

7. Service Specification

Route: 476

Contract Reference: QC54902

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	Northumberland Park Station and Euston Bus Station
Contract Basis	Incentivised
Commencement Date	28 th January 2017
Vehicle Type	87 capacity, dual door, double deck buses
Current Maximum Approved Dimensions	10.4 metres long and 2.55 metres wide
New Vehicles Mandatory	Yes
Hybrid Price Required	Yes
Sponsored Route	No
Advertising Rights	Operator
Minimum Performance Standard	Average Excess Wait Time - No more than 1.10 minutes
Extension Threshold	Average Excess Wait Time Threshold - 1.00 minutes
Minimum Operated Mileage Standard	No less than 98.00%

The Date of Tender for this ITT is:

No later than 12 Noon on Monday 15th February 2016

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, no changes are proposed to the existing service for introduction prior to the commencement of the new Route Agreement for Route No. 476.

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 AM frequency ex Northumberland Park Station between 0631 and 0720 is reduced from every 7 minutes to every 8 minutes.
- The Mondays to Fridays PM frequency ex Euston Bus Station between 1451 and 1715 is reduced from every 7-8 minutes (8 buses per hour) to every 8 minutes.

Tenderers are also encouraged to offer two axle vehicles with a longer wheelbase and increased capacity, subject to route constraints. Tenders offering such vehicles will be welcomed and carefully considered by the Corporation. Triaxle vehicles are not being considered by the Corporation at this time.

Operators should provide the following prices:

1. Annual diesel price - based on minimum 5 year contract.
2. Annual hybrid price - based on minimum 5 year contract.
3. Annual hybrid price - with upfront payment of capital difference between diesel and hybrid for 5 year contract.

3) SCHEDULE REQUIREMENTS & PINCHPOINTS

3.1) MONDAY TO FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Northumberland Park Station to Euston Bus Station			Euston Bus Station to Northumberland Park Station		
First departure no later than 0525.			First departure no later than 0600.		
0520 - 0550	Every 12 minutes		0555 - 0700	Every 12 minutes	
0551 - 0630	Every 10 minutes		0701 - 0730	Every 10 minutes	
0631 - 0720	Every 8 minutes		0731 - 1715	Every 8 minutes	
0721 - 0820	Every 6 minutes		1716 - 1815	Every 6 minutes	
0821 - 1855	Every 8 minutes		1816 - 2010	Every 8 minutes	
1856 - 1925	Every 10 minutes		2011 - 2050	Every 10 minutes	
1926 - 2345	Every 12 minutes		2051 - 0010	Every 12 minutes	
Last departure no earlier than 2340.			Last departure no earlier than 0005.		
Pinchpoints					
Islington, Angel, High Street	0720 - 0810	8 minutes	Stamford Hill Broadway	0730 - 0800	10 minutes
	0811 - 0910	6 minutes		0801 - 0900	8 minutes
	1500 - 1635	8 minutes		1501 - 1635	8 minutes

3.2) SATURDAY AND GOOD FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Northumberland Park Station to Euston Bus Station			Euston Bus Station to Northumberland Park Station		
First departure no later than 0525.			First departure no later than 0600.		
0520 - 0725	Every 15 minutes		0555 - 0845	Every 15 minutes	
0726 - 0815	Every 12 minutes		0846 - 0910	Every 12 minutes	
0816 - 0845	Every 10 minutes		0911 - 0930	Every 10 minutes	
0846 - 1755	Every 8 minutes		0931 - 1910	Every 8 minutes	
1756 - 1825	Every 10 minutes		1911 - 1950	Every 10 minutes	
1826 - 2345	Every 12 minutes		1951 - 0010	Every 12 minutes	
Last departure no earlier than 2340.			Last departure no earlier than 0005.		
Pinchpoints					
Islington, Angel, High Street	0920 - 1100	8 minutes	Stamford Hill Broadway	0920 - 0945	12 minutes
				0946 - 1005	10 minutes
				1006 - 1105	8 minutes

3) SCHEDULE REQUIREMENTS & PINCHPOINTS - Continued

3.3) SUNDAY AND PUBLIC HOLIDAYS (EXCEPT GOOD FRIDAY AND CHRISTMAS DAY) SCHEDULE REQUIREMENTS & PINCHPOINTS

Northumberland Park Station to Euston Bus Station		Euston Bus Station to Northumberland Park Station			
First departure no later than 0525.		First departure no later than 0600.			
0520 - 0840	Every 15 minutes	0555 - 0940	Every 15 minutes		
0841 - 2345	Every 12 minutes	0941 - 0010	Every 12 minutes		
Last departure no earlier than 2340.		Last departure no earlier than 0005.			
Pinchpoints					
Islington, Angel, High Street	0950 - 1150	12 minutes	Stamford Hill Broadway	1035 - 1235	12 minutes

