



# **Preliminary Environmental Information Report**

## **Volume 4 Appendix 14.2**

Noise and Vibration Summary Tables for Likely Significant and  
Non-Significant Environmental Effects

## Noise and Vibration Summary Tables

### 1 Potential Likely Significant Construction Effects

**Table 1: Potential Likely Significant Construction Effects Summary Table**

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Thames Street Residential (R001)	Sunbury Weir; Creation/use of construction compounds	General construction activities (land); Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site); Sheet piling	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects; Investigate use of alternative piling methods that reduce noise and vibration where practicable.
<u>Residential receptors</u> Wheatley's Eyot (R004)  Willow's Way (R005)  Nettlefold Place (R006)  Waterside Drive (R010)  Parke Road (R011)  Hampton Court Crescent and Hurst Road (R020)  Thames Point (R031)  Thamesgate Close Residential (R137)  Fordbridge Park Residential (R139)  Bridge Road and Chaseside Gardens Residential (R141)  <u>Non-residential receptors</u> Thameside House office (R025)	Creation/use of construction compounds	Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential and non-residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects  Site specific mitigation measures at non-residential receptors may include management techniques; physical mitigation such as barriers; or monitoring.

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Astoria Recording Studio (R026) Twickenham Sea Cadets training centre (R035)				
<u>Residential receptors</u> Hampton Court Road (R014) Ash Island (R015) Tagg's Island (R016)	Molesey Weir; Creation/use of construction compounds	General construction activities (water); Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site); Sheet piling	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects; Investigate use of alternative piling methods that reduce noise and vibration where practicable.
<u>Residential receptors</u> Quay West Court (R027) Lock Houses, Teddington Lock (R028) <u>Non-residential</u> 27 Ferry Road office (R030)	Teddington Weir; Creation/use of construction compounds	General construction activities (water); Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site); Sheet piling	Negative  Airborne noise causing a temporary (short-term) disturbance to residential and non-residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects; Investigate use of alternative piling methods that reduce noise and vibration where practicable.  Site specific mitigation measures at non-residential receptors may include management techniques; physical mitigation such as barriers; or monitoring.
Teddington School (R038)	Creation/use of construction compounds	Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to non-residential receptors near construction areas.	Additional location specific best practicable means and/or receptor specific noise mitigation.  Site specific mitigation measures may include management techniques such as carrying out noisy activities at less sensitive times; physical mitigation such as barriers; or monitoring.

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
<p><u>Residential receptors</u>                      Grove Way and The Drive (R039)</p> <p>Arran Way, Farm Road, Sherriff Close and Douglas Road (R040)</p> <p>Grove Farm (R043)</p> <p>Oak Tree Close, Umberstones, Knowle Grove, Morningside Close (R045)</p> <p>Eden Farm (R046)</p> <p>Old Mill Place, Coppermill Road, Whitehall Lane (R051)</p> <p>Laleham Reach and The Lane Penton Park (R084)</p> <p>Friars Way and Staines Lane (R092)</p> <p>Ten Acre Lane (R077)</p> <p>Coldharbour Lane, Norlands Lane, Ten Acre Lane (R081)</p> <p>Abbey Gardens, Bridge Road and Colonels Lane (R095)</p> <p>Las Palmas Estate (R117)</p> <p>Penton Park Residential (R085)</p>	<p>Priority areas for habitat creation, enhancement or mitigation</p>	<p>Habitat improvements and planting; Movement of construction vehicles, equipment and operatives (on site)</p>	<p>Negative</p> <p>Temporary (short-term) airborne noise impact identified on a precautionary basis where earthmoving and associated construction activities may occur. This impact would cause a disturbance to residential receptors near construction areas.</p>	<p>Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects.</p>

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Cranmere Primary School (R044) TASIS The American International School in England (R079) Thorpe Nursery Preschool (R080)	Priority areas for habitat creation, enhancement or mitigation	Habitat improvements and planting; Movement of construction vehicles, equipment and operatives (on site)	Negative  Temporary (short-term) airborne noise impact identified on a precautionary basis where earthmoving and associated construction activities may occur; This impact would cause a disturbance to non-residential receptors near construction areas.	Additional location specific best practicable means and/or receptor specific noise mitigation.  Site specific mitigation measures may include management techniques such as carrying out noisy activities at less sensitive times; physical mitigation such as barriers; or monitoring.
Residential receptors Lacey Close, Bishops Way, Hythe Field Avenue (R053)  Bowes Road, Cornwall Way, Chertsey Way, St Pauls Road, Wapshott Road (R054)  Mayfield Gardens, Timsway, Chertsey Lane, Bundys Way (R055)	New green open spaces; Temporary materials processing sites; Temporary material storage sites; Areas of enhanced public connection	Use of materials processing sites; Temporary stockpiling of materials; General construction activities (land); Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects.
Thorpe Lea Primary School (R057)  The Magna Carta School (R071)	New green open spaces; Temporary materials processing sites; Temporary material storage sites; Areas of enhanced public connection	Use of materials processing sites; Temporary stockpiling of materials; General construction activities (land); Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-	Negative  Airborne noise causing a temporary (short-term) disturbance to non-residential receptors near construction areas.	Additional location specific best practicable means and/or receptor specific noise mitigation.  Site specific mitigation measures to be investigated may include, where practicable, management techniques such as carrying out noisy activities at less sensitive times; physical mitigation such as barriers; or monitoring.
Chertsey Lane (R060)  Chertsey Lane (R063)	New green open spaces; Temporary materials processing sites; Temporary material storage sites; Areas of enhanced public connection; Runnymede Channel; Construction compounds	Use of materials processing sites; Temporary stockpiling of materials; General construction activities (land); Material excavation (contaminated); Material excavation (natural ground); General construction activities (water); Sheet piling; Creation/use of construction compounds; Construction of road bridges; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of hazardous waste;	Negative  Airborne noise and vibration causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects; Investigate use of alternative piling methods that reduce noise and vibration where practicable.

