate (Route Window NE2)

Baseline

- 7.3.1 The area is mainly residential with social housing and rows of traditional terraces. Woodgrange Road provides local shopping facilities. Wanstead Flats and the smaller Forest Lane Park are located to the north of the station. The Durning Hall Community Centre is located to the immediate south of the Station on Earlham Grove, and the Forest Gate Community School is to the north on Forest Street. Other resources have been identified as the Forest Gate Methodist Church, Kaye Rowe Nursery School and the Lord Lister Health Centre.
- 7.3.2 Forest Gate forms part of the East London Sub-region in The London Plan. It is a priority area for development, regeneration and infrastructure improvement. Woodgrange Road is designated a 'Primary and Secondary Shopping Frontage' by the adopted Newham UDP. The UDP also proposes cycle routes along Forest Lane and Woodgrange Road.

Main Works

7.3.3 The works will comprise platform extensions including the extension of GEML platforms (platforms 1, 2 and 3) west by 19 m to 205 m to accommodate 10 car Crossrail trains. Forest Gate Station Worksite East will be located on railway land south of Forest Lane on open railway land, and Forest Gate Station Worksite West will be on a strip of railway bank located to the south of the station buildings and accessed from Earlham Grove.

Significant Residual Impacts

7.3.4 Table 7.1 (Chapter 10) summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

7.3.5 Table 7.2 (Chapter 10) summarises the cumulative impact assessment. There will be no cumulative impacts.



7.4 Manor Park Station (Route Window NE3)

Baseline

- 7.4.1 The area comprises housing with some light industrial/storage uses. Manor Park and Manor Park Cemetery lie to the north of the station with a post office, several churches and a dental surgery to the south. Local shopping is provided along Romford Road.
- 7.4.2 Manor Park forms part of the East London Sub-region in The London Plan. It is a priority area for development, regeneration and infrastructure improvement. Romford Road and the junction with Station Road is designated a 'Local Centre' by the Newham UDP. The UDP also designates Station Road, Forest Drive, Forest View Road and Romford Road as cycle routes.

Main Works

- 7.4.3 The main works in this route window comprise platform extensions. The GEML platforms (platforms 1, 2 and 3) will be extended westwards by 22 m to 205 m to accommodate 10 car Crossrail trains.
- 7.4.4 Platform 1 will be widened and the track that passes to the south of platform one (the 'up independent goods loop') will be removed from Forest Gate to the east of Manor Park Station. A replacement goods loop will be provided between Goodmayes and Chadwell Heath.
- 7.4.5 Manor Park Station Worksite will be located on railway land to the south of the station. It will be accessed from Station Road.

Significant Residual Impacts

7.4.6 Table 7.1 (Chapter 10) summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

7.4.7 Table 7.2 (Chapter 10) summarises the cumulative impact assessment. There will be no cumulative impact.

7.5 Ilford Station (Route Window NE4)

Baseline

- 7.5.1 llford provides regional shopping and employment to the area. The main shopping facilities are provided by the Exchange Shopping Centre and individual shops/services along Cranbrook Street and High Road. The area to the north of the station is mainly residential. It includes the Maytime Preparatory and Montessori Nursery School, the Clark's preparatory Montessori school and the Geoffrey Lloyd Foulkes Clinic of Complementary Medicine on York Road. The area to the south is a mix of uses with some storage and light industry, a supermarket, police station, post office, Buddhist temple and local health surgeries.
- 7.5.2 The London Plan designates Ilford as a 'Metropolitan Centre' and an 'Opportunity Area'. These designations highlight the regional role of the area and the key focus on regeneration, renewal and development. The main shopping facilities are designated as 'Primary Shopping Frontage' by the Redbridge UDP, adopted November 2003.



Main Works

- 7.5.3 The works will include the provision of a new station building accessible from Cranbrook Road, York Place and Ilford Hill, and temporary sidings for the construction and fit out of the central section tunnels. The sidings will be located on derelict land at the Aldersbrook sidings site to the west of the North Circular Road. The works to Ilford Station will be undertaken within a railway cutting. The works will require the demolition of 27-29 Cranbrook Road.
- 7.5.4 The proposed station building will be located west of the existing building. It will comprise: a public concourse area in the existing station entrance to Cranbrook Road, a walkway along the north boundary extending over platform five, a main ticket hall and concourse area over the five tracks (to access a new entrance from York Place). The staff accommodation and operations room will be situated above the ticket hall.
- 7.5.5 Platforms two, three and four will be extended west by 19m to 205m and platforms four and five to 5m in width.
- 7.5.6 Ilford Station Worksite North will be located on railway land to the north of the tracks to the rear of properties on York Way. Access will be from York Way. The Ilford Station Worksite South will be located to the west of the station and south of the tracks.
- 7.5.7 Crossrail will rebuild the disused Aldersbrook sidings to the west of Ilford Station. These will be used during the construction phase as a tunnelling logistics site. The buildings formerly used as the railway training school will be demolished and a new access road will be provided.
- 7.5.8 The Aldersbrook Sidings Worksite will be located to the west of the station on the site of the former British Railways training school. It will be accessed from Romford Road.

Significant Residual Impacts

- 7.5.9 Table 7.1 (Chapter 10) summarises the assessment process for this route section. There will be no temporary significant impacts.
- 7.5.10 There will be 18 dwellings which may qualify for rehousing for a period of greater than three months. As this is likely to be for a relatively long period of time, the loss of these residents to the local community is considered a permanent impact.

Cumulative Impacts

- 7.5.11 Table 7.2 (Chapter 10) summarises the cumulative impact assessment.
- 7.5.12 There will be a significant cumulative impact on the local community caused by a combination of the noise and visual amenity impacts on surroundings residents.
- 7.5.13 This cumulative impact will also include the potential rehousing of 18 dwellings outlined above, the effects of which will commence at the beginning of the construction period.



7.6 Seven Kings Station (Route Window NE5)

Baseline

- 7.6.1 The area around the station is mainly residential. Shopping services are provided along Cameron Road. The Canon Palmer School is located to the immediate north of the station on Lombard Avenue. Other community resources which have been identified include sheltered accommodation, a doctor's surgery and a dentist's surgery on Cameron Road. To the south there is a church on Seven King's Road, and a health centre and leisure centre on High Road.
- 7.6.2 Cameron Road is designated 'Primary Shopping Frontage' by the Redbridge UDP. The UDP also designates Cameron Road and High Road as cycle routes.

Main Works

- 7.6.3 GEML platforms 2,3 and 4 will be extended west by 18 m to 205 m to accommodate 10 car Crossrail trains. Platform works will be carried out in conjunction with track alignments, OHLE and signal works.
- 7.6.4 The Seven King's Worksite will be located to the north of the station and will require part of the Palmer School grassed area. Access will be from Lombard Avenue.

Significant Residual Impacts

7.6.5 Table 7.1 (Chapter 10) summarises the assessment process for this route section. There will be no significant residual impact.

Cumulative Impacts

7.6.6 Table 7.2 (Chapter 10) summarises the assessment process for this route section. There will be no cumulative impact.



7.7 Goodmayes Station (Route Window NE6)

Baseline

- 7.7.1 Goodmayes Station is in a residential area bordered by large retail superstores on High Road. Shops along Goodmayes Road outside the station provide the main retail facilities. The Barley Lane Recreation Ground and Thackeray Community Centre (opposite Tesco supermarket on High Road), Eastcourt Independent School, Maytime Montessori nursery, Ansar Islamic Centre and Goodmayes Medical Centre are located to the north of the station. The Animal Ark veterinary centre, Grace Church and Goodmayes Baptist Church (on Goodmayes Road) are located to the south.
- 7.7.2 The retail facilities along Goodmayes Road outside the station entrance are designated Primary Retail Frontage by the UDP.

Main Works

- 7.7.3 The main works comprise platform extensions at Goodmayes Station, including the extension east of GEML platforms (platforms 2, 3 and 4) by 6 m and 205 m to accommodate 10 car Crossrail trains.
- 7.7.4 The currently disused Goodmayes to Chadwell Heath freight loop will be reinstated to replace the goods loop at Manor Park. This work will include the removal of the existing redundant loop track. The track bed will need to be lowered at the bridge at both Goodmayes and Chadwell Heath stations.
- 7.7.5 The Goodmayes Station worksite will be located on railway land to the east of the station, with access through Goodmayes retail park. The Chadwell Heath Loop Worksite West will be located to the south of the tracks on railway land with access from Express Drive.

Significant Residual Impacts

7.7.6 Table 7.1 (Chapter 10) summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

7.7.7 Table 7.2 (Chapter 10) summarises the cumulative impact assessment. There will be no cumulative impact.



7.8 Chadwell Heath Station (Route Window NE7)

Baseline

- 7.8.1 Chadwell Heath Station is in a mainly residential area. The key shopping resources are located on High Road and Station Road. A police station, chapel and bingo hall are all located north of the track with sheltered accommodation to the south. Chadwell Heath provides the main open space.
- 7.8.2 The key shopping resources are located on High Road which is designated 'Primary Shopping Frontage' in the Redbridge UDP, and along High Road and Station Road which are designated 'Retail' in the Barking and Dagenham UDP adopted October 1995.

Main Works

- 7.8.3 The main works comprise platform extensions. The GEML platforms 2,3 and 4 will be extended west by 16m to 205 m to accommodate 10 car Crossrail trains. New platform furniture and lighting will be provided and minor station refurbishment will be carried out.
- 7.8.4 The Chadwell Heath Station Worksite will be located on an old railway goods yard (partially converted to industrial use) to the south of the station with access from Station Road.
- 7.8.5 The currently disused single line to the south of the main lines will be reinstated to replace the goods loop at Manor Park. These works will include the removal of the existing redundant track. Once trackbeds are prepared and the new track is laid, OHLE and signalling will be installed. A new drainage system and walkway will also be installed adjacent to the tracks.
- 7.8.6 Chadwell Heath Loop Worksite East will be located on railway land to the south of the tracks and east of the station. It will also be accessed from Station Road.

Significant Residual Impacts

7.8.7 Table 7.1 (Chapter 10) summarises the assessment process for this route section. There will be no significant impacts.

Cumulative Impacts

7.8.8 Table 7.2 (Chapter 10) summarises the cumulative impact assessment process. There will be no cumulative impact.



7.9 Romford Depot (West) (Route Window NE8)

Baseline

- 7.9.1 In this route window, the rail tracks cross a mainly residential area with large areas of open space. The main recreation space is provided by Westland's Playing Field, Crowland's Heath Golf Course, Jutsum's recreation ground and Romford Stadium. St Edwards School (which borders Westland's Playing Fields) is located to the west.
- 7.9.2 The West Ham United Football Club training grounds, Westland's Playing Field and Crowland's Heath Golf Course are designated 'Green Belt' and 'Metropolitan Open Land' by the Barking/Dagenham and Havering UDPs.

Main Works

- 7.9.3 The main works comprise: the construction of a rail underpass (a dive-under) in order to reduce the conflicting movements between trains on the GEML and those moving to, and from, a new Romford depot. This will also require works to Jutsum's Lane bridge.
- 7.9.4 Romford Depot Underpass: a new junction will be created to the east of the bridge over Whalebone Lane South.
 The alignment of the GEML will be extended to the north to accommodate two tracks that will be used to access a depot site from the west.
- 7.9.5 The works, involving provision of a widened embankment and new retaining wall from Whalebone Lane South to the Jutsum's Lane Bridge, will require acquisition of the southern edge of the West Ham United FC training ground and part of Westland's Playing Fields.
- 7.9.6 The two new tracks will continue to the eastern border of the West Ham United FC training ground where they will descend through a new rail underpass beneath the GEML before accessing the depot on the south side.
- 7.9.7 The works will be located on two sites: Romford Diveunder Worksite North, occupying part of Westland's Playing Fields and some railway land and Romford Diveunder Worksite South located on railway land and an area of open land to the rear of 208 Crow Lane.
- 7.9.8 Jutsum's Lane Bridge Works: once passing through the new underpass the tracks will climb a new ramp to cross an extended bridge over Jutsum's Lane. A new retaining wall and embankment will be constructed on the southern boundary of this new alignment. A new departures and arrivals road will also be constructed between Jutsum's Lane and east of the underbridge to allow access between the depot and the fast lines.

Significant Temporary Residual Impacts

- 7.9.9 Table 7.1 (Chapter 10) summarises the assessment process for this route section.
- 7.9.10 The loss of the open space, the gymnasium and the all weather sports pitch at West Ham FC Training Grounds will be a significant adverse impact.



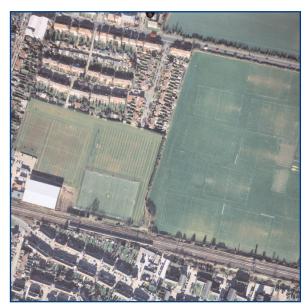
- 7.9.11 The works will also require a substantial part of Westland's Playing Fields for a worksite and an access haul road from London Road. The playing fields have recently been relaid according to Sports England standards with 12 pitches of various sizes for different sports (and age groups) and two training grids. The works will temporarily affect up to 8 pitches and one training grid. The sports ground is a heavily used local resource. Appendix 1 provides full details of who the pitches are used by and the pitch details. The loss of the sports area will be a temporary significant adverse impact. Ongoing consultation with the relevant authorities will seek to reduce this loss.
- 7.9.12 The path immediately north of the tracks linking Whalebone Lane to residents between this road and the West Ham FC training grounds will be closed to pedestrians for up to a year. This would cause a substantial diversion for pedestrians and is considered a significant adverse impact.

Significant Permanent Residual Impacts

7.9.13 The landtake required for the permanent dive-under structure will result in the loss of three pitches at Westland's Playing Fields will be a permanent significant impact. Ongoing consultation with the relevant authorities will seek to reduce or mitigate this loss.

Cumulative Impacts

- 7.9.14 Table 7.2 (Chapter 10) summarises the cumulative impact assessment. There will be a cumulative impact on the local community during construction caused by:
 - noise disruption on local residents and the users of Jutsum's recreation ground;
 - visual impacts on the users of local open space, pupils and teachers at St Edwards School and some local residents: and
 - the landtake of recreation space and footpath closures outlined above in the significant residual impacts.



Picture 22: West Ham FC training grounds and



Picture 23: Footpath off Whalebone Lane area



7.10 Romford Station and Depot (East) (Route Window NE9)

Baseline

- 7.10.1 Romford Station serves a large retail centre and residential area. The Brewery Shopping and Leisure Centre (to the north of the station) is the main retail/recreation node. It provides a bowling alley, fitness centre, cinema and snooker centre. Oldchurch Hospital is located to the south west of the station.
- 7.10.2 Romford is the largest retail centre in the Thames Gateway (Havering Community Strategy 2002). It is designated as a 'Metropolitan Centre' by the London Plan and is targeted for urban renewal through the Havering Strategic Partnership (HSP). The HSP has developed a framework for improving the quality of life in Havering in economic, social, and environmental terms; in close consultation with the public and private sector. This is implemented through six community committees that develop local service centres and information points. This section of the route passes through Romford Central Community Committee Area.
- 7.10.3 The UDP identifies 'Core Retail' along South Street. The Community Strategy outlines plans to completely upgrade the existing Oldchurch Hospital by 2006, combining Old Church and Harold Wood Hospitals to provide 895 beds.

Main Works

- 7.10.4 The main works will include a new depot and stabling sidings located on the old goods yard site to the west of Romford Station and on the south side of the GEML. The works will include a reconstruction of, and extension to, Romford Station.
- 7.10.5 Romford Depot (East): a new maintenance depot building will be constructed between Sandgate Close and Nursery Walk, to the north of the gas works site. It will consisted of eight tracks contained in a building. Romford Depot Worksite will be located to the west of the Station on railway land and Romford Route Control Centre Worksite will be on land currently occupied by a part of the Royal Mail sorting office parking area. Access will be via Sandgate Close.
- 7.10.6 Romford Station: platform five will be extended west by 18m to 205m to accommodate Crossrail trains. The island platforms three and four will be extended by 21.5m. Numbers 110-116 South Street will be demolished and replaced by a new ticket hall which will serve as an extension to the existing ticket hall.
- 7.10.7 There will be four station worksites at Romford Station. Romford Station Exchange Street Worksite will be located on Exchange Street. Romford Station Worksite North will be located off South Street and will require the demolition of numbers 110, 112, 114 and 116 and will be accessed from Havana Close. Romford Station Worksite South will be located to the south of the station with access from the bus station. Romford Station Worksite West will be located to the west of the station with access from Romford Ring Road. Footpath 123, between Jutsum's Lane and Nursery Walk situated just south of the existing tracks (spanning both route window NE8 and NE9) will be permanently diverted through the existing entrance into Beechfields Gardens down to Crow Lane where it will rejoin Nursery Walk.

Significant Residual Impacts

7.10.8 Table 7.1 (Chapter 10) summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

7.10.9 Table 7.2 (Chapter 10) summarises the cumulative impacts. There will be no cumulative impact.



7.11 Gidea Park Station and Stabling Sidings (Route Window NE10 and NE11)

Baseline

7.11.1 The area is mainly residential with some warehouses and industrial sites. Resources that have been identified to the north include: St Mary's Hare Park School and the Royal Liberty School on South Drive, Balgores natural therapy centre and a veterinary surgery on Balgores Lane, Dothan House and Evelyn Sharp House sheltered accommodation. There is a post office to the south on Station Road. Open Space is provided by Squirrel's Heath Park, and Ardleigh Green Sports ground and bowling green.

7.11.2 There are no community policies that directly affect this area.

Main Works

- 7.11.3 GEML island platforms 3 and 4 will be extended west by 22m to 205m to accommodate 10 car Crossrail trains. New Platform furniture and lighting will be provided, and minor station refurbishment works will be carried out. Gidea Park Station Worksite will be located within the station car park with access from Crossways.
- 7.11.4 The existing Gidea Park sidings will be extended north and three new track will be added to stable Crossrail trains. In total, seven sidings will be provided for Crossrail trains, each 240m in length.
- 7.11.5 The Gidea Park Sidings Worksite will be located at the site of the existing sidings to the east of Gidea Park Station. Access will be from Southend Arterial to the east. The access is a local residential road heavily parked by local residents.

Significant Residual Impacts

7.11.6 Table 7.1 (Chapter 10) summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

- 7.11.7 Table 7.2 (Chapter 10) summarises the cumulative impact assessment.
- 7.11.8 There will be a cumulative impact in NE11 during construction caused by: noise and visual impacts on large numbers of local residents either side of the stabling sidings.



7.12 Harold Wood (Route Window NE12)

Baseline

- 7.12.1 The area is mainly residential with Thames Chase Community Forest to the East. A number of community resources have been identified to the north of the railway, which include Harold Wood Hospital, medical surgeries and a post office. Resources that have been identified to the south include a residential home for the elderly, several churches and the Harold Wood War Memorial Home.
- 7.12.2 The Thames Chase Community Forest to the east is designated 'Metropolitan Green Belt' by Havering UDP (Adopted March 1993).

Main Works

7.12.3 GEML platforms 3 and 4 will be extended east by 38m to 205m to accommodate 10 car Crossrail trains. In addition, new platform furniture and lighting will be fitted and minor station refurbishment works will be carried out. Harold Wood Station Worksite will be located in the station staff car park with access from Station Road.

Significant Residual Impacts

7.12.4 Table 7.1 (Chapter 10) summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

7.12.5 Table 7.2 (Chapter 10) summarises the cumulative assessment. There will be no cumulative impacts.

7.13 LB Havering / Brentwood BC (Route Window NE13)

7.13.1 No Crossrail works will take place in this route window.

7.14 Brook Street (Route Window NE14)

7.14.1 No Crossrail works will take place in this route window.





7.15 Brentwood Station (Route Window NE15)

Baseline

- 7.15.1 The main shops and services are provided along King's Road to the north. The Essex Army Cadet Force and Sea Cadet Corps are located to the east of King's Street. The area to the south is mainly residential with a school, a church and a surgery.
- 7.15.2 The shops and services on King's Road to the north are designated 'Retail' (with various types of retail use) under the Brentwood UDP (Revised Deposit Draft 2003).

Main Works

7.15.3 GEML platforms 3 and 4 will be extended east by 21m to 205m to accommodate 10 car Crossrail trains. The Brentwood Station Worksite will be located within the station carpark with access from Alex Road.

Significant Residual Impacts

7.15.4 Table 7.1 (Chapter 10) summarises the assessment process for this route section. There will be no significant impacts.

Cumulative Impacts

7.15.5 Table 7.2 (Chapter 10) summarises the cumulative impact assessment. There will be no cumulative impact.

7.16 Thrift Wood (Route Window NE16)

7.16.1 No Crossrail works will take place in this route window.



7.17 Shenfield Station (Route Window NE17)

Baseline

- 7.17.1 The area around Shenfield Station is mainly residential with some retail uses along Hutton Road. Local community resources include a school, a post office, two surgeries and a banqueting suite.
- 7.17.2 The UDP highlights the shopping area along the south side of Hutton Road as 'shops/residential' and the north side of the road as 'shops/office'.

Main Works

7.17.3 Works include the provision of additional stabling, a new platform and alterations to the Southend and Colchester rail lines.

Stabling Sidings

- 7.17.4 Stabling Sidings: the two existing middle sidings at the east end of the station will be extended by 30m, and increased from two to three to accommodate Crossrail trains. New retaining walls and earthworks will be constructed to accommodate the revised layout. The Southend loop (connects platform five and the Southend Victoria route) and Colchester loop will be modified to accommodate the changes to the sidings. The Shenfield Sidings Worksite will be located on the station carpark and will be accessed from Hunter Avenue.
- 7.17.5 Shenfield Station: a new platform 210m long will be constructed on the north side of platform five to accommodate Crossrail trains. A number of new crossovers will be provided at the west end of the station to improve train operations. The southernmost section of the three stabling sidings will be amended to enable through running of trains. The Shenfield Station Worksite will be located to the rear of properties on Friar's Avenue and accessed through a private garage area.

Significant Temporary Residual Impacts

- 7.17.6 Table 7.1 (Chapter 10) summarises the assessment process for this route section.
- 7.17.7 There will be a significant negative temporary impact on Hunter Avenue and Crossways. HGV traffic will increase by more than 100% due to construction activity. As these streets have a low flow of HGVs, the construction traffic will cause a significant adverse impact on the amenity of the local community.

Significant Permanent Residual Impacts

7.17.8 There will also be 26 properties which may qualify for rehousing for a period of greater than three months. Due to the fact that these residents may be absent from the community for a relatively long period of time it is assumed the loss of these residents will be a permanent impact.



Cumulative Impacts

7.17.9 Table 7.2 (Chapter 10) summarises the cumulative assessment. There will be a cumulative impact on the local community caused by:

- the increase in HGV flows mentioned above;
- the loss of car parking;
- noise disruption to a large number of residents as well as to users of the library and surgery on Hutton Road and pupils and teachers at School Mount Avenue; and
- visual impacts on residents, users of the station car park and pedestrians on Hunter Avenue

7.17.10 This will also include the potential re-housing of the 35 dwellings outlined above, the effects of which will commence at the beginning of construction.

7.18 Pitsea Sidings (Route Window R1)

Baseline

7.18.1 The site is bounded to the north by open land. The elevated A13 highway passes between 15 and 130m to the north of the site on the far side of this open land. A hypermarket and residential buildings are located on the southern edge of Basildon immediately north of the highway. The area to the south is open marshland and the Pitsea land fill.

Main Works

7.18.2 A railway siding will be constructed for the unloading of excavated material from rail to road, for final delivery to the landfill site at Pitsea.

Significant Residual Impacts

7.18.3 Table 7.1 (Chapter 10) outlines the impact assessment. There will be no significant residual impact.

Cumulative Impacts

7.18.4 Table 7.2 (Chapter 10) summarises the cumulative impact assessment. There will be no cumulative impact.



Baseline and Environmental Impacts: Blackwall Way to Abbey Wood





Baseline and Environmental Impacts: Blackwall Way to Abbey Wood

8.1 Introduction

- 8.1.1 This chapter describes the construction of the south eastern route section of the scheme from the Isle of Dogs station to the Crossrail terminus at Ebbsfleet, and the temporary and permanent environmental impacts.
- 8.1.2 Crossrail will operate in tunnel to the west of Victoria Dock Portal and will serve a reconstructed surface station at Custom House. The route will then follow the existing alignment currently used by Network Rail's North London Line (NLL) through a refurbished Connnaught Tunnel to Silvertown. Crossrail will then descend a ramp to the North Woolwich portal where a new twin-bore tunnel will be constructed than will surface at Plumstead Portal, located between the existing Plumstead and Abbey Wood Stations. Abbey Wood Station will be reconstructed to allow twelve Crossrail trains per hour.

8.2 Blackwall Way and Limmo Peninsula Shafts (Route Window SE1)

Baseline

- 8.2.1 The Blackwall Way Shaft is located in a mixed warehouse/industrial area between Aspen Way and the River Thames. East India Dock and high-rise flats lie to the east with a carpark to the west. The land has approval for the construction of two housing developments (New Providence Wharf and Blackwall Yard). The Charrington Wharf development (which forms part of the New Providence Wharf development) is expected to provide 735 residential units, 42,600m2 of office space, 560m2 of retail space, a hotel, a health club and over 650m2 of community use.
- 8.2.2 The Limmo Peninsula Shaft is located on vacant land (currently being used for the DLR construction works). It lies in a triangle bordered by the River Lee, the Lower Lee Crossing and the Jubilee Line/DLR tracks. Canning Town with mainly residential uses is located to the east of the DLR.
- 8.2.3 The East India Dock Basin is designated 'Metropolitan Open Land' by Tower Hamlets UDP (Adopted December 1998). The UDP also identifies a 'Strategic Riverside Walkway' along the Thames.
- 8.2.4 The Limmo Peninsula forms part of the Royal Dock, which is designated an 'Opportunity Area' under the London Plan. The Plan promotes a framework to guide to provision of new housing and enhance the quality of the local environment. It states that Crossrail will help sustain this by encouraging further housing and economic development. The Limmo Site is identified by the Newham UDP (Adopted June 2001) as Major Opportunity Site 7 (named Thames Wharf and Limmo). The UDP promotes an Urban Framework Plan for the area with the aim of producing a high quality mixed use environment, which includes employment, residential, and leisure uses. It also falls within a 'Priority Development Node', which targets a future high quality mixed development of business, leisure and residential use. It is bordered to the west by a proposed 'Recreational Footpath' and Proposed 'Cycle Network'.



Main Works

- 8.2.5 The Blackwall Way shaft will be used as an EIP. It will consist of a 9 m diameter shaft located immediately to the south of Blackwall Way and adjacent to the Reuters Building car park and Virginia Quay Development. On the surface, a single storey building will be integrated with a boundary wall on Blackwall Way. A small area of hard standing will also be provided for emergency services and maintenance vehicles.
- 8.2.6 The Blackwall Way Worksite is located on some open land off Blackwall Way adjacent to and including part of the Reuter's Building car park and the Virginia Quay development.
- 8.2.7 The Limmo Peninsula shaft will be used as an EIP, ventilation and evacuation facility, and a principle tunnelling site. It will consist of a 25 m diameter shaft located at the southern end of the Limmo Peninsula. The surface buildings will be included within a landscaped mound and an area of hard standing for maintenance vehicles and emergency services will be provided.
- 8.2.8 The Limmo Worksite will use most of the vacant land within the Lea Triangle. It will be accessed from the Lower Lea Crossing.