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

4) OPERATIONAL CONSIDERATIONS

- 4.1) Route No. 476 can suffer from unpredictable traffic delays in the Tottenham, Angel and King's Cross areas.
- 4.2) Football matches at Tottenham Hotspur Football Club. can also cause traffic congestion in the Tottenham area.
- 4.3) Two continuous largely segregated cycle routes through central London are due to open in March 2016. The East-West Cycle Superhighway will operate between Tower Hill and Acton and the North-South Cycle Superhighway will operate between Elephant & Castle and Farringdon station. North of Farringdon station, the North-South route is planned to connect to a new Quietway back-street cycle route to King's Cross. This would provide cyclists with a route through central London on low traffic streets. The impact of Cycle Superhighway on Route Nos. 476 will be reviewed after the opening date.
- 4.4) Major changes to the King's Cross gyratory are proposed as part of the Road Modernisation Plan. These proposals include improving the Euston Road / York Way / Gray's Inn Road junction for cyclists by creating separate controlled crossing facilities for pedestrians and cyclists across Euston Road.
- 4.5) Further road space improvements are proposed in the near future, including the north-south cycle route and pedestrian crossing facilities on Euston Road. Any impacts arising from these works will be analysed as plans come forward.

**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 476: Northumberland Park Station - Euston Station

Date of Structural Change: 28 January 2017.

Date of Service Change: 28 January 2017.

Reason for Issue: New Tender.

STREETS TRAVERSED

Towards Euston Station: Northumberland Park, Park Lane, Shelbourne Road, Lansdowne Road, Tottenham High Road, Stamford Hill, Northwold Road, Rectory Road, Brooke Road, Stoke Newington High Street, Stoke Newington Church Street, Albion Road, Newington Green (North Side), Newington Green (East Side), Newington Green (South Side), Newington Green Road, Essex Road, Islington Green, Upper Street, Islington High Street, Pentonville Road, King's Cross Bridge, Gray's Inn Road, Euston Road, Churchway, Grafton Place, Euston Bus Station.

Towards Northumberland Park Station: Euston Bus Station, Grafton Place, Churchway, Euston Road, Pentonville Road, Baron Street, White Lion Street, Islington High Street, Upper Street, Islington Green, Essex Road, Newington Green Road, Newington Green (West Side), Albion Road, Stoke Newington Church Street, Stoke Newington High Street, Stamford Hill, Tottenham High Road, Lansdowne Road, Shelbourne Road, Willoughby Lane.

AUTHORISED STANDS, CURTAILMENT POINTS, & BLIND DESCRIPTIONS

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

NORTHUMBERLAND PARK STATION

Public stand in two sections for 8 buses on Northumberland Park (southern arm). East side stand commences opposite walkway access to Anglia Close and extends 54 metres north. West side offside stand commences at walkway to Anglia Close and extends 52 metres north.

Buses proceed from Willoughby Lane via Northumberland Park (Southern Arm) to stand, departing to Northumberland Park (Southern Arm). Set down in Willoughby Lane, at Stop NB (35893 - Northumberland Park, Last Stop on LOR: 35893 - Northumberland Park) and pick up in Northumberland Park, at Stop NA (35934 - Northumberland Park, First Stop on LOR: 35934 - Northumberland Park).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	No more than three vehicles on Route No 476 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:	Northumberland Park.

TOTTENHAM, TOWN HALL APPROACH ROAD (from EUSTON STATION)

Public stand for 1 bus on east side of Town Hall Approach Road commencing 26 metres north of lamp standard No. TA7A and extending 24 metres north. Buses from Edmonton can turn right into Philip Lane from the High Road

Buses proceed from Tottenham High Road via Philip Lane and Town Hall Approach Road to stand, departing via Town Hall Approach Road to Tottenham High Road. Set down in Tottenham High Road, at Stop M (1043 - Tottenham Town Hall, Last Stop on LOR: 1043 - Tottenham Town Hall) and pick up in Tottenham High Road, at Stop G (670 - College Of North East London, First Stop on LOR: 670 - College Of North East London).

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:	Tottenham, Town Hall.

STAMFORD HILL, ROOKWOOD ROAD, EAST SIDE

Public stand for 3 buses in two sections (16.5 and 24.5 metres) on east side of Rookwood Road outside Stamford Hill Bus Garage commencing level with lamp standard No. 3 and extending overall 77.5 metres north.

From Euston Station.

