Appendix A
TfL Bus Map

Buses from Teddington Lock
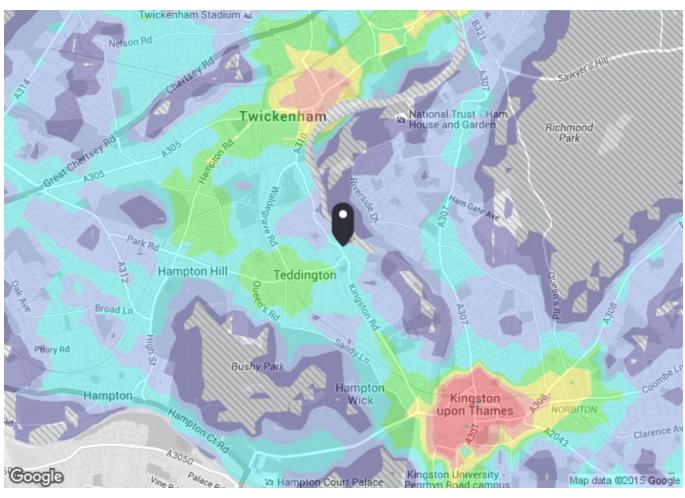
RICHMOND
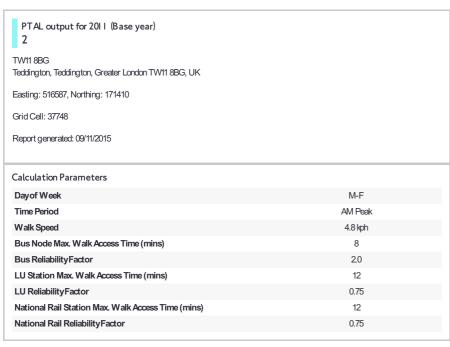
TWICKENHAM

HANWORTH

HAMPTON

KINGSTON

SURBITON

TOLWORTH

The yellow tinted area includes every bus stop up to about one-and-a-half miles from Teddington Lock. Main stops are shown in the white area outside.

Route finder

Day buses including 24-hour services

Bus route		Towards	Bus stops
281 24 hour service		Hounslow	V W X Y Z
		Tolworth	L M P O R
285 24 hour service		Heathrow Airport	V W X Y Z
		Kingston	L M P O R
R68		Hampton Court	T U Z
		Kew Retail Park	L M N

R68 — Kew Retail Park
Mortlake Road for Kew Gardens
Richmond Manor Circus for North Sheen
Richmond
Richmond George Street
Richmond Road St Stephen's Church
York Street
King Street
Heath Road Copthall Gardens
Heath Road Grove Avenue
Cross Deep Poulett Gardens
Cross Deep Popes Grotto
Strawberry Vale Michelham Gardens
Strawberry Vale Mallard Gardens
Twickenham Road Grove Gardens

281 — Hounslow Bus Station
Hounslow
Whitton Road Twickenham Rugby Ground
Whitton Admiral Nelson
Twickenham
Twickenham Green
Hampton Road Prince Albert
Hampton Road Prince of Wales
Hampton Road Sixth Cross Road
South Road
Fulwell
Stanley Road Princes Road
Stanley Road Gloucester Road
Teddington Methodist Church

Hampton Hill High Street
Hampton Road Hampton Hill
Hampton Road National Physical Laboratory
Broad Street for Teddington
Hampton Hill Park Road
Hampton Road Oxford Road
Teddington Memorial Hospital
Teddington High Street

Harlington Corner
Hatton Cross
Minimax Corner
Heathrow Airport North
Feltham
Hanworth Library
Feltham Airparcs Leisure Centre
Heathrow Airport Central Bus Station for Terminals 1,2 and 3
285
Hanworth Apex Corner

Hampton Church

Hampton Court Green for Hampton Court Palace
Thames Riviera

Hampton Court
R68

Kingston Road Fairfax Road
Upper Teddington Road Woffington Close
Hampton Wick
Hampton Wick High Street
Kingston Cromwell Road Bus Station
285
Kingston Bentall Centre
Kingston Eden Street
Kingston Brook Street
Kingston University and County Hall
Claremont Road The Crescent
Surbiton
St Mark's Hill St Mark's Church
Surbiton Hospital
Surbiton Police Station
Tolworth King Charles Road
Tolworth Broadway
281

River Thames

Footpath
Teddington Studios
Sports Ground
Athletic Ground
Collins Primary School

MANOR ROAD
ST ALBANS
TWICKENHAM ROAD
FERRY ROAD
CHURCHMORE ROAD
HIGH STREET
KINGSTON ROAD
BROOM ROAD
KINGSTON LANE
UDNEY PARK ROAD
LANGHAM ROAD
ST WINIFRED'S ROAD
KING EDWARD'S DRIVE
ATBARA ROAD
CROMWELL ROAD
MUNSTER

