7. Service Specification

Route: 165 QC42501

This Service Specification forms section 7 of the ITT and should be read in conjunction with the ITT document, Version 1 dated 29 September 2011.

You are formally invited to tender for the provision of the bus service detailed below and in accordance with this Service Specification. Tenderers must ensure that a Compliant Tender is submitted and this will only be considered for evaluation if all parts of the Tender documents, as set out in section 11, have been received by the Corporation by the Date of Tender. The Tender must be fully completed in the required format, in accordance with the Instructions to Tenderers. A Compliant Tender must comply fully with the requirements of the Framework Agreement; adhere to the requirements of the Service Specification; and reflect the price of operating the Services with new vehicles.

Terminus Points	Romford, The Brewery to Rainham, Abbey Wood
	Lane
Contract Basis	Incentivised
Commencement Date	28 th September 2013
Vehicle Type	60 capacity, dual door, single deck, minimum 10.8m
	long
Current Maximum Approved	10.6 metres long and 2.55 metres wide
Dimensions	
New Vehicles Mandatory	Yes
Hybrid Price Required	No
Sponsored Route	No
Advertising Rights	Operator
Minimum Performance Standard	Average Excess Wait Time - No more than 0.90
	minutes
Extension Threshold	Average Excess Wait Time Threshold - 0.80 minutes
Minimum Operated Mileage	No less than 98.00%
Standard	

The Date of Tender for this ITT is: No later than 12 Noon on Monday 19th November 2012

Tenderers should refer to section 3 of Part A for the Service Specification Explanatory Notes and Appendix B of section 5 for the Example Service Specification of the ITT document.

SERVICE SPECIFICATION

- 1) SERVICE SPEC ROUTE SPECIFICATION INFORMATION
- 2) NOTES
- 3) SCHEDULE REQUIREMENTS & PINCHPOINTS
- 4) OPERATIONAL CONSIDERATIONS
- 5) ROUTE RECORD, CURRENT PERFORMANCE, QSI BY TIME OF DAY, IBUS MILEAGE & QSI POINTS

2) NOTES

Proposed Changes:

At this time, the Corporation expects to implement a change to the existing service prior to the commencement of the new Route Agreement for Route No. 165.

- Improvement of the current interworking with Route No. 287 between Rainham, War Memorial/Rainham, Tesco and Rainham, Abbey Wood Lane in both directions on Sundays.
- There will be changes to the road layout in Rainham. This includes a one-way system with an extension of Viking Way to Upminster Road South one way eastbound and a short section of Upminster Road South westbound only. From 8th October 2012, ex Romford, The Brewery, Route No. 165 is re-routed from Viking Way direct to Upminster Road South to re-join normal line of routeing. The section of routeing from Tesco Access Road via Viking Way, Bridge Road and Rainham Broadway to Upminster Road South is withdrawn. Ex Rainham, Abbey Wood Lane, there is no change to routeing. This re-routeing will also apply to Route No. 287.

Tenderers should note that the following alterations (subject to consultation) are proposed as part of this Service Specification for introduction with the new Route Agreement:

- The Mondays to Fridays Schooldays afternoon journey at 1605 ex Romford, The Brewery is withdrawn.
- 60 capacity, dual door, single deck buses of a minimum of 10.8 metres long buses will be specified, subject to a satisfactory route test.
- The Boxing Day service should match the Sunday service.
- Tenderers must identify the cost of the Boxing Day element of this service separately.

3) SCHEDULE REQUIREMENTS & PINCHPOINTS

3.1) MONDAY TO FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Romford, The B	rewery to Rain	ham, Abbey	Rainham, Abl	pey Wood Lane	e to	
Wood Lane			Romford, The	Brewery#		
First departure i	no later than 05	505.	First departure no later than 0440.			
0500 - 0705	Every 15 minu	utes	0435 - 0625	Every 15 minutes		
0706 - 1945	Every 12 mini	utes	0626 - 1905	Every 12 minutes		
1946 - 2030	Every 15 minu	utes	1906 - 2020	Every 15 minutes		
2031 - 0115	Every 20 mini	utes	2021 - 0025	Every 20 mini	utes	
Last departure r	no earlier than	0110.	Last departur	e no earlier tha	ın 0020.	
Pinchpoints						
South	0715 - 0745	15 minutes	Gidea Park,	0700 - 0900	12 minutes	
Hornchurch,	0746 - 0900	12 minutes	Drill			
Cherry Tree	1500 - 1635	12 minutes		1510 - 1635	12 minutes	

Buses operating towards Romford, The Brewery are diverted in Romford after 2130 (until last bus) from South Street via Victoria Road to Mercury Gardens to resume line of routeing after the junction of Mercury Gardens & Western Road. Buses will consequently not serve the stop on Western Road. Buses operating towards Rainham, Abbey Wood Lane are unaffected and remain on normal line of route.

3.2) SATURDAY AND GOOD FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Romford, The B	rewery to Rain	ham, Abbey	Rainham, Abl	pey Wood Lane	e to		
Wood Lane			Romford, The	Brewery#			
First departure i	no later than 05	505.	First departur	e no later than	0440.		
0500 - 0820	Every 15 minu	utes	0435 - 0825	Every 15 minutes			
0821 - 1900	Every 12 minu	utes	0826 - 1835	Every 12 minutes			
1901 - 2030	Every 15 minu	utes	1836 - 2020	Every 15 minutes			
2031 - 0115	Every 20 mini	utes	2021 - 0025	Every 20 minutes			
Last departure r	no earlier than	0110.	Last departure no earlier than 0020.				
Pinchpoints							
South	0855 - 1055	12 minutes	Gidea Park,	0900 - 1100	12 minutes		
Hornchurch,			Drill				
Cherry Tree							

Buses operating towards Romford, The Brewery are diverted in Romford after 2130 (until last bus) from South Street via Victoria Road to Mercury Gardens to resume line of routeing after the junction of Mercury Gardens & Western Road. Buses will consequently not serve the stop on Western Road. Buses operating towards Rainham, Abbey Wood Lane are unaffected and remain on normal line of route.

3) SCHEDULE REQUIREMENTS & PINCHPOINTS - continued

3.3) SUNDAY AND PUBLIC HOLIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Romford, The I	Brewery and Ra	ainham,	Rainham, Abbe	y Wood Lane a	and Romford,		
Abbey Wood L	ane		The Brewery#				
First departure	no later than 0	0600.	First departure no later than 0545.				
0555 - 0115	Every 20 mini	utes	0540 - 0025	Every 20 min	utes		
Last departure	no earlier than	0110.	Last departure no earlier than 0020.				
Pinchpoints							
South	1010 - 1130	20 minutes	Gidea Park,	1015 - 1135	20 minutes		
Hornchurch,			Drill				
Cherry Tree							
Lane							

Buses operating towards Romford, The Brewery are diverted in Romford after 2130 (until last bus) from South Street via Victoria Road to Mercury Gardens to resume line of routeing after the junction of Mercury Gardens & Western Road. Buses will consequently not serve the stop on Western Road. Buses operating towards Rainham, Abbey Wood Lane are unaffected and remain on normal line of route.

Tenderers must identify the cost of the Boxing Day element of this service separately.

4) OPERATIONAL CONSIDERATIONS

- 4.1) Route No. 165 should be best separated from Route No. 287 between Rainham, War Memorial/Rainham, Tesco and Rainham, Abbey Wood Lane in both directions during all evenings and Sundays and be separated during other periods where possible.
- 4.2) Route No. 165 should interwork with Route Nos. 365 & N365 between Elm Park Station and South Hornchurch, Cherry Tree during all periods, where possible.
- 4.3) Route No. 165 should be separated from Route No. 372 between Hornchurch Town Centre and Rainham, Tesco during all periods, where possible.
- 4.4) Romford Market, which is held on Wednesdays, Fridays and Saturdays, can lead to traffic delays in the Romford area.
- 4.5) As a result of safety concerns, buses are currently diverted away from South Street and Western Road (towards Romford, The Brewery) every evening from 2130 hours. Route No. 165 will hence be diverted northbound (towards Romford, The Brewery) from South Street via Victoria Road and Mercury Gardens. The southbound routeing (towards Rainham, Abbey Wood Lane) will not be affected. This practice initially followed police requests but following improvements to Police resources and CCTV, meetings are on-going to encourage operators to return to serving the town centre.
- 4.6) Crossrail will connect the City, Canary Wharf, the West End and Heathrow Airport to commuter areas east and west of the capital.
- 5) ROUTE RECORD, CURRENT PERFORMANCE, QSI BY TIME OF DAY, IBUS MILEAGE & QSI POINTS
- 5.1) ROUTE RECORD
 As per Busnet Printout.
- 5.2) CURRENT PERFORMANCE As per current print out.
- 5.3) QSI BY TIME OF DAY As per current print out.
- 5.4) IBUS MILEAGE & QSI POINTS As per current print out.