Buses proceed from Stamford Hill via Egerton Road and Rookwood Road to stand, departing via Rookwood Road, Castlewood Road and Clapton Common to Stamford Hill. Set down in Stamford Hill, at Stop SD (14442 - Stamford Hill Broadway, Last Stop on LOR: 14442 - Stamford Hill Broadway) and pick up in Stamford Hill, at Stop SL (12415 - Stamford Hill Broadway, First Stop on LOR: 26361 - Stamford Hill Library).

From Northumberland Park Station.

Buses proceed from Stamford Hill via Egerton Road and Rookwood Road to stand, departing via Rookwood Road, Castlewood Road and Clapton Common to Stamford Hill. Set down in Stamford Hill, at Stop SK (25904 - Egerton Road, Last Stop on LOR: 25904 - Egerton Road) and pick up in Stamford Hill, at Stop SE (789 - Egerton Road, First Stop on LOR: 789 - Egerton Road).

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:	Stamford Hill.

STOKE NEWINGTON COMMON

Public stand in Stoke Newington Common in 2 parts.

1 - On south side, commencing behind the 33m bus stop cage and extending 53m east.

2 - Overflow stand on north side (offside), commencing at lamp standard No 4 and extending 45 metres east.

From Euston Station.

Buses proceed from Stoke Newington High Street via Northwold Road and Stoke Newington Common to stand, departing via Stoke Newington Common and Rectory Road to Brooke Road. Set down in Stoke Newington High Street, at Stop X (R0365 - Stoke Newington Church Street, Last Stop on LOR: R0365 - Stoke Newington Church Street) and pick up in Brooke Road, at Stop U (BP4241 - Stoke Newington High Street, First Stop on LOR: BP4241 - Stoke Newington High Street).

From Northumberland Park Station.

Buses proceed from Northwold Road via Stoke Newington Common to stand, departing via Stoke Newington Common, Rectory Road, Manse Road and Evering Road to Stoke Newington High Street. Set down in Northwold Road, at Stop D (BP3194 - Northwold Road / Stoke Newington Common, Last Stop on LOR: BP3194 - Northwold Road / Stoke Newington Common) and pick up in Stoke Newington High Street, at Stop X (R0365 - Stoke Newington Church Street, First Stop on LOR: R0365 - Stoke Newington Church Street).

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:	Stoke Newington.

STOKE NEWINGTON, CLISSOLD ROAD (from EUSTON STATION)

Public stand on the offside of Clissold Road, facing north, commencing opposite No. 39 and extending 46 metres south.

Buses proceed from Albion Road via Stoke Newington Church Street and Clissold Road to stand, departing via Clissold Road to Albion Road. Set down in Albion Road (1921 - Stoke Newington Town Hall, Last Stop on LOR: 1921 - Stoke Newington Town Hall) and pick up in Albion Road, at Stop NA (1922 - Clissold Crescent, First Stop on LOR: 1922 - Clissold Crescent).

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:	Albion Road.

NEWINGTON GREEN

Public stand for two buses on south side of Newington Green, commencing 29 metres east of the centre of Newington Green Road and extending 27 metres east.

From Euston Station.

Buses proceed from Newington Green (West Side) via Newington Green (North Side), Newington Green (East Side) and Newington Green (South Side) to stand, departing via Newington Green (South Side) to Newington Green Road. Set down in Newington Green (west Side), at Stop NK (1080 - Newington Green, Last Stop on LOR: 1080 - Newington Green) and pick up in Newington Green Road, at Stop CA (15891 - Beresford Road, First Stop on LOR: 15891 - Beresford Road).

From Northumberland Park Station.

Buses proceed from Newington Green (East Side) via Newington Green (South Side) to stand, departing via Newington Green (South Side) to Newington Green (West Side). Set down in Newington Green (east Side), at Stop NE (2442 - Newington Green, Last Stop on LOR: 2442 - Newington Green) and pick up in Newington Green (west Side), at Stop NK (1080 - Newington Green, First Stop on LOR: 1080 - Newington Green).

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:	Newington Green.

ISLINGTON, ANGEL (GOSWELL ROAD) (from Northumberland Park Station)

Public stand on north west side of Goswell Road in two portions:

1 - for three buses, commencing opposite the part wall of no.332 and extending 30 metres north west.

2 - for two buses, commencing opposite no.356 and extending 21 metres north west. Buses proceed from Upper Street via Islington High Street, City Road, Wakley Street and Goswell Road to stand, departing via Goswell Road, City Road and Islington High Street to Upper Street. Set down in Upper Street, at Stop F (36602 - Angel Station <>, Last Stop on LOR: 36602 - Angel Station <>) and pick up in Upper Street, at Stop X (4716 - Angel Station <>, First Stop on LOR: 4716 - Angel 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:	Islington Angel.