N T L M U Y Z P X W O R V

Appendix B
WebCAT PTAL Report

TRANSPORT FOR LONDON

PTAL output for 2011 (Base year)	
2	

TW11 8BG
Teddington, Teddington, Greater London TW11 8BG, UK

Easting: 516587, Northing: 171410

Grid Cell: 37748

Report generated: 09/11/2015

Map key - PTAL

▨	0 (Worst)	■	1a
■	1b	■	2
■	3	■	4
■	5	■	6a
■	6b (Best)		

Map layers

🔷 PTAL (cell size: 100m)

Calculation Parameters

Day of Week	M-F
Time Period	AM Peak
Walk Speed	4.8 kph
Bus Node Max. Walk Access Time (mins)	8
Bus Reliability Factor	2.0
LU Station Max. Walk Access Time (mins)	12
LU Reliability Factor	0.75
National Rail Station Max. Walk Access Time (mins)	12
National Rail Reliability Factor	0.75

Copyright TfL 2015

Calculation data

Mode	Stop	Route	Distance (metres)	Frequency(vph)	Walk Time (mins)	SWT (mins)	TAT (mins)	EDF	Weight	AI
Bus	FERRY ROAD/KINGSTON ROAD	281	164.01	7.5	2.05	6	8.05	3.73	1	3.73
Bus	FERRY ROAD/KINGSTON ROAD	285	164.01	6	2.05	7	9.05	3.31	0.5	1.66
Bus	FERRY ROAD/KINGSTON ROAD	R68	164.01	4	2.05	9.5	11.55	2.6	0.5	1.3
									Total Grid Cell AI:	**6.68**

Appendix C
Architect's Layout Plans

Do not scale from this drawing

Flat 2
Private Garden

Structural openings for flood waters,
see section drawing xx

Flat 3
Private Garden

2700   2400   2400   2400   2400   4800   2700

Secure
Cycle
Storage for
10 bicycles

All stairs up to raised
ground floor to be open
tread design

4800

Existing Cycle
Store.

15   14   13   12   11   10   9   8

EXISTING CAR PARK

23648

New close
boarded timber
fence.

NEW CAR PARK

1 in 5 parking bays to have an electric car charging point.

6510

6000

Existing Ramp
down.

Existing
pedestrian
access

1   2   3   4   5   6   7

Lift

2700   2400   2400   2400   2400   1200   1200   2400   2700

4800

4800

Platform lift up
from external
ground level

All stairs up to raised
ground floor to be open
tread design

Structural openings for flood waters,
see section drawing xx

Existing driveway

Flat 4
Private Garden

Bin
Store

Storage
space for 20
cycles.

PLANNING

1 -01 Basement Parking
   1 : 100

Scale Bar

5 meters

20 meters

Indicative

4707	3	51	

1800mm high privacy screen to match existing privacy screens at 4 Manor Road.

Approx 45deg view line

Upper Ground floor entrance to Flat 3A

EXISTING FLATS

Bed 2
Bed 1
Bed 1
Bed 2

En'suite

Flat 12
72.8 m²

Kitchen/Living

Hall
En suite
Bathroom

Kitchen/Living

Bathroom
Cbd
Cbd
Hall
Cbd

Flat 13
73.1 m²

Kitchen/Living

Upper Ground floor entrance to Flats 9 + 10

Cbd
Hall
Hall

Bed 2

Kitchen/Living
Bathroom
Wheel chair space
Smoke Sh.
Cbd

Flat 11
75.8 m²

Bathroom

Flat 14
70.0 m²

Boundary wall to be minimum 1800mm above ground level and to match the height of the existing front wall

Bed 2
Bed 1
UP

Entrance Hall
Bed 1

1800mm high privacy screen to match existing privacy screens at 4 Manor Road.

Balcony
Lft
Platform lift up

Approx 45deg view line

Tree to be relocated

Path

Relocated tree

Bin Store

Store for 20 cycles

① 00 Ground Floor
1 : 100

Gross Internal Area. (Approx)		
Number	Area m²	Area ft²
Flat 3A	64 m²	694 ft²
Flat 9	71 m²	768 ft²
Flat 10	71 m²	769 ft²
Flat 11	76 m²	816 ft²
Flat 12	73 m²	784 ft²
Flat 13	73 m²	786 ft²
Flat 14	70 m²	753 ft²
Flat 15	76 m²	816 ft²
Flat 16	73 m²	784 ft²
Flat 17	73 m²	786 ft²
Flat 18	70 m²	753 ft²
Flat 19	76 m²	816 ft²
Flat 20	73 m²	784 ft²
Flat 21	73 m²	786 ft²
Flat 22	70 m²	753 ft²
Flat 30	0 m²	0 ft²
Flat 31	7 m²	73 ft²
	1089 m²	11722 ft²