Significant Residual Impacts

8.2.9 Table 8.1 (Chapter 10) summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

8.2.10 Table 8.2 (Chapter 10) summarises the cumulative impact assessment. There will be no cumulative impact.



8.3 Custom House Station (Route Window SE2)

Baseline

- 8.3.1 The site is located within the Royal Docks area which has been developed to provide the Excel Exhibition Centre, Custom House Hotel, other hotels, bars, restaurants and leisure uses. Canning Town is to the north with residential areas and a range of associated community resources including health centres, doctor's surgeries, community halls, churches, recreation grounds and schools. The main local shopping resources are provided along Freemasons Road.
- 8.3.2 The Royal Docks are designated as an 'Opportunity Area' in the London Plan. The Plan promotes a framework to guide to provision of new housing and enhance the quality of the environment. It states that Crossrail will help sustain further housing and economic development.
- 8.3.3 The Victoria Docks are designated as Major Opportunity Zone 8 in the adopted Newham UDP. The UDP designates the perimeter of the Docks as a proposed 'Cycle Network', proposed 'Recreational Footpath' and an existing 'Green Chain'. The park to the east is designated 'Green Space to be Protected'.

Main Works

- 8.3.4 The proposed works comprise the construction of the Victoria Dock portal, the reconstruction of Custom House Station, installation of OHLE and the construction of twin bore running tunnels.
- 8.3.5 The Victoria Dock portal will be located approximately 150 m east of Royal Victoria DLR station. It will be constructed on the current alignment of the North London Line (NLL). It is assumed that this will have ceased operation between North Woolwich portal and Stratford once the proposed DLR route to Stratford has been opened.
- 8.3.6 The eye of the tunnels will be located opposite 250 and 250A Victoria Dock Roa, where a ramp will be contained within a cut and cover box to the portal (opposite 251A Victoria Dock Road). From this point, Crossrail will run in a retained cut to join existing track levels immediately to the west of Custom House Station.
- 8.3.7 A new station will be provided at Custom House to serve the Royal Docks area. The existing station will be demolished (although the DLR platform will be retained). Crossrail trains will use a new island platform on the north side of the station that will be 10 m wide at the west end and 5 m wide at the east end. Canopies will be constructed for the Crossrail and DLR platforms.
- 8.3.8 Access will be provided at the west end of the station from a high level ExCel Centre walkway. The walkway will extend from the ExCel Centre across Victoria Dock Road to the site of the former Barge Public House (on the north side of the station).
- 8.3.9 The Victoria Dock / Custom House Worksite will require a large area of land from Munday Road east to Connaught Bridge. This will include the western and eastern Excel Exhibition Centre carparks and large areas of railway land. Access will be from Victoria Dock Road.



Significant Temporary Residual Impacts

- 8.3.10 Table 8.1 (Chapter 10) summarises the assessment process for this route section. There will be a significant increase in HGV traffic on Seagull Lane. This will cause a significant temporary impact on the local community.
- 8.3.11 It is likely that 21 dwellings will qualify for temporary rehousing for less then three months. The loss of these residents to the local community will be a significant temporary impact.

Significant Permanent Residual Impacts

- 8.3.12 The works will require the demolition of the Barge Hotel formerly the Barge Public House which provides bed and breakfast accommodation for the homeless. This will be a permanent significant negative impact.
- 8.3.13 It is likely that 30 dwellings may qualify for rehousing of greater than three months. Due to the fact that these residents may be absent from the community for a relatively long period the loss of these residents is considered a permanent impact on the local community.

Cumulative Impacts

- 8.3.14 Table 8.2 (Chapter 10) summarises the cumulative impact assessment.
- 8.3.15 There will be a cumulative impact during construction caused by:
 - the temporary rehousing of 21 dwellings;
 - increases in HGV traffic;
 - noise impacts on a hotel on Victoria Dock Road; and
 - impacts on the visual amenity of surrounding residents and pedestrians.
- 8.3.16 This will also include the rehousing of 30 dwellings outlined above, the effects of which will commence at the beginning of the construction period.



Picture 24: The Barge Hotel



8.4 Connaught Tunnel (Route Window SE3)

Baseline

- 8.4.1 The Connaught Tunnel worksite is located at the junction of the Royal Albert Dock and the Royal Victoria Dock. The London City Airport is to the north-east and the East London University Campus is to the southwest. The Silvertown worksite is located to the south of the tracks. St Mark's Church is to the east with industry/warehousing to the south of the worksite. There is housing to the north of the tracks, which includes two local play areas and a social club.
- 8.4.2 The Docks form part of the London Plan 'Opportunity Area' and are designated MOZ8 by the UDP. This promotes the development and growth of the Docks area. The Docks are bordered by a 'Green Chain' and proposed 'Cycle Network' and recreational footpath.

Main Works

- 8.4.3 Permanent works will consist of the alteration and refurbishment of the Connaught Tunnel to accommodate OHLE. Crossrail will use the existing Network Rail track alignment.
- 8.4.4 The Connaught Tunnel Worksite will require the use of open land above the tunnel (gravelled and paved public area) and access from Connaught Road.
- 8.4.5 The alignment of the tracks through the existing Silvertown station will be unsuitable for use by Crossrail trains. The station will therefore be demolished. Passive provision will be made for a future Crossrail Station in the event of the development of adjacent properties.
- 8.4.6 There will also be a worksite at Silvertown accessed from Albert Road. Access will also be required through the Church Yard to get to the retaining wall.

Significant Residual Impacts

8.4.7 Table 8.1 (Chapter 10) summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

8.4.8 Table 8.2 (Chapter 10) summarises the cumulative impact assessment. There will be no cumulative impact.



8.5 North Woolwich Portal and Thames Tunnel (Route Window SE4)

Baseline

- 8.5.1 The North Woolwich Portal worksite is located to the south of King George V Dock, and to the northwest of North Woolwich Station. Silvertown residential area is located to the north of the worksite. It is served by health centres on Albert Road and Manwood Street, a community centre on Kennard Street, a day centre and a police station. Green space is provided by Royal Victoria Gardens to the east.
- 8.5.2 The Warren Lane Shaft Worksite is located on open space (used as a skateboard park) on the Thames south bank. The permanent shaft will be on land that forms part of the redevelopment of the Arsenal Munitions Factory (see next route section). The area to the south of this is residential with shopping facilities provided along Powis Street and Hare Street. The area to the east is mainly light industry and storage. Services to the south include: a leisure centre on Woolwich High Street, the University of Greenwich, a fitness club and Hyed Community Hall.
- 8.5.3 The Docks area to the north forms part of Major Opportunity Area 11 (adopted Newham UDP). It is allocated for airport-related business and hotel use and identifies several potential residential sites and an associated need for associated community and supporting facilities.
- 8.5.4 Woolwich Town Centre is identified as an 'Area for Intensification' by the London Plan. It aims to help accommodate growth and promote development opportunities through higher density development to create additional homes and jobs. It is also noted as a major centre with important shopping and services with a borough wide catchment. The shopping facilities provided along Powis Street and Hare Street are designated 'Core' and 'Fringe' shopping areas by the UDP. The UDP designates 'Cycle Routes' and an 'Established River Walk' along the Thames. The green space at Warren Street is designated 'Community Open Space' by the Greenwich UDP (Second Deposit April 2004).

Main Works

- 8.5.5 The proposed works comprise the construction of: the North Woolwich portal, the twin bore Thames Tunnel, Warren Lane shaft, and the installation of OHLE equipment.
- 8.5.6 North Woolwich Portal: Crossrail will use the existing rail corridor located between Albert Road and Factory Road (currently used by the North London Line). Crossrail will descend into an open cut ramp to the portal to the east of the junction of Tate Road and Albert Road. The tunnel portal will be located between the junctions of Winifred Road and Fernhill Street with Albert Road. The tunnel eye will be located near the junction of Henley Road and Factory Road. A chamber will be constructed at the tunnel eye to receive the TBMs that will be used to construct the main Thames Tunnel from Plumstead. The works will be constructed from the North Woolwich Worksite. Sewer works will be constructed from the North Woolwich Sewer Diversion Worksite.
- 8.5.7 Warren Lane Shaft: the shaft will be located on the corner of Warren Lane and Beresford Street and will contain EIP and ventilation facilities. It will be 13.5 m in diameter. A building (10 m tall by 18 m in diameter) will be constructed on the surface to house emergency intervention and ventilation equipment. The worksite will take place on a portion of the Royal Arsenal Gardens, accessed from Warren Lane. It is currently used as a skateboard park. This will be required temporarily during the works.



Significant Residual Impacts

- 8.5.8 Table 8.1 (Chapter 10) summarises the assessment process for this route section.
- 8.5.9 The landtake of the skateboard park for approximately 4 years will be a significant temporary negative impact as there are no alternatives nearby.
- 8.5.10 There will be a significant increase in HGV numbers on Warren Lane. This will cause a temporary significant adverse impact on the local community.

Cumulative Impacts

- 8.5.11 Table 8.2 (Chapter 10) summarises the cumulative impact assessment.
- 8.5.12 There will be a cumulative impact on the local community around North Woolwich during the construction period. This will be caused by the visual amenity impacts on residents; and noise impacts on residents, St John's Church, St Mark's Church and the church community centre.



Picture 25: Royal Arsenal Gardens, skateboarding area



8.6 Arsenal Way Shaft (Route Window SE5)

Baseline

- 8.6.1 The site of the now disused Royal Arsenal munitions factory lies to the north of the proposed shaft. It has partially been redeveloped. A masterplan is currently with the local authority seeking approval for the redevelopment of the remainder of the site. The application comprises 711 residential units, up to 42,000m2 of office use, 32,000m2 D1, 13,000m2 D2 and 6482m2 B8.
- 8.6.2 Woolwich Town Centre is located to the south. This area to the south is residential and is served by community centres, a day nursery, a doctor's surgery, the Seventh Day Adventist Church, Thameside Adult Education Institute and Greenwich Community College Shopping.
- 8.6.3 Woolwich Town Centre is designated 'Core Shopping' along Powis Street and 'Fringe Shopping' along New Road, Greens End and Thomas Street by Greenwich UDP. The UDP designates Peakes Park on Greens End as 'Community Open Space'.

Main Works

- 8.6.4 The proposed works comprise the construction of the twin bore Thames Tunnel and Arsenal Way shaft.
- 8.6.5 Having passed beneath the River Thames, the twin bore tunnel will follow an alignment along the southern edge of the Royal Arsenal site towards the North Kent Line at Plumstead.
- 8.6.6 The Arsenal Way shaft will be located to the north of Plumstead Road (A206). The Arsenal Way shaft and worksite will be located at the eastern end of Woolwich Barracks car park. Access will be from Arsenal Way and egress onto Cornwallis Road.

Significant Residual Impacts

8.6.7 Table 8.1 (Chapter 10) summarises the assessment process for this route section. There will be no significant residual impacts.

Cumulative Impacts

8.6.8 Table 8.2 (Chapter 10) summarises the cumulative impact assessment. There will be no cumulative impact.



8.7 Plumstead Portal (Route Window SE6)

Baseline

- 8.7.1 The area to the north is mainly storage/warehousing and industry. To the south is Plumstead residential neighbourhood. The main shopping area is located along Plumstead High Street. There are a number of community resources, which include the Greenwich Hindu centre, Salvation Army hall, Under 5s Club and Plumstead Radical Centre. St Patrick's Catholic School and Conway Primary School. Planning permission has been granted for a site to the north of the station and east of Western Way to demolish existing buildings and redevelop to provide a purpose built 600 place Young Offenders Institute.
- 8.7.2 The area to the north of St Patrick's is designated 'Community Open Space' by the UDP and Plumstead High Street is 'Core and Fringe Shopping'.

Main Works

- 8.7.3 The proposed works comprise the construction of the twin bore Thames Tunnel, Plumstead Portal, White Hart Road Bridge, track realignment of the existing railway corridor, and the installation of OHLE equipment.
- 8.7.4 The Thames Tunnel will follow the existing alignment of the North Kent Line to the surface at Plumstead Goods Yard (east of Plumstead High Street). The tunnel eye will be located towards the south west comer of the goods yard.
- 8.7.5 A cut and cover box (approximately 100m) will be constructed from the tunnel eye to the portal. The portal will be located approximately 150 m to the west of White Hart Road. The tracks will rise to existing track level (opposite 139 Marmadon Road) in open cut.
- 8.7.6 A 21 m by 30 m chamber will be constructed at the tunnel eye, which will house the emergency escape and EIP facilities. The facilities will be housed in an approximate 20m by 25m size structure at the surface.
- 8.7.7 A new bridge will be constructed to the north of the existing structure to carry White Hart Road over Crossrail. The North Kent Line will continue to use the existing bridge.
- 8.7.8 The Plumstead Worksite West will be located on open land between Nathan Way and the Southern Outfall Sewer. It will be accessed from Nathan Way. Plumstead Worksite will occupy Plumstead Goods Yard and the adjacent timber yard to the east. The worksite will be accessed from the new highway currently being constructed to Thamesmead.
- 8.7.9 The works will require the demolition of the disused substation on White Hart Road, the timber yard on Reidhaven Road, buildings in Plumstead Goods Yard and garages to the west of Bostall Manor Way footbridge. Utilities work will be carried out from White Hart Road Cables Worksite.

Significant Residual Impacts

- 8.7.10 Table 8.1 (Chapter 10) summarises the assessment process for this route section.
- 8.7.11 The closure of White Hart Road to pedestrians for up to a year will result in a substantial diversion particularly for the users of the Asian Community Centre. This will be a significant temporary impact.

Cumulative Impacts

8.7.12 Table 8.2 (Chapter 10) summarises the cumulative impact assessment. There will be no cumulative impact.



8.8 Manor Wharf (Route Window SE6A)

Baseline

8.8.1 The area is primarily industrial, with the Belevdere Industrial Estate located to the southeast. The area to the west of the Belevdere Substation (on Norman Road) is designated Metropolitan Open Land and a Nature Conservation Site in the London Borough of Bexley UDP (April 2004.

Main Works

8.8.2 Manor Wharf (on the site of the former Belvedere power station) will be refurbished. The wharf will be used as a barge loading facility to transfer excavated material onto barges for disposal at Landfill in Rainham, Essex. The excavated material will comprise excavated material, removed from Plumstead portal and the intervention shafts at Arsenal Way and Warren Lane.

Significant Residual Impacts

- 8.8.3 Table 8.1 (Chapter 10) summarises the impact assessment.
- 8.8.4 The works will require the closure of the public footpath along the Thames for approximately a week. This will be a significant negative impact.

Cumulative Impact

8.8.5 Table 8.2 (Chapter 10) summarises the cumulative impact assessment. There will be no cumulative impact.



8.9 Church Manorway Bridge (Route Window SE7)

Baseline

- 8.9.1 The works are in a residential area. Shops are provided along Mcleod Road. Abbey Wood Secondary School, Eynsham Drive Sports Centre and St Thomas Beckett Catholic Primary School are located to the north of the alignment, with allotments and a sports ground to the south.
- 8.9.2 The allotments and a sports ground to the south are designated 'Community Open Space' and the shops on McLeod Road a 'Neighbourhood Parade' in the Greenwich UDP.

Main Works

8.9.3 The proposed works comprise:

- track realignment;
- the provision of two additional tracks within the existing railway corridor;
- the construction of new footbridges at Church Manorway and Bostall Manorway;
- the strengthening of Eynsham Drive Bridge;
- a 2 m high noise barrier on both sides of the railway; and
- installation of OHLE equipment.
- 8.9.4 The main construction site will be located on open land between the tracks and sports grounds west of Church Manorway (Church Manorway North Worksite). Church Manorway Worksite South is located on railway land to the south of the tracks (both worksites are accessed from Church Manor Way). Eynsham Drive Worksites north and south use open land adjacent to the railway. The northern site will be accessed from Mottisford Road. Bostall Manorway Bridge works also require highway and railway land to the north and the derelict council garages to south of the tracks.

Significant Residual Impacts

- 8.9.5 Table 8.1 (Chapter 10) summarises the assessment process for this route section.
- 8.9.6 Church Manorway footbridge will be closed for a week. This will significantly affect pedestrian access including access to nearby schools. This will be a significant negative temporary impact on the local community.

Cumulative Impacts

8.9.7 Table 8.2 (Chapter 10) summarises the cumulative impact assessment. There will be a cumulative temporary impact on the local community caused by the closure of the footbridge, noise and visual impacts on local residents.



8.10 Abbey Wood Station (Route Window SE8)

Baseline

- 8.10.1 The area is mainly residential with several green spaces. There is a small industrial estate to the north of the station and a single commercial building belonging to British Telecom overlooking the southern side of the station. Boxgrove School and a doctor's surgery are located to the north of the tracks (on Felixstowe Road), and Parkway Primary School is to the east. The following resources are to the south: a family and resources centre on Abbey Grove, St Bennet's Church, St Michael's Church, a post office and several community halls. The main open space is provided by Abbey Wood to the south-east. The main shopping facilities are provided on Manor Way.
- 8.10.2 The shops on Manor Way are designated a 'Neighbourhood Parade' by the Greenwich UDP and the Playing Fields to the rear of Abbeywood Road are designated as 'Community Open Space'.

Main Works

- 8.10.3 The proposed works within the route window comprise the reconstruction of Abbey Wood Station, track realignment, the provision of two additional tracks within the existing railway corridor, and the installation of OHLE equipment.
- 8.10.4 The station will be rebuilt to accommodate terminating Crossrail services, and will include the partial rebuilding of Harrow Manor Way Bridge to accommodate the new platforms. The existing platforms will be extended to the east and west, and will become islands with new tracks constructed to the north and south.
- 8.10.5 The existing station building will be demolished and replaced by a new station building and concourse constructed on a raft structure built above the tracks. It will be accessed at street level from Harrow Manorway Bridge, approximately 5 m above platform level. A pair of escalators, a lift and a set of stairs will link the concourse to each platform and Gayton Road to the south of the station. A lift and a set of stairs will be provided to Felixstowe Road on the north side.
- 8.10.6 The North Kent Line will be reconstructed to accommodate the two new Crossrail tracks in the centre and the rebuilt station at Abbey Wood. The Dartford and London bound tracks will be moved to the north and south respectively. To the east of Abbey Wood station, Crossrail trains will reverse and head back to Central London. Further east at a point 200 m to the east of Parkway Primary School, the line will revert to the current double track alignment.
- 8.10.7 The works will be constructed from three sites. Harrow Manorway Worksite North will be located on local authority carparking to the north of the station. It will be accessed from Rushdene. Abbey Wood Station Worksite South will be located on railway carparking to the south of the station and will be accessed from Wilton Road. Fendyke Road Worksite will be situated to the East of the existing railway line off Fendyke Road.



Significant Residual Impacts

8.10.8 Table 8.1 (Chapter 10) summarises the impact assessment. It is likely that 34 dwellings may qualify for rehousing for more than three months. Due to the fact that these residents may be absent from the community for a relatively long period, the loss of these residents is considered a permanent impact on the local community.

Cumulative Impacts

8.10.9 Table 8.2 (Chapter 10) summarises the cumulative impact assessment.

8.10.10 There will be a cumulative impact on the local community caused by:

- noise impacts on residents and a church;
- visual impacts around the worksite;
- disruption to bus services;
- loss of carparking spaces; and
- disruption to train services.

8.10.11 This will include the potential rehousing of 34 dwellings outlined above, the effects of which will commence at the beginning of the construction period.



Impact on Accessiblity





Impact on Accessibility

9.1 Introduction

- 9.1.1 National policy objectives (e.g., OPDM Social Exclusion Unit Making the Connections: Final Report on Transport and Social Exclusion 2003) promote social inclusion through transport planning. They seek to improve accessibility for socially excluded areas and individuals to those opportunities that are likely to have the most impact on life chances, including employment, education, health and retail facilities.
- 9.1.2 The socio economic assessment has assessed the impact of Crossrail on employment and the potential take up of jobs by those resident in deprived areas and currently unemployed or economically inactive.
- 9.1.3 The community impact assessment is concerned with the impact of Crossrail on accessibility changes to community services and facilities that would contribute to social inclusion objectives.
- 9.1.4 Based on the DfT's draft "Guidance on Accessibility Planning in Local Transport Plans" the following core criteria against which to monitor changes in accessibility and the impact on social inclusion were adapted for the purposes of this assessment:
 - % of 18-24 year olds within 30 and 60 minutes of a further education establishment by public transport;
 - % of a) households b) households without access to a car within 30 and 60 minutes of a hospital by public
 - % of a) households; b) households without access to a car within 15 and 30 minutes of a major centre by public transport
- 9.1.5 TfL's transport model CAPITAL was used to model accessibility changes with and without Crossrail. Data from the 2001 census were used to capture the demographic and socio-economic characteristics of the population within these isochrones. This analysis was applied to changes in accessibility to universities, hospitals and major centres along the route.

9.2 Access to Education

Baseline

9.2.1 Table 9.1 below summarises universities that are located within walking distance of Crossrail stations, and the functions based at those sites.

TABLE 9.1: Universities served by Crossrail

Universities	Function	Location	Nearest crossrail Station
University College London	Various undergraduate and postgraduate courses, including engineering, clinical/medical science, and neurology. Various research centres including human genetics, neuroscience and transport.	Bloomsbury	Tottenham Court Road
Queen Mary College, University of London	Queen Mary's School of Medicine and Dentistry. Hall of residence, lecture theatres and several research departments of the School.	Charterhouse Square, Farringdon	Farringdon
Queen Mary College, University of London	Queen Mary's School of Medicine and Dentistry. Teaching campus. Extensive medical and dental library	Next to the Royal London Hospital, Whitechapel	Whitechapel
Queen Mary College, University of London	Queen Mary's School of Medicine and Dentistry. Teaching campus.	Within St Bartholomew's Hospital.	Farringdon
London Metropolitan University	Various undergraduate and postgraduate courses, including accountancy, economics, humanities, social science, art/media and	Moorgate & Aldgate East	Liverpool Street/ Whitechapel
City University	Postgraduate and undergraduate courses in radiography. Postgraduate and undergraduate courses in nursing & midwifery	Department of Radiography (Charterhouse Square), St Bartholomew's School of Nursing & Midwifery, St Bartholomew's West Smithfield.	Farringdon
City University	Links to Queen Mary College as above.	St Bartholomew's School of Nursing & Midwifery, Royal London Hospital	Whitechapel
Thames Valley University	Various undergraduate and postgraduate courses, including music & media, law, business, nursing and tourism	Ealing	Ealing Broadway
Thames Valley University	Various undergraduate and postgraduate courses, including nursing, business management, music & media, and computing.	Slough	Slough
Guildhall School of Music & Drama	Undergraduate and postgraduate courses in music and drama programmes.	Barbican	Farringdon
University of Westminster	Various undergraduate and postgraduate courses, including biosciences, computer science, health, social science and law.	Cavendish and Regent Campuses, Regent Street and New Cavendish Street	Bond Street



Impact

- 9.2.2 Table 9.2 shows that the introduction of Crossrail increases the number of young people who live within 30 and 60 minutes of the educational establishments (see Table 9.1).
- 9.2.3 Overall there will be a 10% increase in the number of 18 to 24 year olds living within 30 minutes of these universities and a 6% increase in the living within 60 minutes of the universities. Given the increasing number of students who live with their parents while at university this improved accessibility will assist them accessing higher education facilities.

TABLE 9.2: percentage increase in the number of 18-24 years old living within 30 and 60 minutes of universities served by crossrail.

	Number of 18-24 year olds within 60 min of University	Number of 18-24 year olds within 60 min of University
University	% change on Base	% change on Base
Queen Mary St Barts	18%	8%
Queen Mary St Barts City University Farringdon	18%	8%
Queen Mary	17%	8%
Thames Valley University Slough	17%	-16%
Royal London City University Whitechapel	10%	5%
Metropolitan University	9%	4%
Guildhall Barbican	8%	5%
Thames Valley University Ealing	5%	19%
Westminster University	2%	4%
University College London	0%	3%

9.2.4 The reduced catchment for the Thames Valley University Slough campus, is due to the replacement of some limited or non-stop Great Western services to Paddington with all stopping Crossrail services.



9.3 Access to Health Facilities

Baseline

9.3.1 Table 9.3 outlines the regional hospitals on the Crossrail route and the main services they provide.

TABLE 9.3: regional hospitals served by crossrail stations

Regional Hospital	Function	Location	Nearest crossrail Station
Royal London Hospital	Together the RLH and St Bartholomew's provide: District general hospital (DGH) for Tower Hamlets and the City, providing secondary level services to our local population. Tertiary centre for north east London, providing complex specialist services for the sector and beyond, notably Essex. Provider of innovative and leading-edge clinical services to London and the UK. RLH departments include the Helicopter Emergency Centre. Coronary Care Unit Dental Hospital, neurology, and orthopaedics. Proposals for new hospital include London's leading trauma and emergency care centre, Europe's largest renal service and the capital's second biggest paediatric service, provided within a dedicated Women and Children's Unit.	Whitechapel	Whitechapel
St Bartholomew's Hospital	As above. St Bartholomew's departments include a breast cancer unit, cardiology, ear nose & throat, and endocrinology. Planning permission to redevelop the hospital, to include a Cancer and Cardiac Centre of Excellence.	Farringdon	Farringdon
Ealing Hospital	A district general hospital providing acute services for patients in the West London area.	Ealing	Hanwell
Goodmayes Hospital	Mental health.	Goodmayes	Goodmayes
Old Church Hospital	Serving Barking, Havering and Redbridge, departments include A&E, dermatology, ENT, neurology, and paediatrics. The Cancer Centre at Barts and The London together with Oldchurch Hospital form the East London Regional Cancer Centre.	Romford	Romford
Harold Wood Hospital	Serving Barking, Havering and Redbridge, departments include dermatology, ENT, neurology, and paediatrics. May be closing as part of plans to expand Oldchurch hospital.	Harold Wood	Harold Wood
St Mary's Hospital	St Mary's provides a wide range of specialist and acute services to people including bone marrow transplant, cancer treatment, cardiology, neurology, orthopaedics, renal and transplant unit, and HIV. Proposals for a Paddington Health Campus (PHC) will create a world class clinical, research and teaching centre for northwest London. It will bring together on one site the teaching hospital, St Mary's NHS Trust, with the Royal Brompton & Harefield NHS Trust and the medical faculty of Imperial College London including the National Heart and Lung Institute.	Paddington	Paddington



Impact

9.3.2 The introduction of Crossrail increases the number of households within 30 and 60 minutes of the health establishments by an average of 9% and 7% respectively. Increases to individual hospitals are shown in Table 9.4. This improved accessibility benefits patients, their friends and relatives as well as potential employees. There is no material difference in accessibility for those with or without a car.

