

7. Service Specification

Route: 450

Contract Reference: QC53902

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.

Route Number	450
Terminus Points	West Croydon Bus Station and Lower Sydenham Sainsbury's
Contract Basis	Incentivised
Commencement Date	01 st October 2016
Vehicle Type	50 capacity, dual door, single deck
Current Maximum Approved Dimensions	9.3 metres long and 2.44 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 16th November 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. 450.

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:

- Mondays to Saturdays daytime frequencies are increased from every 10 minutes to every 8 minutes.
- Sunday daytime and all evening frequencies are increased from every 20 minutes to every 15 minutes.

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

West Croydon Bus station to Lower Sydenham, Sainsbury's		Lower Sydenham, Sainsbury's to West Croydon Bus Station			
First departure no later than 0525.		First departure no later than 0515.			
0520 - 0645	Every 20 minutes	0510 - 0615	Every 20 minutes		
0646 - 0715	Every 15 minutes	0616 - 0645	Every 15 minutes		
0716 - 1900	Every 8 minutes	0646 - 1830	Every 8 minutes		
1901 - 1935	Every 12 minutes	1831 - 1905	Every 12 minutes		
1936 - 0010	Every 15 minutes	1906 - 2400	Every 15 minutes		
Last departure no earlier than 0005.		Last departure no earlier than 2355.			
Pinchpoints					
Crystal Palace Parade	0750 - 0900	8 minutes	Thornton Heath, Station	0725 - 0900	8 minutes
	1500 - 1640	8 minutes		1500 - 1640	8 minutes

3.2) SATURDAY AND GOOD FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

West Croydon Bus station to Lower Sydenham, Sainsbury's		Lower Sydenham, Sainsbury's to West Croydon Bus Station			
First departure no later than 0525.		First departure no later than 0515.			
0520 - 0725	Every 20 minutes	0510 - 0715	Every 20 minutes		
0726 - 0825	Every 15 minutes	0716 - 0815	Every 15 minutes		
0826 - 1810	Every 8 minutes	0816 - 1745	Every 8 minutes		
1811 - 0010	Every 15 minutes	1746 - 2400	Every 15 minutes		
Last departure no earlier than 0005.		Last departure no earlier than 2355.			
Pinchpoints					
Crystal Palace Parade	0905 - 1105	8 minutes	Thornton Heath, Station	0900 - 1100	8 minutes

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

West Croydon Bus station to Lower Sydenham, Sainsbury's		Lower Sydenham, Sainsbury's to West Croydon Bus Station			
First departure no later than 0605.		First departure no later than 0550.			
0600 - 0805	Every 30 minutes	0545 - 0820	Every 30 minutes		
0806 - 0010	Every 15 minutes	0821 - 2400	Every 15 minutes		
Last departure no earlier than 0005.		Last departure no earlier than 2355.			
Pinchpoints					
Crystal Palace Parade	1005 - 1205	15 minutes	Thornton Heath, Station	1000 - 1200	15 minutes

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

4) OPERATIONAL CONSIDERATIONS

- 4.1) Route No. 450 can suffer from unpredictable traffic delays in the West Croydon, Thornton Heath and Crystal Palace areas.
- 4.2) Smaller buses are used on the route due to highway constraints in the Crystal Palace area.
- 4.3) There is significant development planned for Croydon in the future, including Westfield shopping centre. Significant changes to the highway layout are planned including the introduction of several pedestrian crossings on Wellesley Road and the introduction of the Dingwall Road Loop on the tram system.

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 450: West Croydon Bus Station - Lower Sydenham, Sainsburys

Date of Structural Change: 1 October 2016.

Date of Service Change: 1 October 2016.

Reason for Issue: {To be specified}.

STREETS TRAVERSED

Towards Lower Sydenham, Sainsburys: Wellesley Road, St James's Road, Hogarth Crescent, Whitehorse Road, Northcote Road, Windmill Road, Queen's Road, Bensham Lane, Brigstock Road, Parchmore Road, Beulah Road, Beulah Crescent, Osborne Road, Northwood Road, Spa Hill, Beulah Hill, Harold Road, Chevening Road, Hermitage Road, Central Hill, Westow Hill, Crystal Palace Parade, College Road, Dulwich Wood Park, Kingswood Drive, College Road, Fountain Drive, Westwood Hill, Sydenham Road, Bell Green, Sainsburys Access Road.