Area Schedule of Amenity (Approx)		
Number	Area m²	Area ft²
Flat 3A Balcony Amenity	9 m²	94 ft²
Flat 9 Balcony Amenity	8 m²	88 ft²
Flat 10 Balcony Amenity	7 m²	75 ft²
Flat 11 Balcony Amenity	7 m²	76 ft²
Flat 12 Private Garden Amenity	26 m²	277 ft²
Flat 13 Private Garden Amenity	56 m²	604 ft²
Flat 14 Private Garden Amenity	84 m²	902 ft²
Flat 15 Balcony Amenity	7 m²	76 ft²
Flat 16 Balcony Amenity	7 m²	75 ft²
Flat 17 Balcony Amenity	7 m²	77 ft²
Flat 18 Balcony Amenity	7 m²	76 ft²
Flat 19 Balcony Amenity	7 m²	76 ft²
Flat 20 Balcony Amenity	7 m²	75 ft²
Flat 21 Balcony Amenity	0 m²	0 ft²
Flat 22 Balcony Amenity	7 m²	77 ft²
Grand total: 16	246 m²	2646 ft²

Scale Bar

5 meters

20 meters

Indicative

**Appendix D
TRICS Output**

LIST OF SITES relevant to selection parameters

    1   KI-03-A-01   DETACHED   KINGSTON
       COOMBE RISE

       KINGSTON UPON THAMES
       Suburban Area (PPS6 Out of Centre)
       Residential Zone
       Total Number of dwellings: 12
            Survey date: THURSDAY   24/06/10   Survey Type: MANUAL

    2   KI-03-A-02   DETACHED   KINGSTON
       WOLSEY CLOSE

       KINGSTON UPON THAMES
       Suburban Area (PPS6 Out of Centre)
       Residential Zone
       Total Number of dwellings: 20
            Survey date: THURSDAY   24/06/10   Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

MANUALLY DESELECTED SITES

Site Ref	Reason for Deselection
BT-03-A-01	ghj
KN-03-A-01	ghj
SK-03-A-01	ghj
WE-03-A-01	ghj
WF-03-A-01	hjg

TRICS 7.1.2 140814 B16.51 (C) 2014 JMP Consultants Ltd on behalf of the TRICS Consortium	Tuesday 19/08/14
	Page 2

TTP Consulting   111-113 Great Portland Street   London   Licence No: 752101

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
MULTI-MODAL VEHICLES
Calculation factor: 1 DWELLS
BOLD print indicates peak (busiest) period

	ARRIVALS			DEPARTURES			TOTALS		
Time Range	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	2	16	0.219	2	16	0.469	2	16	0.688
08:00 - 09:00	2	16	0.188	2	16	0.219	2	16	0.407
09:00 - 10:00	2	16	0.156	2	16	0.250	2	16	0.406
10:00 - 11:00	2	16	0.219	2	16	0.125	2	16	0.344
11:00 - 12:00	2	16	0.188	2	16	0.156	2	16	0.344
12:00 - 13:00	2	16	0.313	2	16	0.438	2	16	0.750
13:00 - 14:00	2	16	0.281	2	16	0.031	2	16	0.312
14:00 - 15:00	2	16	0.188	2	16	0.250	2	16	0.438
15:00 - 16:00	2	16	0.219	2	16	0.250	2	16	0.469
16:00 - 17:00	2	16	0.313	2	16	0.344	2	16	0.656
17:00 - 18:00	2	16	0.281	2	16	0.156	2	16	0.437
18:00 - 19:00	2	16	0.219	2	16	0.125	2	16	0.344
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.782			2.813			5.595

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected:	12 - 20 (units:)
Survey date date range:	01/01/06 - 24/06/10
Number of weekdays (Monday-Friday):	2
Number of Saturdays:	0
Number of Sundays:	0
Surveys manually removed from selection:	5

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
MULTI-MODAL TOTAL PEOPLE
Calculation factor: 1 DWELLS
BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	2	16	0.344	2	16	1.438	2	16	1.782
08:00 - 09:00	2	16	0.313	2	16	0.531	2	16	0.843
09:00 - 10:00	2	16	0.188	2	16	0.500	2	16	0.688
10:00 - 11:00	2	16	0.469	2	16	0.313	2	16	0.781
11:00 - 12:00	2	16	0.281	2	16	0.438	2	16	0.719
12:00 - 13:00	2	16	0.500	2	16	0.781	2	16	1.281
13:00 - 14:00	2	16	0.469	2	16	0.063	2	16	0.531
14:00 - 15:00	2	16	0.438	2	16	0.281	2	16	0.719
15:00 - 16:00	2	16	0.375	2	16	0.313	2	16	0.687
16:00 - 17:00	2	16	0.625	2	16	0.469	2	16	1.094
17:00 - 18:00	2	16	0.375	2	16	0.594	2	16	0.969
18:00 - 19:00	2	16	0.344	2	16	0.250	2	16	0.594
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			4.720			5.968			10.688

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected:	12 - 20 (units:)
Survey date date range:	01/01/06 - 24/06/10
Number of weekdays (Monday-Friday):	2
Number of Saturdays:	0
Number of Sundays:	0
Surveys manually removed from selection:	5

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.