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
		Processing / placement of non-hazardous waste; Demolition of buildings		
Riverside Road, Riverside Close, Wheatsheaf Lane, Thames Side (R061)	Runnymede Channel; Construction compounds	General construction activities (land); Material excavation (natural ground); General construction activities (water); Creation/use of construction compounds; Construction of road bridges; Movement of construction vehicles, equipment and operatives (on site); Sheet piling	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects; Investigate use of alternative piling methods that reduce noise and vibration where practicable.
Moorfields Close, Chertsey Lane, Ferry Avenue, Craigwell Close, Green Lane (R065)	New green open spaces; Temporary materials processing sites; Temporary material storage sites; Areas of enhanced public connection; Runnymede Channel; Construction compounds; New blue open spaces; Flood embankments and Erosion prevention	Use of materials processing sites; Temporary stockpiling of materials; General construction activities (land); Demolition of buildings; Material excavation (contaminated); Material excavation (natural ground); General construction activities (water); Sheet piling; Creation/use of construction compounds; Construction of road bridges; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise and vibration causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects; Investigate use of alternative piling methods that reduce noise and vibration where practicable.
Green Lane Residential (R067)	Runnymede Channel; Priority areas for habitat creation, enhancement or mitigation; Areas of enhanced public connection; New blue open spaces; Flood embankments and Erosion prevention	General construction activities (land); Material excavation (contaminated); Material excavation (natural ground); Sheet piling; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise and vibration causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects; Investigate use of alternative piling methods that reduce noise and vibration where practicable.
<u>Residential receptors</u>  Redwood, Thorpside Close, Blakett Close, Norlands Lane (R073)  Holland Gardens, Norlands Lane (R075)	Runnymede Channel; Priority areas for habitat creation, enhancement or mitigation; Areas of enhanced public connection; New blue open spaces; Construction compounds	General construction activities (land); Material excavation (contaminated); Creation/use of construction compounds; Sheet piling; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise and vibration causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects; Investigate use of alternative piling methods that reduce noise and vibration where practicable.

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Penton Park Residential (R088)	Priority areas for habitat creation, enhancement or mitigation; New green open spaces	Habitat improvements and planting; General construction activities (land); Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects.
Penton Community and Social Centre (R091)  The Orchard Dementia Care Centre (R094)	Priority areas for habitat creation, enhancement or mitigation	Habitat improvements and planting; Movement of construction vehicles, equipment and operatives (on site)	Negative  Temporary (short-term) airborne noise impact identified on a precautionary basis where earthmoving and associated construction activities may occur. This impact would cause a disturbance to residential receptors near construction areas.	Additional location specific best practicable means and/or receptor specific noise mitigation.  Site specific mitigation measures may include management techniques; physical mitigation such as barriers; or monitoring.
Abbey Chase Residential (R097)	Priority areas for habitat creation, enhancement or mitigation; Runnymede Channel; Chertsey Weir fish passage; Construction compounds	Habitat improvements and planting; Material excavation (natural ground); General construction activities (land); General construction activities (water); Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site); Sheet piling	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects; Investigate use of alternative piling methods that reduce noise and vibration where practicable.
Abbey Chase Residential Nursing Home (R098)	Priority areas for habitat creation, enhancement or mitigation; Runnymede Channel; Chertsey Weir fish passage; Construction compounds	Habitat improvements and planting; Material excavation (natural ground); General construction activities (land); General construction activities (water); Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site); Sheet piling	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means and/or receptor specific noise mitigation; Investigate use of alternative piling methods that reduce noise and vibration where practicable.  Site specific mitigation measures may include management techniques; physical mitigation such as barriers; or monitoring.



Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Bridge Road and Abbeyfields Residential (R099)	Runnymede Channel; Chertsey Weir fish passage; Construction compounds; Flood embankments and Erosion prevention; New pedestrian / cycle bridges crossing River Thames at Chertsey and Desborough	Material excavation (natural ground); General construction activities (land); General construction activities (water); Creation/use of construction compounds; Sheet piling; Construction of new pedestrian / cycle bridges at Chertsey and Desborough; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise and vibration causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means and/or receptor specific noise mitigation; Investigate use of alternative piling methods that reduce noise and vibration where practicable.
The Cottage Ferry Lane Residential (R100)	Runnymede Channel; Priority areas for habitat creation, enhancement or mitigation; Temporary material storage sites; Flood embankments and Erosion prevention	Material excavation (natural ground); General construction activities (land); Temporary stockpiling of materials; Habitat improvements and planting; Sheet piling; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects; Investigate use of alternative piling methods that reduce noise and vibration where practicable.
Chertsey Road, Dockett Eddy Lane Residential (R103)	Priority areas for habitat creation, enhancement or mitigation; Temporary materials processing sites; Construction compounds; New green open spaces; Temporary material storage sites	Temporary stockpiling of materials; General construction activities (land); Creation/use of construction compounds; Use of materials processing sites; Habitat improvements and planting; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects.
Chertsey Road Residential (R104)	Spelthorne Channel; Priority areas for habitat creation, enhancement or mitigation; Temporary materials processing sites; Construction compounds; New green open spaces; Road realignments; New blue open spaces	Temporary stockpiling of materials; General construction activities (land); Sheet piling; Material excavation (contaminated); Creation/use of construction compounds; Use of materials processing sites; Habitat improvements and planting; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise and vibration causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects; Investigate use of alternative piling methods that reduce noise and vibration where practicable.
Dockett Eddy, Towpath, Mead Lane Residential (R105)	Priority areas for habitat creation, enhancement or mitigation; Temporary materials processing sites; Construction compounds; New green open spaces; Temporary material storage sites; Temporary wharfs (River Thames)	use of temporary wharfs and mobile pontoons; Temporary stockpiling of materials; General construction activities (land); Creation/use of construction compounds; Use of materials processing sites; Habitat improvements and planting; General construction activities (water); Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects.



Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Towpath, Abbey Road, Park Road Residential (R107)	Priority areas for habitat creation, enhancement or mitigation; Temporary materials processing sites; Construction compounds; New green open spaces; Temporary material storage sites; Spelthorne Channel	Temporary stockpiling of materials; General construction activities (land); Creation/use of construction compounds; Use of materials processing sites; Habitat improvements and planting; General construction activities (water); Material excavation (contaminated); Sheet piling; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects; Investigate use of alternative piling methods that reduce noise and vibration where practicable.
Ferry Lane Residential (R108)	Priority areas for habitat creation, enhancement or mitigation; Temporary materials processing sites; New green open spaces; Temporary material storage sites; Spelthorne Channel	Temporary stockpiling of materials; General construction activities (land); Use of materials processing sites; Habitat improvements and planting; General construction activities (water); Material excavation (contaminated); Sheet piling; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise and vibration causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects; Investigate use of alternative piling methods that reduce noise and vibration where practicable.
Ferry Lane Residential (R109)	Construction compounds; Spelthorne Channel	General construction activities (land); Material excavation (natural ground); Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects.
Chertsey Road, St Nicholas Drive, Range Way, Farm Close and Desborough Close Residential (R112)	Spelthorne Channel; Priority areas for habitat creation, enhancement or mitigation; Temporary materials processing sites; Construction compounds; New green open spaces; Road realignments; New blue open spaces	Temporary stockpiling of materials; General construction activities (land); Sheet piling; Material excavation (contaminated); Creation/use of construction compounds; Use of materials processing sites; Habitat improvements and planting; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects; Investigate use of alternative piling methods that reduce noise and vibration where practicable.

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
School Lane, Burchetts Way, Old Forge Crescent, High Street (R114)	New green open spaces; Construction compounds; Temporary material storage sites; Temporary materials processing sites	General construction activities (land); Creation/use of construction compounds; Use of materials processing sites; Temporary stockpiling of materials; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects.
St Nicholas Primary School (R115)	New green open spaces; Construction compounds; Temporary material storage sites; Temporary materials processing sites	General construction activities (land); Creation/use of construction compounds; Use of materials processing sites; Temporary stockpiling of materials; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to non-residential receptors near construction areas.	Additional location specific best practicable means and/or receptor specific noise mitigation.  Site specific mitigation measures may include management techniques such as carrying out noisy activities at less sensitive times; physical mitigation such as barriers; or monitoring.
<u>Residential receptors</u>  Walton Lane (Desborough Island) (R122)  Thames Meadow (R123)	Bed lowering downstream of Desborough Cut; Construction compounds	Bed lowering; General construction activities (water); Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas, including from barge movements associated with the bed lowering downstream of Desborough Cut.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects.
<u>Residential receptors</u>  River Ash Estate, Penny Lane, Riverside, The Crescent, Swan Walk (R124)  Hill Rise, River Mount, Mount Felix, The Ridgeway Residential (R126)	Bed lowering downstream of Desborough Cut	General construction activities (water); Bed lowering; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas including from barge movements associated with the bed lowering downstream of Desborough Cut.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects.