KING'S CROSS, YORK WAY (from Northumberland Park Station)

Public stand for 10 buses on west side of York Way commencing opposite and 31 metres south of Wharfedale Road extending 112 metres south.

Buses proceed from Pentonville Road via King's Cross Bridge, Gray's Inn Road and York Way to stand, departing via York Way, Goods Way, Battle Bridge Road and Pancras Road to Euston Road. Set down in Pentonville Road, at Stop X (34940 - King's Cross / Caledonian Road, Last Stop on LOR: 34940 - King's Cross / Caledonian Road) and pick up in Euston Road, at Stop E (R0058 - King's Cross Station <> #, First Stop on LOR: R0058 - King's Cross 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: King's Cross.

EUSTON BUS STATION, REAR STAND

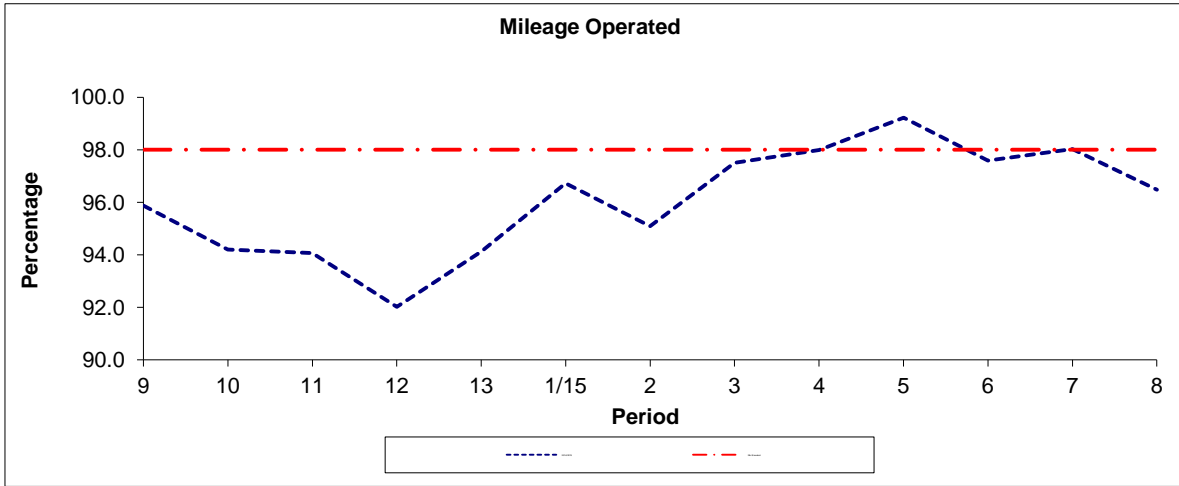
Private stand for two buses on Route 476 in rear corner of Euston Bus Station.

Buses proceed from Euston Bus Station direct to stand, departing to Euston Bus Station. Set down in Euston Bus Station, at Alighting Point (BP4522 - Euston Bus Station # <>, Last Stop on LOR: BP4522 - Euston Bus Station # <>) and pick up in Euston Bus Station, at Stop D (36513 - Euston Station <>#, First Stop on LOR: 36513 - Euston Station <>#).

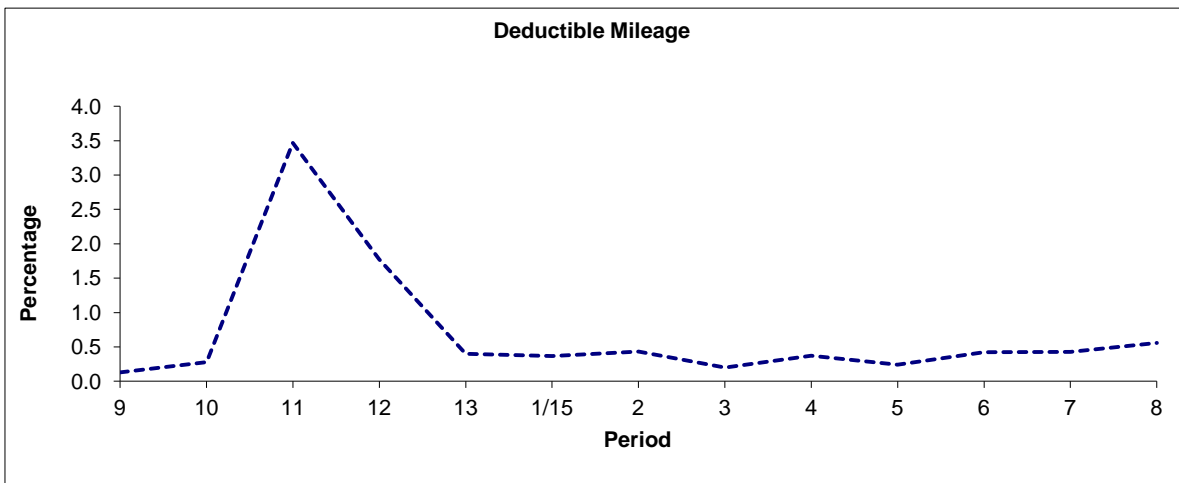
AVAILABILITY: At any time.
OPERATING RESTRICTIONS: No more than 2 buses on Route 476 should be scheduled to stand at any one time.
MEAL RELIEFS: No meal relief vehicles to stand at any time.
FERRY VEHICLES: No ferry vehicles to park on stand at any time.
BLIND DISPLAY: Euston.