TABLE 9.4: percentage increase in the number of households living within 30 and 60 minutes of regional hospitals served by crossrail

	Number of households within 30 min	Number of households without a car within 30 min	Number of households within 60 min	Number of households without a car within 60 min
Regional Hospital	% change on Base	% change on Base	% change on Base	% change on Base
Queen Mary St Barts	21%	19%	8%	6%
Oldchurch Romford	8%	11%	1%	0%
Harold Wood	10%	10%	4%	6%
Goodmayes	9%	9%	10%	12%
Royal London	11%	9%	5%	3%
Paddington	1%	2%	5%	4%
Ealing	0%	0%	12%	17%



Major Centres 9.4

Baseline

9.4.1 There are a number of metropolitan and regional centres (as defined by the London Plan) served by Crossrail. These include Romford, Ilford, Ealing, Southall, and Stratford. Outside London major centres served by Crossrail include Slough, Brentwood and Maidenhead.

Impact

9.4.2 Crossrail gives an 11% increase in the number of households without access to a car within the 30 minutes of the centres listed. This will significantly improve access to key shops, services, and entertainment facilities for this population. The improvements occur on each branch of the system, with the largest improvements in accessibility accruing to Southall and Slough. The reduced catchment for Maidenhead is due to the replacement of some limited or non-stop Great Western services to Paddington with all stopping Crossrail services.

TABLE 9.5: percentage increase in the number of households living within 30 minutes of major centres

	Number of households within 30 min	Number of households without a car within 30 min
Major Centre	% change on Base	% change on Base
Southall	28%	30%
Slough	34%	25%
Romford	9%	11%
llford	8%	11%
Stratford	7%	6%
Ealing	2%	0%
Brentwood	0%	0%
Maidenhead	-4%	-16%

9.4.3 In summary, Crossrail will significantly improve accessibility to key educational establishments, hospitals and major centres along its route, and will therefore make a significant contribution to the achievement of social inclusion objectives. These benefits accrue to establishments located in central London and in the outer areas.



Summary of Principal Findings



Table 5.1 Assessment of Significant Community Impacts for the West (Maidenhead to Westbourne Park)

Residual significant	impact				Significant negative impact	Significant negative impact	Significant negative impact	Significant negative impact	Not significant	Not significant	Not significant	Not significant
Conflict with policy						Ealing UDP (Adopted October 2004), Policy 3.4: The loss of Public or Community Open Space [] will not be permitted unless the development is directly related to the open space use of the land [].						LB of Ealing UDP (Adopted October 2004) - Policy 7.3.*In all designaled frontage any loss of shopping floorspace (A1), which serves the interests of shoppers, visitors and residents, will not normally be permitted*
Availability of Within reasonable Conflict with policy	native facility distance				N	п/а	Yes (playing fields + North Acton playing fields)		Yes (the Broadway & Ealing shopping centre)	Yes (the Broadway & Ealing shopping centre)	Yes (the Broadway & Ealing shopping centre)	Yes (the Broadway & Ealing shopping centre)
					Yes	n/a	Yes		Yes	Yes	Yes	Yes
Catchment					Small	Small	Small		Small	Small	Small	Small
Level of use						Σ	for		Daily	Daily	Daily	Daily
Permanent impact		No impact	No impact	No impact	total landtake for up to five years	Grassed area partial landtake approx 30% for up to five years	sports pitches totall landtake for up to five years		Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition
Temp impact		No impact	No impact	No impact				More than 100% increase in HGV traffic				
acts for									=	≡	=	E
Prim Prim					ens,	London	u.	toad, Traffic	ondon Retail	ondon Retail	ondon Retail	ondon Retail
Address					south of Alwyn Gardens, London	south of Noel Road, London W3	Lowfield road, London	Noel Road, Lynton Road, Churchill Gardens	1-9 The Broadway, London W5	1-9 The Broadway, London W5	1-9 The Broadway, Landon W5	1-9 The Broadway, London W5
Table 3.1 Assessment of Significant Community in pacts for the West (Waldenmeau to Westbounder Frank). Route window Name of use Address Primary use Temp impact Permanent impact Level of use		ove		топ	Line Allotment gardens ard	Open space of West Acton Primary School	Sports Ground		W5: Ealing Broadway Bette Davis Ltd Station	Budgens Stares	Cards Galore	Clarks Ltd
Route window		W1: Ladbroke Grove	W2: Canal Way Junction	W3: Old Oak Common Depot	W4: Acton Main Line Station & Acton Yard				W5: Ealing Broad Station			

Not significant	Not significant	Not significant	Not significant	ss Not significant e	Significant negative impact	s. Not significant	Not significant	Not significant		Not significant	Not significant Not significant Not significant	Not significant Significant negative impact of closing 3 dental surgeries out of
				Yes (rest of the park) Ealing UDP (Adopted October 2004), Policy 3.4: "The loss Not significant of Public or Community Open Space I] will not be permitted unless the development is directly related to the open space use of the land [].		Yes (remainder of Ealing UDP (Adopted October 2004), Policy 3.4: "The loss Not significant Churchfield recreation for Ublic or Community Open Space [] will not be permitted unless the development is directly related to the open space use of the land []"						
Yes (the Broadway & Ealing shopping centre)	Yes (the Broadway & Ealing shopping centre)	Yes (the Broadway & Ealing shopping centre)	-	Yes (rest of the park)		Yes (remainder of Churchfield recreation grounds)	_	Yes (South Road bridge)			yes	Yes (Coldharbour Lane & the High Street)
Yes	Yes	Yes		Yes		Yes		Yes			yes	Yes
Small	Small	Small		Small		Small		Small			Medium	Small Small Small
Daily	Daily	Daily		Daily & seasonal				Medium			Medium	Daily Daily Daily
Permanent acquisition	Permanent acquisition	Permanent acquisition	2 new kiosks	\$					No impact		Permanent acquisition Permanent acquisition Permanent acquisition	Permanent acquisition Permanent acquisition Permanent acquisition
	10			Partial lanctiake of approx 20% of green to use as a work site for approx. 2 yrs 3 mths	More than 100% increase in HGV traffic	small area of open space from Churchfield Gardens for construction for approx 1 yr 2 mths	5 re-housed for 2 mths 1 re-housed for 2 mths	minor alterations to bridge supports only no closure	No impact	Construction of new span to north side of bridge temporary bridge provided some weekend closures to pedestrians possible		
Retail	Café, Restaurants	Dry cleaners	Transport	Open space	Traffic	Open space	Housing Housing	Access		n Road access	retail retail retail	retail Dental surgery Dental surgery Dental surgery
1-9 The Broadway, London W5	1-9 The Broadway, London W5	1-9 The Broadway, London Dry cleaners W5	The Broadway, London	Haven Green, Ealing Broadway, London W5	Manor Road, Drayton Green Traffic Road, Drayton Road	Churchfield Gardens Worksite	2 Campbell Road Fern Bank, Golden Manor	Merrick Road, London		Slation Road, Hayes, London Road access	107 Station Approach 109 Station Approach 111 Station Approach	113 Station Approach 115 Station Approach 115 Station Approach 115 Station Approach
Holland & Barratt Retail Ltd	Starbucks Coffee	Sketchley Ltd	Ealing Broadway new station	Haven Green	00	W7: Hanwell Station Open space	Dwellings Dwelling	station Footbridge	est	d Station Road bridge ion	Platterplus	B Stern Complete Dental Care Insurance A Fleishman
					W6: West Ealing Station	W7: Hanwell St		W8: Southall Station	W9: Southall West Sidings	W10: Hayes and Harlington Station		

15 in Hayes, and a dental technician	Not significant Not significant Not significant Not significant	Not significant	Significant negative impact	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant		Potential significant beneficial impact	Not significant
								Yes (Bentinck Road)				
No	Yes No No	Yes		Yes	8			Yes (Benti				
Yes	Yes Yes Yes	Yes		Yes	Yes			Yes				
Medium	Small Small Small	Small		ians Small clists ur	118 pedestrians Small and 36 cyclists over 12 hours			Small				
Daily	Daily Daily Daily Daily	Daily		t 9 pedestrians fore and 11 cyclists in a 12hour s. period				Daily	nd to onal		ے م	
Permanent acquisition	Permanent acquisition Permanent acquisition Permanent acquisition Permanent acquisition	Permanent acquisition	Landtake	Replaced with a cycle / fool 9 pedestrians bridge. New bridge built before and 11 cyclists the old one is demolished. In a 12hour Possible week-end closures. period	Replacement of the bridge so no permanent Impact	Permanent acquisition	Permanent acquisition	Permanent acquisition	A new station will be built and the existing one converted to retail use resulting in additional shops		potential for new canalside footpath on the south bank of the Grand Union Canal from Horton Bridge to the station	
					construction of new off-tine Replacement of the bibliggs short wend and ohight no permanent impact closures required with 1.25km diversion			TV, video & radio servicing		the pedestrian subway is to remain open so no impact		Land take for utilities work
Dental technicians	Travel agents Party goods Retail Hair & Beauty Salon	Retail	Open space	pedestrian and vehicular access	Foot & cycle bridge	Vacant	Vacant	Retail		Transport	Recreation	car park
117 Station Approach	119-123 Station Approach 119-123 Station Approach 127 Station Approach 129 Station Approach	131 Station Approach	south of the tracks	Stockley Road, London	Horton Bridge Road, West Drayton, London	Unit 1, Station Approach, London	Unit 2, Station Approach, London	Unit 3-4, Station Approach, London			West Drayton	Weirside Gardens, West Drayton
Rhone Dentures	Travel & Tours Anywhere Giggles Bain's Children's Wear Bain's Beauty	Best Mart	ver Allotments	W12 Kingston Lane & Old Stockley Road Bridge Old Stockley Road Bridges	Kingston Lane Bridge	Station shop	Station shop	Sound & Vision Electronics	Station shops	West Drayton station	Grand Union Canal	Car park
			W11: Stockley Flyover Allotments	W12 Kingston Lane Old Stockley Road Bridges		W13 West Drayton Station						

Not significant	Not significant	Not significant	Not significant	South Buckinghamshire District Local Plan, Adopted 1999, Policy GB1 "Within the Green Belt, planning permission will Not significant not be granted for development other than for the change of creen building or land."	Not significant	Significant beneficial impact	Significant negative impact	Yes (rest of the park) South Buckinghamshire District Local Plan, Adopted 1999. Not significant Policy GBT 'Within the Green Belt, planning permission will not be granted for development other than for the change of use of existing building or land []*	Not significant
	Yes (golf course still operational)	Yes (golf course still operational)	Yes		Yes		Ŷ.	Yes (rest of the park)	
	Yes	Yes	Yes		Yes		Yes	Yes	
ians clists our			Small		Small		Small	Medium	
340 pedestrians and 133 cyclists over a 12 hour period		Small landtake for new masts	Гом	Small landtake of open land for road realignment	Low	Realignment of Thomey Lane South & new junction with cement works access road which would benefit boal residents	Bridge removed and no replacement		
s Short weekend with short wend and o'right closures - pedestrians will be diverted to road bridge	Sport & recreation Small landtake for utilities work		open land and trees used as work sile for the new bridge for 9 months (small proportion of total area of open space)		open land and trees used as work site for 9 months (very small proportion of total area of open space)			open land used for construction and utilities works for 7 months (very small proportion of the open space area)	Construction of an extra span requiring some wend and o'night closures
Pedestrian acces	Sport & recreation		Open land				Pedestrian and occasional horse access this bridge is a permissive footpath but connects two footpaths	Open land	Road bridge
Thomey Lane, Iver, London Pedestrian access Short weekend with short wend and orbight closures pedestrians will be diverted to additional probabilities will be diverted bridge.	Thorney Mill, Iver		East of the access road to Thomley, Iver		North of the tracks at Iver station	East of Iver station	Richings Park, Iver	Richings Park, Iver	Market Lane, Iver
Thorney Lane footbridge	Thorney Hil Golf Course		Open land		Open land	Iver	Dog Kennel Bridge	Richings Park	Chequers Bridge
W14 Iver Station							W15 Dog Kennel Footbridge		

Not significant		Significant negative impact	Not significant	Not significant provided the festival is not affected		Significant negative Impact		Not significant	Not significant	Not significant
Yes (rest of the park) South Buckinghamshire District Local Plan, Adopted 1999, Not significant Pollcy GB1 "Within the Green Beit, planning permission will not be granted for development other than for the change of use of existing building or land []*			Sbugh Local Plan, adopted March 2004, Policy OSC1: "Development upon any land identified as public open space [, will not be permitted unless; a) the development	is arithmy to the Use of the Special specific, in the see of the open space can be retained and enhanced by the development [], o) the open space is replaced by new provision which is at least comparable in terms of size, facilities and amenity and is conveniently located for current users of the open space.						
Yes (rest of the park)		St Mary's' Road Bridge	Yes (rest of the play area + Middle Green + playing flets on Langley Road)	Yes (rest of the play area + Middle Green)		ON				Yes
Yes		Yes	Yes	Yes		Yes				Yes
Medium		664 pedestrians Medium and 77 cyclists over 12 hour period	Small	Small						Small
open land, shrubs and trees landlake used as work site for 7-8 months (small proportion of the total area of open space)	No impact No impact	Pedestrian & cycle 3 week closure for bridge bridge (part of the works pedestrians and cycless National Cycle diverted over St Mary's Road Network Route Bridge (0.5km diversion) 61)	15:20% of the park used as a work site for 8 months	Open space used approx 20% of the park used for the annual as a worksite for 4 months canal festival in September	New bridge operational before the existing one is closed for works so no impact	5 weeks closure for bridge reconstruction. 0.8km diversion for pedestrians and cyclists over SI Mary's Road Bridge	Minor works. No impact	Permanent acquisition of garages	Potential disruption to taxi operation	Permanent acquisition
Open land		Pedestrian & cyc bridge (part of th National Cycle Network Route 61)	park green space	Open space used for the amual canal festival in September	road bridge	road bridge	road bridge	Housing	Taxi	Café, restaurant
North of the tracks, near Chequers Bridge		Alderbury Road, Langley	SI Marys Road, Langley	Nursery Lane, Langley	St Mary's Road, Langley	Middlegreen Road, Langley road bridge	Uxbridge road, Langley	Maryside, St Mary's Road, London	railway terrace	Railway terrace
Open land	W16 Langley Station	W17 Middlegreen Trenches bridge Road, SI Mary's Road & Langley Trenches Bridges	Springate Field	Bloom Park	SI Marys Road bridge	Middlegreen Brüge	Uxbridge Road bridge	Dwelings	W18 Slough Station Slough Taxi Federation	The Lemon Tree Limited

		Not significant		Not significant	Not significant	Significant negative impact					Not significant	Not significant	Not significant	Not significant
				Yes (rest of the park)		S.					Yes (town centre)	Yes (town centre)	Yes (town centre)	Yes (town centre)
				Yes		ss ,					Yes	Yes	Yes	Yes
		s and is hour		Small		irfans yclists our					Small	Small	Small	Small
		1047 pedestrians and 173 cyclists over a 12 hour period				252 pedestrians and 101 cyclists over 12 hour period					Daily	Daily	Daily	Daily
will be d 12months. efore the old ed. So no	d track No impact ct	in for No impact I track ans and ver road	No impact	the work ths	d track No impact	c closed 5 m diversion Bridge	No impact	No impact	No impact	No impact	buildings,	buildings,	buildings,	buildings,
Temporary bridge will be provided for around 12months. It will be opened before the old bridge is demolfshed. So no impact.	Parapet works and track lowering, no impact	Closure for 1 month for parapet works and track lowering, pedestitans and cyclists diverted over road bridge	No impact	Small landtake for the work site approx 3 months	Parapet works and track lowering	Pedestrian access closed 5 months with 1.35km diversion over Dover Road Bridge	No impact	No impact	No impact	No impact	Personal services Access, car park, buildings, works and land	Access, car park, buildings, works and land	Access, car park, buildings, works and land	Access, car park, buildings, works and land
road bridge				Open space	road bridge	road bridge					Personal services	Cafés, Restaurants	Retail	Retail
Wexham Road, Sbugh					Dover Road, Slough	Leigh Road, Slough					Station Approach	Station Approach	Station Approach	Station Approach
Wexham Road bridge	William Street Bridge	Stoke Poges Lane footbridge	Farnham Road bridge	Salt Hill Pleasure Grounds	Dover Road bridge	Leigh Road bridge					Body Image	CaféTee	Cullen-Burns Associates Ltd	Station Klosk
		W19 Sloke Poges Lane Bridge			W20 Dover Road & Leigh Road Bridges		W21 Burnham Station	W22 Lent Rise	W23 Taplow Station	W24 Maidenhead Railway Bridge	W25 Maidenhead Station			

demolish garden wall to flats south of the road	Extension of the pedestrian subway should not prevent access during works so no impact.
Housing	Transport
Shoppenhangers Road, Maidenhead	King Street, Maidenhead
Dwellings	Station

Table 5.2 - Assessment of cumulative impacts in the Western Route Section (Maidenhead to Westbourne Park)

			DIRECT	DIRECT IMPACTS	NOISE		CONSTRUCTION TRAFFIC	OPERATIONAL TRAFFIC	SIA	VISUAL	
		Ū	Cinnificant reciding	le pioci tu	Cimificant rocidual	residual	Clanificant racidual	Clanificant recidinal	Cinnificant rocidual	Cimificant rocidual	LY LY
Route window Name of use / receptors	Address	Primary use c	construction impact	t impact	significant residual temporary impact	impact	temporary impact		impact	t impact	CUMULATIVE
W1: Ladbroke Grove			No impact	No impact		_	No impact	No impact	No impact	No impact	ON
1 dwelling	81 Southern Row Resi	Residential			Significant negative impact						
W2: Canal Way			No impact	No impact	No impact	No impact	No impact	No impact	No impact	No impact	ON
W3: Old Oak Common Depot			No impact	No impact	No impact	No impact	No impact	No impact	No impact	No impact	ON
W4: Acton Main Albiment gardens Line Station & Acton Yard	south of Alwyn Gardens, London Alloi	Allotments	Significant negative impact	Significant negative impact							YES
Open space of West Acton Primary School	Noel Road, London Recr educ	Recreation & seducation	Significant negative impact	Significant negative impact							
Sports ground	Lowfield Road, London Recr	Recreation	Significant negative impact	Significant negative impact							
Residents	Noel Road, London Roa	Road traffic (Significant negative impact (HGV traffic)								
44 dwelings 33 dwelings 12 dwelings 7 dwelings	Acton House, Friary Road Hour Pegasus Court, Friary Road 110 6 Friary Park Court, Friary Hour 222 Horn Lane Com	Housing Housing Housing Commercial /			Significant negative impact Significant negative impact Significant negative impact						
36 dwellings 59 dwellings 24 dwellings	9, 49 Churchill Gardens Hou: 65, 117, 151 Lynion Road Hou: Oakley House, Oakley Avenue Hou:	Housing Housing Housing			Significant negative impact Significant negative impact Significant negative impact						
Rall users	Actor Mainline station Tran	Transport					Significant negative impact (station closure from Paddington blockade)	Significant beneficial impact (shorter journey times)			
Residents	Approx. 25 dwellings on 14-62 Hou: Lowfield Road	Housing							Significant negative impact	Significant negative impact	
W5: Ealing Broadway Station		۷	No impact	No impact							YES
10 dwellings 6 dwellings 9 dwellings 13 dwellings 1 dwelling	45a Haven Green 4 Madeley Road (Surgery) 20 Madeley Road 10,18-19 The Mail The Feathers PH - E Fazade Com	Housing / health Housing / Housing Housing Commercial / residential	Jential		Significant negative impact Significant negative impact Significant negative impact Significant negative impact Significant negative impact						

			DIRE	CT IMPACTS	NOISE		CONSTRUCTION TRAFFIC	OPERATIONAL TRAFFIC	>	VISUAL	
			Significant residual	Significant residual		residual permanent	_	-	Significant residual	Significant residual	CUMULATIVE
Notice williagow Natice of use / receptors	College Court	Car Parking	consulacion impact	pennanen inpaci			Significant adverse impact	permanent impact	temporary impact	permanent mpact	IMPACIS
Train passengers	Ealing Broadway station	Transport						Significant beneficial impact (shorter journey times)			
Residents Residents Residents	1-34 Greenlaw Court, London Housing 20-24 Haven Green, London Housing 1-22 College Court, Hamilton Road Housing	Housing Housing d Housing							Significant negative impact Significant negative impact Significant negative impact		
W6: West Ealing Residents Station	Manor Road, Drayton Green Road, Road traffic Drayton Road	d, Road traffic	Significant negative impact (HGV traffic)								NO
Train passengers	West Ealing station	Transport			No impact	No impact		Significant beneficial impact (shorter journey times)			
Dwellings Dwellings	11-26 Manor Road, London 1-3 Argyle Road, London	Housing							Significant negative impact Significant negative impact	Significant negative impact Significant negative impact	
			No impact	No impact			No impact				ON
5 dwellings	2 Campbell Road	Housing			Significant negative impact (re- housing)						
1 dwelling	Fern Bank, Golden Manor	Housing			Significant negative impact (rehousing)						
Train passengers	Hanwell station	Transport						Significant beneficial impact (shorter journey times)			
Dwellings Dwellings Dwellings	2-8, 22, 24, 35 Campbell Road 1, 2, 3-5 Golden Manor Fenr Bank, Golden Manor	Housing Housing							Significant negative impact Significant negative impact Significant negative impact		
,			No impact	No impact							NO
16 dwellings 30 dwellings 8 dwellings	11,14,23 Milan Road The Limes 5 Hortus Road	Housing Housing Housing			Significant negative impact Significant negative impact Significant negative impact						
Train passengers	Southall station	Transport						Significant beneficial impact (shorter journey times)			
						_				_	

				DIREC	DIRECT IMPACTS	NOISE		CONSTRUCTION TRAFFIC	OPERATIONAL TRAFFIC	 	VISUAL	
Route window	Route window Name of use / recentors	Aridrass Prim	Primary	Significant residual	Significant residual	Significant residual	residual permanent imnact	Significant residual	Significant residual	Significant residual	Significant residual	CUMULATIVE
	Residents	ately 50 dwellings on Park fest), Avenue Road and id, London				sondin (modus		sandur (in odus)		Significant negative impact		
	Residents	Approximately 10 dwellings on The Housing Crescent	using							Significant negative impact		
	Residents	Approximately 20 dwellings in Hous Martins Court and Maypole Court, London	Housing							Significant negative impact		
W9: Southall West Sidings				No impact	No impact			No impact	No impact	No impact	No impact	NO
W10: Hayes and Harlington Station	W10. Hayes and 3 dental surgeries & 1 dental Harlington technician Station	115 & 117 Station Approach, Health London		Significant negative impact	Significant negative impact							NO
						No impact	No impact					
	Car users	Hayes & Harlington station						Signficant adverse impact (loss of 120 spaces)				
	Train passengers	Hayes & Harlington stallon Trans	Transport						Significant beneficial impact (shorter journey times)			
	Residents	Approximately 10 dwellings, Brunel Housing House, London	nsing							Significant negative impact		
W11: Stockley Flyover Track Realignment	Allotments	south of the railtracks		Significant negative impact	Significant negative impact	No impact	No impact	No impact	No impact			ON
	Residents	Approx. 20 dwellings Hous	Housing							Significant negative impact (assuming mitigation proposed by experts is accepted. It would reduce impacts from 80 dwellings to 20)	po Q	
W12 Kingston Lane & Old Stockley Road Bridges				No impact	No impact							ON
	4 dwellings 2 dwellings 13 dwellings 42 dwellings	125 Mulberry Crescent Hous 28 Emden Close House Knowles Close same as 13020 Hous 29,37 Ruffle Close House	Housing Housing Housing			Significant negative impact Significant negative impact Significant negative impact Significant negative impact						
								No impact	No impact			

	CUMULATIVE IMPACTS		YES						NO					DOG KENNEL BRIDGE: NO	CHECKERS	
VISUAL	Significant residual permanent impact							Significant negative impact								
IX	Significant residual temporary impact	Significant negative impact					Significant negative impact				Significant negative impact	Significant negative impact	Significant negative impact			
OPERATIONAL TRAFFIC	Significant residual permanent impact					Significant beneficial impact (shorter journey times)				Significant beneficial impact (shorter journey times)						No impact
CONSTRUCTION TRAFFIC	Significant residual temporary impact									No impact						No impact
	residual permanent impact									No impact						
NOISE	Significant residual temporary impact			Significant negative impact Significant negative impact Significant negative impact	Significant negative impact Significant negative impact					No impact					Significant negative impact	
CT IMPACTS	Significant residual permanent impact		Potential significant beneficial impact (new footpath)						Significant beneficial impact					Significant negative impact (bridge removed)		
DIREC	Significant residual construction impact													Significant negative impact (bridge removed)		
	Primary use	Housing	Access	Housing Housing Housing	Housing Housing	Transport	Housing	Housing	Transport	Transport	Housing	Housing	Access	Access		
	Address	Approx. 85 dwellings on Ruffle Close / Lantern Way, Warwick Road, Holly Close, Emden Close and Mulberry Crescent	Grand Union Canal from West Drayton station to Horton Bridge	63, 81 Warwick Road 72-75 Knowles Close 76-81 Knowles Close	1-18 High Street 65-74 Tavistock Road	West Drayton station	Approx 85 dwellings on Weirside Gardens, Humber Close, Knowles Close and Warwick Road	Approx. 25 dwellings on Warwick Road	South of Iver station - new road access	lver station	Between 40-50 dwellings on Bathurst Walk, Buckfiel Court, Wellesley Avenue and Wellesley Court	Approx. 25 dwellings on Thorney Lane	Thorney Lane	Dog Kennel Footbridge	Farmstead / Kennels	
	Route window Name of use / receptors	Residents	Pedestrians T	21 dwellings 7 dwellings 4 dwellings	22 dwellings 28 dwellings	Train passengers	Residents	Residents	W14 Iver Station Iver residents	Train passengers	Residents	Residents	Pedestrians & road users	W15 Dog Kennel Pedestrians Footbridge	2 properties	
	Route window		W13 West Drayton Station						W14 Iver Static					W15 Dog Kenn Footbridge		