LONDON BUSES - ROUTE DESCRIPTION

ROUTE 165: Romford Brewery - Rainham, Abbey Wood Lane

Date of Structural Change: 28 September 2013.

Date of Service Change: 28 September 2013.

Reason for Issue: New contract, not yet awarded.

STREETS TRAVERSED

Towards Rainham, Abbey Wood Lane: Brewery Access Road, Waterloo Road, St Edwards Way, Main Road Roundabout, Mercury Gardens, Western Road, Grimshaw Way, Slaney Road, Chandlers Way, Eastern Road, South Street, Brentwood Road, The Drill Roundabout, Slewins Lane, Butts Green Road, North Street, Hornchurch High Street, Circumnavigate Town Centre Gyratory, Hornchurch High Street, Abbs Cross Lane, Elm Park Avenue, The Broadway, Rosewood Avenue, Wood Lane, Mungo Park Road, South End Road, Cherry Tree Lane, New Road, Dovers Corner, Bridge Road, Viking Way, Tesco Access Road, Viking Way, Upminster Road South, Upminster Road North, Lake Avenue, Thorn Lane, Briscoe Road, Abbey Wood Lane.

Towards Romford Brewery: Abbey Wood Lane, Berwick Road, Thorn Lane, Lake Avenue, Upminster Road North, Upminster Road South, Rainham Broadway, Bridge Road, Viking Way, Tesco Access Road, Viking Way, Bridge Road, Dovers Corner, New Road, Cherry Tree Lane, South End Road, Mungo Park Road, Rosewood Avenue, The Broadway, Elm Park Avenue, Abbs Cross Lane, Hornchurch High Street, Circumnavigate Town Centre Gyratory, Hornchurch High Street, North Street, Billet Lane, Butts Green Road, Slewins Lane, The Drill Roundabout, Brentwood Road, South Street, Western Road, Mercury Gardens, Main Road Roundabout, St Edwards Way, Brewery Access Road.

Special Journey towards Romford Brewery between South Street and Mercury Gardens: After 2130 every night buses operate from South Street, then via Victoria Road rejoining line of route at Mercury Gardens.

AUTHORISED STANDS, CURTAILMENT POINTS, & BLIND DESCRIPTIONS

Please note that only stands, curtailment points, & blind descriptions as detailed in this contractual document may be used.

ROMFORD BREWERY

Public stand for three buses located within Romford Brewery site, located 36m east of Waterloo Road and 18m west of Brewery exit road adjacent to bus station exit. Buses proceed from Brewery Access Road direct to stand, departing to Brewery Access Road. Set down in Brewery Access Road, at Alighting Point (BP2993 - The Brewery, Last Stop on LOR: BP2993 - The Brewery) and pick up in Brewery Access Road, at Stop O (BP2994 - The Brewery, First Stop on LOR: BP2994 - The Brewery).

AVAILABILITY: At any time.

OPERATING RESTRICTIONS: No more than 2 buses on Route 165 should be

scheduled to stand at any one time.

MEAL RELIEFS: No meal relief vehicles to stand at any time. FERRY VEHICLES: No ferry vehicles to park on stand at any time.

BLIND DISPLAY: Romford, The Brewery.

OTHER INFORMATION: Toilet facilities available 24 hours a day.

ROMFORD STATION, ATLANTA BOULEVARD (from RAINHAM, ABBEY WOOD LANE)

Private stand for 15 buses in marked bays in Bus Parking Area in Atlanta Boulevard on south side of Romford Station.

Buses proceed from South Street via Atlanta Boulevard to stand, departing via Atlanta Boulevard to South Street. Set down in South Street, at Stop X (R0681 - Romford Station #, Last Stop on LOR: R0681 - Romford Station #) and pick up in South Street, at Stop Y (R0591 - Romford Station #, First Stop on LOR: R0591 - Romford Station #).

AVAILABILITY: At any time.

OPERATING RESTRICTIONS: Unscheduled curtailments only.

MEAL RELIEFS: No meal relief vehicles to stand at any time. FERRY VEHICLES: No ferry vehicles to park on stand at any time.

BLIND DISPLAY: Romford Station.

OTHER INFORMATION: 24-hour toilet facilities available.

HORNCHURCH TOWN CENTRE

From Rainham, Abbey Wood Lane.

Buses proceed from Hornchurch High Street departing to Station Lane. Set down in Hornchurch High Street, at stop F (8527 - Hornchurch Town Centre, Last Stop on LOR: FC05 - Billet Lane) and pick up in Station Lane, at stop G (8528 - Hornchurch Town Centre / North Street, First Stop on LOR: 8528 - Hornchurch Town Centre / North Street).

From Romford Brewery.

Buses proceed from North Street via Hornchurch High Street departing to Station Lane. Set down in Hornchurch High Street, at stop F (8527 - Hornchurch Town Centre, Last Stop on LOR: 18266 - Queens Theatre) and pick up in Station Lane, at stop G (8528 - Hornchurch Town Centre / North Street, First Stop on LOR: 8528 - Hornchurch Town Centre / North Street).

AVAILABILITY: At any time.

OPERATING RESTRICTIONS: Turning Point Only - Buses must not stand

BLIND DISPLAY: Hornchurch Town Centre.

ELM PARK, ROSEWOOD AVENUE (from Romford Brewery)

Public stand for one bus on west side of Rosewood Avenue, commencing outside Nos 68/70 on north side of roundabout.

Buses proceed from Rosewood Avenue direct to stand, departing to Rosewood Avenue. Set down in Rosewood Avenue, at Stop S (26549 - Ambleside Avenue, Last Stop on LOR: 26549 - Ambleside Avenue) and pick up in Rosewood Avenue, at Stop B (26548 - Ambleside Avenue, First Stop on LOR: 26548 - Ambleside Avenue).

AVAILABILITY: At any time.

OPERATING RESTRICTIONS: Unscheduled curtailments only.

MEAL RELIEFS: No meal relief vehicles to stand at any time. FERRY VEHICLES: No ferry vehicles to park on stand at any time.

BLIND DISPLAY: Elm Park.

RAINHAM STATION INTERCHANGE (from Romford Brewery)

Private stand in Rainham Station Interchange. Definition to ge confirmed. Buses proceed from Tesco Access Road via Viking Way, Bridge Road, Rainham Broadway, Wennington Road, Old Station Lane and Celtic Farm Road to stand, departing via Celtic Farm Road, Ferry Lane and Wennington Road to Rainham Broadway. Set down in Tesco Access Road, at stop F (BP776 - Rainham Tesco, Last Stop on LOR: BP776 - Rainham Tesco) and pick up in Rainham Broadway, at stop C (20479 - Rainham War Memorial, First Stop on LOR: 20479 - Rainham War Memorial).

AVAILABILITY: At any time.

OPERATING RESTRICTIONS: Unscheduled curtailments only

MEAL RELIEFS: No meal relief vehicles to stand at any time. FERRY VEHICLES: No ferry vehicles to park on stand at any time.

BLIND DISPLAY: Rainham Village.

RAINHAM, ABBEY WOOD LANE

Public stand for four buses at rear of bay on north side of Abbey Wood Lane, commencing opposite eastern flank wall of No. 30 and extending 45 metres west.

Buses proceed from Abbey Wood Lane direct to stand, departing to Abbey Wood Lane.

Set down in Abbey Wood Lane (33795 - Abbey Wood, Last Stop on LOR: 33795 - Abbey Wood) and pick up in Abbey Wood Lane (33795 - Abbey Wood).

AVAILABILITY: At any time.

OPERATING RESTRICTIONS: No more than 2 buses on Route 165 should be

scheduled to stand at any one time.

MEAL RELIEFS:

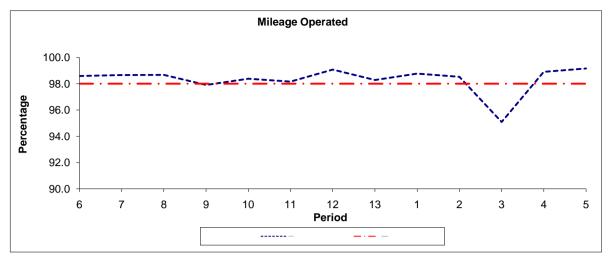
No meal relief vehicles to stand at any time.