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Dudley Road, Felix Road, Beasley's Ait Lane Residential (R129)	Beasley's Ait fish passage	General construction activities (water); Movement of construction vehicles, equipment and operatives (on site); Sheet piling	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means mitigation measures which can be implemented at location to avoid significant effects; Investigate use of alternative piling methods that reduce noise and vibration where practicable.
Thorpe Hay Meadow SSSI (R132)	New green open spaces; Temporary materials processing sites; Temporary material storage sites; Areas of enhanced public connection; Runnymede Channel; Construction compounds; New blue open spaces; Flood embankments and Erosion prevention	Use of materials processing sites; Temporary stockpiling of materials; General construction activities (land); Demolition of buildings; Material excavation (contaminated); Material excavation (natural ground); General construction activities (water); Sheet piling; Creation/use of construction compounds; Construction of road bridges; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to the open green space prized by people for its tranquillity near construction areas.	Additional location specific best practicable means and/or receptor specific noise mitigation; Investigate use of alternative piling methods that reduce noise and vibration where practicable.  Site specific mitigation measures may include management techniques; physical mitigation such as barriers; or monitoring.
Receptors in close proximity to car parks (tbc)	Off-site car parks for construction workers	Establishment and use of off-site car parks including associated traffic movements	Potential temporary (short-term) impacts during construction on all receptors.	Additional location specific best practicable means and/or receptor specific noise mitigation.  The selection and design of these car parks is yet to be undertaken, at which point the need for and nature of any secondary mitigation will be considered.
Sunbury Walled Gardens (R135)	Sunbury Weir; Creation/use of construction compounds	General construction activities (land); Movement of construction vehicles, equipment and operatives (on site); Sheet piling	Negative  Airborne noise causing a temporary (short-term) disturbance to the open green space prized by people for its tranquillity near construction areas.	Additional location specific best practicable means and/or receptor specific noise mitigation; Investigate use of alternative piling methods that reduce noise and vibration where practicable.  Site specific mitigation measures may include management techniques; physical mitigation such as barriers; or monitoring.

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Old Littleton Road and Chertsey Road Residential (R143)	New green open spaces	General construction activities (land); Movement of construction vehicles, equipment and operatives (on site); Demolition of buildings	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.	Additional location specific best practicable means and/or receptor specific noise mitigation. Site specific mitigation measures may include management techniques; physical mitigation such as barriers; or monitoring.

## 2 Potential Likely Significant Operational Effects

**Table 2: Potential Likely Significant Operational Effects Summary Table**

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Thames Street Residential (R001)	Sunbury Weir	Use of flow control structures; Existence of the flood channel and other components	Negative  Airborne noise causing a disturbance to residential receptors.	Operational noise mitigation.  Operation and maintenance to be reviewed to mitigate and minimise any negative noise effects. Noise associated with weir maintenance is assumed not to be significant.
Quay West Court Residential (R027)	Teddington Weir	Use of flow control structures; Existence of the flood channel and other components	Negative  Airborne noise causing a disturbance to residential receptors.	Operational noise mitigation.  Operation and maintenance to be reviewed to mitigate and minimise any negative noise effects. Noise associated with weir maintenance is assumed not to be significant.

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
<p><u>Residential receptors</u></p> <p>Lacey Close, Bishops Way, Hythe Field Avenue (R053)</p> <p>Bowes Road, Cornwall Way, Chertsey Way, St Pauls Road, Wapshott Road (R054)</p> <p>Mayfield Gardens, Timsway, Chertsey Lane, Bundys Way (R055)</p> <p>Chertsey Lane (R060)</p> <p>Chertsey Lane (R063)</p> <p>Moorfields Close, Chertsey Lane, Ferry Avenue, Craigwell Close, Green Lane (R065)</p> <p>Penton Park Residential (R088)</p> <p>Chertsey Road, Dockett Eddy Lane (R103)</p> <p>Chertsey Road (R104)</p> <p>Dockett Eddy, Towpath, Mead Lane (R105)</p> <p>Towpath, Abbey Road, Park Road (R107)</p> <p>Ferry Lane (R108)</p> <p>Chertsey Road, St Nicholas Drive, Range Way, Farm Close and Desborough Close (R112)</p> <p>School Lane, Burchetts Way, Old Forge Crescent, High Street (R114)</p> <p>Old Littleton Road and Chertsey Road (R143)</p> <p>Noise sensitive receptors adjacent to existing off-site roads (Spatial location to</p>	<p>New green open spaces</p>	<p>Use of publicly accessible areas</p>	<p>Negative</p> <p>Airborne noise impact identified on a precautionary basis where noise generating activities may occur within green open spaces. Frequency and duration of potential impact currently unknown. This impact may cause a disturbance to residential receptors.</p>	<p>Operational noise mitigation.</p> <p>Noise mitigation may be required to avoid significant effects e.g. restricted hours of operation, screening, limitations on operation of noise generating activities.</p>

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
<p>be defined at the ES stage when traffic data is available)</p> <p><u>Non-residential receptors</u></p> <p>Thorpe Lea Primary School (R057)</p> <p>The Magna Carta School (R071)</p> <p>St Nicholas Primary School (R115)</p>				
<p>Abbey Chase Residential (R097)</p> <p>Abbey Chase Residential Nursing Home (R098)</p>	<p>Chertsey Weir fish passage</p>	<p>Use of flow control structures; Existence of the flood channel and other components</p>	<p>Negative</p> <p>Airborne noise causing a disturbance to residential receptors.</p>	<p>Operational noise mitigation.</p> <p>Operation and maintenance to be reviewed to mitigate and minimise any negative noise effects. Noise associated with weir maintenance is assumed not to be significant.</p>
<p>Thorpe Hay Meadow SSSI (R132)</p>	<p>New green open spaces</p>	<p>Use of publicly accessible areas</p>	<p>Negative</p> <p>Airborne noise causing a disturbance to the open green space prized for its tranquillity.</p>	<p>Operational noise mitigation.</p> <p>Noise mitigation may be required to avoid significant effects e.g. restricted hours of operation, screening, limitations on operation of noise generating activities.</p>