	CUMULATIVE					ON	ON .					ON				
VISUAL	Significant residual permanent impact					No impact										
>	Significant residual temporary impact	Significant negative impact	Significant negative impact	Significant negative impact Significant negative impact	Significant negative impact	No impact					Significant negative impact Significant negative impact					Significant negative impact
OPERATIONAL TRAFFIC	Significant residual permanent impact					Significant beneficial impact (shorter journey times)				No impact					Significant beneficial impact (shorter journey times)	
CONSTRUCTION TRAFFIC	Significant residual temporary impact					No impact				No impact				Signficant adverse impact (loss of 125 spaces - approx 50% of total)		
	residual permanent impact					No impact			No impact							
NOISE	Significant residual temporary impact					No impact			No impact				Significant negative impact Significant negative impact Significant negative impact Significant negative impact Significant negative impact			
DIRECT IMPACTS	Significant residual permanent impact					No impact						No impact				
DIRECT	Significant residual construction impact					No impact	Significant negative impact	Significant negative impact				No impact				
	Primary use	Housing	Housing	Housing	Access	Transport	Access	Access			Housing Housing		Housing Housing Housing Housing	Car parking	Transport	: Housing
	Address	Around 60-70 dwellings in Maplin Park and Southwold Spur	11 mobile homes at Mansion Caravan Park	Chequers Bridge Cottages Market Lane	footpath north and south of Dog Kennel Bridge	Langley station	Trenches Bridge, Aldbury Road, Langley	Middlegreen Road Bridge			5 dwellings on Cherry Avenue 1 dwelling on Middlegreen Road		16 to 24 Stanley Cottages 31-41, 61 Grays Place 11 to 6 Noble Court 8,14,26 Richmond Crescent 19 Cotonial Road	Slough station carpark and office car park	Slough station	10 dwellings in Richmond Crescent Housing
	Route window Name of use / receptors	Residents	Residents	Residents Pedestrians	Pedestrians	Train passengers	Pedestrians	Pedestrians			Residents Residents		16 dwellings 26 dwellings 47 dwellings 13 dwellings 9 dwellings	Slough station & Offices	Train passengers	Residents
	Route window					W16 Langley	W17 Middlegreen Road, St Mary's Road & Trenches Bridges					W18 Slough Station				

				DIRECT	DIRECT IMPACTS	NOISE		CONSTRUCTION TRAFFIC	OPERATIONAL TRAFFIC		VISUAL	
	Route window Name of use / receptors	Address	Primary use	Significant residual construction impact	nt residual nt impact	Significant residual temporary impact	residual permanent impact		Significant residual permanent impact	Significant residual temporary impact	Significant residual permanent impact	CUMULATIVE
W19 Stoke Poges Lane Bridge						No impact	No impact			No impact	No impact	ON
	Offices	office car park - south worksite	Car parking					Signficant adverse impact (loss of 40 spaces)				
W20 Dover Roak & Leigh Road Bridges	W20 Dover Road Leigh Road Bridge & Leigh Road Bridges	Leigh Road	Transport	Significant negative impact (closure of pedestrian access)								ON
	Lainh Dood Bridge	courthan workeita	O er norking			No impact	No impact	the forming the second				
	геідп коад Бладе	Soundin Worksite	Cal parking					olgnikanı adverse impacı (loss of parking)				
									Significant beneficial impact (replacement of narrow bridge with 2 lanes & footway)			
										No impact	No impact	
W21 Burnham Station				No impact	No impact							ON O
	Train passengers	Burnham station	Transport			No impact	No impact		Significant beneficial impact (shorter journey times)			
	Residents	Approx. 25 properties in Sandringham Court, London	Housing							Significant negative impact		
W22 Lent Rise				No impact	No impact	No impact	No impact	No impact	No impact	No impact	No impact	ON
W23 Taplow Station	Train passengers	Taplow Station		No impact	No impact	No impact	No impact	No impact	Significant beneficial impact (shorter journey times)			ON
W24 Maindenhead Railway Bridge				No impact	No impact	No impact	No impact	No impact	No impact	No impact	No impact	ON
W25 Maidenhead Station				No impact	No impact	No impact	No impact					ON

	CUMULATIVE		
VISUAL	Significant residual permanent impact		5.5
	Significant residual temporary impact		Significant negative impact Significant negative impact
OPERATIONAL TRAFFIC	Significant residual Significant residual temporary impact permanent impact	ct Significant adverse imapct (loss of car parking)	
CONSTRUCTION TRAFFIC	Significant residual temporary impact	Significant adverse imapci. Significant adverse (loss of car parking) imapci (loss of car parking)	
	residual permanent impact		
NOISE	Significant residual temporary impact		
DIRECT IMPACTS	Significant residual permanent impact		
JIQ	Significant residual construction impact		
	Address Primary use	Station Approach, Maldenhead	Approx. 25 properties in Courtlands, Housing Approx. 5 dwellings in Ludlow Houseng House, Malderhead
	Route window Name of use / receptors Address	Matlenhead stallon	Residents Residents

Table 6.1 - Assessment of Community Impacts in the Central Route Section (Royal Oak Portal to Pudding Mill Lane)

Residual impacts	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	gnificant	Not significant	Not significant	Not significant	Not significant	Not significant		Significant negative impact.	Significant negative impact. There will be a significant impact on the use of the training ring due to construction works.
Resid			Not si	Not si			harm Not si	5		Not si	Not si	Not si		Signifiimpac	Signifi impac signifii use of to cor
Conflict with policy	Emerging UDP - Policy 13a (D) "Public open snace [] will be protected from development	that would detract from their mainly green and open character"			City of Westminster Pre-Inquiry UDP - August	2002, Policy SS7 C) "Proposals for uses within A2 and A3 or other non A1 town centre uses at oround level in the Secondary Frontages will be	permitted where: - the proposal does not harm Not significant the vitality or viability, or character or function of	[] the frontage, [], - the proposal would not involve the loss of an A1 unit last used as a	local convenience shop []"						
Interview/ key issues														See Appendix 1	
Within reasonable ly distance	Yes (main park)	Yes (main park)	Yes (alternative entrance)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		rVa	9
Availability of Within re alternative facility distance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		s)	<u>8</u>
Catchment	Small	Small	Large	Small	Small	Small	Small	Small	Small	Small	Small	Small		Large (from local residents to overseas and domestic visitors)	
Level of use	Low (not part of main recreational area)	Low (not part of main recreational area)	High	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	High		7am-5pm daily, all year round	
Permanent impact		Small loss of grass but remaining Low (not part of main area will be landscaped post recreational area) construction		Permanent acquisition & demolition	Permanent acquisition & demolition	Permanent acquisition & floorspace retained	Permanent acquisition & floorspace retained				Relocation	Permanent acquisition			
Temp impact	loss of grassed area for approx 4 years		Closure of entrance via Eastbourne Terrace for approx 5 years										Service access to shops reprovided therefore no impact	Diversion of the north ride for 4 years	Noise from construction activity for 4 years
Primary use	unkempt grass area under Westway		Pedestrian access	Retail	Retail	Internet café	Bureau de change	Retail	Café, restaurant	Retail	Retail	Retail	Retail	W2 Horse-riding school	Horse-riding school
Address	Bourne Terrace		Departure Road	191 Praed Street	195 Praed Street	197 Praed Street	199 Praed St	19 Spring Street	20 Spring Street	21 Spring Street	22 Spring Street	WH Smith	Other shops	Hyde Park Rding Stables - 63 Barhurst Mews, London W2 Horse-riding School	Hyde Park Riding Stables - Immediately east of the Training ring construction site
Name of use	Westbourne Green		Public access to Paddington station	Fotosprint	Leluu Accessories	Reload Internet	Mercury Change International	Desai Newsagent	Tutto Fresco	Lolita Ltd	Sandro Sandwich Bar	Paddington station	Paddington station	Hyde Park Riding Stabi North ride	Hyde Park Rkding Stabl Training ring
Route window	C1, Royal Oak Portal		C2, Paddington Station											C3, Hyde Park and Park Lane shafts Park and Park Lane shafts Park Lane sha	

Not significant provided that measures are taking to make the crossing of Bayswater Road safe for riders and horses.	No, given the size of the park the small loss of open space is not deemed significant	Not significant	Not significant	Significant negative impact	Not significant	Significant negalive impact		Significant negative impact			Significant negative impact	
	Emerging UDP, Policy Env 13a (D) (see above) + Policy Env 13a (B) "Planning permission will	not be granted for development on or under Metropolitan Open Land unless the development is essential or ancillary to maintaining or enhancing that land as valuable	oben space	-		UDP, Policy Soc 3 - The London College of Fashion is noted as a "further education institution of local, national and international importance which has no contribute to Westimister's role as a world and cabillative.						
See Appendix 1						see Appendx 1						
	n/a	Yes	n/a			9						
	Yes (whole park)		Yes (whole park)									
	Yes (Yes	Yes (v			onal						
	Large	Large	Large			Large (rational and No 25% international students)						
		High				Daily until 10pm and saturdays.	building and it is open to the public and exhibits artists work, not only students					
	Low	Ĭ	Small loss of open space for the Low vent shaft		No impact	Sa Permanent acquisition sa sa a a	bu the art	10 re-housed for 11 mths	2 re-housed for 11 mths	2 re-housed for 11 mths 1 re-housed for 11 mths	? re-housed for 11 mths	4 re-housed for 11 mths
The Stables will have to come in to the park wia Clarendon Gate for 4 years	loss of grassed area for construction use for 4years, grass reinstated post construction	Diversion of footpaths south of the North ride	0, >	More than 100% increase in HGV traffic for 5 mths	No impact			-	2		5	4
Access to the park	Perimeter open space, road, horse ride and footpaths			Transport	Central	Teaching facilities for the college and headquarters for the University of the Arts		Housing	Housing	Housing Housing	Housing	Housing
	Per spa hors foot			Tra	Cer	fort factor of the fort fort factor fort fort fort fort fort fort fort f						
S. Clarendon Gate, Bays Road, London	Hyde Park, London			North Carriage Drive	Park Lane, London	65 Davies Street, London WIK Teaching facilities 5DA rot the London Fashion College and headquarters for the University of the Arts		25 - 47 Cavendish Flats (S)	23 St Anselm's Place (N)	25 St Anselm's Place (N) 27 St Anselm's Place (N)	29 - 55 Hanover Flats, Gilbert Street	48 - 60 Weighhouse Street
Hyde Park Riding Stables - Clarendon Gale, Bayswater Access to the park Road, London	Hyde Park			North Carriage Drive	Park Lane	University of Arts & London Fashion College		Dwellings	Dwellings	Dwellings Dwellings	Dwellings	Dwellings
						C4, Bond Street Davies Street worksite						

		Significant negative impact	Significant negative impact	Not significant				Significant negative community impact from closing of 3 clubs			Not significant Not significant	Not significant	Not significant
				UDP, Policy Des 12 (B), 10.93 - The City	council will resist any development of land forming part of the Royal Parks or public and private square" (also see Policy Env 13a (B))								
				Yes, Groxvenor Square and Cavendish Square			see Appendix 1						
				Yes, (Yes		Yes	Yes	Yes	Yes	Yes
				Yes			Yes		Yes	Yes	Yes	Yes	Yes
				Small			Large	ilty.	Large	e Large	Medium	Small	Small
				High daily use			Daily, 10pm-4am	Can hold 2,000-3,000 people. Core place for London's gay community. One of the largest venues in the UK.	Daily	700 capacity - Daily use	Daily Daily	Daily	Daily
3 re-housed for 11 mlhs	Pedestrian access is maintained during the works so no impact.	More than 100% increase in HGV traffic for 5 mths	More than 100% increase in HGV traffic for 5 mths	Loss of around 25% of open space & the level of construction activity is likely to be very disruptive for the users of the space for approx 4 years.	Pedestrian access to Hanover Square from Tentrachen Street & Brooke Street is maintained so no impact		Permanent acquisition		Permanent acquisition	Permanent acquisition	Permanent acquisition Permanent acquisition	Permanent acquisition	Permanent acquisition
Housing	Access	Transport	Transport	Open space			Nightclub & concert venue		Nightclub & concert venue	Nightclub	Bookmaker Retail	Hairdresser	Café, restaurant
1 - 5 Weighhouse Street (E)	Weighhouse Street, London	Davies Street, St Anselm's Place, Brook Street	Weighouse Street, Duke Street, Davies Street	Terlerden Street, London			157 Charing Cross Road, London W1G 9BR		165 Charing Cross Road, London W1G 9BR	148 Charing Cross Road, London	143 Charing Cross Rd 147-149 Charing Cross Road	148 Charing Cross Road, London	155 Charing Cross Road, London WC2H 0EE
Dwelings	Weighhouse Street	Residents	Residents	Hanover Square Hanover Square workslie		C5, Tottenham Court Road Station	Tottenham Court Astoria Road worksite		The MeanFiddler	Rouge	William Hill Office	Mr Toppers	Benjys

Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Significant negative	Significant negative	Not significant	Significant negative (not reported as alr covered by traffic assessment)
				Policy SS4 (A) - "Development schemes in existing shopping frontages or in areas that	would benefit from more shops or services must Not significant include an appropriate number of shop-type	premises at street lever Policy SS4 (B) - "Development schemes should Not significant provide at least the same amount of retail	floorspace"							_				
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes		
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Small	Medium	Medium	Small	Medium	Medium	Small	Medium	Medium	Medium	Medium	Small	Medium	Small	Medium	Medium	Medium/high		
Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	sition Daily	Daily	Daily	Daily	Daily	Daily	Daily, 24 hrs a day	Daily		
Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition Daily	Permanent acquisition	Permanent acquisition	Permanent acquisition		Permanent acquisition	Permanent acquisition	Re-housed for 11 months		
													Re-housed temporarily				4 grout shafts installed but pedestrian access and the use of the square is maintained.	There will be considerable difficulties regarding the management of pedestrian circulation during the works with pavement narrowing, diversions etc.
Café, restaurant	Bureau de change	Lingerie) Retail	Retail	Café, restaurant	Bureau de change	D Retail in electronic goods	Bureau de change	D Retail - Lingerie	Café, restaurant	ר Retail	Commercial / residential	Nightclub	Leisure	Accommodation for the homeless	Open space	
157 Charing Gross Road, London W1G 9BR	157-165 Charing Cross Road	167 Charing Cross Road, London WC2	1-1a Oxford Street	7 Oxford Street, London W1D 2DF	9-15 Oxford Street, London W1D 2DQ	9-15 Oxford Street, London W1D 2DQ	9-15 Oxford Street, London W1D 2DQ	91 Oxford Street, London W1D Retail in 2HA electroni	93 Oxford Street	95 Oxford Street, London W1D Retail - Lingerie	101, Oxford Street, London W1D 2LY	1-6 Falconberg Court, London Retail	6 Oxford Street	5-6 Falconberg Court, London Nightclub	Centre Point, New Oxford Street, London WC1A 1DD	Diadem Court, London	Soho Square, London	SI Gles Circus, London
Chopstick Noodle Bar	Euromoney Exchange	Harmony	SAKS	The Link	Clarks	Riccardo's Snack Bar	Cambio Bureau de change	Gultronics	Eurochange	Ann Summers	Café Nero	Waterstones	Tottenham Public House 6 Oxford Street	Ghetto Nightclub	Centre Point Snooker Club	West End Hostel	Soho Square	Pedestrian circulation

Significant negative impact

Significant negative impact

Significant negative impact (not reported as already covered by traffic assessment)

Significant beneficial impact (not reported as already covered by traffic assessment)

Dean Street worksite

Cosure of the north west entrance to the underground, widening of station forecourt at Charing Coss, pedestrianisation of Andrew Borde Street and improvement of entrance at CentrePoint.

Not significant	Not significant	Not significant	Policy SS4 (A) - "Development schemes in Not significant existing changing frontages or in sease that	would benefit from more shops or services must Not significant include an appropriate number of shop-type	premness at street lever Policy SS4 (B) - 'Development schemes should Not significant provide at least the same amount of retail Not significant floorspare'	. Not significant	Not sgnificant	Sgnificant regative in	·	Not significant		Not significant	
Yes	Yes	Yes	Yes	Yes	Yes Ves	Yes	Yes			Yes			
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			Yes			
850 pedestrians between 7-10am	Daily Medium	Daily Medium	Daily Small	Daily Small	Daily Small Daily Medium	Daily Medium	Daily Medium			371 pedestrians between 7-10am			
	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition Permanent acquisition	Permanent acquisition				
Severance of pedestrian access for 5 years										Severance of pedestrian access for 5 years	Closed during utilities work but pedestrian access maintained so no impact	No access to Great Chapel Street from Sheraton Street or Carlisle Street	Access is maintained during works so no impact
Access	Bar (grd + base)	Retail	Café, restaurant	Pub	Pub / Café, restaurant) Retail	Café, restaurant	Housing Housing	Housing	Access	Access	Access	Health
Sutton Row, London	93 Dean Street & 9 Diadem Court, London	94 Dean Street, London W1D Retail 3TA	95 Dean Street	96 Dean Street, London W1D Pub 3TD	97-99 Dean Street, London W1V Café, restaurant 5RA	102 Dean Street, London W1D Retail 3TQ	3-4 Great Chapel Street, London	3-4 Diadem Court 9 Diadem Court & 93 Dean Street, London	The Bath House, 96 Dean Street, London	Fareham Street, London	Fareham Street and Dean Street	Great Chapel Street	Great Chapel Street
Pedestrians	Push	Flying Records	Red Veg Ltd	The Bath House (pub)	Couch Public House Bella Napoli	Donelli (shoes)	Tal Buffet	4 dwellings 5 dwellings	1 dwelling	Pedestrians	Pedestrians	Pedestrians	NHS Medical Centre

Significant negative impact

Not significant	Significant negative impact	Significant negative impact	Significant negative impact	Significant negative impact		Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant
2	S	S	S	S		2	2	N	2	N	2	2	N	N	2
		see Appendix 1				Yes (Storm Flowers, Baldwin Gardens)			Yes (GM Potler, 07 Dental Practice, Barbican Dental Care)						
Yes		No				Yes (Storn Baldwin G.	Yes	Yes	Yes (GM Potter, 07 Dental Practice, Barbican Dental Ca	Yes	Yes (Ladbrokes, 7 Yes Goswell Road ECIM, William Hill, St John's Street)	Yes	Yes	Yes	Yes
inly Yes s &		No				Yes	Yes	Yes	Yes	Yes	Yes (Ladbrokes, 7 N Goswell Road EC1M (William Hill, St John's Street)	Yes	Yes	Yes	Yes
Medium (mainly local workers & students)		Large				ıpm Medium	Small	Small	npm Medium	Small	Medium	Small	Small	o- Small	Small
Daily	lats	Day and evening				Mon-Fri 7.30am-7.30pm Medium	Daily	Daily	Mon-Fri 9.00am-5.30pm Medium	Daily	Daily	Daily	Daily	Mon-Fri, 12-3pm & 6- 11pm / Sat, 6-9pm	Daily
Permanent acquisition	Permanent acquisition of 9 flats	Permanent acquisition	ମ ୧୯ ଅ	ie ei in St		Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition
			More than 100% increase in HGV traffic for 3.5 months	More than 100% increase in HGV traffic for 3.5 months			ŧ	ŧ		ŧ		ŧ	ŧ	ŧ	ŧ
Pub	Housing	Teaching and Student Union offices	Transport	Transport		Retail	Café, restaurant	Café, restaurant	Dental surgery	Café, restaurant	Bookmaker	Café, restaurant	Café, restaurant	Café, restaurant	Café, restaurant
8-10 Southampton Row, London WC1B 4AE	8-10 Southampton Row, London WC1B 4AE	Central SI Martins College Catton Streel, London WC1 of Art and Design	Fisher Street, Southampton Row, Procter Street	Catton Street, Fisher Street, Procter Street		2a-12 Farringdon Road, London	2b Farringdon Road, EC1M 3HP	2a-12 Farringdon Road, London		2a-12 Farringdon Road, London	2a-12 Farringdon Road, London	2a-12 Farringdon Road, London	2a-12 Farringdon Road, London	2a-12 Farringdon Road, London	2a-12 Farringdon Road, London
₫ The lvy House	Dwellings	Central St Martins Colleg of Art and Design	Residents	Residents		Western Ticket Hall Farringdon Flowers	Best Café	Benjy's	Whitecross Dental Care Ltd	Kentucky Fried Chicken	Willam Hill	Starbucks	McColl's	Raj Tandoori	McDonald's
Fisher Street shaft					C6, Farringdon station	Western Ticket H									

Not significant	Significant positive impact	Not significant	Significant negative impact	Not significant	Not significant	Not significant	Not significant		Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	Not significant	d Significant negative impact busion (but on going discussions are seeking to miligate this
																	UDP, Policy Rec 4 - To resist the loss and encourage the provision of recreational and sport actilities* UDP, Policy Rec 5 - "to encourage the inclusion of recreational facilities in developments
9.			er budget hotel (£20 a night, £93 a more week)														See Appendix 1
Yes (Charterhouse Square)	n/a		No (there are other hotels but much more expensive)	Yes	Yes	Yes			Yes	Yes	Yes	No	Yes	No No	Yes	Yes	2
Yes	n/a		Yes	Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Small	n/a	Small	Medium / High	Small	Small	Small			Small	Small	Small	Small	Small	Small	Small		/ Medium (mainy the City and Ea London) in
Daily	High	Mon-Fri	Daily, around 40 rooms	Daily	Daily	Daily			Daily	Daily	Daily	Daily	Daily	Daily	Daily	7,656 pedestrians between 7-10am	50 members + high daily Medlum (mainly use by non-members the City and East open from 4pm on week. London) egye and all day all the weekend from 1st week in April to last week in September
	Pedestrianisation of the street	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition		Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition	Permanent acquisition		
Small city square. The level of construction with benches and activity and traffic is likely to be very disruptive for the users of the space for approx 4 years.		=		ŧ	=				ŧ	F						Closure for construction and utilities work	Bowling club and Loss of bowling green & club rooms storage space for approx 4 years and 8 months
Small city squa with benches a trees	Road	Café, restaurant	Hotel	Café, restaurant	Café, restaurant	Bar	Housing		Café, restaurant	Café, restaurant	Retail	Retail	Pub	Retail	Retail	Access	Bowling club an
	Cowcross Street, London EC1M	4 Lindsey Street, EC1A 9HP	4 Lindsey Street, EC1A 9HP	33-35 Charterhouse Square	36-37 Charterhouse Square	38 Charterhouse Square	3 Hayne Street, London		12 Moorfields London EC2 Y9AA	14 Moorfields London EC2 Y9AA	17 Moorfields London EC2 Y9AG	91-93 Moorgate London EC2 M6SJ	91-93 Moorgate London EC2 M6SJ	95 Moorgate London EC2 M6SL	105 Moorgate, EC2M 6SL	Moorfields & Fore Street	EC2M 7AB
Westsmitfield garden	Cowcross Street	Smithfield Tandoori	Lindsey Hotel	Café Gulsman	Bar Bombay	Charterhouse Bar	1 dwelling		Benjys	Birley Sandwiches	Boots Plc	Davy's of London (Wine Merchants)	The Bishop of Norwich	Oddbins Limited	Snappy Snaps	Pedestrians	Cito
		Eastern Ticket Hall						C7, Liverpool Street station	Western Ticket Hall								Finsbury Circus worksite

ımpacı)	Significant negative impact		Not significant	Significant negative impact	Significant negative impact	Not significant		Not significant	Not significant		Significant negative impact	Significant negative impact
especially where such facilities are to be open to the public[]"	UDP, Policy Ræ. 1 - "to resist the loss of existing open space unless, where relocation is appropriate, adsquate provision for replacement is made".											
	As wel as being the largest open space in the City, Finsbury Circus, provides an array of Teatilities; drinking fountiain, bandsland with outdoor concerts every summer, a Pavillion with a bar and restaurant, the gardener's Portacabin. See Appendix 1	Educational trips to the park are planned to start next year.	Forms part of the pavilion									
	<u>9</u>		Yes			Yes	Yes	Yes	Yes			
	. Yes		Yes			Yes	Yes	Yes	Yes			
on week y at the m 1st last week	Daily and all year round Small (manily local Yes by office workers, schods workers and and local residents. residents)		Medium			Medium / low	Low	Small				
Open from 4pm on week days and all day at the week-ends / from 1st week in April to last week in September	Daily and ail year ro by office workers, so and local residents.		Daily			Daily	Daily	e Daily	High			
						Permanent acquisition	Permanent acquisition	a flowershop and newsagent are Daily being rebcated				
	Loss of open space for approx 4 years and 8 months		Loss of the Pavillion and wine bar both reinstated	More than 100% increase in HGV traffice for 7 months	More than 100% increase in HGV traffice for 7 months				Closure for 5 years		More than 100% increase in HGV traffic over 11 mths	More than 100% increase in HGV traffic over 11 mths
	grass, trees, benches and band stand		Restaurant	Transport	Transport	Café, restaurant	Pub	Transport	Access		Transport	Transport
	Firsbury Circus, London EC2M 7AB		Finsbury Circus, London EC2M 7AB	Circus Place, Finsbury Circus, Transport London Wall	Finsbury Circus	22 Liverpool Street, London EC2M 7PD	73 Old Broad Street London EC2M1QT	Liverpool Street, London	Liverpool Street		Greatorex Street, Old Montague Street, Hanbury Street	Hanbury Street, Greatorex Street, Spital Street
	Firshuy Crous		Pavilon Wine Bar	Residents	Residents	Eastern Ticket Hall Tiffinbites	Lord Aberconway Public House	Liverpool Street station	Pedestrians	C8, Whitechapel Sation	Hanbury Street work Residents	Residents

Significant negative impact	Significant negative impact	Significant negative impact	Not significant	Significant negative impact	Not significant	Not significant		Not significant			Significant negative impact	
										see Apendix 1		
			Yes		Yes (Safeway & Iceland)	Ø.		Yes		n/a	n/a	n/a
			Yes		Yes	ON.		Yes		n/a if the	n/a	n/a
					Mon-Sat 8am-10pm, Sun Medium 11am-5pm	Small		Mon-Fri Zan-9pm, Sal- Medlum Sun Ram-6pm		Medium (catchment of the school)		
					Mon-Sat 8a 11am-5pm	Daily	ents not in	Mon-Fri 7a Sun 8am-6	50	High	Medium	High
		18 re-housed over 3 mths 2 re-housed over 3 mths		8 re-housed for 5 mths 8 re-housed for 8 mths 1 re-housed for 13 mths			Car parking spaces for residents will be reprovided (although not in the same spot) so no impact		Staff car park reprovided after construction so no impact	12 car parking spaces gained		
More than 100% increase in HGV traffic over 11 mths	More than 100% increase in HGV traffic over 11 mths		Landtake		Loss of around 50% of the 300 car parking spaces for approx. 4 yrs 6 mths	Loss of 20 car parking spaces for approx. 4 yrs 6 mths		Car park for users Loss of staff parking spaces & staff of the sport & storage facility for approx, centre 4 yrs 6 miths		The loss of 33 car parking spaces, reprovided before the works start	Loss of open amphitheatre and garden area, 750sqm i.e. 34% of total	Loss of playground space, 1,100 sqm i.e. 17% of total
t, Transport	Transport	Housing Housing	Open space	Housing Housing Housing	Retail	Car park for residents		Car park for use & staff of the spo centre		Education		
Spital Street, Woodseer Street, Transport Buxton Street	Buxton Street, Spital Street, Vallance Road	51, 61, 65 Princelet Street 66 Hanbury Street	Fakruddin Street / Vallance Road	Weaver House Weaver House Fakruddin Street	Cambridge Heath Road, London E1 5SD	333-335 Whitechapel Road		Durward Street		Brady Sirest, London E1 5DJ Education		
Residents	Residents	Dwellings Dwellings	Grassed area	Dwellings Dwellings Dwellings	Sainsbury	Car park		Sports centre		Swanley School		
			Pedley Street worksi Grassed area		Whitechapel worksite							