FERRY VEHICLES:

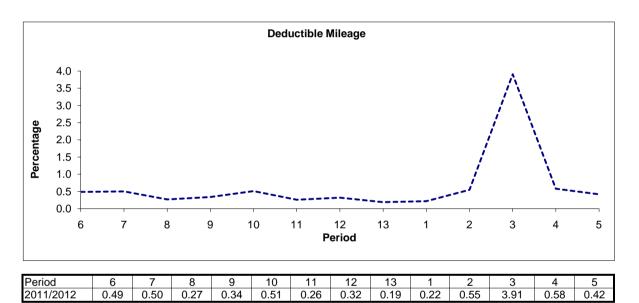
No ferry vehicles to park on stand at any time.

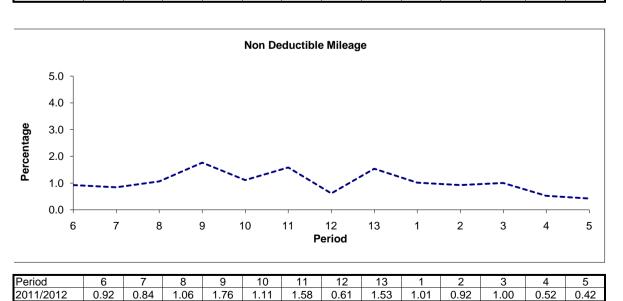
BLIND DISPLAY: Rainham, Abbey Wood Lane. OTHER INFORMATION: No toilet facilities available.

PART B - PERFORMANCE STATISTICS Route 165



Period	6	7	8	9	10	11	12	13	1	2	3	4	5
2011/2012	98.59	98.66	98.67	97.90	98.38	98.16	99.07	98.28	98.77	98.53	95.09	98.90	99.16
Min Standard	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00

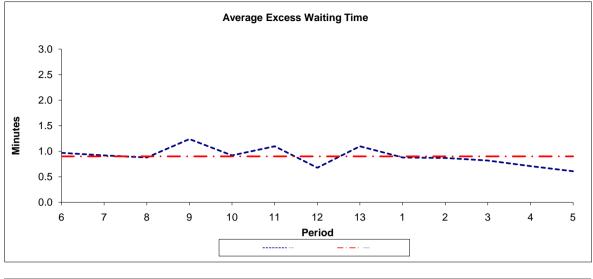




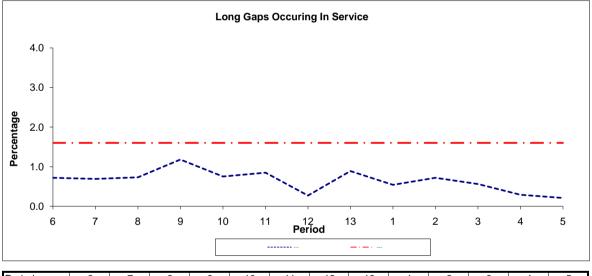
Note: Mileage is based on 4 weeks data Performance affected by industrial action in p3 2012/13.

PART B - PERFORMANCE STATISTICS

Route 165



Period	6	7	8	9	10	11	12	13	1	2	3	4	5
2011-2012	0.97	0.92	0.88	1.24	0.92	1.10	0.68	1.10	0.88	0.87	0.82	0.71	0.61
Min Standard	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90



Period	6	7	8	9	10	11	12	13	1	2	3	4	5
2011-2012	0.72	0.69	0.73	1.18	0.75	0.85	0.27	0.89	0.54	0.72	0.56	0.29	0.21
Benchmark	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60

Note: Reliability is actual performance under full iBus (4 weeks data).

Minimum Standards and Benchmarks are those applicable under the new contract.

ROUTE 165 - FULL IBUS RESULTS BY TIME OF DAY QUARTER 2 2011/12 TO QUARTER 1 2012/13 (25/06/11 - 22/06/12)

MONDAY - FRIDAY

Time Period	Expected Buses	On AVL (%)		Excess Waiting Time (EWT) (mins)		Probability of Waiting < 10 mins (%)	Probability of Waiting 10-20 mins (%)	Probability of Waiting 20-30 mins (%)	Probability of Waiting > 30 mins (%)	Long Gaps (%)	Maximum Gap (mins)
0500 - 0700	31,197.	99.5	7.47	0.37	7.84	68.8	30.0	1.1	0.1	0.0	40.1
0700 - 1000	62,214.	98.3	6.20	0.72	6.92	75.2	23.4	1.3	0.1	0.4	58.4
1000 - 1300	63,794.	99.0	6.01	0.72	6.74	77.0	21.9	1.0	0.1	0.4	74.3
1300 - 1600	64,325.	96.6	5.97	0.96	6.92	74.5	23.5	1.9	0.1	0.7	43.4
1600 - 1900	66,174.	96.0	5.89	1.61	7.50	71.8	24.6	3.3	0.4	1.7	63.3
1900 - 2200	49,642.	98.3	7.30	0.84	8.14	64.3	31.0	4.2	0.4	0.6	87.8
2200 - 2400	22,167.	101.6	9.90	0.65	10.55	50.5	41.2	7.5	0.8	0.1	81.0
Summary	359,513.	98.0	6.36	0.98	7.35	72.1	25.3	2.4	0.2	0.8	87.8

SATURDAY

Time Period	Expected Buses	On AVL (%)		Excess Waiting Time (EWT) (mins)		Probability of Waiting < 10 mins (%)	Probability of Waiting 10-20 mins (%)	Probability of Waiting 20-30 mins (%)	Probability of Waiting > 30 mins (%)	Long Gaps (%)	Maximum Gap (mins)
0500 - 0700	6,381.	100.5	7.56	0.29	7.85	66.7	32.5	0.8	0.1	0.1	41.2
0700 - 1000	12,193.	99.9	6.68	0.30	6.97	75.4	24.1	0.5	0.0	0.0	34.4
1000 - 1300	13,500.	98.5	5.99	0.65	6.64	76.8	22.4	0.8	0.0	0.2	37.8
1300 - 1600	13,470.	99.7	5.99	0.92	6.91	75.9	22.4	1.6	0.1	0.6	39.6
1600 - 1900	13,297.	98.0	6.04	0.61	6.65	77.0	22.3	0.7	0.0	0.2	34.3
1900 - 2200	9,601.	99.0	7.92	0.67	8.59	60.7	33.7	4.9	0.8	0.5	56.9
2200 - 2400	4,776.	99.8	9.90	0.93	10.83	49.5	40.3	8.7	1.5	0.5	61.7
Summary	73,218.	99.2	6.53	0.67	7.20	73.0	25.0	1.8	0.2	0.3	61.7

SUNDAY AND BANK HOLIDAYS

Time Period	Expected Buses	On AVL (%)		Excess Waiting Time (EWT) (mins)		Probability of Waiting < 10 mins (%)	Probability of Waiting 10-20 mins (%)	Probability of Waiting 20-30 mins (%)	Probability of Waiting > 30 mins (%)	Long Gaps (%)	Maximum Gap (mins)
0500 - 0700	2,944.	100.2	9.68	0.26	9.94	67.6	28.1	3.8	0.4	4.0	46.5
0700 - 1000	9,060.	99.6	9.71	0.33	10.04	52.2	41.5	6.0	0.4	0.1	58.0
1000 - 1300	9,157.	98.9	9.71	0.56	10.27	51.6	40.7	6.8	0.8	0.2	57.9
1300 - 1600	9,162.	99.5	9.71	0.53	10.24	51.6	40.9	6.8	0.7	0.1	50.6
1600 - 1900	9,139.	99.2	9.80	0.30	10.10	51.3	42.6	5.9	0.2	0.0	47.8
1900 - 2200	8,867.	100.0	9.66	0.51	10.17	51.3	42.0	6.2	0.5	0.1	81.3
2200 - 2400	4,989.	100.5	9.99	0.29	10.28	50.3	43.2	6.1	0.4	0.1	102.1
Summary	53,318.	99.6	9.74	0.44	10.18	51.8	41.4	6.3	0.5	0.2	102.1