### 3 Non-Significant Construction Effects

**Table 3: Non-Significant Construction Effects Summary Table**

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
<p><u>Residential receptors</u>                      Abbey Gardens and Colonels Lane (R096)                       Blair Ave, Douglas Road, Cranbrook Drive, The Drive and Grove Way (R041)                       Coldharbour Lane (R082)                       Farm Road, Douglas Road, Sherriff Close, Mill Road (R042)                       Friars Way and Staines Lane (R093)                       Laleham Reach (R086)                       Las Palmas Estate, Church Square, Church Road, Sandhills Meadow (R118)                       Lyne Road (R047)                       Moor Lane (R049)                       Northern Burway and Laleham Reach (R087)                       Rifle Range Cottage, Moor Lane (R048)                       Ten Acre Lane and Green Lane (R078)   <u>Non-residential receptors</u>                       Coppermill Road office (R052)                       Moor Lane Commercial (Office) (R050)                       Thorpe Industrial Estate offices (R076)</p>	<p>Priority areas for habitat creation, enhancement or mitigation</p>	<p>Habitat improvements and planting;                      Movement of construction vehicles, equipment and operatives (on site)</p>	<p>Negative                       Temporary (short-term) airborne noise impact identified on a precautionary basis where earthmoving and associated construction activities may occur. This impact would cause a disturbance to residential and non-residential receptors near construction areas but magnitude of effect at the receptor is expected to be below the relevant threshold for significant effects.</p>	<p>The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.</p>



Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
<p><u>Residential receptors</u></p> <p>Willow's Way (R007)</p> <p>Wheatley's Eyot (R009)</p> <p>Hampton Court Road (R023)</p> <p>Albany Park Road (R033)</p> <p>Trowlock Island (R034)</p> <p>Fairways, Thameside, Marina Way (R032)</p> <p>Garrick's Ait (R022)</p> <p>Nettlefold Place (R008)</p> <p>Rivermead, Winchilsea Crescent, Buckingham Gardens (R024)</p> <p>Thamesgate Close, Tideway Close, Locksmeade Road Residential (R138)</p> <p>Fordbridge Park Residential (R140)</p> <p>Chaseside Gardens Residential (R142)</p> <p><u>Non-residential receptors</u></p> <p>Albany park Canoe and Sailing Centre (R036)</p> <p>Elmbridge Xcel Leisure Complex (R012)</p> <p>Rowing/Sailing clubs on Trowlock Way (R037)</p> <p>Weir Hotel (R013)</p>	<p>Creation/use of construction compounds</p>	<p>Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site)</p>	<p>Negative</p> <p>Airborne noise causing a temporary (short-term) disturbance to residential receptors and non-residential near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.</p>	<p>The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.</p>
<p>Ash Island Residential (R017)</p> <p>Hampton Court Road (R018)</p> <p>Tagg's Island (R019)</p>	<p>Molesey Weir; Creation/use of construction compounds</p>	<p>General construction activities (water); Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site); Sheet piling</p>	<p>Negative</p> <p>Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas.</p>	<p>The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.</p>