Towards West Croydon Bus Station: Sainsburys Access Road, Bell Green, Sydenham Road, Westwood Hill, Fountain Drive, College Road, Kingswood Drive, Dulwich Wood Park, College Road, Crystal Palace Parade, Anerley Hill, Anerley Road, Hamlet Road, Maberley Road, Sylvan Road, Sylvan Hill, Church Road, Westow Street, Central Hill, Hermitage Road, Chevening Road, Harold Road, Beulah Hill, Spa Hill, Northwood Road, Osborne Road, Beulah Crescent, Beulah Road, Parchmore Road, Brigstock Road, Bensham Lane, Queen's Road, Windmill Road, Northcote Road, Whitehorse Road, St James's Road, Newgate, Wellesley Road, Station Road, North End, Poplar Walk, St Michael's Road.

AUTHORISED STANDS, CURTAILMENT POINTS, & BLIND DESCRIPTIONS

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

WEST CROYDON BUS STATION

Private stand for 14 buses in West Croydon Bus Station on east side of Station Road. Buses proceed from St Michael's Road via West Croydon Bus Station to stand, departing via West Croydon Bus Station and Station Road to Wellesley Road. Set down in St Michael's Road, at Stop B8 (BP2300 - West Croydon Bus Station, Last Stop on LOR: BP2300 - West Croydon Bus Station) and pick up in Wellesley Road, at Stop K (6564 - Bedford Hall, First Stop on LOR: 6564 - Bedford Hall).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	No more than 2 buses on Route 450 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:	West Croydon.
OTHER INFORMATION:	All buses must be fitted with an audible warning reversing device. Toilets are available.

THORNTON HEATH, CLOCK TOWER

Public offside for two buses on west side of the southbound carriageway of Parchmore Road commencing 5 metres north of the slip road to northbound carriageway.

From Lower Sydenham, Sainsburys.

Buses proceed from Parchmore Road direct to stand, departing to Parchmore Road. Set down in Parchmore Road, at stop F (26861 - Thornton Heath Clock Tower, Last Stop on LOR: 26861 - Thornton Heath Clock Tower) and pick up in Parchmore Road, at stop E (17684 - Parchmore Road, First Stop on LOR: 17685 - Parchmore Road).

From West Croydon Bus Station.

Buses proceed from Parchmore Road via Turn Through Central Reservation and Parchmore Road to stand, departing to Parchmore Road. Set down in Parchmore Road, at stop E (17684 - Parchmore Road, Last Stop on LOR: 25739 - Thornton Heath Station #) and pick up in Brigstock Road, at stop C (25740 - Thornton Heath Station #, First Stop on LOR: 25740 - Thornton Heath 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:	Thornton Heath, High Street.

UPPER NORWOOD, UPPER BEULAH HILL

Public stand for one bus on south side of Upper Beulah Hill, commencing 32 metres east of Beulah Hill.

From Lower Sydenham, Sainsburys.

Buses proceed from Harold Road via Beulah Hill and Upper Beulah Hill to stand, departing via Upper Beulah Hill, Church Road and Beulah Hill to Harold Road. Set down in Harold Road, at Stop WJ (BP1440 - Ellery Road, Last Stop on LOR: BP1440 - Ellery Road) and pick up in Harold Road, at Stop EH (BP1439 - Ellery Road, First Stop on LOR: BP1439 - Ellery Road).

From West Croydon Bus Station.

Buses proceed from Spa Hill via Beulah Hill and Upper Beulah Hill to stand, departing via Upper Beulah Hill, Church Road and Beulah Hill to Spa Hill. Set down in Spa Hill, at Stop EG (BP1428 - Beulah Hill, Last Stop on LOR: BP1428 - Beulah Hill) and pick up in Spa Hill, at Stop WF at Stop WF (BP1429 - Beulah Hill, First Stop on LOR: BP1429 - Beulah Hill).