PART B - PERFORMANCE STATISTICS

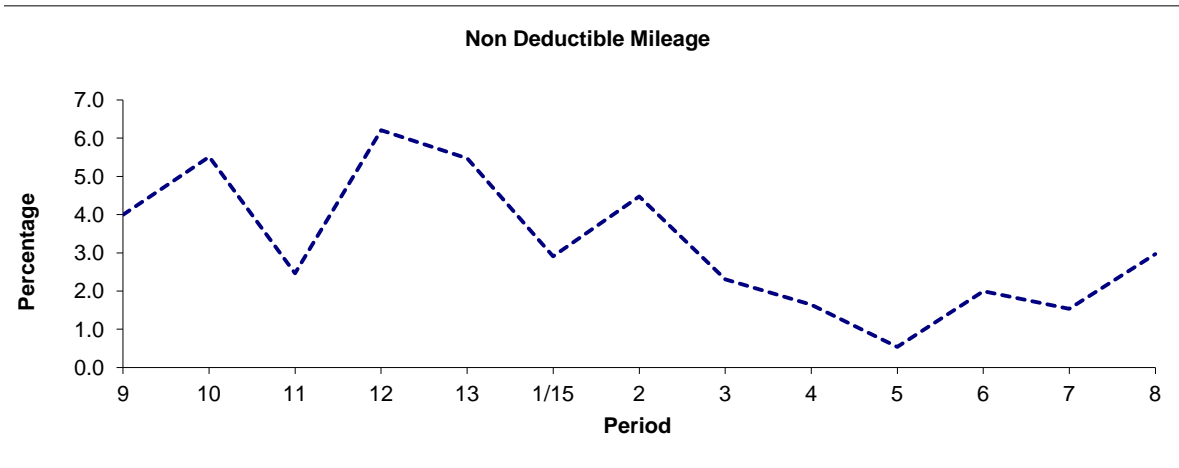
Route 476



Period	9	10	11	12	13	1/15	2	3	4	5	6	7	8
2014/2015	95.87	94.20	94.07	92.02	94.13	96.72	95.09	97.50	97.99	99.22	97.58	98.03	96.48
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



Period	9	10	11	12	13	1/15	2	3	4	5	6	7	8
2014/2015	0.13	0.28	3.47	1.77	0.40	0.37	0.43	0.20	0.37	0.24	0.42	0.43	0.56