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Bowes Road, Cornwall Way, Chertsey Way, St Pauls Road, Wapshott Road, Monsell Gardens, Tillers Close (R058)  Coppers Close, Chertsey Lane, Bundys Way, Timsway, Mayfield Gardens (059)	New green open spaces; Temporary materials processing sites; Temporary material storage sites; Areas of enhanced public connection	Use of materials processing sites; Temporary stockpiling of materials; General construction activities (land); Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Chertsey Camping and Caravanning Club Site (R136)	Runnymede Channel; Chertsey Weir fish passage; Construction compounds; Flood embankments and Erosion prevention; New pedestrian / cycle bridges crossing River Thames at Chertsey and Desborough	Material excavation (natural ground); General construction activities (land); General construction activities (water); Creation/use of construction compounds; Sheet piling; Construction of new pedestrian / cycle bridges at Chertsey and Desborough; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to non-residential receptors near construction areas. The magnitude of effect at the receptor is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Broom Road, Ferry Road, Manor Road, Twickenham Road, Pinewood Gardens Residential (R029)	Teddington Weir; Creation/use of construction compounds	General construction activities (water); Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site); Sheet piling	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Dockett Eddy Lane Residential (R102)	Priority areas for habitat creation, enhancement or mitigation; Temporary materials processing sites; Construction compounds; New green open spaces; Temporary material storage sites	Temporary stockpiling of materials; General construction activities (land); Creation/use of construction compounds; Use of materials processing sites; Habitat improvements and planting; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Chertsey Road, St Nicholas Drive, Range Way, Farm Close and Desborough Close Residential (R113)	Spelthorne Channel; Priority areas for habitat creation, enhancement or mitigation; Temporary materials processing sites; Construction compounds; New green open spaces; Road realignments; New blue open spaces	Temporary stockpiling of materials; General construction activities (land); Sheet piling; Material excavation (contaminated); Creation/use of construction compounds; Use of materials processing sites; Habitat improvements and planting; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Coldharbour Lane Residential (R083)	Runnymede Channel; Construction compounds	Material excavation (contaminated); General construction activities (land); Sheet piling; Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Craigwell Close, Moorfields Close, Green Lane, Chertsey Lane (R070)	New green open spaces; Temporary materials processing sites; Temporary material storage sites; Areas of enhanced public connection; Runnymede Channel; Construction compounds; New blue open spaces	Use of materials processing sites; Temporary stockpiling of materials; General construction activities (land); Demolition of buildings; Material excavation (contaminated); Material excavation (natural ground); General construction activities (water); Sheet piling; Creation/use of construction compounds; Construction of road bridges; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Felix Lane, The Crescent, Walton bridge Road, Penny Lane, River Ash Estate, Swan Walk Residential (R125)  Hill Rise, River Mount, Mount Felix, The Ridgeway, Bridge Close Residential (R128)	Bed lowering downstream of Desborough Cut	General construction activities (water); Bed lowering; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas including from barge movements associated with the bed lowering downstream of Desborough Cut. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Felix Road, The Halliards, Dudley Road, Lower Ash Estate Residential (R130)	Beasley's Ait fish passage	General construction activities (water); Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
High Street, Glebeland Gardens, Mervyn Road, Russel Road, Shepherds Close, Old Forge Crescent, Grant Close, Burchetts Way, Manor Farm Avenue, Westbury Close, Cliveden Place, Mere Road Residential (R116)	New green open spaces; Construction compounds; Temporary material storage sites; Temporary materials processing sites	General construction activities (land); Creation/use of construction compounds; Use of materials processing sites; Temporary stockpiling of materials; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Lacey Close, Bishops Way, Hythe Field Avenue, Huntingfield Way, Oak Avenue Residential (R056)	New green open spaces; Temporary materials processing sites; Temporary material storage sites; Areas of enhanced public connection	Use of materials processing sites; Temporary stockpiling of materials; General construction activities (land); Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Local Nature Reserve: Chertsey Meads (R134)	Priority areas for habitat creation, enhancement or mitigation; Temporary materials processing sites; Construction compounds; New green open spaces; Temporary material storage sites	Temporary stockpiling of materials; General construction activities (land); Creation/use of construction compounds; Use of materials processing sites; Habitat improvements and planting; Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to the open green space prized by people for its tranquillity near construction areas. The magnitude of effect at the receptor is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Noise sensitive receptors adjacent to existing off-site roads (Spatial location to be defined at the ES stage when traffic data is available)	All project components	Movement of construction vehicles, equipment and operatives (off site)	Negative  Airborne noise causing a disturbance to residential and non-residential receptors near existing roads affected by construction. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Peket Close, Clyve Way, Weir Place, Aymer Close, Aymer Drive, Green Lane Residential (R072)	Runnymede Channel; Priority areas for habitat creation, enhancement or mitigation; Areas of enhanced public connection; New blue open spaces	General construction activities (land); Material excavation (contaminated); Sheet piling; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Penton Park Residential (R089)	Priority areas for habitat creation, enhancement or mitigation; New green open spaces	Habitat improvements and planting; General construction activities (land); Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptor is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Riverside Road, Riverside Close, Thames Side, Wheatsheaf Lane (R068)	Runnymede Channel; Construction compounds	General construction activities (land); Material excavation (natural ground); General construction activities (water); Creation/use of construction compounds; Construction of road bridges; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
The Riverside, Hampton Court Crescent and Hurst Road Residential (R021)	Molesey Weir; Creation/use of construction compounds	General construction activities (water); Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site); Sheet piling	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Thames Side Residential (R101)	Spelthorne Channel; Temporary material storage sites	Material excavation (natural ground); Temporary stockpiling of materials; General construction activities (land); Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.



Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Ferry Lane Residential (R110)	Construction compounds; Spelthorne Channel	General construction activities (land); Material excavation (natural ground); Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Waterside Drive Residential (R002) Thames Street Residential (R003)	Sunbury Weir; Creation/use of construction compounds	General construction activities (land); Creation/use of construction compounds; Movement of construction vehicles, equipment and operatives (on site); Sheet piling	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Thameside Residential (R131)	Flood embankments and Erosion prevention	Sheet piling; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptor is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Thorpe Park No.1 Gravel Pit SSSI (and part of South West London Waterbodies SPA) (R133)	Runnymede Channel; Priority areas for habitat creation, enhancement or mitigation	General construction activities (land); Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to the open green space prized by people for its tranquillity near construction areas. The magnitude of effect at the receptor is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Thorpside Close, Blackett Close, Clive Way, Holland Gardens, Chertsey Lane, Residential (R074)	Runnymede Channel; Priority areas for habitat creation, enhancement or mitigation; Areas of enhanced public connection; New blue open spaces; Construction compounds	General construction activities (land); Material excavation (contaminated); Creation/use of construction compounds; Sheet piling; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptor is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Towpath, Abbey Road, Park Road Residential (R106)	Priority areas for habitat creation, enhancement or mitigation; Temporary materials processing sites; Construction compounds; New green open spaces; Temporary material storage sites; Temporary wharfs (River Thames)	use of temporary wharfs and mobile pontoons; Temporary stockpiling of materials; General construction activities (land); Creation/use of construction compounds; Use of materials processing sites; Habitat improvements and planting; General construction activities (water); Movement of construction vehicles, equipment and operatives (on site); Processing / placement of hazardous waste; Processing / placement of non-hazardous waste	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptor is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Walton Lane Residential (R111)	Spelthorne Channel; Priority areas for habitat creation, enhancement or mitigation; New pedestrian / cycle bridges crossing River Thames at Chertsey and Desborough	General construction activities (land); Material excavation (natural ground); Habitat improvements and planting; Construction of new pedestrian / cycle bridges at Chertsey and Desborough; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptor is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Walton Lane Residential (R119)	Priority areas for habitat creation, enhancement or mitigation; New pedestrian / cycle bridges crossing River Thames at Chertsey and Desborough	Habitat improvements and planting; Construction of new pedestrian / cycle bridges at Chertsey and Desborough; Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptor is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.
Chertsey Bridge Road and Dumsey Eyot Residential (R144)	New green open spaces	General construction activities (land); Movement of construction vehicles, equipment and operatives (on site)	Negative  Airborne noise causing a temporary (short-term) disturbance to residential receptors near construction areas. The magnitude of effect at the receptor is expected to be below the relevant threshold for significant effects.	The identified tertiary mitigation is sufficient in reducing this effect so that it is not significant. No secondary mitigation is required.



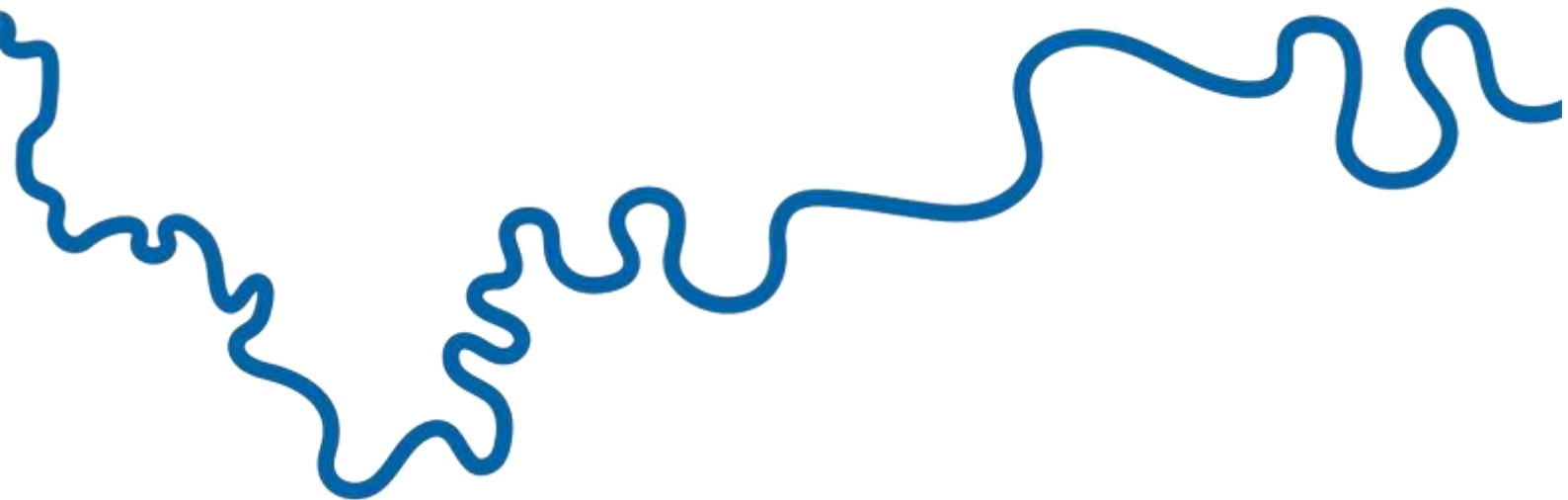
## 4 Non-Significant Operational Effects