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:	Upper Norwood.

CRYSTAL PALACE BUS STATION (from West Croydon Bus Station)

Private stand for 9 buses facing south in marked bays on east side of bus station on east side of Crystal Palace Parade opposite Farquhar Road.

Buses proceed from Westow Hill via Crystal Palace Parade and Crystal Palace Bus Station East Side to stand, departing via Crystal Palace Bus Station East Side and Crystal Palace Parade to Church Road. Set down in Westow Hill, at Stop K (1416 - Westow Hill, Last Stop on LOR: 1416 - Westow Hill) and pick up in Church Road, at Stop G (13222 - Westow Hill, First Stop on LOR: 13222 - Westow Hill).

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:	Crystal Palace.

FOUNTAIN DRIVE, WESTWOOD HILL (from West Croydon Bus Station)

Buses proceed from Fountain Drive via Westwood Hill (Circumnavigate Roundabout At Junction) departing to Fountain Drive. Set down in Fountain Drive, at Stop M (BP3875 - Fountain Drive, Last Stop on LOR: BP3875 - Fountain Drive) and pick up in Fountain Drive, at Stop E (BP3874 - Fountain Drive, First Stop on LOR: BP3874 - Fountain Drive).

AVAILABILITY: At any time.
OPERATING RESTRICTIONS: **Turning Point Only - Buses must not stand**
BLIND DISPLAY: Westwood Hill, Fountain Drive.

SYDENHAM (from West Croydon Bus Station)

Buses proceed from Westwood Hill via A212 departing to Westwood Hill. Set down in Westwood Hill, at stop D (BP672 - Sydenham Station #/ Westwood Hill, Last Stop on LOR: BP672 - Sydenham Station #/ Westwood Hill) and pick up in Westwood Hill, at stop C (R0083 - Sydenham Station # / Westwood Hill, First Stop on LOR: R0083 - Sydenham Station # / Westwood Hill).

AVAILABILITY: At any time.
OPERATING RESTRICTIONS: **Turning Point Only - Buses must not stand**
BLIND DISPLAY: Sydenham.

LOWER SYDENHAM, SAINSBURYS

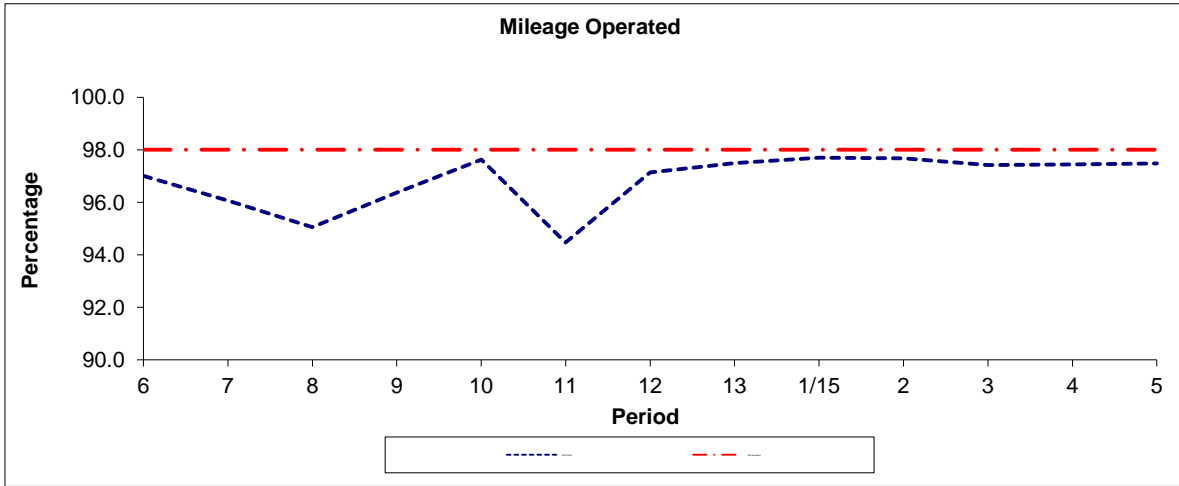
Private stand for 4 buses in lay-by on north side of turning circle at east end of Sainsburys Access Road on north side of superstore.