Not significant	Not significant	Not significant	Significant negative impact	Significant negative impact	Significant negative impact	Significant negative impact
		<u>8</u>				
		Yes				
		Small / medium				
		Tuesday-Sunday, 10.30am - 5pm				
	Depending on scheme chosen, there will either be no permanent loss of playground space or a net gain of around 1,900sqm					
Demolition of caretaker's house. Assuming the school opts for re-provision, the new accommodation will be in place before the old one is demolshed so no impact.	U # 2 6	Noise levels may be disruptive but will not affected the function of the farm	More than 100% increase in HGV traffic over 3 months	More than 100% increase in HGV traffic over 7 months	More than 100% increase in HGV traffic over 7 months	10 re-housed for 1 mth 1 re-housed for 2 mths
		Recreation & education	Transport	Transport	Transport	Housing
		Weaver Street, London	Durward Street, Brady Street, Transport Vallance Road	Brady Street, Whitechapel Road, Durward Street	Brady Street, Durward Street, Transport Merceron Street	57-71, 75 Durward Street Housing 1 - 4 Kempton Court, London Housing
		Spitafields City Farm	Residents	Residents	Residents	Dwellngs Dwellngs

Alternative scenarios for Whitechapel station would have the same community impacts

Significant regative impact. The whole park is large but as it is a very borg and are the safety of	Not significant	Not significant	Significant negative impact	Not significant	Not significant	Significant negative impact	Not significant	Significant (it changes the function of the farm to small animals only)	_	Not significant	Significant negative impact
Mile End Park is designated as Metropolitan Open Land which means it's a "straegically important open space" and that it "receives the same presumption against development as green belt land (cf. UDP).	_		UDP, Env 26 - "Development on land designated as Publicy Accessible Open Space will only be permitted if the development is	ancillary to a use already taking place on the PAOS, and there is a demonstrable need for development that cannot reasonably be satisfied elsewhere.							
					Yes (rest of the park)						Part of SI Helen's Church, only Christian place of worship on the Isle of Dogs.
SS Y	Yes	Yes	No.	Yes	Yes (resto	8	Yes	<u>8</u>			2
Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	o _N			Yes
Snall / medium	Small / medium	Small / medium	Small	Small	Small			Medium			Low
Hgh	Гом	Low / medium	Daily		Loss of some open space for the Daily vent shafts		Permanent severance	Hgh	Noise may be disruptive but will not affect the function of the farm	Rehoused for 15 months	Daily
Loss of open space for about 26 months	Closure	Severance	Green space and Loss of the astrolurf sports astro tur ground for approx 4 years 4 months	Footpaths Severance for approx. 4 yrs adjacent to sports 4 mths pitch	Po Po	Severance for approx. 4 yrs 4 mths	Pe	Loss of grazing area at Worcester House	No DO	Re	Relocation because of closure of North Dock
green space	Entrance to the park	Footpath	Green space an astro turf	Footpaths adjacent to spor pitch		Access		City farm		Residential	. Place of worship
Grove Road, London	Grove Road, London	Mile End Park, London	Redmans Road, London E1			Stepney Green		Stepney High Street, London City farm E1 3DG		Regents Canal	West India Dock, Isle of Dogs Place of worship. Relocation because of closure of North Dock
Mile End Park	Entrance to the park	Footpath	Stepney Green			Garden Street		Stepping Stones Farm		dwelling	Si Peter's barge
Conveyor corridor	ш	ш.	C9, Slepney Green Slepney Green Shaft	•				<u></u>		C10, Lowell Street 1 dwelling Shaft	C11, Isle of Dogs SI Peter's barge station

		Significant negative impact	Not significant	Significant negative impact	Significant negative impact	Not significant	is Significani negalive impact	Not significant	Significant negative impact
	The North Dock, Blackwall Basin and Poplar Basin are designated Water Protection Areas and Sites of Nature Conservation Importance in Tower Hamlet Draft UDP (March 2004)				UDP, HSG 16 - The Council will maintain existing provision of facilities for occupation by Travellers"	Mile End Park is designated as Metropolian	Open Land which, according to the UDP, means it's a "strategically important open space" and that it "receives the same presumption against development as green belt land.		
The barge hosts lunchline services on Wednesday lunchlines, early morning prayers and mitiation courses to christianity.	ugh berths see Appendix 1 locks)	ough berths see Appendix 1 nocks)	docks - erways)		See Appendix 1			_	
	No (there are ever No (not enough berths see Appendix 1 (ewer berths along in nearby docks) the Thanes)	No (there are ever No (not enough berths see Appendix 1 fewer berths along in nearby docks) the Thames)	Yes (ather docks - Yes (ather docks - British Waterways) British Waterways)	Yes No	n/a n/a	Yes Yes	n/a n/a		Yes No
s around	Medium / high	Medlum / high	Medium	Low	n/a	Low/ Medium	n/a		
The barge seals around 150 people	Ндп	Hgh	Medum	300+ per day	sf	Medium	ed on N/a so no		<50 pedestrians per day
	The closure of the north dock will mean the relocation of around 20 large vessels used for residential purposes for approx 4 yrs	The closure of the north dock will mean the reboration of around 90 vessels used for recreational and residential purposes for approx 4 yrs	Some of the outdoor events might not be able to carry on during the works	Pedestran bridge Closed for up to 4 years None	Relocation of 19 dwellings	Small loss of open space for 3 yrs 10 mths	Loss of one football pitch for The pitch will be re-instaled on approx 3 yrs 10 mitrs competion of the works so no impact	1 re-housed for 5 mths	Severance for approx 18 mths
	Mooring place	Mooring place	Leisure	Pedestrian brid	3 Residential & rading site	Green space		t Housing	15 Footpath
	Isle of Dogs	Isle of Dogs	Isle of Dogs	Isle of Dogs	Eleanor Street, London E3 4NP	Burdett Road		156-182 Wager Street	C13, Pudding Mill City Mills River footpath Heron Industrial Estate, E15 Footpath Portal
	Blackwall Basin marina	Poplar Dock marina	West India Dock	Great Wharf Bridge	CT2, Mile End and Travellers' caravan park Eleanor Street Shafts	Mile End Park		Dwelling	City Mills River footpath
					C12, Mile End and Eleanor Street Shafts				C13, Pudding Mill Portal

Sgnificant negative impact	Not significant
Yes No	Yes Yes (Abbey Lane)
<100 pedestrians per day	Small
ale, E15 Footpath Severance for approx. 4 yrs 3 mfts for construction and utilities work	Very small public. Around 50% of the area will space be used as a worksite for utilities work for about 5 months.
River Lea bankside path Heron Industrial Estate, E15 Footpath	C13A, Abbey Mills Green space Claypole Road, E3

Table 6.2 - Assessment of Cumulative Impacts

		Name of use i receptors Address Address Perace Housing Road users Broad users Broad Caeal Western Road I Transport Jurcition Westbourne Park Wiles Housing Dewellings State Occupant Tenace Occupant Housing State Gloucise Terrace Consect Tenace Housing 2 develings Jubic house 2 27-34 Spring Steet London Commercial I Tokenings Fubic Process Realings Talent London Commercial I Spring Steet London Commercial I Spring Steet London Commercial I Street (Str.) Spring Steet London Commercial I Street (Str.) Spring Steet London Commercial I Street (Str.) Spring Steet Conformation Cocupants Hillen Holes Street (Str.) Spring Steet Commercial I Street (Str.) Spring Steet Conformation Cocupants Hillen Holes Cocupants Hillen Holes Cocupants Station Station Eastbourne Terrace, London Transport Vestbourne Terrace, London Access Peotsitiens Scholar Street Commercial Messbourne Terrace, London Access Cocupants Hillen Holes Pread Street Commercial Messbourne Terrace, London Access Cocupants Hillen Holes Pread Street Commercial Hillen Holes Pread Street Commercial Messbourne Terrace, London Access Cocupants Hillen Holes Pread Street Commercial Commercial Hillen Holes Pread Street Commercial Hillen Holes Pread Street Commercial Hillen Holes Pread Street Commercial Commercial Hillen Holes Pread Street Commercial Hillen Holes Pread Street Commercial Hillen Holes Pread Street Commercial Commercial Preads Instituted Bresidential Adversion Hillen Holes Pread Street Commercial Hi	Significant residual permanent impact No impact	Significant residual			
Stricture learner Stri	1 1 1 1 1 1 1 1 1 1	Housing Bood users Boo	No impact	permanent impact			CHMILIATIVE IMPAG
10 20 20 20 20 20 20 20	10 10 10 10 10 10 10 10	Road users 1279 Gaacester Tenace Housing Dowlings After Road 1 Tansport Dowlings After Road 1 Housing Dowlings After Road 1 Housing Dowlings After Road London 1 Housing Dowlings 1 Craven Road London 1 Housing 2 Awalings 2 To Tance Road London 1 Housing 2 Awalings 2 To Tancen Road London 1 Housing 3 Awalings 1 To Cavern Road London 1 Housing 4 Awalings 1 To Cavern Road London 1 Housing 4 Awalings 1 To Cavern Road London 1 Housing 4 Awalings 1 Same Stang Steel, London 1 Housing 5 Awalings 1 Same Stang Steel, London 1 Housing 6 Awalings 1 Same Stang Steel, London 1 Housing 8 Steel (SS) Steel (SS) 1 Same Stang Steel 9 Awalings Steel (SS) 1 Same Stang Steel 1 Commercial Rall seers Packings station, Easthoune Fenace, I Cordon 1 Tansport Redestrians Eachoune Tenace, London 1 Tan	6				NO
State Stat	1	Road users Harmy Road / Geal Western Road Transport Dwellings Affe of Road Housing Dwellings Westborner Park Villas Housing Dwellings Brunel Housing Terrace / Orseat Terrace Housing 1 dwellings 1 Cravern Road London Housing 2 dwellings / public house 2 7 - 34 Spring Steed, London Housing 4 dwellings 1 13 Spring Steed, London London 4 dwellings 1 13 Spring Steed, London Commercial / Housing Sussed Court Pub, 2 1-34 Spring Steed Commercial / Health Real users London Health Real users London Transport Road users Eacthourne Terrace, Departures Road & Transport Reddingon shalon Eacthourne Terrace, London Transport Redseliners Eacthourne Terrace, London		ignificant negative impact			
1 1 1 1 1 1 1 1 1 1	Part	Dowlings Affect Road Housing Dowlings Westborne Park Wiles Dowlings Westborne Park Wiles Housing Dowlings Brand Housing State Housing Brand Housing State Housing Brand Housing State Housing State Chourters I a State Read London Housing Commercial I Carver Read London Housing Commercial I State Read London Housing State State State State I London Housing State State State State I London Housing State State State State State I London Housing State St			ignilicani negalive impact		
Material Column Material C	Manual Publish Manu	Dowlings After Groud Housing Dowlings Westbourne Park Villiss Housing Dowlings Brund Housing State Housing Dowlings 1 Craven Read, London Housing 1 dowlings 1 Craven Read, London Housing 2 dowlings 1 Craven Read, London Housing 2 dowlings 1 1 34 Spring Street, London Housing 4 dwellings 1 The Outers Raking Taxen, London Commercial / Housing 4 dwellings 1 1 34 Spring Street, London Housing 4 dwellings 1 The Outers Raking Taxen, London Commercial / Housing Paleients, doxion, visitors 1 Street (Str Commercial / Housing Real Losses 1 Street (Str Commercial / Health Real Losses 1 Street (Str Commercial / Health Redictions 1 Departure Read ent ance to Paddington Transport Redestrians Exhourne Terrace, London Transport Redestrians Exhourne Terrace, London Access Redestrians Exhourne Terrace, London Access Redestrians			No impact		
Final based Course Face Course Face Fac	Transmitter contained to the contained contained to the contained containe	Dwalings Chouraster Terrizer (Orstet) Ferrace Housing Dwalings Chouraster Terrizer (Orstet) Ferrace (Orstet)				Significant negative impact stendinant norative impact	
1 1 1 1 1 1 1 1 1 1	1.00 1.00	Tokeling 2 declings 2 declings 2 declings 2 declings 2 declings 3 Craven Read London 4 declings 2 declings 2 declings 2 declings 2 declings 3 Craven Read London 4 declings 3 Craven Read London 4 declings 4 declings 4 declings 4 declings 4 declings 4 declings 1 13 Spring Steed London 1 13 Spring Steed London 4 declings 1 18 Spring Steed London 1 18 Spring Steed London 4 declings 5 Steed (SE) 6 Steed (SE) 6 Steed (SE) 7 The Outen's Railway Taven 16 Chinworth 7 Steed (SE) 7 Steed (SE) 8 Steed (SE)				Significant regards impact	
1	17 17 18 18 18 18 18 18	1 Cavern Read London Housing 2 Cavern Read London Housing 2 Advellags 3 Cavern Read London Housing 2 Advellags 4 Advellags 1 Spring Steel London Housing 4 Advellags 1 Spring Steel London Housing 5 Steel Story 8 Steel Story 9 Sussex Court Pub. 27-34 Spring Steel 4 Advellags 5 Steel Story 8 Steel Story 9 Sussex Court Pub. 27-34 Spring Steel 7 Commercial / Health Pallents doctors, visitors 8 Staffor Steel Story 8 Departure Read ent ance to Paddingon 7 Transport 1 Condon Redestrians 8 Departure Read ent ance to Paddingon 8 Staffor 8 Pedestrians 8 Earbourne Terrace, London 8 Access 9 Redestrians 8 Couth Wherl 9 Residential dovellags 1 5 Careen Road. London 9 Access 9 Redestrians 8 Couth Wherl 9 Residential dovellags 1 5 Careen Road. London 9 Access 9 Redestrians 9 Learbourne Terrace, London 9 Access 9 Redestrians 9 Landon Housing 9 Housing				Signikani negalive impaci	
1 Control Sect Looke French Frenc	1	1 Craven Read, Lordon 3 Craven Read, Lordon 7 Craven Read, Lordon 1 Craven Read, Lordon 13 Spr 9 Steel, Lordon 14 Spr 9 Steel, Lordon 15 Spr 9 Steel, Lordon 16 Spr 9 Steel, Lordon 17 Spr 9 Steel, Spr 9 Steel, Lordon 18 Spr 9 Steel, Lordon 18 Spr 9 Steel, Lordon 19 Spr 9 Steel, Lordon 19 Spr 9 Steel, Lordon 10 Spr 9 Steel, Lordon 11 Spr 9 Steel, Lordon 12 Steel, Lordon 13 Spr 9 Steel, Lordon 14 Spr 9 Steel, Lordon 15 Steel, Lordon 15 Steel, Lordon 16 Steel, Lordon 17 Spr 9 Steel, Lordon 18 Spr 9 Steel, Lordon 19 Steel, Lordon 10 Steel, Lordon 10 Steel, Lordon 11 Spr 9 S					YES
12 content and Lorent 12 c	10 content tiat content and tiat conte	To Craven Read, London 27 - 34 Syring Steel, London 27 - 34 Syring Steel, London 13 Syring Steel, London 18 Syring Steel, London 18 Syring Steel, London 18 Syring Steel, London 18 Syring Steel, London The Oueror Realvey Taven; 16 Chilworth Steel (SF) Departure Read ent arror to Paddington Stallon Stallon Stallon Eactboure Terrace, London Hillon Hotel, Praed Street Hillon Hotel, Praed Street Hillon Hotel, Praed Street Meelings 15 Graven Road London		gnificant negative impact			
13 - 13 - 13 - 13 - 13 - 13 - 13 - 13	17-15 at 1912 17-15 at 191	To Caven Read London 13 Spring Steed, London 14 Spring Steed, London 15 Steed (SE) Susses Court Pa. 27:34 Spring Steed Susses Court Pa. 27:34 Spring Steed Susses Court Pa. 27:34 Spring Steed Illian Hele Paddington Stallon Departure Road ent ance to Paddington Stallon Each our re Tenace, London Each our re Tenace, London Each our re Tenace, London Hillon Hole I, Preed Steed Meetings 15 Graven Road London Hillon Hole I, Preed Steed	01	ignificant negative impact			
15-50pt Seed Laboral 15-50pt Seed Laboral	13 Apply 10 cent and a month of the control of th	13 Spring Steel, London 18 Spring Steel (London 18 Spr	<u>o. v</u>	ignificant negative impact imificant negative impact			
14 ct 20 c	1	18 Spring Street, London The Oueens Railway Taven, 16 Chlworth Street (St.) Sussar Court Pub, 27-34 Spring Street Inds, visitors Si Mary's Hospital Hillon Hoel Paddington Eastbourne Terrace, to Paddington Stallon Eastbourne Terrace, Departures Road & Westbourne Terrace, London Eastbourne Terrace, London Hillon Hotel, Pread Street	5 65	grifficant negative impact			
The Control Robert The Control Con	State Color Colo	The Oueens Railway Taven, 16 Chlworth Steed (St) Sussac Court Pub, 27-34 Spring Steed Hillon Hoels Hillon Hoels Hillon Hoels Departure Road entrance to Paddington Stallon Departure Road entrance to Paddington Stallon Eachoure Terrace, Departures Road & Westbourne Terrace, London Eachoure Terrace, London Hillon Hotel, Pread Steed	S	ignificant negative impact			
Fit at State	State Cutring and State Comment of State Cutring and State Cutri	Street (24) Susses Court Pub. 72:34 Spring Street stors, visitors St Mary Huspital Hillon Hole Departure Road ent ance to Paddington Stallon Eastboure Tenace, Departure Road & Wiestboure Tenace, Departure Road & Wiestboure Tenace, London Eastboure Tenace, London Hillon Hole), Pread Street Hillon Hole), Pread Street Hillon Hole), Pread Street Mwellings 15 Graven Road, London	8	ignificant negative impact			
Figure 1 Figure 1 Figure 2 Figure 2	Significant regions Significant regions broad Significant regions Significant regions broad Significant regions Significant regions broad Significant regions Significant regi	iors, visilors SI Marty's Hospital Hillon Hotel Paddrighon Station, Eastbourne Torrace, London Departure Road ent ance to Paddrighon Station Eastbourne Torrace, Departure Road & Wiestbourne Torrace, London Eastbourne Torrace, London Hillon Hotel, Pread Street Meelings 15 Graven Road, London Hillon Hotel, Pread Street Meelings 15 Graven Road, London	S	ignificant negative impact			
Packing the late of the late	Hande Head Commental of Commental Formation Commental of Commental Commental of Commen	Hillion Hotel Paddingfor Station, Eastbourne Terrace, London Station Departure Read ent arce to Paddingforn Station Station Eactbourne Terrace, Departures Road & Westbourne Terrace, London Eactbourne Terrace, London Eactbourne Terrace, London Hillon Hotel, Pread Street Hillon Hotel, Pread Street Meetings 15 Careen Road, London	03	ignificant negative impact			
Publication List Description List Desc	Production from the part (black throat throat) Production (black throat) Product	Paddingun stallon Eastoume Terrace. London Departure Read entrance to Paddingon stallon Stallon Eastoure Terrace. Departures Road & Westoure Terrace. London Eastoure Terrace. London Hillon Hotel. Pread St eet Hillon Hotel. Pread St eet Meelings 15 Gauen Road, London	6	ignificant negative impact			
Page to the base of earth of bodding on Tangout Page to the Salton of earth of bodding on Tangout	Patient of body of the back of the face of the back	beparture Road entrance to Paddington Stallon stallon Eastboure Tenace, Departures Road & Wiestbourne Tenace, London Eastbourne Tenace, London Hillon Hotel, Pread Street Hillon Hotel, Pread Street Hillon Hotel, Pread Street			agnificant negative impact (delays to an services)		
K Public or park Spriftcart regative impact floss of the care park Spriftcart regative impact floresand Spriftcart regative impact floresand A Transport A Public or park	Explorer Trace, Departure Road & Transport Westporm Trace, Lordon Transport North Median Explorer Trace, Lordon Transport Access Explorer Trace, Lordon Transport High hole) Pred Steet Transport High hole) Pred Steet Transport North Median Transport Transpo	Essbourre Terrace, Departures Road & Westbourne Terrace, Departures Road & Westbourne Terrace, London Essbourne Terrace, London Hillon Hotel, Pread Street Meetings 15 Gareen Road, London			ignificant negative impact (diversion pedestran access into the station to read Steet)		
Exaboure Terroc. Departures Road & Tansport Factor Road Factor Roa	Each Dump I Lance Chaptil Les Road & Transport Each Dump I Les Road & Transport Tran	Easboure Terace, Departures Road & Westboure Terace, London Easboure Terace, London South Wharf Easboure Terace, London Hillon Hotel, Pread Steel Mellings 1-5 Caren Road, London			ignificant negative impact (loss of the		
Particular Industrial Control Face Particular Industrial Control Face Particular Industrial Control Face Particular Industrial Control Face Particular Inceptive Industrial Particular Industr	Problem Production Produc	Resbourre Torrace, London Easbourre Torrace, London South Wherf Easbourre Torrace, London Hillon Hotel, Preed Street Hillon Hotel, Preed Street 15 Graven Road, London					
Eacthourne Terrace, London Transport T	Eactbourne Terrace, London Trainsport Access South What Access Lead of Access Eactbourne Terrace, London Access Eactbourne Terrace, London Access Eactbourne Terrace, London Access Eactbourne Terrace, London Access 15 Creament Duilding is constructed) Melitys 15 Creament London Housing Housing Recreation Access Performance Melitys 18 Spring Street London Housing Recreation Recreating Recreation Report Report Repaired Impact Significant regalive imp	South Wharf Essbourne Terrace, London Hillon Hotel, Prack Steel Hillon Hotel, Prack Steel wellings 1-5 Canen Road, London			Significant negative impact (increased delays)		
South Whalf Each London Access Each Care Road Commercial Halton Hobe; Pread Steel Commercial Halton Hobe; Pread Steel Commercial Halton Hobe; Pread Steel Commercial Housing 11-5 Cave Road London Housing Significant regalitie impact	South What focus services a south What forms are serviced by the impact of Significant regalive impact (util Hillor Hose) Pred Steel Commercial Commercial Figure 1 Propriet in Programment and the impact (util Hillor Hose) Significant regalive impact (util Hose) Pred Steel Coaren Street Coaren Street	South Wharf Eachourne Terace, London Hillon Hotel, Prack Street Mellings 15 Craven Road, London			Significant beneficial impact (shorter journey) times. & better interchanges)		
South What It Across Across Significant regative impact Significant regative impact Each Commercial Each Commercial Hinton Host, Pread Steel Commercial Significant regative impact Significant regative impact wellings 1-5 Caver Road London Housing Significant regative impact wellings 1-5 Caver Road London Housing Significant regative impact Pried Street London Housing Significant regative impact Significant regative impact	South What It is a consist of the constant of the const	South Wharf Eachourne Terace, London Hillon Hoel, Praed Sheel Meilings 15 Careen Road, London					
Eachtoune fance, Lordon Access Eachtoune fance, Lordon Access Eachtoune fance, Lordon Access Factor Regulte impact Significant regulte impact	Each Connected Races Seet Commercial Significant negative impact Significant negative	Eastburne ferace, London Hillon Hoel, Praed Skeel Meilings 1-5 Caven Road, London				Significant negative impact	
replacement buildings is constructed) Significant negative impact Access Significant negative impact Significant negative impact	Hyde Park, north ride & halling my Recreation Regime impact Significant regalitie impact Significant regalities impact Significant Significant Significant Signific	1-5 Craven Road, London					
Housings 18 Skring Street Landon Housing Significant regalive impact Significant regalive impact Significant regalive impact	Neilings 118 Spring Street Landon Housing Significant negative impact Significant nega						
	Hyde Park, north ride & training ring Recreation Significant rogative impact	18 Spring Street, London Praed Street / Craven Street					
	Hyde Park, north ride & Nainng ring Recreation Significant negative impact						

				DIRECT IMPACTS		NOISE	CONSTRUCTION TRAFFIC	OPERATIONAL TRAFFIC		VISUAL	
Route window	Name of use / receptors	Address	Primary use	Significant residual construction simpact	Significant residual permanent impact	Significant residual temporary Significant residual impact	Significant residual temporary impact	Significant residual permanent impact	Significant residual temporary impact	Significant residual permanent impact	CUMULATIVE IMPACTS
	Road users	Hyde Park, North Carriage Drive		Significant negative impact (HGV traffic)							
	14 dwellings	6, 9, 12,15,17 Hyde Park Gardens, London	Housing			Significant negative impact					
	Users	Hyde Park Stables training ring & north ride. Sport	s Sport			Significant negative impact					
	Road users	West Carriage Drive, Hyde Park, London Transport	Transport				Significant negative impact (reduction of road width generating congestion)				
								No impact			
	Users of the northern and eastern Hyde Park, London part of Hyde Park	Hyde Park, London	Open land						Significant negative impact		
	Residential dwelling	Victoria Gate Lodge, Hyde Park, London	Housing						Significant negative impact	Significant negative impact	
	Residential dwellings	117-127 and 128-138 Park Lane, London	Housing						Significant negative impact		
	Pedestrians Occupants	Park Lane & Marble Arch Grosvenor Hotel	Access Commercial / residential						Significant negative impact Significant negative impact	Significant negative impact	
	Users	Bank, 84 Park Lane	Commercial						Significant negative impact		
C4 Donal Clean Challen											
C4, BUIN SIEEL SIGH	=										
	University of the Arts Residents	65 Davies Street, London Davies Street, St Anselm's Place, Brook Street	Education Road traffic	Significant negative impact Significant negative impact (HGV traffic)	Significant negative impact						DAVIES STREET: YES HANOVER SQUARE: YES
	Residents	Weighhouse Street, Duke Street, Davies Street	Road traffic	Significant negative impact (HGV fraffic)							
	10 dwellings	25 - 47 Cavendish Flats, London	Housing	Significant negative impact (re- housing)	Significant negative impact (re-housing)						
	5 dwellings	23, 25, 27 St Anselm's Place, London	Housing								
	9 dwellings	29 - 55 Hanover Flats, Gilbert Street, London	Housing	Significant negative impact (re-	Conflication also inneed for housing						
	4 dwellings	48 - 60 Weighhouse Street, London	Housing		ogrinicani regane impaci (re-nousing)						
	3 dwellings	1 - 5 Weighhouse Street, London	Housing								
	1 dwelling Ukranian Cathedral Regent Hall Church Users of Hanover Square	5 Princes Street, London Weighhouse Street Salvation Army Hall Tenterden Street	Housing Place of worship Place of worship Open space			Significant negative impad Significant negative impad Significant negative impad					
	Car users	Hanover Square	Car parking spaces				Significant negative impact for 2 yrs 8 mitrs (loss of kerbside parking space)				
	Bus users	Davies Street	Transport				Significant negative impact (closure of Davies Street and bus diversions)	_			
	Bond Street station	Hanover Square, London	Transport					Shorter journey times & better interchange at the new Crossrail station			
											<u> </u>