ALL DAYS

Time Period	Expected Buses	On AVL (%)		Excess Waiting Time (EWT) (mins)		Probability of Waiting < 10 mins (%)	Probability of Waiting 10-20 mins (%)	Probability of Waiting 20-30 mins (%)	Probability of Waiting > 30 mins (%)	Long Gaps (%)	Maximum Gap (mins)
0500 - 0700	40,522.	99.7	7.57	0.35	7.93	68.5	30.2	1.2	0.1	0.3	46.5
0700 - 1000	83,467.	98.7	6.41	0.67	7.08	74.1	24.3	1.5	0.1	0.4	58.4
1000 - 1300	86,451.	98.9	6.43	0.69	7.12	74.1	24.1	1.7	0.2	0.3	74.3
1300 - 1600	86,957.	97.3	6.36	0.91	7.27	72.3	25.2	2.4	0.2	0.6	50.6
1600 - 1900	88,610.	96.6	6.28	1.38	7.65	70.4	26.0	3.2	0.3	1.4	63.3
1900 - 2200	68,110.	98.6	7.64	0.78	8.43	62.4	32.6	4.5	0.5	0.5	87.8
2200 - 2400	31,932.	101.2	9.91	0.64	10.55	50.3	41.4	7.4	0.9	0.2	102.1
Summary	486,049.	98.3	6.70	0.89	7.60	70.3	26.8	2.7	0.3	0.7	102.1

Transport for London - QSI Point and Mileage List

Route 165 (via Western Road)

 Service change
 30210

 Date
 29/09/2012

Reason for Issue

Version Detail

QSI Points are shaded in blue

Timing Point	Stop	OUT DIRECTION		
Code	Number	Stop Name	Metres	Miles
ROMFBR	BP2994	The Brewery		
	R0332	Mawney Road	346	0.21
	34113	North Street	240	0.15
ROMFSE	34094	Romford Market	464	0.29
	LE135	Mercury Gardens	270	0.17
	34119	Western Road	284	0.18
ROMFSN	R0591	Romford Station	597	0.37
	18028	Thurloe Gardens	272	0.17
	18482	South Street	205	0.13
	18484	Albert Road	363	0.23
	18486	Princes Road	326	0.20
	18488	Frances Bardsley School	296	0.18
	18490	Cranham Road	297	0.18
	18492	Salisbury Road	175	0.11
GIDPDL	20084	The Drill Roundabout	463	0.29
	18256	Brooklands Gardens	383	0.24
	18257	Walden Way	374	0.23
	18260	Burntwood Avenue	200	0.12
	18261	Emerson Park Station	324	0.20
	18264	Burnway	288	0.18
	18266	Queens Theatre	323	0.20
	8527	Hornchurch Town Centre	314	0.20
HORNTC	8528	Hornchurch Town Centre / North Street	148	0.09
	9768	Billet Lane	389	0.24
	14696	Abbs Cross Gardens	301	0.19
	18423	Stanley Road	442	0.27
	18425	Suttons Avenue	339	0.21
	18428	Abbs Cross School	343	0.21
	25708	Brian Close	310	0.19
ELMPSN	26547 18380	Elm Parade Elm Park Station	204	0.13
ELIVII SIV	26549	Ambleside Avenue	294	0.14
	26551	Aldingham Gardens	362	0.22
	R0074	Wood Lane	186	0.12
	29332	Freeborne Gardens	303	0.19
	29336	Kingaby Gardens	452	0.28
	29408	Albyns Close	300	0.19
	29338	Ford Lane	474	0.29
	29340	Alexandra Road	409	0.25
			261	0.16
SHRNCT	26555	Rainham Road		
SHRNCT	26555 26556	Stanley Road South	384	0.24
SHRNCT				
SHRNCT	26556	Stanley Road South	384	0.24
SHRNCT	26556 26559	Stanley Road South Dunedin Road	384 339	0.24 0.21
SHRNCT	26556 26559 26560	Stanley Road South Dunedin Road Manor Way	384 339 150	0.24 0.21 0.09
	26556 26559 26560 18384	Stanley Road South Dunedin Road Manor Way Dovers Corner	384 339 150 317	0.24 0.21 0.09 0.20
	26556 26559 26560 18384 BP776	Stanley Road South Dunedin Road Manor Way Dovers Corner Rainham Tesco	384 339 150 317 668	0.24 0.21 0.09 0.20 0.42
	26556 26559 26560 18384 BP776 18447	Stanley Road South Dunedin Road Manor Way Dovers Corner Rainham Tesco Rainham Village School	384 339 150 317 668 450	0.24 0.21 0.09 0.20 0.42 0.28
RAINTS	26556 26559 26560 18384 BP776 18447	Stanley Road South Dunedin Road Manor Way Dovers Corner Rainham Tesco Rainham Village School Brights Avenue	384 339 150 317 668 450 332	0.24 0.21 0.09 0.20 0.42 0.28 0.21
RAINTS	26556 26559 26560 18384 BP776 18447 18449	Stanley Road South Dunedin Road Manor Way Dovers Corner Rainham Tesco Rainham Village School Brights Avenue New Road	384 339 150 317 668 450 332	0.24 0.21 0.09 0.20 0.42 0.28 0.21
RAINTS	26556 26559 26560 18384 BP776 18447 18449 9755 20806	Stanley Road South Dunedin Road Manor Way Dovers Corner Rainham Tesco Rainham Village School Brights Avenue New Road Allen Road	384 339 150 317 668 450 332 237 375	0.24 0.21 0.09 0.20 0.42 0.28 0.21 0.15 0.23
RAINTS	26556 26559 26560 18384 BP776 18447 18449 9755 20806 9757	Stanley Road South Dunedin Road Manor Way Dovers Corner Rainham Tesco Rainham Village School Brights Avenue New Road Allen Road King Edward Avenue	384 339 150 317 668 450 332 237 375 285	0.24 0.21 0.09 0.20 0.42 0.28 0.21 0.15 0.23 0.18
RAINTS	26556 26559 26560 18384 BP776 18447 18449 9755 20806 9757 18451 33791 33793	Stanley Road South Dunedin Road Manor Way Dovers Corner Rainham Tesco Rainham Village School Brights Avenue New Road Allen Road King Edward Avenue Lake Avenue King Edward Avenue	384 339 150 317 668 450 332 237 375 285 285 285 366 299	0.24 0.21 0.09 0.20 0.42 0.28 0.21 0.15 0.23 0.18 0.23 0.19
RAINTS	26556 26559 26560 18384 BP776 18447 18449 9755 20806 9757 18451 33791 33793 33794	Stanley Road South Dunedin Road Manor Way Dovers Corner Rainham Tesco Rainham Village School Brights Avenue New Road Allen Road King Edward Avenue Lake Avenue King Edward Avenue Briscoe Road	384 339 150 317 668 450 332 237 375 285 285 285 299 229	0.24 0.21 0.09 0.20 0.42 0.28 0.21 0.15 0.23 0.18 0.23 0.19 0.14
RAINTS	26556 26559 26560 18384 BP776 18447 18449 9755 20806 9757 18451 33791 33793	Stanley Road South Dunedin Road Manor Way Dovers Corner Rainham Tesco Rainham Village School Brights Avenue New Road Allen Road King Edward Avenue Lake Avenue King Edward Avenue	384 339 150 317 668 450 332 237 375 285 285 285 366 299	0.24 0.21 0.09 0.20 0.42 0.28 0.21 0.15 0.23 0.18 0.23 0.19