Buses proceed from Sainsburys Access Road via Turning Circle to stand, departing via Turning Circle to Sainsburys Access Road. Set down in Sainsburys Access Road, at Stop AP (BP1097 - Bell Green / Sainsbury's, Last Stop on LOR: BP1097 - Bell Green / Sainsbury's) and pick up in Sainsburys Access Road, at Stop LN (BP1100 - Bell Green / Sainsbury's, First Stop on LOR: BP1100 - Bell Green / Sainsbury's).

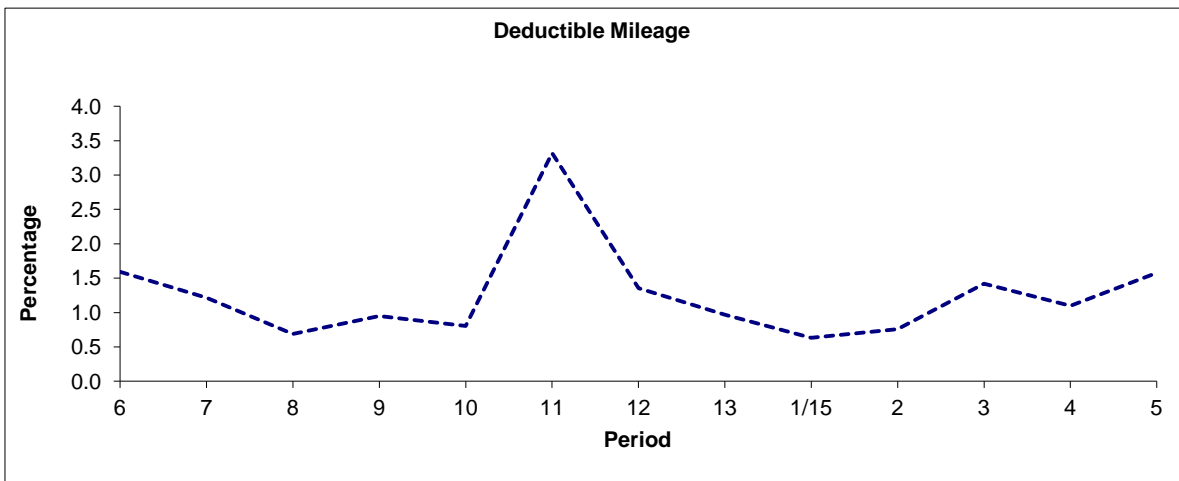
AVAILABILITY: At any time.
OPERATING RESTRICTIONS: No more than 2 buses on Route 450 should be scheduled to stand at any one time.
MEAL RELIEFS: No meal relief vehicles to stand at any time.
FERRY VEHICLES: No ferry vehicles to park on stand at any time.
BLIND DISPLAY: Lower Sydenham.