				DIRECT	DIRECT IMPACTS	NOISE		CONSTRUCTION TRAFFIC	OPERATIONAL TRAFFIC		VISUAL	
Route window	Name of use / receptors	Address	Primary use	Significant residual construction impact	Significant residual permanent impact	Significant residual temporary impact	Significant residual permanent impact	Significant residual temporary impact	Significant residual permanent impact	Significant residual temporary impact	Significant residual permanent impact	CUMULATIVE IMPACTS
	Residents	Cavendish Flats at 25-47 Gilbert Street (southern side).	Housing							Significant negative impact	Significant negative impact	
	Residents	23-28 S1 Anselm's Place, London	Housing							Significant negative impact	Significant negative impact	
	Residents	48-60 Weighhouse Street	Housing							Significant negative impact	Significant negative impact	
	Residents	1-5 Weighhouse Street	Housing							Significant negative impact	Significant negative impact	
	Residents Residents	27-55 Gilbert Street. 25-26 South Molton Lane	Housing Housing							Significant negative impact Significant negative impact	Significant negative impact Significant negative impact	
	Residents Pedestrians	52-58, 61 Davies Street Around Davies Street worksite	Housing Access							Significant negative impact Significant negative impact	Significant negative impact Significant negative impact	
	Pedestrians	SI Georges Street	Access							Significant negative impact	Significant negative impact	
	Pedestrians	Davies Mevis	Access							Significant negative impact		
	Pedestrians	Hanover Square and Tenterden Street	Access							Significant negative impact	Significant negative impact	
	Users of Hanover Square Residents	Hanover Square properties overlooking Hanover Square	Open space Housing							Significant negative impact Significant negative impact	Significant negative impact Significant negative impact	
	Residents	1-7 Davies Mews	Housing							Significant negative impact		
	Residents Pedestrians	7-9 South Molton Lane Housing Haunch of Venison Yard and Davies Mews Access	Housing s Access							Significant negative impact Significant negative impact		
	Occupants	Running Horse Pub	Commercial							Significant negative impact		
C5, Totlenham Court Road Station	l Astoria	Charing Oross Road, London	Nightclub									TCR: YES
	Mean Fiddler	Charing Cross Road, London	Nightclub	Significant negative impact	Significant negative impact							FISHER STREET: YES
	Rouge Centre Point Snooker Club	Charing Cross Road, London CentrePoint, New Oxford Street, London	Nightclub Recreation	Significant negative impact	Significant negative impact							
	West End Hostel	Diadem Court	Homeless accommodation	Significant negative impact (may be un Significant negative	n Significant negative impact (re-housing)							
	10 dwellings	3-4 Diadem Court, 93 Dean Street, 96 Dean Housing	ın Housing	Significant negative impact	Significant negative impact							
	9 dwellings		Housing	Significant negative impact	Significant negative impact							
	central St Martins College of Arts and Design		Education	Significant negative impact	Significant negative impact							
	Residents	Fisher Street, London	Road traffic	Significant negative impact (HGV traffic)								
	Residents	Catton Street, London	Road traffic	Significant negative impact (HGC traffic)								
	Pedestrians	St Giles Circus / Andrew Borde Street	Access	Significant negative impact	Significant beneficial impact							
	Totlenham Public House	6 Oxford Street	Commercial / residential			Significant negative impact (re- housina)						
	1 dwelling Users of St Patrick's Church	52 Andrew Borde Street Soho Square	Housing Religion			Significant negative impact Significant negative impact						
	Students, teachers, visitors	University of Westminster, Fisher Street	Education			Significant negative impact						
	Students, teachers, visitors	Central St Martins College, Fisher Street	Education			Significant negative impact						
	Medical centre	Diadem Court	Health			Significant negative impact						
	Road users & pedestrians	Sulton Row & Falconberg Court	Transport					Significant negative impact (closure)				
				_		_		_		_		_

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Significant beneficial impad - New entances, better infectionages, increase parties and control per destitions at conference better process and the purposed amenity for pedestitions at a conference process and the purposed amenity for pedestitions at a conference of the purpose amenity for pedestitions at the purpose amenity for pedestitions at the purpose amenity for pedestitions at the purpose amenity for the
Significant beneficial impad - New orbances, beller infectionings, improved amenity for pedestitions at certificant megative impact (delays at the junction of TCR, New Oxford Significant negative impact
Significant beneficial impad - New entrances, better infectionages, improved amenity for pedestitions at Centre-Point Plaza, shorter purmey limes. Significant negative impact (delays at the junction of TCR, New Oxford Significant negative impact
Sprificant beneficial impact - New ortances, better infectionages, improved amently for podiscitans at Centerbrint Plaza, shorter journey times. Sprificant regative impact (delays at the juricient of TCR, New Oxford Styrificant regative impact Skyrificant regative impact
Significant bondicial impad - New entances, better interchanges, mirrores, better interchanges, mirrores, better interchanges, mirrores amenty for pedestifiers at compared amenty for pedestifiers at length and menty for pedestifiers at length and mirrores. Significant negative impad
Significant beneficial impact - New retrances, better interchanges. Improved amently for putsetistiens at Certire Portir Plaza, shorter journey times. Significant regalive impact (delays at the journey of the journey
Significant beneficial impact - New refrances, better interchanges, improved amenty for potestitions at Cortin-Point Plaza, shorter purmey frames. Significant regalive impact (delays at the junction of TCR, New Colord Significant negative impact Significant negative impact Significant regative impact Significant negative impact Signifi
Significant beneficial impad - New rithances, belief infectionies. Center-Point Pleza, shorfer poumey limes. Significant negative impact (delays at the junction of TCR, New Oxford Steed) Significant negative impact
Significant beneficial impad - New enhances, better interchanges, mirror and amenty for pedecifients at contre Point Pleza, shorter prumey times. Significant negative impact (desiys an the junction of TCR, New Cultord Street) Significant negative impact
Styrik:ant negalive impact Styrik:ant negalive impact Styrik:ant negalive impact Styrik:ant negalive impact Styrik:ant negalive impact Styrik:ant negalive impact
Significant negative impact

	CHMIHATIVE IMPACTS									EASTERN TICKET HALL: YES	WESTERN TICKET HALL: NO																							<u>-</u>
VISUAL	Significant residual permanent impact					Significant beneficial impact	Significant beneficial impact		Significant beneficial impact														Significant beneficial impact	Significant negative impact	Significant negative impact	Significant negative impact	and a second sec	Significant negative impact	Significant negative impact	Significant negative impact	Significant negative impact	Significant negative impact		
	Significant residual temporary impact	Significant negative impact	Significant negative impact	Significant negative impact	Significant negative impact	organican regano mpara		Significant negative impact Significant negative impact	Significant negative impact														Significant negative impact	Significant negative impact	Significant negative impact	Significant negative impact		Significant negative impact	Significant negative impact	Significant negative impact	Significant negative impact	Significant negative impact	old mount requires	Significant negative impact
OPERATIONAL TRAFFIC	Significant residual permanent impact																					Significant beneficial impact (shorter journey times + better interchanges)												
CONSTRUCTION TRAFFIC	Significant residual temporary impact																	Significant negative impact (loss of car	parking space)	Significant negative impact (worksite impacts on peds and traffic delays)	Significant negative impact (traffic delays due to utilities work)													
NOISE	ary Significant residual permanent impact																																	
	Significant residual temporary impact											Significant negative impact	Signilicant negative impact																	_				
DIRECT IMPACTS	Significant residual permanent impact									Significant negative impact	Significant beneficial impact																							
DIREC	Significant residual construction impact									Significant negative impact																								
	Primary use	all Access	Housing	Housing	Access	Access	Access	Openspace Education	Education	Low cost hotel	Access	Housing	Housing	Housing	Housing	Education	Health	underground car	parks	Transport	n Transport	Transport	Commercial /	Access	Access	Housing		Housing	Access	Access	Access	Open space Housing		Access
	Address	vicinity of the works for eastern ticket hall Access	171 Wardour Street	1 Greek Street	Procter Street Sheraton Street	Catton Street, London	Fisher Street	Soho Square Fisher Street	Catton Street, London	Lindsey Street, London	Cowcross Street, London	34-35 Cowgross Street	105 Charlerhouse Street	Florin Ct	41 Charterhouse Square	Charterhouse School	Surgery, 62-66 Long Lane	Farringdon area		Aldersgate Street, London	Aldersgate Street / Beech Lane, London	Cowcross Street	Castle Pub, 34-35 Cowcross Street	Cowcross Street	Farringdon Road	above Ye Olde Red Cow pub Florin Court, 6-9 & 10-11 Charterhouse	Square	above Fox and Knot pub Lindsey Street	Fox and Knot Street	Charterhouse Square & Charterhouse Street	Hayne Street	Gardens in Charlerhouse Square Soddon House & Thomas More House	Barbican	Beech Street
	Name of use / recentors	Pedestrians	Residents	Residents	Pedestrians	Pedestrians	Pedestrians	Users & pedestrians University of Westminster	St Martin's College of Art and Design	C6. Farringdon Station Lindsey Street Hotel	Pedestrians	2 dwellings	2 dwellings	1 dwelling	12 dwellings	Pupils & leachers	Patients & doctors	Car parks		Road users, pedestrians	Road users	Farringdon station	Residents	Pedestrians	Pedestrians	Residents Residents		Residents Pedestrians	Pedestrians	Pedestrians	Pedestrians	Users	Westernia	Pedestrians
	Route window									C6, Farringdon Stati																								

	CUMULATIVE IMPACTS	COMULATIVE IMPACTOR	FINSBIRY CIRCUS & MOORGATE: YES LUVERPOOL STREET: NO		HANBLRY STREET: YES WHITECHAPEL: YES PEDLEY STREET: YES
VISUAL	Significant residual permanent impact	inpose Sgnifcari negalive impact Sgnifcari negalive impact Sgnifcari negalive impact Sgnifcari negalive impact		Sgnifcari ngative inpact	
	Significant residual temporary impact	myeri Synfran regative impact Synfran regative impact Synfran regative impact Synfran regative impact		Significant regative impad	
OPERATIONAL TRAFFIC	Significant residual permanent impact	1 poodu		Significant beneficial impact - shorter journey time	
CONSTRUCTION TRAFFIC	Significant residual temporary impact	ı rəstlu		Significant regiative impact (lane consures)	
NOISE	Significant residual temporary Significant residual impact permanent impact			Significant regalive impact Significant regalive impact Significant regalive impact	
DIRECT IMPACTS	Significant residual construction Significant residual permanent impact	reedu	Significant negative impact Significant negative impact Significant negative impact (HGV Faffic) Significant negative impact (HGV Faffic)		Synficant regathe impact Petental synficant bendicial impact Petental synficant bendicial impact Petental synficant regathe impact (HCV ratio) Synficant regathe impact (HCV ratio)
	Sign Primary use impa		Open space Signi Road traffic Signi Road traffic Signi r affic	Education Tearsport Transport Transport Transport Access Access	
	Address	e Street treet lears Ald Casted Ald Casted Styl Medical College, Rutland n Restaurant	Finshuy Circus, London Finshuy Circus, London Circus Piace, London Finshuy Circus, London	Twerpool Steed Trees, London Steed, London Steed, London Tous, London London London London London London Steed, London	Brady Street, London Greatner, Street, Old Montague Street, Road traffic Harbury Street (Creatorex Street, Spila Road traffic Street Street (Wordseer Street, Busbrn Road fraffic Street Buxbrn Street, Spilal Street, Vallance Road fraffic Dunward Street, Roady Street Vallance Road traffic Road
	Route window Name of use / receptors		C7. Uver pool Street Salkon Firsbury Circus Bowling Club Recidents Recidents	1 dwelling Users of London Guithrall University Morgate Dental grantice Residents above the Railway Tariem 15 Usergod Residents above the Railway Tariem 15 Usergod Users of Great Essiem Hotel Users of Great Essiem Hotel Redestrians Redestrians	CB. Whitechapd Staten Swartey School Residents Residents Residents Residents Residents Residents

Part				DIRECT IMPACTS	PACTS	NOISE	ш	CONSTRUCTION TRAFFIC	OPERATIONAL TRAFFIC		VISUAL	
Section Section Control		Address			permanent	Significant residual temporary impact	Significant residual	Significant residual temporary impact	Significant residual permanent impact	Significant residual temporary impact	Significant residual permanent impact	CHMIII ATIVE IMPACTS
1.		Brady Street, Whitechapel Road, Durward Street							· ·			
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Residents	Street, Durward Street, Merceron		mpact (HGV								
1. Lincate State 1. Lincate	18 dwellings 2 dwellings				gnilicant negative impact (re-housing)							
State Stat	1 dwelling 10 dwellings			mpact (re-								
1	16 dwellings 1 dwelling				gnificant negative impact (re-housing)							
14 Princes State Filtrance State Filtran	2 dwellings		P.			Significant negative impact						
11 12 12 12 12 12 12 12	4 dwellings		. Bu			Significant negative impact						
11 11 12 12 13 13 13 13	3 dwellings		. Su			Significant negative impact						
11 Michaely 12 Michaely (1904) 12 Michaely (1904) 13 Michaely (190	3 dwellings		- Bu			Significant negative impact						
1	1 dwellings		Bu			Significant negative impact						
10 10 10 10 10 10 10 10	/ dwellings Swanlev School		noj.			Significant negative impact						
Make-type food content Make-type food Make-typ	Young People Centre Albion Health Centre	ige Heath Road	ugon .			Significant negative impact Significant negative impact						
State												
13-13.5 When Logical Residues Health	Salnsbury's							Significant negative impact (loss of cal parking)				
Spin continue Transport	Residents		- Bu					Significant negative impact (loss of cal parking)				
Subtract Durnand Sheel, Lindon Tansport Cappacity	Road users		роц					Significant negative impact (traffic congestion)				
Salkon White-thed Road Transport Markethed Road Transport Tr	Road users		port					Significant negative impact (traffic congestion)				
50 b 62 (even) Phrobed Steel, Lordon Housing 1 to 15 botin House, Harbury Steel. Housing File to ensistent set of 5-10 burward File to ensistent set of 5-10 burward 1-1 and burward Steel, Lordon 1-2 Cambridge Health Post Lordon 1-3 Cambridge Health Food Lordon 1-4 Can burward Steel, Lordon 1-5 Cambridge Health Food Lordon 1-5 Cambridge Health Food Lordon 1-6 Cambridge Health Food Steel Lordon 1-6 Cambridge Health Food Cambridge Health	Whitechapel Station		pout						Significant beneficial impact (shorter journey time)			
1 to 15 Bookin Hozoe, Harbury Sireet, Housing The for shades before Strong-Sireet, Housing The for shades before Strong-Sireet, Housing The for shades before Strong-Sireet, Housing Street, London 1-12 Carmington Street London 1-2 Carmington Street London 1-3 Carmington Street London 1-4 Carmington Street London 1-5 Carmington Street London 1-5 Carmington Street London 1-6 Carmington Street London 1-7 Carmington Street London 1-7 Carmington Street London 1-8 Carmington Street London 1-9 Carmington Street	Residents									Significant negative impact	Significant negative impact	
To 15 's what's House, Dulyon Street, Housing Fight or eastern side of 5' Dunward Housing Street, London 1-12 Camelogie Healt Road London 1-12 Camelogie Healt Healthowen 1-12 Camelogie Healthowen 1-12 Camelo	Residents		Đu							Significant negative impact	Significant negative impact	
1-17 Canniving Healt Road London 1-1 Canniving Road London 1-1 And to Durnad's Yee Lindon 1-1 Garary Road London 1	Residents Residents		gu							Significant negative impact Significant negative impact	Significant negative impact	
1-17 Cannivige Hels Road London 1-17 Cannivige Hels Road London 1-18 and busined Street London 1-18 and Street Lon			,							-		
Hothing and safeting set of Trathon Close. Hothing and Set of Trathon Access Spital Street, London Access Durward Sheet, London Access Creatives Sheet Indoor Indoo	Users Residents	1-12 Cambridge Heath Road, London 1-4 and 6 Durward Street, London								Significant negative impact Significant negative impact		
Hardrus Great Card Tradhom Close. Hardrus Great Landson Close. Perioded Sheet, London Access Spid Sharman Sheet, London Access Spid Sharman Sheet, London Access Spid Sharman Sheet, London Access Durward Sheet, London Access Durward Sheet, London Access Spid Sharman Sheet London Access Consultative Sheet Indoor Indo	Residents	1-7 Granary Road, London								Significant negative impact		
Princial State London Spall Street London Spall Street London Access Spall Street London Access Spall Street London Access Durward Street Housing Cenabrer, Street Housing Develve of Mortague Street and Harbury Street Button Street Develve of Street and Housing Develve of Street Housing Button Street Develve of Street and Housing Develve of Street and Housing Develve of Street and Housing	Residents		-							Significant negative impact	Cinnificant nonative impact	
Spidian Street London Access Spidian Street London Access Spidial Street Access Subvival Street Access Construct London Access Grondon Harbury Street Housing Grondon Harbury Street Housing Construct Huse & along Condition Street Housing Between Old Mortlague Street and Harbury Street Mortledon House & in propreties on Spidial Housing Street Heavier Moodsbeer Street and Buston Street Deliveren Spidial Street and Housing Buston Street Deliveren Spidial Street and Housing Buston Street Deliveren Spidial Street and Housing	Pedestrians		3 50							Significant negative impact	Significant negative impact	
Sprind Street Access properates on Harbury Street between Housing Greaturer House & along Greaturer Street Greaturer House & along Greaturer Street Montagous Street Montagous Street Burbon Street between Housing Street between Old Montagous Street and Harbury Street Burbon Street and Harbury Street between Street and Housing Burbon Street between Spiled Street and Housing	Pedestrians		10							Significant negative impact	Significant negative impact	
programs or sets. Louding Greatures Street and Harbury Street Greatures Readong Greature Street Housing Greature Housing Greature Housing Belower 10th Montague Street Housing Mediatrom Housing Mediatrom Housing Street Burbon Street Belower Spiled Street and Harbury Burbon Street Belower Spiled Street and Housing Burbon Street Delweren Spiled Street and Housing	Pedestrians		8							Significant negative impact		
Greature House & afung Creater or Streat Housing between Old Mortiague Streat and Harbury Streat McClashrum House & in properties on Spliat Housing Streat Housen Windoxeer Street and Burkon Street Delween Spliat Street and Burkon Street Delween Spliat Streat and Housing	Residents		og Gu							Significant negative impact		
McClashran House & in proper less on Spital Housing Sheet between Woodsbeer Street and Bushon Street Bushon Street between Spital Street and Housing	Residents	Greatorex House & along Greatorex Street Housi between Old Montague Street and Hanbury Street	- Bu							Significant negative impact		
Buxbn Street between Spilal Street and Housing	Residents	McGiashon House & in properlies on Spilal Housi Street between Woodseer Street and Buxton Street								Significant negative impact		
DIKKTÜLE	Residents	Buxton Street between Spilal Street and Housing Brick Lane	gu.							Significant negative impact		

	CUMULATIVE IMPACTS	s s s	s 3 Å
VISUAL	Significant residual permanent impact		
	Significant residual temporary impact. Significant negative impact Significant Negative Significant Significant Significant Negative Significa	Significant negative impad Significant negative impad Significant negative impad Significant negative impad	Significant regalive impact
OPERATIONAL TRAFFIC	Significant residual permanent impact	No mpad	
CONSTRUCTION TRAFFIC	Significant residual temponary impact	реби ом	Significant negative impact (closure & peets diversion)
NOISE	ery Significant residual permanent firpact		
	Significant residual temporary impact	Significant negative impact Significant regative impact Significant negative impact Significant negative impact	Significant negative impact Significant negative impact Significant negative impact
DIRECT IMPACTS	Significant residual construction Significant residual permanent impact		ri Sopnitzan inggalive impact Sopnitzan regalive impact Sopnitzan regalive impact
	Primary use Housing Housing Education Access Access Itersport Housing Housing Commercial Housing Housing Housing Housing	Open space & recreation Housing Housing Housing Housing Housing Housing Housing e Copen space Open space	Open space, sport Access City farm Housing Housing Access Access
	Address New Prouchs development overfooking Castelman Sines! Cannary Road and Castelman Sines! Cannary Road and 238-243. 243 Whitechaped Road east of Valence Cardeins Whitechaped Staten Whitechaped Staten Whitechaped Staten 148 December Court Banardt Road. Housing 149 December Court Banardt Road. Housing 140 December Court Banardt Road. Housing 140 December Court Banardt Road. Housing 140 Touring 140 Touring 141 Suma Choe. London 142 Touring Library 144 Method Continet Binary 145 Faireudal Street London 145 Method Road. Housing 147 Suma Choe. London 148 December House. Scottl Housing 149 Touring Library 141 Whitechapel Road Comment 141 Whitechapel Road Comment 141 Whether House. Pedey Street London Housing 141 Whether House. Pedey Street London Housing	Male End Park Open sp. Brancaster House Housing Longer Road Housing Longer Road Housing London Hospital at Miles End Housing London Hospital at Miles End Housing south of Mile End Sond Sudnigs 1-17 Harenfield Road. London Housing 1-17 Harenfield Road. London Housing Newyord House and Wassal House. Growe Housing Road (opposite the eastern edge of Mile End Park). London Grove Road. Condons Road & University Accommodistion south of the site Accommodistion south of the site	Stepney Green, London Open sp. Gaden Street, London Access Stepney High Street, London City Brim The Burgation, Stepney Green Way Housing Community Housing 67-46 Stepney Green Way Housing 6-34 Stepney Green Way Housing Gaden Street Access Temple Coart (the former Joseph Stern Hall Housing East London Synagogue), London
	Name of use / receptors Residents Residents Residents Salf and pupils at Swarkes School Pedestrians Pedestrians Pedestrians Pedestrians Residents Residents Residents Residents Residents Residents Residents Residents	bg.	Seproy Ceen Astroluf Pedestrians Stepping Strass Farm 1 dwellings 2 dwellings Pedestrians Recibients
	Route wirdow	Corridor	CG. Stepney Green Shafts

				AIIO	DIRECT IMPACTS	NOISE	CONSTRUCTION TRAFFIC	OPERATIONAL TRAFFIC		VISUAL	
Route window	Name of use / receptors Residents	Address Primary 23-72 Boardwalk Place, east of Trafalgar Housing May Leby flows I prodom	Primary use Housing	Significant residual construction impact	nn Significant residual permanent impact	Significant residual temporary Significant residual impact	Significant residual temporary impact	Significant residual permanent impact	Significant residual temporary impact Significant negative impact	Significant residual permanent impact Sgnificant negative impact	CUMULATIVE IMPACTS
	Residents	332-417 Boardwalk Place, east of Trafalgar Housing Way, Isle of Dogs, London	ar Housing						Significant negative impact	Significant negative impact	
	Passengers Residents	DL R at West India Quay station Port East Apartments	Transport Housing						Significant negative impact Significant negative impact		
C12, Mile End and Eleanor Street Shafts	Dwellings	Caravan Park, Eleanor Street	Housing	Significant negative impact	Significant negative impact						ELEANOR STREET: NO
	Users	Mile End Park - football pitch	Sports	Significant negative impact							
	1 dwelling	156-182 Wager Street	Housing			Significant negative impact (re-housing)	ad				MILE END PARK: NO
							No impact	No impact			
	Residents	156-182 Wager Street (West of Mile End Housing site), London	Housing						Significant negative impact		
	Recreational users of Mille End Park Mille End Park and its sports facilities.	ark. Mile End Park	Recreation & open space						Significant negative impact		
	Residents	New development on Campbell Road	Housing						Significant negative impact		
	Pedestrians	Eleanor Street	Access						Significant negative impact		
C13, Pudding Mill Portal Pedestrians	tal Pedestrians	City Mills River footpath	Access	Significant negative impact							NO
	Pedestrians	River Lea footpath	Access	Significant negative impact							
						No impact No impact					
	Road users	A12 Blackwall Turnel Northern Approach Transport	Transport				Significant negative impact (closure of one southbound off slip road and inside lane of main carriageway)	of of			
								No impact			
	Residents	2-34 Brymay Close, London	Housing						Significant negative impact		
	Residents Residents	1–25 Baldock Street, London 27-69 Baldock Street, London	Housing Housing						Significant negative impact Significant negative impact	Significant negative impact	
	Residents Residents	Wrexham Road	Housing						Significant negative impact	Similicant negative innact	
	Residents	western side of Northern Approach Road							Significant negative impact	ogramoun rogano mponi	
	Residents	417 Old Ford Road	Housing						Significant negative impact		
	Residents	417 Wick Lane							Significant negative impact	ogimnani regative impaci	
	Pedestrians	Footpaths through the area, including towpaths along River Lea, Bow Back River the Green Way	Access						Significant negative impact	Significant negative impact	
C13a, Abbey Mills				No impact	No impact		No impact				NO

Table 7.1 Assessment of Significant Community Impacts for the North East (Stratford to Shenfield)

									}	
						allt	alternative facility	distance		impact
			No impact	No impact						
			Noimpact	No impact						
			Noimpact	No impact						
Ilford station C	Cranbrook Road, London	Transport	Public access to station moved from existing ticket hall to temporary ticket hall near York Mews during construction (16 weeks)	_						Not significant
Tops Tobacconists 2	27 Cranbrook Road, Ilford	Retail		Permanent acquisition						Not significant
Kart Fashion Accessories 2	29 Cranbrook Road, Ilford	Retail		Permanent acquisition						Not significant
Dwelling	York place, London	Housing		Permanent acquisition of the garage	Θ					Not significant
Dwellings 2 Dwellings 3 Dwellings 4 Dwellings 5	21 - 33 (odd) York Road 33a York Wews 45a York Mews 45a York Mews 51b York Mews	Housing Housing Housing Housing		6 re-housed for 7 mits 4 re-housed for 7 mits 2 re-housed for 7 mits 2 re-housed for 9 mits 4 re-housed for 9 mits						Significant negative impact
Canon Palmer School A	Aldborough Road, Seven Kings IG3 8EU	High school	Loss of some grassed area for a few weeks Access through the school to the construction site access to school will be maintained at all sections.	E 0-	Daily Medi	Medium / high Yes	SS	Yes (rest of the playground space)		Not significant
			times.	-						

|--|

NE6: Goodmayes Station				No impact	No impact						
NE7: Chadwell Heath Station				No impact	No impact						
NE8: Romford Depot (West)	West Ham FC training grounds	Saville Road, Romford		Retocation of gymnasium + all- weather sports pitch (re- instatement or compensation after construction)		High		Yes	No		Significant negative impact (although subject to on-going discussions with the club which could mitigate this impact)
	Westland Playing Fields		Sports & recreation	loss of 8 sport pliches and training grid for approx 3 years for construction and utilities work	40	Daily (by schools and the local community)	Small/medium	Yes	Yes (Crowlands sports ground + Ford sports ground + other pliches)	UDP Policy LAR5 - "The council will seek the retention of existing	Significant negative impact
					Loss of about 3 pitches if the Daily (by layout of the pitches is schools a revised communi	e Daily (by schools and the local community)	Small/medium	Yes	PYes (Crowlands sports s ground + Ford sports o ground + other pitches)	parks, playing fields and open spaces in both public and private ownerships"	Significant negative impact
	Westlands Rough				Small loss of open space (for dive-under)	Medium		Yes	Yes (rest of park)		No significant
	Pedestrians	Whalebone Lane	Access	Severance for several months, possibly a year			Small	No	No		Significant negative impact
NE9:Romford Station & Depot (East)	Jutsum Lane recreational area	Jutsum Lane, Romford	Recreation & open space	Small loss of open space for utilities work for around 12 months			Small	Yes (rest of the park)	Yes (rest of the park)		Not significant
	Footpath 122	Justum Recreation Grounds	Footpath	Severance during the utilities work i.e around 12 months			Small	Yes	Yes (if an alternative path is provided)		Not significant
	Footpath 123	South of the tracks, from Nursery Walk, Romford	Pedestrian and cycle path		Closure + diversion of pedestrian flow along existing roads	Low	Small	Yes (diversion)	Yes		Not significant
	Jutsum Lane Bridge	Julsum Lane, Romford	Transport	new bridge built off line so short closures whilst installed							Not significant