Re-routing at Rainham

Code Stop Number Stop Name Metres Miller RAINAW 33795 Abbey Wood 33796 Thorn Lane 365 0.23 33792 Lake Avenue 309 0.15 18452 Acer Avenue 388 0.22 20807 Allen Road 231 0.1 CHNDCR 8517 New Road 310 0.13 18448 Rainham War Memorial 484 0.21 RAINWM 20479 Rainham War Memorial 487 0.33 BP776 Rainham Tesco 268 0.11 138365 Dovers Corner 496 0.3 BP3551 Cherry Tree Lane 235 0.11 29326 Dunedin Road 344 0.22 29357 Stanley Road South 341 0.22 26557 Stanley Road South 341 0.22 29409 Ford Lane 418 0.2 29337 Mungo Park Road / South End Road 248 0.13	mine De!-+		BACK DIRECTION		
33796 Thom Lane 365 0.22 33792 Lake Avenue 309 0.15 33792 Lake Avenue 309 0.15 33792 Lake Avenue 358 0.22 3756 Lambs Lane 387 0.22 3756 Lambs Lane 387 0.22 3757 New Road 310 0.15 3810 1848 Rainham Village School 344 0.22 3814 Rainham Village School 344 0.22 3818 Dovers Corner 496 0.33 3818 Dovers Corner 496 0.33 3819 Dovers Corner 496 0.34 3810 Dovers Corner 496 0.34 3811 Cherry Tree Lane 235 0.15 3818 Dovers Corner 496 0.34 3811 Dovers Corner 496 0.34 3812 Dovers Corner 496 0.34 3813 Alexandra Road 320 0.22 3814 Dovers Corner 496 0.34 3814 Dovers Corner 496 0.34 3815 Dovers Corner 496 0.34 3816 Dovers Corner 496 0.34 3817 Port Lane 418 0.22 3818 Freeborne Gardens 428 0.21 3819 Dovers Corner 496 0.34 3810 Dovers Corner 496 0.34 3811 Bovers Corner 496 0.34 3812 Dovers Corner 496 0.34 3813 Freeborne Gardens 248 0.21 3814 Dovers Corner 496 0.34 3815 Dovers Corner 496 0.34 3816 Dovers Corner 496 0.34 3817 Dovers Corner 496 0.34 3818 Dovers Corner 496 0.34 3819 Dovers Corner 496 0.34 3810 Dovers Corner 496 0.34 3811 Dovers Corner 496 0.34 3812 Dovers Corner 496 0.34 3813 Dovers Corner 496 0.34 3814 Dovers Corner 496 0.34 3815 Dovers Corner 496 0.34 3816 Dovers Corner 496 0.34 3817 Dovers Corner 496 0.34 3818 Dovers Corner 496 0.34 3819 Dovers Corner 496 0.34 3810 Dovers Corner 496 0.34 3811 Dover	iming Point Code	Stop Number	Stop Name	Metres	Miles
18452	RAINAW	33795	Abbey Wood		
18452 Acer Avenue 358 0.22		33796	Thorn Lane	365	0.23
9756		33792	Lake Avenue	309	0.19
CHNDCR		18452	Acer Avenue	358	0.22
CHNDCR 8517 New Road 310 0.15 18450 Brights Avenue 258 0.11 18448 Rainham Village School 344 0.22 RAINWM 20479 Rainham War Memorial 487 0.33 BP776 Rainham Tesco 268 0.13 18385 Dovers Corner 496 0.33 183851 Cherry Tree Lane 235 0.13 29926 Dunedin Road 344 0.22 26558 Edmund Road 167 0.14 26557 Stanley Road South 341 0.22 SHRNCT 26554 Rainham Road 320 0.23 29337 Mungo Park Road / South End Road 248 0.13 29409 Ford Lane 418 0.22 29333 Freeborne Gardens 428 0.22 29333 Freeborne Gardens 428 0.22 29331 Wood Lane 295 0.13 26548 Ambleside Avenue 372		9756	Lambs Lane	387	0.24
18450 Brights Avenue 258 0.16		20807	Allen Road	231	0.14
RAINWM 20479 Rainham Willage School 344 0.2 RAINWM 20479 Rainham War Memorial 487 0.3 BP776 Rainham Tesco 268 0.1 18385 Dovers Corner 496 0.3 8P3551 Cherry Tree Lane 235 0.1 29926 Dunedin Road 344 0.2 26558 Edmund Road 167 0.1 26557 Stanley Road South 341 0.2 26557 Stanley Road South 341 0.2 29339 Alexandra Road 248 0.1 29409 Ford Lane 418 0.2 29337 Mungo Park Road / South End Road 546 0.3 29333 Freeborne Gardens 428 0.2 29331 Wood Lane 295 0.1 29331 Wood Lane 295 0.1 26548 Ambleside Avenue 372 0.2 ELMPSN 18381 Elm Park Station 306	CHNDCR	8517	New Road	310	0.19
RAINWM 20479 Rainham War Memorial 487 0.38		18450	Brights Avenue	258	0.16
BP776		18448	Rainham Village School	344	0.21
18385 Dovers Corner 496 0.33	RAINWM	20479	Rainham War Memorial	487	0.30
BP3551 Cherry Tree Lane 235 0.15		BP776	Rainham Tesco	268	0.17
29926		18385	Dovers Corner	496	0.31
26558		BP3551	Cherry Tree Lane	235	0.15
SHRNCT 26557 Stanley Road South 341 0.23 SHRNCT 26554 Rainham Road 320 0.24 29339 Alexandra Road 248 0.11 29409 Ford Lane 418 0.24 29337 Mungo Park Road / South End Road 546 0.36 29333 Freeborne Gardens 428 0.22 29331 Wood Lane 295 0.13 26550 Aldingham Gardens 203 0.13 26548 Ambleside Avenue 372 0.23 ELMPSN 18381 Elm Park Station 306 0.18 26546 Elm Parade 188 0.12 18427 Abbs Cross School 292 0.13 18426 Suttons Avenue 237 0.13 18424 Stanley Road 340 0.22 4024 Stanley Road 340 0.22 4025 Billet Lane 120 0.03 4026 Emerson Park Station 221		29926	Dunedin Road	344	0.21
SHRNCT 26554 Rainham Road 320 0.20 29339 Alexandra Road 248 0.13 29409 Ford Lane 418 0.26 29337 Mungo Park Road / South End Road 546 0.34 29333 Freeborne Gardens 248 0.15 29331 Wood Lane 295 0.15 26550 Aldingham Gardens 203 0.15 26548 Ambleside Avenue 372 0.23 ELMPSN 18381 Elm Park Station 306 0.15 26546 Elm Parade 188 0.15 25707 Brian Close 215 0.13 18427 Abbs Cross School 292 0.18 18426 Suttons Avenue 237 0.11 18427 Abbs Cross Lane 710 0.4 18428 Stanley Road 340 0.2 4071 Abbs Cross Lane 710 0.4 40852 Hornchurch Town Centre 384 0.2		26558	Edmund Road	167	0.10
29339		26557	Stanley Road South	341	0.21
29409 Ford Lane	SHRNCT	26554	Rainham Road	320	0.20
29337 Mungo Park Road / South End Road 546 0.34 29335 Kingaby Gardens 248 0.15 29333 Freeborne Gardens 428 0.25 29331 Wood Lane 295 0.15 26550 Aldingham Gardens 203 0.15 26548 Ambleside Avenue 372 0.25 ELMPSN 18381 Elm Park Station 306 0.15 26546 Elm Parade 188 0.1 25707 Brian Close 215 0.15 18427 Abbs Cross School 292 0.16 18426 Suttons Avenue 237 0.15 18424 Stanley Road 340 0.25 9771 Abbs Cross Lane 710 0.4 FC05 Billet Lane 120 0.0 HORNTC 8527 Hornchurch Town Centre 384 0.2 48528 Hornchurch Town Centre / North Street 148 0.0 18269 Emerson Park Station 221		29339	Alexandra Road	248	0.15
29335 Kingaby Gardens 248 0.15		29409	Ford Lane	418	0.26
29333 Freeborne Gardens 428 0.2: 29331 Wood Lane 295 0.18 26550 Aldingham Gardens 203 0.13 26548 Ambleside Avenue 372 0.2: ELMPSN 18381 Elm Park Station 306 0.19 26546 Elm Parade 188 0.1: 25707 Brian Close 215 0.13 18427 Abbs Cross School 292 0.18 18426 Suttons Avenue 237 0.15 18424 Stanley Road 340 0.2: 9771 Abbs Cross Lane 710 0.44 FCO5 Billet Lane 120 0.00 HORNTC 8527 Hornchurch Town Centre North Street 148 0.05 18265 Queens Theatre 290 0.18 18265 Queens Theatre 290 0.18 18269 Emerson Park Station 221 0.18 18269 Emerson Park Station 221 0.18 18259 Wykeham Avenue 394 0.22 18258 Walden Way 318 0.20 18258 Walden Way 318 0.20 18258 Fooklands Gardens 375 0.2: GIDPDL 18493 The Drill Roundabout 510 0.33 18481 Salisbury Road 202 0.13 18489 Cranham Road 234 0.15 18481 Salisbury Road 202 0.13 18483 Albert Road 323 0.20 18483 Albert Road 323 0.20 ROMFNR BP4227 Western Road 80 0.00 ROMFNR BP4227 Western Road 489 0.30		29337	Mungo Park Road / South End Road	546	0.34
29331		29335	Kingaby Gardens	248	0.15