PART B - PERFORMANCE STATISTICS

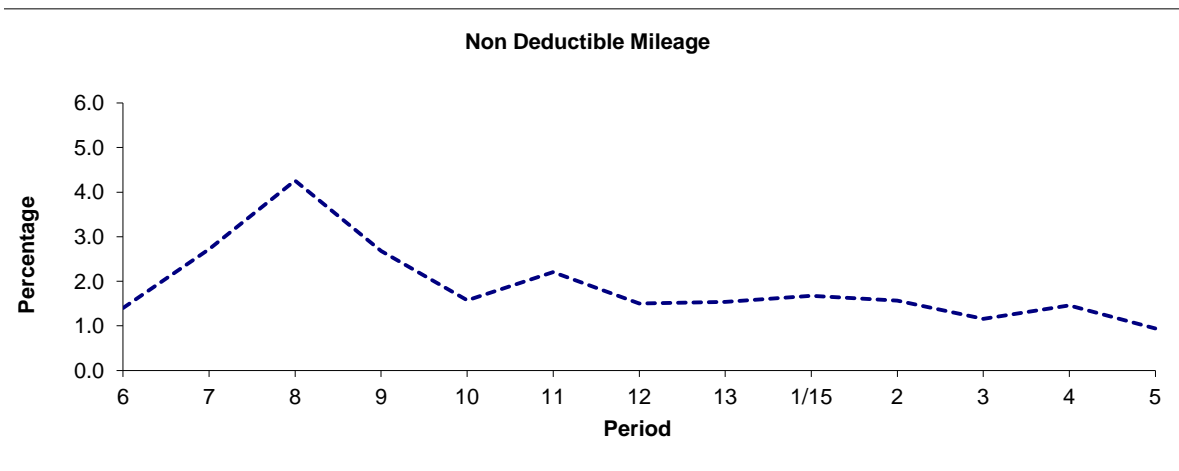
Route 450



Period	6	7	8	9	10	11	12	13	1/15	2	3	4	5
2014/2015	97.01	96.06	95.06	96.37	97.62	94.47	97.14	97.50	97.70	97.67	97.42	97.44	97.48
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	6	7	8	9	10	11	12	13	1/15	2	3	4	5
2014/2015	1.59	1.21	0.69	0.95	0.80	3.32	1.36	0.97	0.63	0.76	1.42	1.10	1.58

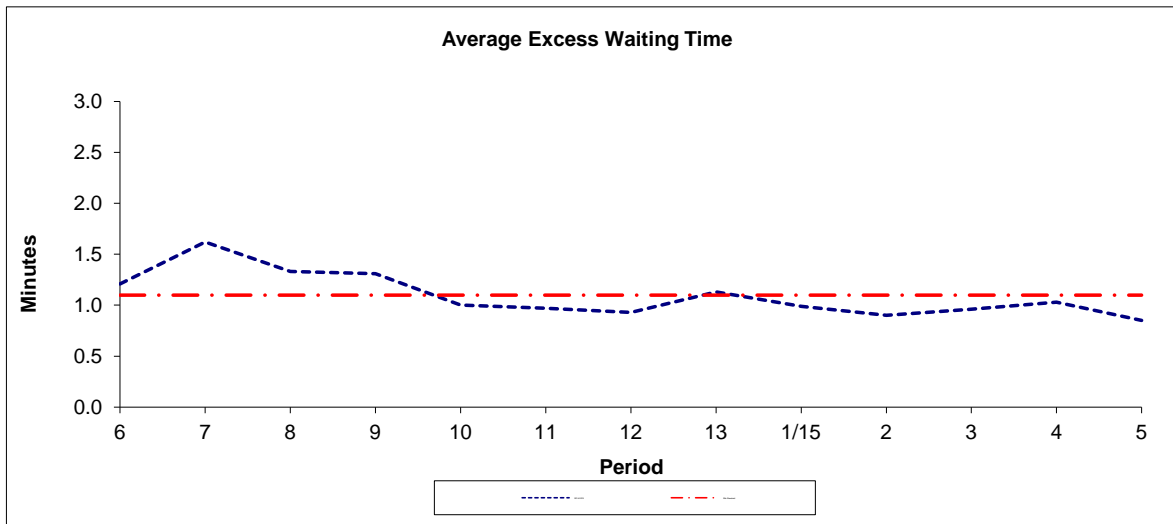


Period	6	7	8	9	10	11	12	13	1/15	2	3	4	5
2014/2015	1.40	2.72	4.26	2.68	1.58	2.21	1.50	1.53	1.67	1.57	1.16	1.46	0.94