Pedestrian and Pedestrian access maintained 349 pedestrians Small Not significant cycle path so no impact over 12 hours Inking north & south of the railtracks	Permanent acquisition Daily Small Yes Yes Not significant	Permanent acquisition Daily Small Yes Yes Not significant	2 re-housed for 20 mths 1 re-housed for 12 mths	-housed for 2 mihs	-housed for 2 mths Not significant		Impact No impact	Impact No impact	Impact No impact	Impact No impact	Impact No impact	Impact No impact	
	Yes	Yes											
	Small	Small											
	Daily	Daily											
	Permanent acquisition	Permanent acquisition	2 re-housed for 20 mths 1 re-housed for 12 mths				No impact	No impact	No impact	No impact	No impact	No impact	
so no impact &				1 re-housed for 2 mths	2 re-housed for 2 mths	2 re-housed for 2 mths 1 re-housed for 2 mths	No impact	No impact	No impact	No impact	No impact	No impact	More than 100% increase in HGV traffic for over 2 years
cycle path linking north & south of the railtracks	Charity shop	Retail	Housing	Housing	Housing	Housing							Transport
ואמוסמ) אמני, ואמווסמ	110 South Street, Romford	112-116 South Street, Romford	95 South Street 139 South Street	97 Crossways - Rear	Ferngrot, Crossways - Rear	2, 4 Station Square 13 Station Road							Hunter Avenue, Crossways, Alexander Lane
Nuisery Walk	St Francis Hospice Shops 110 South Street, Romford		Dwellings Dwellings	Dwellings	Dwellings	Dwellings Dwellings							Residents
				NE10: Gidea Park Station			NE11:Gidea Park Stabling Sidings	NE12:Harold Wood Station	NE13:LB Havering/ Brentwood	NE14:Brook Street	NE15: Brentwood Station	NE16: Thrift Wood	NE17: Shenfield Residents Station

Significant negative impact	Not significant	Significant negative impact	
		4 re-housed for 4 mits 4 re-housed for 4 mits 4 re-housed for 4 mits 2 re-housed for 4 mits 2 re-housed for 4 mits 4 re-housed for 7 mits 6 re-housed for 7 mits 6 re-housed for 3 mits	so no impact.
More than 100% increase in HGV traffic for over 2 years	3 re-housed for 2 mths 4 re-housed for 2 mths 2 re-housed for 2 mths		Diversion along the worksite so no impact.
Transport	Housing Housing Housing	Housing Housing Housing Housing Housing Housing	Access
Crossways, Hunter Avenue, Transport Hutton Road	75 Hunter Avenue 101 Hunter Avenue Burnside	81 Hunter Avenue 87 Hunter Avenue 95 Hunter Avenue Washbrook Hill Croft 8, 12 Alexander Lane 14, 16, 18, 20, 22, 24 Herington Grove	north of the tracks
Residents	Dwellings Dwellings Dwellings	Dwellings Dwellings Dwellings Dwellings Dwellings	Public footpath
			R1, Pitsea

Table 7.2 - Assessment of cumulative impacts in the North Eastern Section

				DIRECT	DIRECT IMPACTS	NOISE	-	CONSTRUCTION TRAFFIC	OPERATIONAL TRAFFIC		VISUAL	
Route window	Route window Name of use / receptors	Address	Primary use	Significant residual construction impact	Significant residual permanent impact	Significant residual temporary impact	residual permanent impact	Significant residual temporary impact	Significant residual permanent Significant residual impact	Significant residual temporary impact	Significant residual permanent impact	CUMULATIVE
NE1: Stratford Station												ON
J	60 dwellings	Denison Point	Housing			Significant negative impact						
	15 dwellings	46,42,38 Oxford Road	Housing			Significant negative impact						
	4 dwellings	16,32 Oxford Road	Housing			Significant negative impact						
	12 dwellings	8 Oxford Road	Housing			Significant negative impact						
	8 dwellings	1 / Oxtord Road	Housing			Significant negative impact						
,	Theatre Koyal	- (l heatre			Significant negative impact						
	Cinema	Salway Koad	Cinema			Significant negative impact						
	Train passengers	Stratford station	Transport						Significant benefidal impact (shorter travel times to & from London)			
	Transport	Maryland Station	Transport						Significant negative impact (increased journey limes to and from Maryland station)			
										Noimpact	No impact	
NE2: Forest Gate Station				No impact	No impact							ON
							Z	No impact				
	Train passengers	Forest Gale station	Transport						Significant beneficial impact - shorter time journeys			
			Education			Significant negative impact						
-	Forest Gate Community School	Forest Street, Forest Gate	Religion			Significant parative impact						
-	Cherubim & Seraphim Church	Earlham House, 175 Earlham Grove	P. C.									
										No impact	No impact	
NE3: Manor Park Station				No impact	No impact							ON
•	4 dwellings	32 Durham Road	Housing			Significant negative impact						
	Train passengers	Manor Park station	Transport				2	No impact	Significant beneficial impact - shorter journey times			
										Noimpact	No impact	
NE4: Ilford 6	6 dwellings		Housing									YES
		21 - 33 (odd) York Road		Significant negative impact (re-	Significant negative impact (re-							
. *	4 dwellings 4 dwellings	33a York Mews	Housing	housing)	housing)							
7	4 dwellings	51b York Mews	Housing									
				<u>-</u>								

	CUMULATIVE								ct				ON			NO				NO	
VISUAL	Significant residual permanent impact								Significant negative impact		Significant negative impact								Significant negative impact		
5	significant residual emporary impact								Significant negative impact	Significant negative impact	Significant negative impact	-		Significant negative impact					Significant negative impact		
OPERATIONAL TRAFFIC	Significant residual permanent Significant residual Impact							Significant beneficial impact - shorter journey time	-						Significant beneficial impacts - shorter journey times			Significant beneficial impact - shorter journey time			
CONSTRUCTION TRAFFIC	Significant residual temporary impact						Significant negative impact (diversion for pedestrians)										adverse impacts (loss of parking from adjacent flats)				
	residual permanent impact															No impact					
NOISE	Significant residual temporary impact	Significant negative impact	Significant negative impact	Significant negative impact	Significant negative impact	Significant negative impact								Significant negative impact		No impact					Significant negative impact
DIRECT IMPACTS	Significant residual permanent impact												No impact			No impact				No impact	
DIRI	Significant residual construction impact												No impact			No impact				Noimpact	
	Primary use	Education	Health	Health	Sport	Leisure	Transport	Transport	Housing	Housing	Retail			Education	Transport		car park	Transport	Housing		-
	Address		9-17 Cranbrook Road	Surgery, 27 York Koad	Surgery, 55 York Road	Golf Course Allotments	Station	llford station	1-23 York Road	York Place	Exchange Court Shooning Centre &	Cranbrook Road		Cameron Road, Seven Kings, Ilford	Seven Kings station		adjacent flats	Goodmayes station	Approx. 50 dwellings at 157-195, 197- 219, 269-307 Express Drive		S. P. C. S.
	Route window Name of use / receptors		Patients and doctors	Patients and doctors	Users	Users	Pedestrians	Trains passengers	Residents	Residents Pecidents	Shoppers	Ξ		Staff and pupils at Canon Palmer Catholic School	Train passengers		Residents	Train users	Residents		5 dwellings
	Route window												NE5: Seven Kings Station			NE6: Goodmayes Station				NE7: Chadwell Heath Station	

				DIRECT	DIRECT IMPACTS	NOISE		CONSTRUCTION TRAFFIC	OPERATIONAL TRAFFIC	5	VISUAL	
Route window	Route window Name of use / receptors	Address	Primary use	Significant residual construction impact	Significant residual permanent impact		residual permanent impact	Significant residual temporary impact	Significant residual permanent Significant residual impact	Significant residual temporary impact	Significant residual permanent impact	CUMULATIVE IMPACTS
	4 dwellings	17 Armstrong Close	Housing			Significant negative impact						
	Train passengers	Chadwell Heath station	Transport				2	No impact	Significant beneficial impact - shorter journey times			
	Residents	8-10 Aldington Close	Housing							Significant negative impact	Significant negative impact	
	Residents Residents	10-29 Armstrong Close, London	Housing							Significant negative impact	Significant negative impact	
		6-23, 24-31 Faulkner Close, London	<u> </u>									
NE8: Romford Depot (West)	Users of Westlands Playing Fleids London Road, London	s London Road, London	Recreation & open space	Significant negative impact	Significant negative impact							YES
	West Ham FC	West Ham Training Grounds, Saville Road, London	Sport	Significant negative impact								
	Pedestrians	Whalebone Lane, London	Access	Significant negative impact								
	23 dwellings	44, 56, 66, 128, 156, 158, 178, 188 Crow	~									
	Hears of listim Perteation	Lane	Housing			Significant negative impact						
	Grounds	Justum Lane	Open space			Significant negative impact						
								No impact	No impact			
	Residents	208 Crow Lane, London	Housing							Significant negative impact		
	Residents	Lynbury on Jutsums Lane, London	Housing							Significant negative impact		
	Residents	Bridport Avenue, 91 Jutsums Lane	Housing							Significant negative impact		
	Residents	1-53, 10-54, 55-107 Vignoles Road 20-84 86-132 Braithwaite Avenue	Housing							Significant negative impact		
	Residents	65-83, 88a-106 Saville Road	Housing							Significant negative impact		
	Residents	1-39, 41, 36 Coombewood Drive	Housing							Significant negative impact		
	Residents	45-51 Eddy Close, London	Housing							Significant negative impact		
	Residents	13-17 Ash Court, London	Housing							Significant negative impact		
	Kesidellis Staff and rumils at St Edwards	Southern way & Brackettiviews	Fducation							Significant negative impact	Significant negative impact	
	School	London Road, London									6	
	Users of Jutsums Recreation Ground	Jutsums Lane, London	Recreation & open space							Significant negative impact		
	Users of Westlands Playing Fields London Road, London	s London Road, London	Recreation & open space							Significant negative impact	Significant negative impact	
	Users of West Ham United's Training Ground	Saville Road, London	Sport							Significant negative impact	Significant negative impact	
NE9:Romford Station & Depot (East)	-			No impact	No impact							ON
	12 Austinas	Constitution of the Consti	5			Ciantina at an anti-						
	4 dwellings	32, 44 Beedniield Galdens	Housing			Significant negative impact						
		95 Waterloo Road										

			DIREC	DIRECT IMPACTS	NOISE		CONSTRUCTION TRAFFIC	OPERATIONAL TRAFFIC		VISUAL	
indow Name of ten Ironstone	A delivered	Giran	Significant residual	Significant residual	Significant residual	residual permanent	Significant residual	Significant residual permanent Significant residual	Significant residual	Significant residual	CUMULATIVE
Route window Name of Use / receptors	Address	Primary use	construction impact	permanent Impact	temporary impact	Impact	temporary impact	Impact	temporary impact	permanent impact	IMPACIS
4 aweilings	Oldchurch Keyworker Housing A-D	Billismon			Significant negative impact						
Patients & workers		Health			Significant negative impact						
	Proposed Mental Health Unit										
2 dwellings	95 South Street	Housing			Significant negative impact (re- housing)						
1 dwelling	139 South Street	Housing			Significant negative impact (re- housing)						
Private car park	Atlanta Boulevard	Transport				0, 0	Significant negative impact (loss of car parking spaces)				
Train passengers	Romford station	Transport						Significant beneficial impact (shorter journey times)			
Occupants	Old Church Hospital	Health							Significant negative impact		
Residents	1-4 Nursery Walk	Housing						3,	Significant negative impact	Significant negative impact	
Residents	2-48 and 47 Beechfield Gardens, London	Housing							Significant negative impact	Significant negative impact	
Pedestrians and cyclists	Nirsery Walk London	Δυσος							Significant negative impact	Significant pagative impact	
Residents	Sheringham Avenue, Cotleigh Road, Nursery Walk, Beechfield Gardens, Stockland Road	Housing						,	og medical edgarde impaga	Significant negative impact	
Residents	Sheringham Avenue, Cotleigh Road, Nursey Walk, Beechlield Gardens, Stockland Road, Queens Road and Albion Close	Housing						, ,	Significant negative impact		
Shoppers	Lidi, Atlanta Boulevard & 139-143 South Street	Retail						0,	Significant negative impact		
Pedestrians	South Street	Access						3,	Significant negative impact		
NETO: Gidea Park Station			No impact	No impact							NO
1 dwelling	5 Eyre Close	Housing			Significant negative impact						
Тгаffіс	Station Car park	Transport				0, 0	Significant negative impact (loss of car parking)				
Train passengers	Gidea Park station	Transport						Significant beneficial impact (shorter journey times)			
								_	No impact	No impact	
NET1:Gldea Park Stabling Sidings			No impact	No impact							YES
						_		_		_	_

			DIRECT	ECT IMPACTS	NOISE		CONSTRUCTION TRAFFIC	OPERATIONAL TRAFFIC		VISUAL	
Doubs window - Mana of 100 / recorder	Antiface	Drimary iso	Significant residual	Significant residual	Significant residual	residual permanent	Significant residual	Significant residual permanent Significant residual	Significant residual	Significant residual	CUMULATIVE
9 dwellings	458, 460-462, 472-474 Upper Brentwood Housing Road	200		and a second second	Significant negative impact	200		sond:	sordin (modina)	nondiu unique de la companya de la c	S OCT OF THE STATE
12 dwellings	11-34 Coopers Court	Housing			Significant negative impact						
31 dwellings	1-58, 59-90 Tallis Court East	Housing			Significant negative impact						
26 dwellings	2a, 14, 26, 38, 50 Cambridge Avenue	Housing			Significant negative impact						
49 dwellings	59a, 62, 74, 75, 88, 100, 110, 120, 126- 132, 134-138 Amery Gardens	Housing			Significant negative impact						
3 dwellings	Interwood House	Housing			Significant negative impact						
12 dwellings	64, 95 Stafford Avenue	Housing			Significant negative impact						
2 dwellings	32 Ashlyn Grove	Housing			Significant negative impact						
2 dwellngs	16 Ardleigh Close	Housing			Significant negative impact						
							No impact	No impact			
Pedestrians	Upper Brentwood Road	Access							Significant negative impact		
Residents	2a-50 Cambridge Avenue and Evelyn Sharp House, London	Housing							Significant negative impact		
Residents	460-482 Upper Brentwood Road	Housing							Significant negative impact	Significant negative impact	
Residents	144-148 Southend Arterial Road	Housing							Significant negative impact		
Residents	Tallis Court and Coopers Court, Kidman	Housing							Significant negative impact	Significant negative impact	
Residents	The Railway Factory, Elvet Avenue	Housing							Significant negative impact	Significant negative impact	
NE12:Harold Wood Station			No impact	No impact							ON
		Housing			Significant negative impact						
6 dwellings	29 Fitzilian Avenue - Rear	Housing			Significant population						
3 dwellings	28 Fitzilian Avenue	ĥ			orginikani regalive impak						
Traffic	Station car park	Transport				<i>v,</i> <u></u>	Significant negative impact (loss of car parking)				
Train passengers	Harold Wood station	Transport						Significant beneficial impact (shorter journey times)			
									No impact	No impact	
NE13:1B Havering/Pentw ood			No impact	No impact	No impact	No impact	No impact	No impact	No impact	No impact	NO
NE14:Brook Street			Noimpact	No impact	No impact	No impact	No impact	No impact	Noimpact	No impact	NO
NE15:			No impact	No impact	No impact	No impact					NO
Brentwood Station						•					
						_	No impact				_

			DIRECT	IMPACTS	NOISE		CONSTRUCTION TRAFFIC	OPERATIONAL TRAFFIC	5	VISUAL	
Route window Name of use / receptors	Address	Primary use	Significant residual construction impact	Significant residual permanent impact	Significant residual temporary impact	residual permanent impact	Significant residual temporary impact	Significant residual permanent Significant residual Impact Impact	Significant residual temporary impact	Significant residual permanent impact	CUMULATIVE IMPACTS
Train passengers	Brentwood stallon	Transport						Significant beneficial impact (shorter journey limes)	No impact	No impact	
NE16: Thrift Wood			No impact	No impact	No impact	No impact	No impact	No impact n	No impact	No impact	NO
NE17: Sherifeld Residents Station	Hunter Avenue, Crossways, Alexander Lane	Road traffic	Significant negative impact (HGV traffic)								YES
Residents	Crossways, Hunter Avenue, Hutton Road Road traffic	d Road traffic	Significant negative impact (HGV traffic)								
4 dwellings	81 Hunter Avenue	Housing									
4 dwellings 4 dwellings	87 Hunter Avenue 95 Hunter Avenue	Housing Housing									
2 dwellings	Washbrook, Alexander Lane	Housing	t negative impact (re-	Significant negative impact (re-							
2 Owellings 4 dwellings	8, 12 Alexander Lane	Housing	(Bursnot)	(Buspall							
6 dwelings	14, 16, 18, 20, 22, 24 Herington Grove	Housing									
3 dwelings	75 Hunter Avenue	Housing			Significant negative impact (re- housing)						
4 dwellings	101 Hunter Avenue	Housing			Significant negative impact (re- housing)						
2 dwelings	Burnside, Alexander Lane	Housing			Significant negative impact (re- housing)						
22 dwellings	59, 150, 170, 204, 216, 250 Hutton Road Housing	1 Housing			Significant negative impact						
5 dwellings	242 Hutton Road - Rear	Housing			Significant negative impact						
4 dwellings	232 Hutton Road -Rear	Housing			Significant negative impact						
l dwelling 4 dwellings	1 CBS Hurron Road	Housing			Significant negative impact						
10 dwellings	10, 14, 21-23, 33-35 Hunter Avenue	Housing			Significant negative impact						
1 dwelling 32 dwellings	1 Shenfield Gardens 13-15, 17, 25, 31, 39-57, 59-73 Friar's	Housing Housing			Significant negative impact Significant negative impact						
	Avenue										
8 dwellings 1 dwelling	2, 4-10, 12-18 Friar's Avenue 46 Greenway	Housing			Significant negative impact						
10 dwellings	(minor)				Significant negative impact						
	29-33, 35, 32-38, 40&42 Herington Grove										
1 dwelling	Meiridge	Housing			Significant negative impact						
1 dwelling 1 dwelling	The Coppice Excalibur	Housing			Significant negative impact Significant negative impact						
1 dwelling	Timbers	Housing			Significant negative impact						
3 dwellings	3, 5, 15 Herrington Road	Housing			Significant negative impact						
1 dwelling 1 dwelling	Thorpe Lodge 1	Housing			Significant negative impact						
1 dwelling	21 Rayleigh Road	Housing			Significant negative impact			_			_

				DIREC	DIRECT IMPACTS	NOISE		CONSTRUCTION TRAFFIC	CONSTRUCTION TRAFFIC OPERATIONAL TRAFFIC		VISUAL	
Route window	Route window Name of use / receptors	Address	Primary use	Significant residual construction impact	Significant residual permanent impact	ris Significant residual premporary impact	residual permanent impact	Significant residual temporary impact	Significant residual permanent Significant residual impact	Significant residual temporary impact	Significant residual permanent impact	CUMULATIVE
	Users of the library Pupils & teachers Patients & doctors	Hutton Road School Mount Avenue Surgery	Education Education Health			Significant negative impact Significant negative impact Significant negative impact						
	Тгаffіс	Long stay car park on Hunters Avenue	Transport				σ౾	Significant negative impact (loss of car parking)				
	Тгаffіс	Short stay car park on Friar's Avenue	Transport				ഗ≅_	Significant negative impact (loss of car parking)				
	Train passengers	Shenfield station	Transport						Significant beneficial impact (shorter journey times)			
	Residents Residents Residents	1a-25 Friar's Avenue 71-105 Hutton Road 14-44 (even), 69, 41-43 Hunter Avenue, Sherrfield	Housing Housing Housing							Significant negative impact Significant negative impact Significant negative impact	Significant negative impact Significant negative impact	
	Users of the station car park Pedestrians	Shenfield station Hunter Avenue	Transport Access							Significant negative impact Significant negative impact		
R1, Pitsea												
	Residents Workers and visitors Users	4 dwelings Horse Sanctuary, Pitsea Hall Lane Pitsea Hall and associated play area	Housing Recreation	No impact	No impact	Significant negative impact Significant negative impact Significant negative impact			No impact			ON
	Pedestrians	footpath to north of the site	Access							Significant negative impact		

Table 8.1 Assessment of Significant Community Impacts for the South East (Isle of Dogs to Abbey Wood)

	Public footbridge	West of Silvertown station	Access	Potential short closure but aiming at maintaining access						Not significant
	Tate & Lyle footbridge	Factory Road, London	Access		Demolition	Low	Small	Yes	Yes	Not significant
SE4: North Woolwich Portal, Thames Tunnel	North Woolwich Railway Museum	North Woolwich station, Pier Culture Road, London	Culture	The museum will not be affected						
	Royal Arsenal Gardens	Waren Lane, Greenwich, London	Open space	Landrake of the skateboard area to be used as a work site for approx. 4 years	Landtake of the skateboard area to be used. No impact as the skateboard area would be re-Medium / high as a work site for approx. 4 years instated		Small	<u> </u>	No (St Mary's Gardens don't have a playground)	Significant negative impact
	Footbridge	Fernhill Street, North Woolwich, London	Access	Pedestrian access maintained during the works	Bridge replaced by footpath					Not significant
		Warren Lane / Woolwich High Road traffic Street	Road traffic	More than 100% increase in HGV traffic over 11 months						Significant negative impact
SE5: Arsenal Way Shaft				No impact	No impact					
SE6: Plumstead Portal	White Hart Road	While Hart Road	Access	Closure of road meaning severance of pedestrian access and diversion >0.5km for up to 1 yr						Significant negalive impact
SE6A: Manor Wh	SE6A: Manor Wharf public footpath	Along the Thames	Access	likely closure of footpath for approx a week						Significant negative impact
SE7: Church Manorway Bridge	Church Manorway Bridge	Church Manorway, London	Footbridge	1 week closure	New footbridge with MIP (Mobility Impaired) access	Daily (serves Abbey Wood School and the sports ground)	Small	Yes	No	Significant negative impact
	Eynsham Drive Bridge	Eynsham Drive Bridge	Road bridge	No impact	No impact					
	Bostall Manorway Bridge	Bostall Manorway, London	Pedestrian access	No closure	New footbridge with MIP access	50 pedestrians between 7-10am	Small	Yes	No	Not significant
	Open land	Church Manorway, London	Open space	Loss of small area of trees and shrubs	Loss of small area		Medium	Yes	Yes (Plumstead Greenwich 2nd deposit UDP, Gardens + rest of the Apri 2004 - Policy 06 * Public and park) private open space areas defined as Community Open Space [] will be safeguarded from built development".	Not significant and ined]

Not significant	Not significant	Not significant
Yes		
Yes		
Small		
Loss of some open space	Part of the car park used for utilities work for around 2 months. The car park will remain open however.	Small part of rear garden needed for utilities work
Community Open space	Carpark	
South of the tracks, Commur Bracondale Road, London space	South of the tracks, Bracondale Road, London	53 Bracondale Road, London Housing
Open space	Car park	Dwelling

	Residential dwellings		Housing		Loss of small part of the back gardens	Not significant.
	Road	Motistont Road, London	Road and pedesti access	Road and pedestrian There may be some short severance period access as the worksite is at this location. Pedestrian access can easily be diverted.		Not significant
	Footpath	North of Eynsham Drive between Church Manoway and Eynsham Drive		access restricted but not severed so no impact		
SEB: Abbey Wood Jamokie Centre Station	Jamokie Centre	47 Abbey Grove	Day nursery		Loss of very small part of the back garden	Not significant
	Dwelling	27 Florence Road, London	Housing		Permanent acquisition	
	Dwellings	19 Abbey Terrace, London	Housing		Permanent acquisition	Not significant
	Dwellings	42-56 and 200-210 Rushdene, London	Housing		Loss of very small part of the back gardens	Not significant (Assuming the landrake drawings include the safety area - will be checked)
	Dwellings	Priory Place, Abbey Wood, London	Housing		Loss of very small part of the back gardens	Not significant (Assuming the landtake drawings include the safety area - will be checked)
	Dwellings	53-59 Abbey Grove, London Housing	Housing		Loss of very small part of the back gardens	Not significant. (Assuming the landtake drawings include the safety area - will be checked)
	Dwellings	1-45 Abbey Grove, London	Housing		Landrake of land behind gardens	Not significant.
	Dwellings	19 Abbey Terrace	Housing		Demolition	Not significant
	Dwellings	Barratt development, Felixstowe Road, London	Housing	Potential re-housing of a few dwellings		

No impact	1re-housed for 5 mths	1 re-housed for 5 mths	16 re-housed for 5 mths	16 re-housed for 72 mths
ss No impact	ing	ing	ing	ing
Acces	Housing	Housing	Housing	Housing
Abbey Way (Alsike Road), Access London	18 Abbey Terrace	28 Wilton Road	52 Hermitage Close	Hermitage Close
Green Chain footbridge	Dwellings	Dwellings	Dwellings	Dwellings