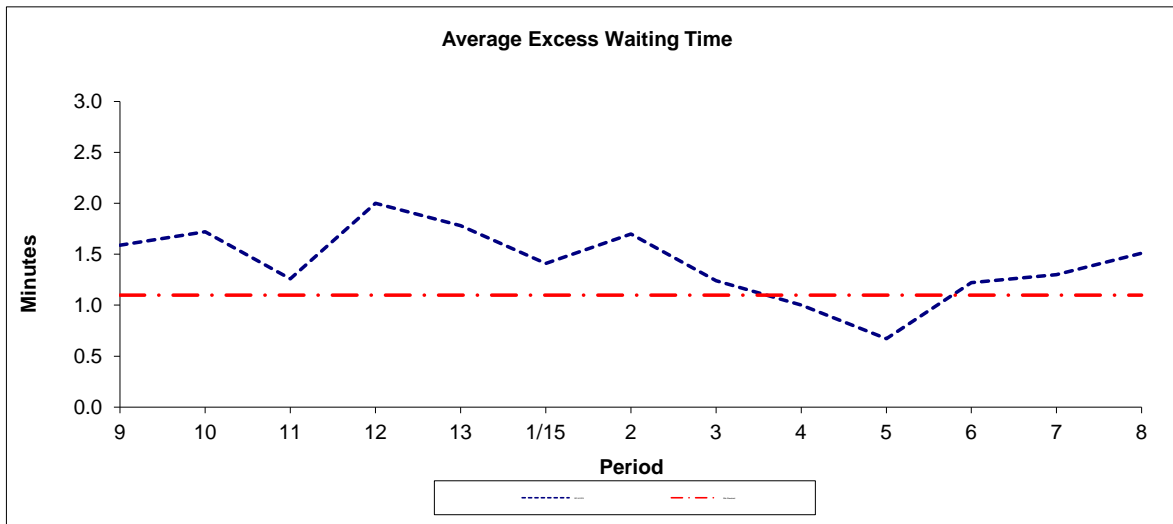


Period	9	10	11	12	13	1/15	2	3	4	5	6	7	8
2014/2015	4.00	5.52	2.46	6.21	5.47	2.91	4.48	2.30	1.64	0.54	1.99	1.54	2.96

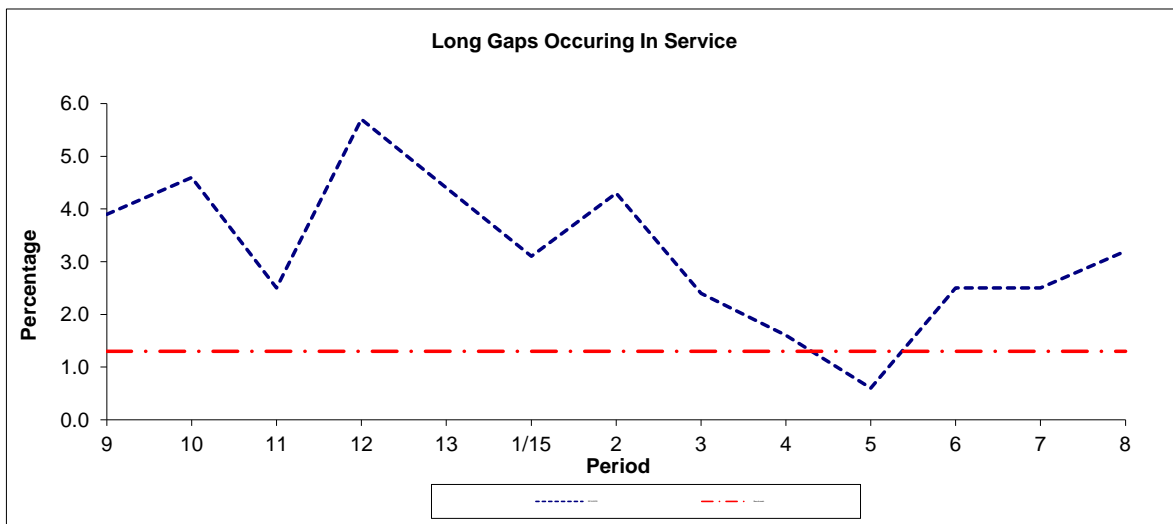
Note : Mileage is based on 4 weeks data
 Deductible Mileage was adversely affected by industrial action in periods 11 and 12 14/15.

PART B - PERFORMANCE STATISTICS

Route 476



Period	9	10	11	12	13	1/15	2	3	4	5	6	7	8
2014-2015	1.59	1.72	1.26	2.00	1.78	1.41	1.70	1.24	1.00	0.67	1.22	1.30	1.51
Min Standard	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10



Period	9	10	11	12	13	1/15	2	3	4	5	6	7	8
2014-2015	3.9	4.6	2.5	5.7	4.4	3.1	4.3	2.4	1.6	0.6	2.5	2.5	3.2
Benchmark	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

Note : Reliability is actual performance under full iBus (4 weeks data).
 Minimum Standards and Benchmarks are those applicable under the new contract.

**ROUTE 476 - FULL iBUS RESULTS BY TIME OF DAY
 QUARTER 3 14/15 TO QUARTER 2 15/16 (13/09/14 - 18/09/15)**

MONDAY - FRIDAY

Time Range	Expected Buses	Observed Buses	Observed Buses (%)	SWT (mins)	EWT (mins)	AWT (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)
05:00 - 07:00	25,621.	24,428.	95.3	5.55	0.52	6.08	86.0	13.6	0.3	0.0	0.4	40
07:00 - 10:00	100,218.	94,959.	94.8	3.85	1.37	5.22	86.3	12.7	1.0	0.1	3.4	48
10:00 - 13:00	95,385.	90,819.	95.2	4.01	1.45	5.45	86.0	12.8	1.1	0.1	3.1	57
13:00 - 16:00	96,809.	91,194.	94.2	3.91	1.63	5.54	84.8	13.5	1.5	0.2	4.2	52
16:00 - 19:00	99,338.	93,331.	94.0	3.80	1.90	5.69	83.4	14.7	1.6	0.3	5.5	71
19:00 - 22:00	76,319.	74,698.	97.9	4.79	1.58	6.37	78.3	19.1	2.1	0.4	3.4	78
22:00 - 24:00	41,806.	41,338.	98.9	5.96	1.21	7.17	74.7	22.7	2.4	0.3	1.1	62
All Locations	535,496.	510,767.	95.4	4.13	1.55	5.67	83.9	14.5	1.4	0.2	3.8	78