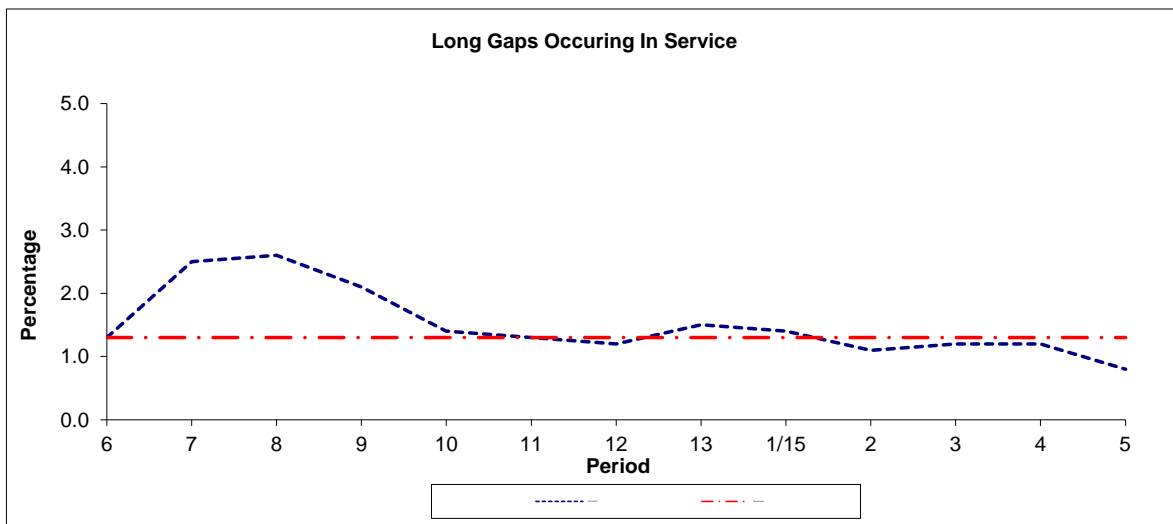
Note : Mileage is based on 4 weeks data
 Deductible Mileage was adversely affected by industrial action in periods 11 and 12 14/15.

PART B - PERFORMANCE STATISTICS

Route 450



Period	6	7	8	9	10	11	12	13	1/15	2	3	4	5
2014-2015	1.21	1.62	1.33	1.31	1.00	0.97	0.93	1.13	0.99	0.90	0.96	1.03	0.85
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	6	7	8	9	10	11	12	13	1/15	2	3	4	5
2014-2015	1.3	2.5	2.6	2.1	1.4	1.3	1.2	1.5	1.4	1.1	1.2	1.2	0.8
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 450 - FULL IBUS RESULTS BY TIME OF DAY
QUARTER 2 14/15 TO QUARTER 1 15/16 (21/06/14 - 26/0615)

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	14,741.	14,552.	98.7	9.14	0.45	9.58	64.3	31.9	3.3	0.6	1.0	56
07:00 - 10:00	55,938.	53,456.	95.6	5.37	0.98	6.35	81.3	17.3	1.3	0.1	1.1	58
10:00 - 13:00	50,408.	49,802.	98.8	5.89	0.69	6.58	78.0	20.9	1.0	0.1	0.5	64
13:00 - 16:00	52,741.	50,415.	95.6	5.67	0.99	6.66	77.6	20.6	1.6	0.2	1.1	64
16:00 - 19:00	58,399.	53,390.	91.4	5.02	2.16	7.18	73.5	21.9	3.7	0.8	4.5	92
19:00 - 22:00	38,141.	36,598.	96.0	7.50	1.34	8.84	60.7	31.1	6.4	1.8	2.2	113
22:00 - 24:00	17,499.	17,567.	100.4	9.83	0.72	10.54	50.8	41.4	6.7	1.0	0.2	75
All Locations Summary	287,867.	275,780.	95.8	5.98	1.23	7.21	74.0	22.7	2.8	0.5	1.9	113

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	2,619.	2,623.	100.2	10.00	0.31	10.31	57.3	37.9	4.5	0.3	1.3	44
07:00 - 10:00	8,814.	8,671.	98.4	7.15	0.51	7.66	70.9	27.5	1.6	0.1	0.1	44
10:00 - 13:00	10,528.	10,170.	96.6	6.08	0.95	7.03	74.4	23.4	1.9	0.3	0.9	54
13:00 - 16:00	10,640.	10,494.	98.6	6.02	1.00	7.01	75.1	22.8	1.9	0.2	0.9	46
16:00 - 19:00	10,247.	9,938.	97.0	6.14	0.93	7.07	73.2	24.8	1.9	0.1	0.6	45
19:00 - 22:00	6,837.	6,680.	97.7	8.95	1.00	9.95	52.8	37.6	7.5	2.0	0.7	63
22:00 - 24:00	3,669.	3,692.	100.6	9.93	0.85	10.77	50.2	40.5	8.1	1.2	0.1	93
All Locations Summary	53,354.	52,268.	98.0	6.83	0.89	7.72	69.7	26.9	2.9	0.5	0.7	93