Table 8.2 - Assessment of cumulative impacts on the South Eastern Route Section

The content				DIRECT IMPACTS	MPACTS	NOISE		CONSTRUCTION TRAFFIC	OPERATIONAL TRAFFIC	VISUAL	
Charles Char			Primary use	Significant residual construction impact	dual permanent			Significant residual temporary impact		Significant residual temporary Significant residual permanent impact	anent CUMULATIVE IMPACTS
1.1 Land Schill Arter Special Integrate Particul Schill Arter Particul	SET: Blackwall Way & Limmo Peninsula Shafts						No impact No	o impact	No impact		<u>0</u>
11 A table Sample blooms 12 A table Sample sample 12 A table sample 12 A table sample 12 A table sample sample sample 12 A table sample sample sample 12 A table sample sample sample sample 12 A table sample sample sample sample sample sample 12 A table sample	Car parking spaces	Routers Building	Transport				υ α	ignificant negative impact (loss c ar parking spaces)			
Freetracies Read Lindon According Significant regalities impaired regard Significant regalities regard Significant regalities regard Significant regalities regard Significant regalities Significant regalities regard Significant regalities Significant regalities regard Significant regalities regalities Significant regalities	Residents Residents Pedestrans	1-14 John Smith Mews Approx. 30 properties at 1-38 Wingfield Court Blackwall Way							07	Significant negative impact Significant negative impact Significant negative impact	
Housing Housing Housing Significant regalive inpact (HCV Housing Housing Housing Housing Housing Housing Significant regalive inpact (Inc. Housing Significant regalive inpact (Inc. Housing Housing Significant regalive inpact (Inc. Housing Housing Housing Significant regalive inpact (Inc. Housing Housing Housing Housing Significant regalive inpact (Inc. Housing Housing Significant regalive inpact (Inc. Significant regalive inpact (In	SE2: Custom House Barge Hotel Station	Freemasons Road, London	Accommodation for the homeless	Significant negative impact	Significant negative impact						YES
Housing Hous	Residents	Seaguil Lane, Western Gateway, worksite	Road traffic	Significant negative impact (HGV traffic)							
Housing Housing Housing Significant negative impact (ie-	6 dwellings 8 dwellings 6 dwellings		Housing Housing Housing	Significant negative impact (re- housing)							
Road Housing Road Road Housing Road (New Housing) Housing Action Road (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing) Significant regative impact (New Housing)	1 dwelling	1 Freemasons Road	Housing								
R Road Housing Road Housing 1 Hou	10 dwellings		Housing								
Commercial residential Significant regative impact Transport Significant negative impact (loss of body parking spaces) Transport Significant negative impact (loss of body parking spaces) Scale Landon Significant negative impact (loss of body parking spaces) Scale Landon Significant beneficial impact (loss of body parking spaces) Deck Read, London Significant beneficial impact (loss of body parking spaces) Pock Read, London Housing ay Wayne House, Housing Housing Housing Housing	5 dwalings 6 dwalings 4 dwalings 5 dwalings		Housing Housing Housing	Significant negative impact (rehousing)	Significant negative impact (re- housing)						
Intersport Intersport Significant negative impact (loss of borry parking spaces)	Occupants		Commercial/ residential			Significant negative impact					
Significant beneficiel impact (Starter journey limes) Dock Read, London Nearly, Bidgeland Housing Housing A Wayne House, Housing Housing	Excel lorry car park		transport				<u> </u>	ignificant negative impact (loss c rry parking spaces)	No.		
St la, 251 b, 251 254, Housing Dock Read, London vers) Bridgeland Housing Housing ay Wayne House, Housing Housing	Trán passengers		transport						Significant beneficial impact (shorter journey times)		
vers) Bidgeland Housing Housing ay Wayne House. Housing Hoteling	Residents	245-250, 250a, 250b, 251a, 251b, 251-264, 268, 265-270 Victoria Dock Road, London	1, Housing							Significant negative impact	
Husing y Wayre Huse. Husing Hotel Hotel	Residents		Housing						J,	Significant negative impact	
Hdel	Residents Residents		Housing Housing							Significant negative impact Significant negative impact	
	Occupants, workers, visito	irs Custom House Hotel	Hotel							Significant negative impact	

Name of use/recapturs Address		Prima		DIRECT IMPACTS Significant residual construction Significant residual permanent impact		NOISE Significant residual temporary impact	Significant residual Spermanent impact	CONSTRUCTION TRAFFIC Significant residual temporary Significant residual temporary Infrast	OPERATIONAL TRAFFIC Significant residual permanent Significant residual temporary Impact	V Significant residual temporary mpact	ISUAL Significant residual permanent impact	CUMULATIVE IMPACTS
Address Frinally Use Warehouse K, Custom House, London wire bar, offices, housing	wine bar, offices, housing	offices,		paci			permanent impact		. S	Impact Significant negative impact	ımpacı	CUMULATIVE IMPACT
Pedestrians Excel Walkway between DLR Custom Access House station and Excel centre including on temporary footbridge	y between DLR Custom Access and Excel cente including on bridge	ø							v,	Significant negative impact		
Pedestrans Victoria Dock Road and adjoining streats. Access		8							- 07	Significant negative impact		
Pedestrians Seagul Lane / Sandstone Lane and Access appining needs and public areas		V							01	Significant negative impact		
No Impact No			N	No impact		No impact	No impact	No impact N	No impact			ON
Occupants Proposed new hotel adjacent to north portal commercial / residential	hotel adjacent to north portal Commercial / residential	vercial / ntial							0,	Significant negative impact	Significant negative impact	
Pedestrians Victoria Dock Road Access Pedestrians Jake Road Walk and nearty open Access		v, v,							07 07	Significant negative impact Significant negative impact	Significant negative impact Significant negative impact	
Pedestrians footnaypublicope space under Recreation / Connaugh thidge access	n space under	alon/							07	Significant negative impact		
Pedestrians and travellers Connaught Road and Abbert Road and Access adjoining residential streets		Ø							<u>, , , , , , , , , , , , , , , , , , , </u>	Significant negative impact		
Residents Approx. 28 properties at 1-28 Royal Housing Connaught Apartments. Connaught Road		Ďu							U)	Significant negative impact		
Residents Approx. 9 properties at Lily Nicholis House, Housing 1-9 Commarght Road, London	enties at Lily Nicholis House, Housing It Read, London	Du							v	Significant negative impact		
Residents, workers and 1-8 Albert Road (parade of shops/offices). Housing London	d (parade of shopsfoffices). Housing	Ĝu							- 0,	Significant negative impact		
Residents, workers and Cundy Tavern, Albert Road Commercial / residential		nercial / ntial							0,	Significant negative impact		
Footbridge west of Silvertown Station.	station.	8							0,	Significant negative impact		
do	lransport Pereation		nonaliko impari						,,	Significant negative impact		VIOOW HIGON
			opdin oarpha									YES
Warren Lane / Wooxivich High Street Road Italfic Significant regalitive impact (HGV)	Road traffic		negative impact (HGV)									WARREN LANE: NO
4 dwellings 2 Camel Road Housing Mark's Church Place of worship		ng of worship				Significant negative impact Significant negative impact						
SLubin's Church Centre Albert Road Community	Community	unity				Significant negative impact						
St. John's Church Albert Road Place of worship	Place of worship	of worship				Significant negative impact						
								-	No impact			
Pedestrians Warren Lane, Woowich Access		Ø			_		_			Significant negative impact		

			DIRECT IMPACTS	NOISE		CONSTRUCTION TRAFFIC OPERATIONAL TRAFFIC		
Name of use / receptors	Address	Primary use	Significant residual construction Significant residual permanent impact	Significant residual temporary impact	Significant residual Sign permanent impact	Significant residual temporary Significant residual permanel impact impact	Significant residual permanent Significant residual temporary Significant residual permanent impact impact	al permanent CUMULATIVE IMPACTS
Pedestrians and cyclists Pedestrians Residents	Rherside path, Wodwich Royal Arsenal Gardens, Woolwich Approx. 14 properties at 14-98 (evens) Sheldrake Close, London	Access Access Housing					Significant negative impact Significant negative impact Significant negative impact	
Residents Residents, workers, visitors	1,2-20 (evens) Winifred Street Henley Arms Public House, Albert Road, London	Housing Pub					Significant negative impact Significant negative impact	
Workers & visitors	St John's Community Centre, Albert Road, Community London centre	Community centre					Significant negative impact	
Workers & visitors	St John's Church, Albert Road	Place of worship					Significant negative impact	
Pedestrians	Albert Road and adjoining residential streets	Access					Significant negative impact	
Park users	between Manwood Street / Albert Road, London	Open space					Significant negative impact	
Pedestrians	Factory Road and adjoining local roads	Access					Significant negative impact	
Visitors	Railway Museum	Culture					Significant negative impact	
SE 5 Arsenal Way			No impact No impact	No impact No impact	#			ON
Road users	Royal Arsenal	Transport			Signit car pa	Significant negative impact (loss of car parking spaces)		
Pedestrians	Plumstead Road / Bereford Street	Access					Significant negative impact	
SE 6 Plumstead Pedestrians Portal	White Hart Road		Significant regative impact (closure. No impact + long diversion)	No impact No impact	#			NO
Passengers	Plumslead - Abbey Wood	transport			Signit (disru	Significant negative impact (disruption to passenger services)		
						No impact		
Residents	3-9 (odds) Plumstead High Street	Housing					Significant negative impact	
Residents		Housing					Significant negative impact	
Kesidents	1-63 and 15-70 Gavin House, Plumstead High Street, Woolwich	Housing					Signilicant negative impact	
Residents	1-12 Richard Neve House, Reidhaven Road, Woolwich	Housing					Significant negative impact	
Residents	idhaven Road, Woolwich	Housing					Significant negative impact	
Residents	16-28 (even) Heverham Road, Woolwich	Housing					Significant negative impact	
Residents	37-44 White Hart Road	Housing					Significant negative impact	
Residents	7-133 Barth Road,						Significant negative impact	
Residents	dds) Marmadon Road	Housing					Significant negative impact Significant negative impact	limpact
Residents	larmadon Road	Housing						s impact
Pedestrians Pedestrians	White Hart Road Nathan Way	Access					Significant negative impact Significant negative impact	
Pedestrians		Access						1
Players and spectators	Church Mandway sports Ground, Woolwich	open space					Significant negative impact	impact

					DIRECT	DIRECT IMPACTS	NOISE		CONSTRUCTION TRAFFIC OPER	OPERATIONAL TRAFFIC	7	VISUAL	
Part		me of use / receptors	Address	Primary use	Significant residual construction impact	esidual permanent		Significant residual permanent impact		ınt residual permanent	Significant residual temporary impact	ľ	CUMULATIVE IMPACTS
A	SE6A, Manor Wharf Pe.	destrians	footpath along the Thames	Access	Significant negative impact								NO
1								No impact		75			
Substitution Subs		ses	Church Manorway bridge	Access	Significant negative impact						Significant negative impact	<i>\(\)</i>	YES
Particular Par		twellings	68 Mottisfont Road	Housing			Significant negative impact						
State Stat	80 4.	dwellings	127, 130 Mottisfont Road	Housing			Significant negative impact						
Table Tabl	15.	dwellings	75, 171, 189 Bracondale Road	Housing			Significant negative impact						
Procedure Pr	10) dwellings	125 Abbey Grove	Housing			Significant negative impact						
	Pa	assengers	Plumstead - Abbey Wood	Transport					Significant negative impact (disruption to passenger services)				
Paciety Paci									No impac	1 5			
Politications Charcia Monosay Access Process Septical regular regul	Us, Spv	sers of Church Manonway orts Ground		Open space							Significant negative impact	Significant negative impact	
Problems Experimental Managemental Assocs Ass	Do	destrians	Chirch Manorway	Accoss							Similicant negative impact	Similicant negative impact	
Production Canador C	a d	destrians	Motisfort footpath	Access							Significant negative impact	Significant negative impact	
Production ground-laterancy Access Production ground-laterancy Access Production ground-laterancy Access Production ground-laterancy Access Production ground-laterancy Production ground-laterancy	Per	destrians	Felixstowe Road	Access							Significant negative impact	Significant negative impact	
	Pe	destrians	Bostall Manorway	Access							Significant negative impact	Significant negative impact	
State Column Co	b d	edestrians	green space around Eynsham Drive	Access							Significant negative impact	Cimilional according improved	
Residentify 100 117 135 data of Land Macronary (solid) Residentify 100 117 135 data of Land Macronary (solid) Residentify Spiricart regime import Spiricart re	NA.	SMEILIS	Road	filemon							organicani negative impaci	organican regaine impaci	
Resident 18 28 28 88 10 11 Church House Page 22 28 88 10 11 Church House Significant nogable impact Significant nogab	Re	sidents	100, 137-139(odds) Church Manonway, London	Housing							Significant negative impact	Significant negative impact	
Residents 13 (rotts, 67.73 Sts. 87.78 Tills) Housing Specialism Significant regative inpact in regative inpact	Re	esidents	80, 82-84,86-88, 102-112 Church Manorway, London	Housing							Significant negative impact		
Residents 130 16s 16s 17 Medical migration from the services Housing Processions Supplicant regulate impact Processions	Re	sidents	1-5 (odds), 67-73, 50-88, 75-79, 181-189 Bracondale Road, London								Significant negative impact	Significant negative impact	
Residents 777.12ABte/ Grove Hostory Household Residents Printing Residents Significant negative impact Significant negati	Res	sidents	130, 166, 168, 117 Mottisfont Road	Housing							Significant negative impact		
Residents 125 Abbey Gone Housing Significant negative impact Significant negative impact Cocquairs 104 Marshman Pb Commercial Significant negative impact Significant negative impact 1 develling 22 Hemilago Clear Housing Significant negative impact Significant negative impact 1 devellings 21 Set Risk and Clear Housing Significant negative impact Significant negative impact 2 devellings 1.3.7, 9.28 Fearityke Tool Housing Significant negative impact Significant negative impact 2 devellings 1.3.7, 9.28 Fearityke Tool Housing Significant negative impact Significant negative impact 2 devellings 1.3.7, 9.28 Fearityke Tool Housing Significant negative impact Significant negative impact 2 devellings 1.0.1, 12.9, 4.1 Copulled Dave Housing Significant negative impact Significant negative impact 3 devellings 1.4.1, 12.9, 4.1 Copulled Dave Housing Significant negative impact Significant negative impact 4 devellings 1.1.1, 12.9, 4.1 Copulled Dave Housing Significant negative impact Significant negative impact	Re	sidents	77-123 Abbey Grove	Housing							Significant negative impact	Significant negative impact	
Tabeling 18 Abbey Jerace Housing Significant negative impact (e-localing) Significant negative impa	O Re	esidents cupants	125 Abbey Grove Jolly Marshman Pub	Housing Commercial							Significant negative impact Significant negative impact	Significant negative impact	
I dwelling 28 Willan Road Housing Significant negative impact (reforming accessed leavelings) Expending and the standard of the standard leavelings I 45.7.9, 28 Fendyke Road Housing Prousing Prousing 24 dwellings 1,3,7,9,28 Fendyke Road Housing Housing Housing Housing 24 dwellings 2, 10a, 13 Sydney Road Housing Housing Housing 34 dwellings 16-21, 30-50, 64-73 Halfield Dive Housing Housing 44 dwellings 5-11, 22-94, 41 Copteled Dive Housing 44 dwellings 6-11, 12-194, 41 Copteled Dive Housing 11 dwellings 11, 21-94, 11 Copteled Dive Housing 11 dwellings 11, 21-94, 11 Copteled Dive Housing 11 dwellings 135, 179 Abbey Wood Road Housing 12 dwellings 135, 179 Abbey Wood Road Housing		twelling	18 Abbey Terrace	Housing									YES
S 52 Hermitage Close Housing Industry 1 37 9, 28 Fambles Road Housing Housing 2 105, 18, 46, 54 of Rushdere Housing Housing 2 106, 18 Synthy Road Housing Housing 1 47 Abbey Road Housing Housing 5 16, 1, 30, 36, 47 Buffled Dive Housing Housing 5 5 4 Balemore Way Housing Housing 5 5 4 Balemore Way Housing Housing 5 10 Gloved Close Housing Housing 6 11, 12 19, 4 Abbey Gove Housing Housing 7 10 Gloved Close Housing Housing 8 13 179 Abbey Wood Road Housing Housing 9 17 10 Use Close Housing Housing		fwelling	28 Wilton Road	Housing	Significant negative impact (re-	Significant negative impact (re-							
1,3,7,9,28 Fendyke Road Housing 2,1,35,46,54,64 Rushdene Housing 2,10a,135ydney Road Housing 18-60 Buckwheat CI Housing 44 Abbey Road Housing 16-21,30,30,4-73 Halfield Drive Housing 55-90 Blackmeat Way Housing 6-11,12-19,41 Copfield Drive Housing 7,16,19 Abbey Grove Housing 135,179 Abbey Wood Road Housing 136,179 Abbey Wood Road Housing 137,190 Municipal Road Housing 137,190 Municipal Road Housing 137,190 Municipal Road Housing 138,179 Abbey Wood Road Housing 137,190 Municipal Road Housing 138,179 Abbey Wood Road Housing	16.	dwellings dwellings	52 Hermitage Close Hermitage Close	Housing Housing	(Busnou	(Buspon							
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	Name of use / receptors	11 dwellings 8 dwellings 4 dwellings 9 dwellings 28 dwellings SI Benet's Church	Bus users	Abbey Wood Station	Bususers	Train passengers	Residents	Residents Residents	Residents	Residents Workers and visitors	Residents, workers & visitors	Workers and visitors	Residents Residents	Residents	Residents	Residents	Residents Residents	Residents	Residents Residents	Residents	Pedestrians	Pedestrians	workers and visitors
	Route window																						



Appendix1: Community Issues





Appendix1: Information on Selected Community **Facilities**

1. Hyde Park Riding School (Route Window C3)

Context

Three stables use Hyde Park daily and all year round as part of their operation. Two stables are located in Bathurst Mews and one stable in Holland Park. The Paddock on the edge of the construction site is used continuously. The stables are used by people from all backgrounds, both tourists and regular riders. They also offer free riding lessons to the pupils of some local state schools.

Issues

Closure of Victoria Gate during the Crossrail works would mean that the stables would have to enter the park at Clarendon Gate. There are about 300 horse movements (150 in, 150 out) through Victoria Gate per day and the school is concerned about the safety of crossing the road at this point as they feel the traffic is faster.

There is currently no horse crossing facility at Victoria Gate despite requests from the school over the past few years.

There are also concerns over safety of riders in the paddock, any sudden noises or movement of construction machinery and cranes is likely to frighten the horses.

2. London College of Fashion (Route Window C4)

Context

The building at 65 Davies Street is used by the headquarters of the University of the Arts and includes facilities for the London College of Fashion. The building contains teaching rooms, student services, and offices.

The London College of Fashion also has two large photographic studios and one digital studio equipped with a high resolution scanner, computer and printer, a gallery and a number of lecture rooms. The gallery is open to the public and shows work of former alumni as well as other artists. The college also runs evening classes and is open weekdays until 10pm and on Saturdays.

Issues

The University of Arts agreed to a short lease for 65 Davies Street in the awareness of Crossrail proposals. This means that as part of a consolidation programme of its various colleges, the University is already reviewing alternative locations.



3. Central St Martin's College of Art and Design (Route Window C5)

Context

The building at 2-6 Catton Street is a satellite of Central St Martins College of Arts and Design. There are 45 members of staff based in this building. The College has some teaching rooms. It also houses the Student Union.

Issues

The College agreed to a short lease for 2-6 Catton Street in the awareness of Crossrail proposals and are currently reviewing options for alternative locations.

4.The Astoria, Metro, Mean Fiddler music venues (Route Window C5)

Context

The Astoria (157 Charing Cross Rd), Metro and Mean Fiddler (165 Charing Cross Rd) music venues are owned and operated by the Mean Fiddler entertainment group.

Both venues are at the core of London's night and music culture and host a wide range of music performances. The Astoria also hosts dance club nights. The Astoria is used by the G-A-Y-E Club on Mondays, Thursdays, Fridays and Saturdays as a music and entertainment venue for London's gay and lesbian community.

Issues

No discussion has been held to date with the Mean Fiddler group.



5. Finsbury Circus Bowling Green (Route Window C7)

Context

Finsbury Circus is the largest public garden in the City. It has a National Standard Bowling Green, which is enjoyed by regular members of the City of London Bowling Club as well as local residents, tourists and office workers.

The Bowling Club is an established club and is a member of Middlesex Bowling Club Association. It has a clubhouse, which provides changing rooms, a bar and storage.

The Club has 50 members who come mainly from East and Northeast London. Some members work in the City / London and come after work. Members' age range from 12-18 years olds to the elderly. The green is used from approximately the first week in April to the last week in September, during which time it is opened from 4pm every weekday & all day at the weekend. It is also open to passers-by.

Issues

The green at Finsbury Square would be a viable alternative during the construction period as it is very closeby. It is located within a different local authority.

There are more remote greens at Bow, Chadwell, Poplar, Royal Parks and Victoria Park. There are concerns that if the club is closed for 5 years and people have to find another club, they might not come back at the end of the construction period.

There is also concern that club members will need some space to store the club's belongings during construction works.



6.Swanlea School (Route Window C8)

Context

Swanlea School is co-educational with 1050 pupils ranging in age from 11 to 16. The school building was built in 1993. In September 2002 the school became central London's first Business and Enterprise College with the aim of improving performance in design and technology, science and mathematics, and making effective use of ICT.

The main entrance to the school is from Brady Street. The entrance leads to an internal corridor that runs along the centre of the building to a set of exit doors at the other end. The school effectively uses this as a one-way system with regard to managing arriving and leaving pupils. In the morning pupils arrive via the secure entrance on Brady Street, and in the evening they leave via the west end of the building, and walk through gates leading onto Durward Street. There is a separate entrance for teaching staff on the north side of the school building. There is a dedicated service access to the school from Durward Street.

There is a staff car park with 33 spaces to the north of the school building. The school considers that there are currently insufficient parking spaces.

To the west of the service access route is a single storey structure containing storerooms and a substation and to the east is the caretaker's house.

Emergency access to the school is through the staff car park. There is also a gated emergency escape on the south side of the school to Durward Street.

The school has a playground area to the north of the school building, adjacent to the staff car park, which includes two basketball courts. There is a garden area to the south of the school building with an open amphitheatre.

Issues

The school will experience a prolonged period of disruption. There is concern that the noise arising from construction works and loss of recreational space may impact the students ability to study.

Management of construction works and shared access through staff car park will have to be carefully co-ordinated with the school.

There will be potential conflicts between the routes used by students to the school and the construction site entrances on Durwood Street and Brady Street.

Due to a reduction in external recreation space, students may have to be taken off-site for Physical Education.

The caretaker's house is in use and may have to be reinstated.

In terms of permanent reinstatement of the school grounds at the end of the construction period, the education authority prefer CLRL's proposed option to extend the school boundary to the west over the rail lines, in order to provide for additional space for recreational use and staff car parking spaces.



7. Stepping Stones Farm (Route Window C9)

Context

The farm keeps a range of animals including cows, pigs, rabbits, guinea pigs, chickens, and geese. The farm offers structured session with one of the farm teachers for school groups. There is a shop on site selling refreshments, homeproduce, eggs, and gifts.

Recent improvements have been made to the farm including a new toilet block and clearing and fencing of wasteland to create new pastures and housing for animals.

Issues

It is likely that the farm could continue to operate on the remainder of the site during Crossrail construction works. However, temporary closure of part of the farm may also result in loss of animals, as it may not be possible to find alternative accommodation for them.

Supervision will need to be fully considered if partial relocation of the farm is proposed.



8. North Dock, Blackwall Basin and Poplar Basin - British Waterways (Route Window C11)

Context

There are eight boats moored at West India Quay including a chapel, an art gallery, and a couple of residential vessels.

Poplar Dock has 90 berths, mostly for recreational use. Blackwell Basin has 20 berths for larger vessels. These are all residential. Moorings on Poplar Dock and Blackwall Basin have annual licenses. Berths are well subscribed and there is a long waiting list of users. There are very few alternative moorings in Central London. Alternatives include South Dock (Rotherhithe), St Katherine's Dock, Shadwell Basin and Limehouse Basin.

The North Dock host events, for example music festivals. These could be moved to other dock locations.

Issues

The redevelopment of Wood Wharf may include the provision of a new canal that would re-route access to Poplar Dock and Blackwall Basin, circumventing the need for access via the North Dock. However, it is unlikely that this development will be completed by the time that Crossrail construction works commence. The development of Wood Wharf is anticipated to commence in 2007/08 and it is unlikely that the canal infrastructure would be completed before 2010.

Locking boats into the Poplar Dock and Blackwall Basin for a period of five years would raise concerns about water quality, amenity, and access for maintenance as all boats need to leave the dock for repairs.

Users could be offered an option to relocate during construction works upon renewal of licenses.

British Waterways is also concerned about the navigability of the North Dock post construction works, particularly around the shaft on the east side of the Dock.



9. Eleanor Street travellers' caravan park (Route Window C12)

Context

The travellers emphasise that the caravan site at Eleanor Street provides their community with a permanent residential site. The caravan site is not a temporary base for travellers, but a permanent site that has been there for 22 years. Many of the residents have been living on the site since it opened. The caravan site offers security to the travelling community.

There are very few caravans, which are towable, with many residents living in brick foundation chalet bungalows.

The travellers see themselves as part of the Tower Hamlets local community:

- children attend local schools, colleges and local clubs
- travellers are registered with local GPs
- good relationships have been built up between the travellers and the wider local community

Issues

The travellers are concerned that the ventilation shaft will cause problems for site residents and young families. They have asked for reasons why an alternative location for the shaft and worksite is not possible.

They will not consider a temporary relocation and do not want to be re-housed in permanent residential accommodation.



10. London Borough of Tower Hamlets – Proposed Football pitches at Mile End Park (Route Window C12)

Context

Proposals for seven mini soccer pitches, funded by the Millennium Commission, are part of a wider scheme to improve sports facilities in Mile End Park. The pitches are planned to be complete in January 2005. The primary users of the sports facilities will be aged between 7-11 years.

Issues

LB Tower Hamlets request that the reconstruction of the coach parking area and the affected football pitch be carried out prior to the construction of the Mile End Park shaft. Any closure of the facility, either temporary or permanent may result in compensation claims from external funding partners.

LB Tower Hamlets are concerned about the health and safety implications for users of the park and leisure facilities, both during construction and operation.

11. West Ham United Football Club (Route Window NE8)

Context

The training facilities are vital for training the West Ham United FC first team. Facilities also include medical facilities and training facilities for the Youth Academy, including an indoor 60x40 pitch.

Issues

The West Ham United FC are concerned about the temporary loss of the gymnasium, but consider that the Crossrail construction works could be a catalyst for changes which could benefit the Club in the long term:

The Club has aspirations to extend their training space into Westland's Playing Fields and, in return, to provide LB Havering with playing fields or artificial pitches for wider community use.

It is understood that St Edwards school could be interested in purchasing Westland's Rough from LB Barking & Dagenham in order to expand the school's facilities.

Existing access to the Club is via Saville Road. Permanent access to the Club through the Westland's Playing Fields, by utilising the proposed temporary access to the Crossrail construction worksite, would improve the residential amenity of Saville Road.



12. Westland's Playing Fields (Route Window NE8)

Context

The Westland's playing fields comprise 12 playing pitches comprising:

- 2 x full size football pitches
- 2 x 7-a-side football pitches
- 3 x rugby pitches
- 5 x junior pitches
- 2 x training grids

The pitches are used by the following groups:

- Ferns Junior FC
- Boys Brigade
- West Ham United FC
- Old Edwardians RFC
- Roneo Colts FC
- Country Park FC
- All Saints FC
- Havering Sixth Form College
- The Royal Liberty School
- Romford & Gidea Park RFC
- St Edwards CE Comprehensive School
- Crowlands Junior School
- The Mawney School
- The Manor Primary
- St Edwards CE Primary
- Edwin Lambert School



Issues

The loss of the playing fields for up to five years will have a significant impact on the provision of sports facilities in the Borough, as this is a facility shared by a number of community users not just St Edwards school.

The education authority are investing in the improvement of the existing facilities and have recently received lottery funding to develop new tennis courts and redevelop the pavilion. These improvements are planned for completion in the next year.

St Edwards School have aspirations to develop part of Westland's Rough for playing fields.

The layout of the playing pitches was re-arranged in August 2004 to meet Sport England standards.

Alternative sports facilities are already well used and unlikely to be able to accommodate the users of Westland's playing fields.

Temporary relocation of playing pitches during Crossrail construction would require a secure facility, within a reasonable distance of existing users.