SATURDAY

Time Range	Expected Buses	Observed Buses	Observed Buses (%)	SWT (mins)	EWT (mins)	AWT (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)
05:00 - 07:00	4,021.	3,875.	96.4	7.42	0.42	7.84	72.9	25.7	1.2	0.2	0.8	41
07:00 - 10:00	13,616.	13,265.	97.4	6.04	0.79	6.83	77.2	21.5	1.2	0.1	0.3	66
10:00 - 13:00	20,074.	19,986.	99.6	4.03	0.90	4.92	90.6	9.3	0.2	0.0	0.9	35
13:00 - 16:00	20,191.	19,573.	96.9	4.00	1.11	5.12	88.5	11.0	0.4	0.1	1.7	37
16:00 - 19:00	19,013.	18,647.	98.1	4.09	1.20	5.29	87.2	11.8	0.9	0.1	2.4	59
19:00 - 22:00	14,718.	14,134.	96.0	5.43	1.42	6.85	74.7	22.2	2.7	0.3	2.0	49
22:00 - 24:00	8,988.	8,798.	97.9	5.96	1.40	7.36	73.1	24.1	2.5	0.2	1.0	57
All Locations	100,621.	98,278.	97.7	4.64	1.08	5.72	84.4	14.5	1.0	0.1	1.5	66

SUNDAY AND BANK HOLIDAYS

Time Range	Expected Buses	Observed Buses	Observed Buses (%)	SWT (mins)	EWT (mins)	AWT (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)
05:00 - 07:00	4,337.	4,282.	98.7	7.45	0.32	7.77	73.6	25.7	0.7	0.0	0.7	34
07:00 - 10:00	12,653.	12,538.	99.1	7.04	0.49	7.53	70.4	28.6	1.0	0.1	0.1	43
10:00 - 13:00	15,444.	15,401.	99.7	5.85	0.60	6.45	78.9	20.4	0.7	0.0	0.2	43
13:00 - 16:00	14,958.	14,658.	98.0	5.97	0.79	6.76	76.4	22.3	1.2	0.1	0.6	41
16:00 - 19:00	14,953.	14,820.	99.1	5.99	0.90	6.89	75.8	22.4	1.6	0.2	0.9	58
19:00 - 22:00	15,136.	15,060.	99.5	5.95	0.80	6.76	76.8	22.1	1.1	0.1	0.4	44
22:00 - 24:00	10,030.	10,070.	100.4	6.00	0.42	6.42	80.1	19.3	0.5	0.1	0.2	40
All Locations	87,511.	86,829.	99.2	6.09	0.72	6.80	76.4	22.4	1.1	0.1	0.5	58

ALL DAYS

Time Range	Expected Buses	Observed Buses	Observed Buses (%)	SWT (mins)	EWT (mins)	AWT (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)
05:00 - 07:00	33,979.	32,585.	95.9	5.87	0.50	6.37	83.8	15.7	0.4	0.0	0.5	41
07:00 - 10:00	126,487.	120,762.	95.5	4.19	1.28	5.47	84.7	14.2	1.0	0.1	3.0	66
10:00 - 13:00	130,903.	126,206.	96.4	4.23	1.26	5.49	85.9	13.2	0.9	0.1	2.4	57
13:00 - 16:00	131,958.	125,425.	95.0	4.15	1.46	5.61	84.4	14.2	1.3	0.2	3.4	52
16:00 - 19:00	133,304.	126,798.	95.1	4.05	1.72	5.76	83.1	15.1	1.5	0.2	4.6	71
19:00 - 22:00	106,173.	103,892.	97.9	5.01	1.47	6.48	77.7	19.9	2.1	0.4	2.9	78
22:00 - 24:00	60,824.	60,206.	99.0	5.97	1.13	7.10	75.2	22.4	2.2	0.2	1.0	62
All Locations	723,628.	695,874.	96.2	4.38	1.41	5.79	83.2	15.3	1.3	0.2	3.2	78

Transport for London - QSI Points and Live Mileage List

v2.0 - Mileage directly imported from Caesar

TRANCHE 549

Route 476
 Service change 24481
 Date 04/10/2011

Reason for Issue

Mileage Update

QSI Points are highlighted.