26550 Aldingham Gardens 203 0.13 26548 Ambleside Avenue 372 0.23 ELMPSN 18381 Elm Park Station 306 0.15 26546 Elm Parade 188 0.12 25707 Brian Close 215 0.13 18427 Abbs Cross School 292 0.18 18426 Suttons Avenue 237 0.15 18424 Stanley Road 340 0.22 9771 Abbs Cross Lane 710 0.44 FC05 Billet Lane 120 0.00 HORNTC 8527 Hornchurch Town Centre 384 0.2 8528 Hornchurch Town Centre / North Street 148 0.0 18265 Queens Theatre 290 0.18 18263 Burnway 287 0.18 18269 Emerson Park Station 221 0.14 18259 Wykeham Avenue 394 0.2 18258 Walden Way 318 0.2 18493 The Drill Roundabout 510 0.3 <t< td=""><td></td><td>29333</td><td>Freeborne Gardens</td><td>428</td><td>0.27</td></t<>		29333	Freeborne Gardens	428	0.27
ELMPSN 18381 Elm Park Station 306 0.15 26546 Elm Parade 188 0.12 25707 Brian Close 215 0.13 18427 Abbs Cross School 292 0.16 18426 Suttons Avenue 237 0.15 18424 Stanley Road 340 0.25 9771 Abbs Cross Lane 710 0.44 FC05 Billet Lane 120 0.05 HORNTC 8527 Hornchurch Town Centre 384 0.26 18265 Queens Theatre 290 0.18 18265 Queens Theatre 290 0.18 18269 Emerson Park Station 221 0.14 18269 Wykeham Avenue 394 0.26 18259 Wykeham Avenue 394 0.26 18258 Walden Way 318 0.26 18491 Salisbury Road 202 0.13 18489 Cranham Road 234 0.15		29331	Wood Lane	295	0.18
ELMPSN		26550	Aldingham Gardens	203	0.13
26546 Elm Parade 188 0.12 25707 Brian Close 215 0.13 18427 Abbs Cross School 292 0.18 18426 Suttons Avenue 237 0.19 18424 Stanley Road 340 0.22 9771 Abbs Cross Lane 710 0.44 FC05 Billet Lane 120 0.00 HORNTC 8527 Hornchurch Town Centre 384 0.24 8528 Hornchurch Town Centre / North Street 148 0.09 18265 Queens Theatre 290 0.18 18263 Burnway 287 0.18 18269 Emerson Park Station 221 0.14 18269 Emerson Park Station 221 0.14 18259 Wykeham Avenue 394 0.24 18258 Walden Way 318 0.26 GIDPDL 18493 The Drill Roundabout 510 0.33 18489 Cranham Road 234 0.15 18489 Cranham Road 234 0.15 <t< td=""><td></td><td>26548</td><td>*</td><td>372</td><td>0.23</td></t<>		26548	*	372	0.23
25707 Brian Close 215 0.13	ELMPSN	18381	Elm Park Station	306	0.19
18427 Abbs Cross School 292 0.18 18426 Suttons Avenue 237 0.15 18424 Stanley Road 340 0.22 9771 Abbs Cross Lane 710 0.44 FC05 Billet Lane 120 0.05 HORNTC 8527 Hornchurch Town Centre 384 0.26 8528 Hornchurch Town Centre / North Street 148 0.05 18265 Queens Theatre 290 0.18 18263 Burnway 287 0.18 18269 Emerson Park Station 221 0.14 18259 Wykeham Avenue 394 0.26 18258 Walden Way 318 0.26 18255 Brooklands Gardens 375 0.25 GIDPDL 18493 The Drill Roundabout 510 0.33 18491 Salisbury Road 202 0.15 18489 Cranham Road 234 0.15 18485 Princes Bardsley School 275 0.17 18485 Princes Road 365 0.25		26546	Elm Parade	188	0.12
18426 Suttons Avenue 237 0.15 18424 Stanley Road 340 0.25 9771 Abbs Cross Lane 710 0.44 FC05 Billet Lane 120 0.07 HORNTC 8527 Hornchurch Town Centre 384 0.02 8528 Hornchurch Town Centre / North Street 148 0.05 18265 Queens Theatre 290 0.18 18263 Burnway 287 0.18 18269 Emerson Park Station 221 0.14 18259 Wykeham Avenue 394 0.26 18258 Walden Way 318 0.26 18258 Walden Way 318 0.26 18255 Brooklands Gardens 375 0.23 GIDPDL 18493 The Drill Roundabout 510 0.33 18489 Cranham Road 234 0.19 18487 Frances Bardsley School 275 0.17 18485 Princes Road 365 0.25 18481 South Street 311 0.19		25707	Brian Close	215	0.13
18424 Stanley Road 340 0.2: 9771 Abbs Cross Lane 710 0.44 FC05 Billet Lane 120 0.00 HORNTC 8527 Hornchurch Town Centre 384 0.24 8528 Hornchurch Town Centre / North Street 148 0.09 18265 Queens Theatre 290 0.18 18263 Burnway 287 0.18 18269 Emerson Park Station 221 0.14 18259 Wykeham Avenue 394 0.24 18258 Walden Way 318 0.26 18255 Brooklands Gardens 375 0.23 GIDPDL 18493 The Drill Roundabout 510 0.33 18491 Salisbury Road 202 0.13 18489 Cranham Road 234 0.19 18487 Frances Bardsley School 275 0.17 18485 Princes Road 365 0.23 18481 South Street 311 0.19 18029 Brentwood Road 80 0.09 <td></td> <td>18427</td> <td>Abbs Cross School</td> <td>292</td> <td>0.18</td>		18427	Abbs Cross School	292	0.18
9771 Abbs Cross Lane 710 0.44 FCO5 Billet Lane 120 0.00 HORNTC 8527 Hornchurch Town Centre 384 0.24 8528 Hornchurch Town Centre / North Street 148 0.05 18265 Queens Theatre 290 0.18 18263 Burnway 287 0.18 18269 Emerson Park Station 221 0.14 18259 Wykeham Avenue 394 0.24 18258 Walden Way 318 0.26 18255 Brooklands Gardens 375 0.25 GIDPDL 18493 The Drill Roundabout 510 0.35 18489 Cranham Road 202 0.13 18489 Cranham Road 234 0.15 18485 Princes Bardsley School 275 0.15 18485 Princes Road 365 0.25 18483 Albert Road 323 0.26 18481 South Street 311 0.15 18029 Brentwood Road 80 0.05 ROMFSN RO681 Romford Station 380 0.24 ROMFSN RO681 Romford Station 380 0.24 ROMFSN RO681 Romford Station 380 0.24 ROMFSE 34118 Romford Market 504 0.35		18426	Suttons Avenue	237	0.15
FC05 Billet Lane 120 0.00 HORNTC 8527 Hornchurch Town Centre 384 0.24 8528 Hornchurch Town Centre / North Street 148 0.03 18265 Queens Theatre 290 0.18 18263 Burnway 287 0.18 18269 Emerson Park Station 221 0.14 18259 Wykeham Avenue 394 0.24 18258 Walden Way 318 0.26 18255 Brooklands Gardens 375 0.23 GIDPDL 18493 The Drill Roundabout 510 0.33 18489 Cranham Road 202 0.15 18489 Cranham Road 234 0.15 18485 Princes Bardsley School 275 0.15 18485 Princes Road 365 0.23 18481 South Street 311 0.19 18029 Brentwood Road 80 0.05 ROMFSN R0681 Romford Station		18424	Stanley Road	340	0.21
HORNTC 8527 Hornchurch Town Centre / North Street 384 0.24 8528 Hornchurch Town Centre / North Street 148 0.09 18265 Queens Theatre 290 0.18 18263 Burnway 287 0.18 18269 Emerson Park Station 221 0.14 18259 Wykeham Avenue 394 0.24 18258 Walden Way 318 0.26 18255 Brooklands Gardens 375 0.23 GIDPDL 18493 The Drill Roundabout 510 0.33 18491 Salisbury Road 202 0.13 18489 Cranham Road 234 0.19 18487 Frances Bardsley School 275 0.17 18485 Princes Road 365 0.23 18481 South Street 311 0.19 18029 Brentwood Road 80 0.09 ROMFSN R0681 Romford Station 380 0.24 ROMFSR 341		9771	Abbs Cross Lane	710	0.44
8528 Hornchurch Town Centre / North Street 148 0.05 18265 Queens Theatre 290 0.18 18263 Burnway 287 0.18 18269 Emerson Park Station 221 0.14 18259 Wykeham Avenue 394 0.24 18258 Walden Way 318 0.20 18255 Brooklands Gardens 375 0.23 GIDPDL 18493 The Drill Roundabout 510 0.33 18491 Salisbury Road 202 0.13 18489 Cranham Road 234 0.15 18487 Frances Bardsley School 275 0.17 18485 Princes Road 365 0.23 18481 South Street 311 0.16 18029 Brentwood Road 80 0.05 ROMFSN R0681 Romford Station 380 0.26 ROMFSR 34118 Romford Market 504 0.33 ROMFSE 34118 Romford Market 504 0.35 3539 Mawney Road <		FC05	Billet Lane	120	0.07