**Table 4: Non-Significant Operational Effects Summary Table**

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
<p><u>Residential receptors</u> Lock Houses, Teddington Lock (R028)</p> <p>Thames Point (R031)</p> <p><u>Non-residential receptors</u> 27 Ferry Road office (R030)</p> <p>Teddington School (R038)</p> <p>Twickenham Sea Cadets training centre (R035)</p>	Teddington Weir	Use of flow control structures; Existence of the flood channel and other components	<p>Negative</p> <p>Airborne noise causing a disturbance to residential and non-residential receptors. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.</p>	<p>Operational noise mitigation.</p> <p>Noise associated with weir operation and maintenance is assumed not to be significant, but operation and maintenance to be reviewed to mitigate and minimise any negative noise effects.</p>
<p><u>Residential receptors</u></p> <p>Ash Island (R015)</p> <p>Hampton Court Crescent and Hurst Road (R020)</p> <p>Hampton Court Road (R014)</p> <p>Tagg's Island (R016)</p> <p><u>Non-residential receptors</u> Astoria Recording Studio (R026)</p> <p>Thameside House office (R025)</p>	Molesey Weir	Use of flow control structures; Existence of the flood channel and other components	<p>Negative</p> <p>Airborne noise causing a disturbance to residential and non-residential receptors. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.</p>	<p>Operational noise mitigation.</p> <p>Noise associated with weir operation and maintenance is assumed not to be significant, but operation and maintenance to be reviewed to mitigate and minimise any negative noise effects.</p>
<p><u>Residential receptors</u> Bowes Road, Cornwall Way, Chertsey Way, St Pauls Road, Wapshott Road, Monsell Gardens, Tillers Close (R058)</p> <p>Dockett Eddy Lane (R102)</p> <p>Chertsey Road, St Nicholas Drive, Range Way, Farm Close and Desborough Close (R113)</p> <p>Coppers Close, Chertsey Lane, Bundys Way, Timsway, Mayfield Gardens (R059)</p>	New green open spaces	Use of publicly accessible areas	<p>Negative</p> <p>Airborne noise impact identified on a precautionary basis where noise generating activities may occur within green open spaces. Frequency and duration of potential impact currently unknown. This impact may cause a disturbance to residential receptors however, the magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.</p>	<p>Operational noise mitigation.</p> <p>Although the effect is not likely to be significant, noise mitigation may be required to minimise negative effects e.g. restricted hours of operation, screening, limitations on operation of noise generating activities.</p>

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
<p>High Street, Glebeland Gardens, Mervyn Road, Russel Road, Shepherds Close, Old Forge Crescent, Grant Close, Burchetts Way, Manor Farm Avenue, Westbury Close, Cliveden Place, Mere Road (R116)</p> <p>Lacey Close, Bishops Way, Hythe Field Avenue, Huntingfield Way, Oak Avenue, Park Avenue (R056)</p> <p>Penton Park (R089)</p> <p>Towpath, Abbey Road, Park Road (R106)</p> <p>Chertsey Bridge Road and Dumsey Eyot (R144)</p>				
<p>Dudley Road, Felix Road, Beasley's Ait Lane Residential (R129)</p>	<p>Beasley's Ait fish passage</p>	<p>Use of flow control structures; Existence of the flood channel and other components</p>	<p>Negative</p> <p>Potential permanent impact of airborne noise causing a disturbance to residential receptors. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.</p>	<p>Operational noise mitigation.</p> <p>Fish passage operation assumed not to be significant, but operation to be reviewed to mitigate and minimise any negative noise effects.</p>
<p>Local Nature Reserve: Chertsey Meads (R134)</p>	<p>New green open spaces</p>	<p>Use of publicly accessible areas</p>	<p>Negative</p> <p>Airborne noise causing a disturbance to the open green space prized for its tranquillity. The magnitude of effect at the receptor is expected to be below the relevant threshold for significant effects.</p>	<p>Operational noise mitigation.</p> <p>Although the effect is not likely to be significant, noise mitigation may be required to minimise negative effects e.g. restricted hours of operation, screening, limitations on operation of noise generating activities.</p>
<p><u>Residential receptors</u> Parke Road (R011)</p> <p>Waterside Drive (R010)</p> <p>Wheatley's Eyot (R004)</p> <p>Willow's Way (R005)</p> <p>Nettlefold Place Residential (R006)</p>	<p>Sunbury Weir</p>	<p>Use of flow control structures; Existence of the flood channel and other components</p>	<p>Negative</p> <p>Airborne noise causing a disturbance to residential receptors. The magnitude of effect at the receptors is expected to be below the relevant threshold for significant effects.</p>	<p>Operational noise mitigation.</p> <p>Noise associated with weir operation and maintenance is assumed not to be significant, but operation and maintenance to be reviewed to mitigate and minimise any negative noise effects.</p>

Receptor Name (and Receptor ID – see PEIR Figure 14.1 for receptor locations)	Project Component	Project Activity	Description of Effects	Secondary Mitigation
Noise sensitive receptors in the vicinity of gated flow control structures (to be confirmed in Environmental Statement)	Flow Control Structures	Use of flow control structures	<p>Negative</p> <p>Airborne noise from gate warning klaxon causing a disturbance to the nearby receptors. Warning klaxon(s) may be required during opening and closing of gates at start and end of flood events, estimated approx. one event per year on average. Required locations of warning klaxons to be confirmed subject to design requirements.</p>	<p>Operational noise mitigation.</p> <p>Although the effect is not likely to be significant, noise mitigation may be required to minimise negative effect.</p>
Sunbury Walled Gardens (R135)	Sunbury Weir	Use of flow control structures; Existence of the flood channel and other components	<p>Negative</p> <p>Airborne noise causing a disturbance to the open green space prized for its tranquillity. The magnitude of effect at the receptor is expected to be below the relevant threshold for significant effects.</p>	<p>Operational noise mitigation.</p> <p>Operation and maintenance to be reviewed to mitigate and minimise any negative noise effects. Noise associated with weir maintenance is assumed not to be significant.</p>



The River Thames Scheme represents a new landscape-based approach to creating healthier, more resilient and more sustainable communities by reducing the risk of flooding and creating high quality natural environments.