OUT DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
NDPKSN	35934	Northumberland Park		
	29724	Chalgrove Road	543	0.34
	29722	Spencer Road	271	0.17
	29720	Tottenham High Road	285	0.18
	BP1985	Scotland Green	234	0.15
BRGRSNT	1234	Tottenham High Road / Bruce Grove Stn	481	0.30
	R0307	Tottenham Police Station	204	0.13
	10944	Philip Lane	379	0.24
SSISSN	670	Seven Sisters Station	355	0.22
	959	Seven Sisters Road	294	0.18
	2075	South Tottenham Station	181	0.11
	9647	St Ann's Road	321	0.20
	25904	Egerton Road	366	0.23
STAMBY	BP5230	Stamford Hill Broadway	219	0.14
	26361	Stamford Hill Library	290	0.18
	1545	Lymouth Road	272	0.17
	1116	Stoke Newington Station	306	0.19
	BP3194	Northwold Road / Stoke Newington Common	258	0.16
SNEWBR	BP4241	Stoke Newington High Street	546	0.34
	1919	William Patten School	265	0.16
	15890	Bouverie Road	209	0.13
	1920	Stoke Newington Town Hall	368	0.23
	25132	Barbauld Road	304	0.19
	1922	Clissold Crescent	334	0.21
	1082	Green Lanes	433	0.27
NEWNGN	2442	Newington Green	141	0.09
	15891	Beresford Road	291	0.18
	907	Balls Pond Road	327	0.20
	2636	Essex Road / Marquess Road	195	0.12
	2632	Northchurch Road	303	0.19
ESXRSN	14920	Essex Road Station	409	0.25
	793	Cross Street	441	0.27
	2626	Packington Street	197	0.12
	791	Islington Green	188	0.12
ISLNHS	36602	Angel Station	307	0.19
	361	Pentonville Road / Baron Street	304	0.19
	1074	Penton Street / Chapel Market	188	0.12
	BP134	Penton Rise	332	0.21
	34940	King's Cross / Caledonian Road	377	0.23
KGSXGI	183	King's Cross Station	140	0.09
	14736	St Pancras International Station	268	0.17
	27622	British Library	263	0.16
EUSTSN	BP4522	Euston Bus Station	322	0.20

TOTAL ROUTE MILEAGE - OUT DIRECTION 12711 metres 7.90 miles

BACK DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
EUSTSN	36513	Euston Station		
	8330	British Library	472	0.29
KGSXER	R0058	King's Cross Station	333	0.21
	185	King's Cross Road	311	0.19
	8363	Penton Rise	204	0.13
	1073	Penton Street	273	0.17
	9487	Baron Street / Chapel Market	232	0.14
	9488	White Lion Street	201	0.12
ISLNHS	4716	Angel Station	212	0.13
	790	Islington Green	341	0.21
	2627	Packington Street	219	0.14
	792	Cross Street	206	0.13
ESXRSN	26591	Essex Road Station	151	0.09
	2633	Northchurch Road	425	0.26
	2637	Ockendon Road	308	0.19
	4715	Newington Green Road / Balls Pond Road	332	0.21
	15892	Beresford Road	330	0.21
NEWNGN	1080	Newington Green	247	0.15
	1923	Clissold Crescent	562	0.35
	BP1562	Barbauld Road	237	0.15
	1921	Stoke Newington Town Hall	265	0.16
SNEWHC	R0731	Bouverie Road	510	0.32
	BP4880	William Patten School	193	0.12
	R0365	Stoke Newington High St / Garnham St	149	0.09
	26234	Stoke Newington Station	216	0.13
	1544	Lymouth Road	365	0.23
	26360	Stamford Hill Library	243	0.15
STAMBY	14442	Stamford Hill Broadway	330	0.21
	789	Egerton Road	152	0.09
	2080	St Ann's Road	259	0.16
	BP3383	Lealand Road	212	0.13
	2076	South Tottenham Station	256	0.16
	958	Seven Sisters Road	179	0.11
SSISSN	BP2074	Seven Sisters Station	154	0.10
	671	Tottenham Town Hall	108	0.07
	1043	Philip Lane	369	0.23
	10942	Tottenham Police Station	275	0.17
BRGRSNT	BP4947	Bruce Grove Station	308	0.19
	962	Lordship Lane	552	0.34
	29721	Tottenham High Road	190	0.12
	29723	Spencer Road	324	0.20
	29725	Chalgrove Road	227	0.14
NDPKSN	35893	Northumberland Park	538	0.33

TOTAL ROUTE MILEAGE - BACK DIRECTION 11970 metres 7.44 miles