18265 Queens Theatre 290 0.18 18263 Burnway 287 0.18 18269 Emerson Park Station 221 0.14 18259 Wykeham Avenue 394 0.24 18258 Walden Way 318 0.20 18255 Brooklands Gardens 375 0.23 GIDPDL 18493 The Drill Roundabout 510 0.33 18491 Salisbury Road 202 0.13 18489 Cranham Road 234 0.15 18487 Frances Bardsley School 275 0.17 18485 Princes Road 365 0.23 18481 South Street 311 0.16 18029 Brentwood Road 80 0.05 ROMFSN R0681 Romford Station 380 0.24 ROMFWR BP4227 Western Road 489 0.36 ROMFSE 34118 Romford Market 504 0.33 ROMFSE 34115 North Street 376 0.23 3539 Mawney Road	HORNTC	8527	Hornchurch Town Centre	384	0.24
18263 Burnway 287 0.18 18269 Emerson Park Station 221 0.14 18259 Wykeham Avenue 394 0.24 18258 Walden Way 318 0.20 18255 Brooklands Gardens 375 0.23 GIDPDL 18493 The Drill Roundabout 510 0.33 18491 Salisbury Road 202 0.13 18489 Cranham Road 234 0.15 18487 Frances Bardsley School 275 0.17 18485 Princes Road 365 0.23 18481 South Street 311 0.16 18029 Brentwood Road 80 0.05 ROMFSN R0681 Romford Station 380 0.24 ROMFWR BP4227 Western Road 489 0.30 ROMFSE 34118 Romford Market 504 0.33 ROMFSE 34115 North Street 376 0.23 3539 Mawney Road 255 0.16		8528	Hornchurch Town Centre / North Street	148	0.09
18269 Emerson Park Station 221 0.14 18259 Wykeham Avenue 394 0.24 18258 Walden Way 318 0.26 18255 Brooklands Gardens 375 0.25 GIDPDL 18493 The Drill Roundabout 510 0.35 18491 Salisbury Road 202 0.13 18489 Cranham Road 234 0.15 18487 Frances Bardsley School 275 0.17 18485 Princes Road 365 0.25 18483 Albert Road 323 0.26 18481 South Street 311 0.19 18029 Brentwood Road 80 0.05 ROMFSN R0681 Romford Station 380 0.26 ROMFWR BP4227 Western Road 489 0.36 ROMFSE 34118 Romford Market 504 0.33 3539 Mawney Road 255 0.16		18265	Queens Theatre	290	0.18
18269 Emerson Park Station 221 0.14 18259 Wykeham Avenue 394 0.24 18258 Walden Way 318 0.26 18255 Brooklands Gardens 375 0.25 GIDPDL 18493 The Drill Roundabout 510 0.35 18491 Salisbury Road 202 0.13 18489 Cranham Road 234 0.15 18487 Frances Bardsley School 275 0.17 18485 Princes Road 365 0.25 18483 Albert Road 323 0.26 18481 South Street 311 0.19 18029 Brentwood Road 80 0.05 ROMFSN R0681 Romford Station 380 0.26 ROMFWR BP4227 Western Road 489 0.36 ROMFSE 34118 Romford Market 504 0.33 3539 Mawney Road 255 0.16		18263	Burnway	287	0.18
18258 Walden Way 318 0.20 18255 Brooklands Gardens 375 0.23 GIDPDL 18493 The Drill Roundabout 510 0.33 18491 Salisbury Road 202 0.13 18489 Cranham Road 234 0.15 18487 Frances Bardsley School 275 0.17 18485 Princes Road 365 0.23 18483 Albert Road 323 0.20 18481 South Street 311 0.15 18029 Brentwood Road 80 0.03 ROMFSN R0681 Romford Station 380 0.24 ROMFWR BP4227 Western Road 489 0.30 ROMFSE 34118 Romford Market 504 0.33 34115 North Street 376 0.23 3539 Mawney Road 255 0.16		18269	Emerson Park Station	221	0.14
18255 Brooklands Gardens 375 0.23 GIDPDL 18493 The Drill Roundabout 510 0.33 18491 Salisbury Road 202 0.13 18489 Cranham Road 234 0.15 18487 Frances Bardsley School 275 0.17 18485 Princes Road 365 0.23 18483 Albert Road 323 0.20 18481 South Street 311 0.15 18029 Brentwood Road 80 0.03 ROMFSN R0681 Romford Station 380 0.24 ROMFWR BP4227 Western Road 489 0.30 ROMFSE 34118 Romford Market 504 0.33 3539 Mawney Road 255 0.16		18259	Wykeham Avenue	394	0.24
GIDPDL 18493 The Drill Roundabout 510 0.33 18491 Salisbury Road 202 0.13 18489 Cranham Road 234 0.15 18487 Frances Bardsley School 275 0.17 18485 Princes Road 365 0.23 18483 Albert Road 323 0.20 18481 South Street 311 0.15 18029 Brentwood Road 80 0.03 ROMFSN R0681 Romford Station 380 0.24 ROMFWR BP4227 Western Road 489 0.30 ROMFSE 34118 Romford Market 504 0.33 34115 North Street 376 0.23 3539 Mawney Road 255 0.16		18258	Walden Way	318	0.20
18491 Salisbury Road 202 0.13 18489 Cranham Road 234 0.15 18487 Frances Bardsley School 275 0.17 18485 Princes Road 365 0.25 18483 Albert Road 323 0.20 18481 South Street 311 0.15 18029 Brentwood Road 80 0.05 ROMFSN R0681 Romford Station 380 0.24 ROMFWR BP4227 Western Road 489 0.30 ROMFSE 34118 Romford Market 504 0.33 34115 North Street 376 0.25 3539 Mawney Road 255 0.16		18255	Brooklands Gardens	375	0.23
18489 Cranham Road 234 0.15 18487 Frances Bardsley School 275 0.17 18485 Princes Road 365 0.25 18483 Albert Road 323 0.26 18481 South Street 311 0.15 18029 Brentwood Road 80 0.05 ROMFSN R0681 Romford Station 380 0.24 ROMFWR BP4227 Western Road 489 0.30 ROMFSE 34118 Romford Market 504 0.33 34115 North Street 376 0.23 3539 Mawney Road 255 0.16	GIDPDL	18493	The Drill Roundabout	510	0.32
18487 Frances Bardsley School 275 0.13 18485 Princes Road 365 0.23 18483 Albert Road 323 0.20 18481 South Street 311 0.15 18029 Brentwood Road 80 0.03 ROMFSN R0681 Romford Station 380 0.24 ROMFWR BP4227 Western Road 489 0.30 ROMFSE 34118 Romford Market 504 0.33 34115 North Street 376 0.23 3539 Mawney Road 255 0.16		18491	Salisbury Road	202	0.13
18485 Princes Road 365 0.23 18483 Albert Road 323 0.20 18481 South Street 311 0.19 18029 Brentwood Road 80 0.09 ROMFSN R0681 Romford Station 380 0.24 ROMFWR BP4227 Western Road 489 0.30 ROMFSE 34118 Romford Market 504 0.33 34115 North Street 376 0.23 3539 Mawney Road 255 0.16		18489	Cranham Road	234	0.15
18483 Albert Road 323 0.20 18481 South Street 311 0.19 18029 Brentwood Road 80 0.09 ROMFSN R0681 Romford Station 380 0.24 ROMFWR BP4227 Western Road 489 0.30 ROMFSE 34118 Romford Market 504 0.33 34115 North Street 376 0.23 3539 Mawney Road 255 0.16		18487	Frances Bardsley School	275	0.17
18481 South Street 311 0.15 18029 Brentwood Road 80 0.05 ROMFSN R0681 Romford Station 380 0.24 ROMFWR BP4227 Western Road 489 0.36 ROMFSE 34118 Romford Market 504 0.33 34115 North Street 376 0.23 3539 Mawney Road 255 0.16		18485	Princes Road	365	0.23
18029 Brentwood Road 80 0.05 ROMFSN R0681 Romford Station 380 0.24 ROMFWR BP4227 Western Road 489 0.30 ROMFSE 34118 Romford Market 504 0.33 34115 North Street 376 0.23 3539 Mawney Road 255 0.16		18483	Albert Road	323	0.20
ROMFSN R0681 Romford Station 380 0.24 ROMFWR BP4227 Western Road 489 0.30 ROMFSE 34118 Romford Market 504 0.33 34115 North Street 376 0.23 3539 Mawney Road 255 0.16		18481	South Street	311	0.19
ROMFWR BP4227 Western Road 489 0.30 ROMFSE 34118 Romford Market 504 0.33 34115 North Street 376 0.23 3539 Mawney Road 255 0.16		18029	Brentwood Road	80	0.05
ROMFWR BP4227 Western Road 489 0.30 ROMFSE 34118 Romford Market 504 0.33 34115 North Street 376 0.23 3539 Mawney Road 255 0.16	ROMFSN	R0681	Romford Station	380	0.24
ROMFSE 34118 Romford Market 504 0.33 34115 North Street 376 0.23 3539 Mawney Road 255 0.16					0.30
34115 North Street 376 0.25 3539 Mawney Road 255 0.16	ROMFSE	34118	Romford Market	504	0.31
3539 Mawney Road 255 0.16					0.23
					0.16
	ROMFBR				0.15
			·		

Transport for London - QSI Point and Mileage List

Route165 (via Victoria Road)Reason forService change30210Re-issue

Date

QSI Points are shaded in blue

QSI POI	nts are sna	aded in blue		
		OUT DIRECTION		
Timing Point				
	Stop Number	Stop Name	Metres	Miles
ROMFBR S	ROMFBR S	Romford, The Brewery		
ROMFBR	BP2994	The Brewery	0	0.00
NOWII DIX	R0332	Mawney Road	346	0.21
	34113	North Street	240	0.15
ROMFSE	34094	Romford Market	464	0.29
KOWII SE	LE135	Mercury Gardens	270	0.17
	34119	Western Road	284	0.17
ROMFSN	R0591	Romford Station	597	0.18
KOWIFSIN	18028	Thurloe Gardens	272	0.37
	18482	South Street	205	0.17
	18484	Albert Road	363	0.13
	18486	Princes Road	326	0.23
	18488			
		Frances Bardsley School	296	0.18
	18490	Cranham Road	297	0.18
CIDADI	18492	Salisbury Road	175	0.11
GIDPDL	20084	The Drill Roundabout	463	0.29
	18256	Brooklands Gardens	383	0.24
	18257	Walden Way	374	0.23
	18260	Burntwood Avenue	200	0.12
	18261	Emerson Park Station	324	0.20
	18264	Burnway	288	0.18
	18266	Queens Theatre	323	0.20
	8527	Hornchurch Town Centre	314	0.20
HORNTC	8528	Hornchurch Town Centre / North Street	148	0.09
	9768	Billet Lane	389	0.24
	14696	Abbs Cross Gardens	301	0.19
	18423	Stanley Road	442	0.27
	18425	Suttons Avenue	339	0.21
	18428	Abbs Cross School	343	0.21
	25708	Brian Close	310	0.19
	26547	Elm Parade	204	0.13
ELMPSN	18380	Elm Park Station	231	0.14
	26549	Ambleside Avenue	294	0.18
	26551	Aldingham Gardens	362	0.22
	R0074	Wood Lane	186	0.12
	29332	Freeborne Gardens	303	0.19
	29336	Kingaby Gardens	452	0.28
	29408	Albyns Close	300	0.19
	29338	Ford Lane	474	0.29
	29340	Alexandra Road	409	0.25
SHRNCT	26555	Rainham Road	261	0.16
	26556	Stanley Road South	384	0.24
	26559	Dunedin Road	339	0.21
	26560	Manor Way	150	0.09
	18384	Dovers Corner	317	0.20
RAINTS	BP776	Rainham Tesco	668	0.42
	18447	Rainham Village School	459	0.29
	18449	Brights Avenue	332	0.21
CHNDCR	9755	New Road	237	0.15
	20806	Allen Road	375	0.23
	9757	King Edward Avenue	285	0.18
	18451	Acer Avenue	285	0.18
	33791	Lake Avenue	366	0.23
	33793	King Edward Avenue	299	0.19
	33794	Briscoe Road	229	0.14
RAINAW	33795	Abbey Wood	463	0.29
RAINAW S	RAINAW S	RAINHAM, ABBEY WOOD LANE	0	0.00
		MAINTININ, ABBET WOOD LAND	3	0.00

TOTAL ROUTE MILEAGE - OUT DIRECTION	17740	11.02
TOTAL ROOTE WILLEAGE - OUT DIRECTION	metres	miles

Re-routeing at Rainham

		BACK DIRECTION		
Timina Balat				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
RAINAW S	RAINAW S	RAINHAM, ABBEY WOOD LANE		
RAINAW	33795	Abbey Wood	0	0.00
	33796	Thorn Lane	365	0.23
	33792	Lake Avenue	309	0.19
	18452	Acer Avenue	358	0.22
	9756	Lambs Lane	387	0.24
	20807	Allen Road	231	0.14
CHNDCR	8517	New Road	310	0.19
C. III C. II	18450	Brights Avenue	258	0.16
	18448	Rainham Village School	344	0.21
RAINWM	20479	Rainham War Memorial	487	0.30
	BP776	Rainham Tesco	268	0.17
	18385	Dovers Corner	496	0.31
	BP3551	Cherry Tree Lane	235	0.15
	29926	Dunedin Road	344	0.21
	26558	Edmund Road	167	0.10
	26557	Stanley Road South	341	0.10
SHRNCT	26554	Rainham Road	320	0.21
Jarcı	29339	Alexandra Road	248	0.15
	29339	Ford Lane	418	0.13
	29337	Mungo Park Road / South End Road	546	0.34
	29335	Kingaby Gardens	248	0.15
	29333	Freeborne Gardens	428	0.27
	29333	Wood Lane	295	0.18
	26550	Aldingham Gardens	203	0.13
	26548	Ambleside Avenue	372	0.23
ELMPSN	18381	Elm Park Station	306	0.19
CLIVII SIV	26546	Elm Parade	188	0.12
	25707	Brian Close	215	0.13
	18427	Abbs Cross School	292	0.18
	18426	Suttons Avenue	237	0.15
	18424	Stanley Road	340	0.21
	9771	Abbs Cross Lane	710	0.44
	FC05	Billet Lane	120	0.07
HORNTC	8527	Hornchurch Town Centre	384	0.24
	8528	Hornchurch Town Centre / North Street	148	0.09
	18265	Queens Theatre	290	0.18
	18263	Burnway	287	0.18
	18269	Emerson Park Station	221	0.14
	18259	Wykeham Avenue	394	0.24
	18258	Walden Way	318	0.20
	18255	Brooklands Gardens	375	0.23
GIDPDL	18493	The Drill Roundabout	510	0.32
	18491	Salisbury Road	202	0.13
	18489	Cranham Road	234	0.15
		Frances Bardsley School	2/5	0.17
	18487 18485	Frances Bardsley School Princes Road	275 365	0.17
	18487 18485	Princes Road	365	0.23
	18487 18485 18483	Princes Road Albert Road	365 323	0.23 0.20
	18487 18485 18483 18481	Princes Road Albert Road South Street	365 323 311	0.23 0.20 0.19
ROMFSN	18487 18485 18483 18481 18029	Princes Road Albert Road South Street Brentwood Road	365 323 311 80	0.23 0.20 0.19 0.05
ROMFSN	18487 18485 18483 18481	Princes Road Albert Road South Street	365 323 311	0.23 0.20 0.19
ROMFSN	18487 18485 18483 18481 18029 R0681	Princes Road Albert Road South Street Brentwood Road Romford Station	365 323 311 80 380	0.23 0.20 0.19 0.05 0.24
ROMFSN	18487 18485 18483 18481 18029 R0681	Princes Road Albert Road South Street Brentwood Road Romford Station Romford Market	365 323 311 80 380	0.23 0.20 0.19 0.05 0.24
ROMFSN	18487 18485 18483 18481 18029 R0681 34118	Princes Road Albert Road South Street Brentwood Road Romford Station Romford Market North Street	365 323 311 80 380 1022 376	0.23 0.20 0.19 0.05 0.24
ROMFSN	18487 18485 18483 18481 18029 R0681 34118 34115 3539	Princes Road Albert Road South Street Brentwood Road Romford Station Romford Market North Street Mawney Road	365 323 311 80 380 1022 376 255	0.23 0.20 0.19 0.05 0.24 0.64 0.23 0.16
ROMFSN	18487 18485 18483 18481 18029 R0681 34118	Princes Road Albert Road South Street Brentwood Road Romford Station Romford Market North Street	365 323 311 80 380 1022 376	0.23 0.20 0.19 0.05 0.24

TOTAL ROUTE MILEAGE - BACK DIRECTION	17382	10.80
	metres	miles