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	1,540.	1,553.	100.8	14.71	0.12	14.84	61.1	17.0	19.1	2.9	5.7	62
07:00 - 10:00	5,857.	5,683.	97.0	11.96	0.56	12.52	45.0	39.4	13.3	2.3	0.1	80
10:00 - 13:00	7,143.	6,967.	97.5	9.87	0.60	10.47	49.6	41.7	7.4	1.3	0.3	59
13:00 - 16:00	6,777.	6,554.	96.7	9.89	1.01	10.90	49.1	40.0	8.7	2.2	0.5	69
16:00 - 19:00	6,867.	6,811.	99.2	9.95	0.70	10.65	49.5	41.5	7.7	1.4	0.3	64
19:00 - 22:00	6,825.	6,684.	97.9	9.94	0.79	10.73	49.2	41.5	7.7	1.6	0.3	84
22:00 - 24:00	4,101.	4,079.	99.5	9.96	0.54	10.50	50.1	43.0	5.6	1.3	0.3	62
All Locations Summary	39,110.	38,331.	98.0	10.18	0.74	10.91	49.2	40.5	8.5	1.7	0.4	84

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	18,900.	18,728.	99.1	9.47	0.42	9.89	63.3	31.5	4.5	0.7	1.4	62
07:00 - 10:00	70,609.	67,810.	96.0	5.85	0.92	6.77	78.6	19.2	1.9	0.2	1.0	80
10:00 - 13:00	68,079.	66,939.	98.3	6.39	0.72	7.12	74.0	23.8	1.9	0.3	0.5	64
13:00 - 16:00	70,158.	67,463.	96.2	6.19	0.99	7.18	74.1	23.1	2.5	0.4	1.0	69
16:00 - 19:00	75,513.	70,139.	92.9	5.62	1.88	7.50	71.2	24.1	3.9	0.8	3.7	92
19:00 - 22:00	51,803.	49,962.	96.4	7.97	1.23	9.20	58.4	33.2	6.7	1.8	1.8	113
22:00 - 24:00	25,269.	25,338.	100.3	9.86	0.71	10.57	50.6	41.5	6.8	1.1	0.2	93
All Locations Summary	380,331.	366,379.	96.3	6.49	1.14	7.63	71.0	25.0	3.3	0.6	1.6	113

Transport for London - QSI Points and Live Mileage List

v2.0 - Mileage directly imported from Caesar

TRANCHE 539

Route 450
 Service change 25472
 Date 1 October 2011

Reason for Issue **New Contract**

QSI Points are highlighted

OUT DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
WCROBS	R0854	West Croydon Bus Station		
	6564	Bedford Hall	290	0.18
	33973	Hogarth Crescent	325	0.20
	6914	Devonshire Road	412	0.26
	BP589	Windmill Road	305	0.19
	BP1444	Windmill Grove	214	0.13
THORQB	BP1446	Kimberley Road	447	0.28
	BP1726	Fairgreen Road	141	0.09
	BP1727	Bert Road	294	0.18
	BP1728	Torrige Road	285	0.18
	25736	Quadrant Road	265	0.16
	25737	Brook Road	257	0.16
THORSN	25739	Thornton Heath Station	195	0.12
	17684	Thornton Heath Clock Tower	118	0.07
	17685	Parchmore Methodist Church	322	0.20
	BP1433	Beulah Road	194	0.12
	BP1448	Beulah Family Church	338	0.21
	BP1449	Osborne Road / Northwood Road	184	0.11
	BP1450	Springfield Road	158	0.10
	BP1426	Howberry Road	246	0.15
SHDPRD	BP1427	Dale Park Road	193	0.12
	BP1428	Beulah Hill	307	0.19
	BP1439	Elery Road	129	0.08
	BP1438	Harold Road / Chevening Road	302	0.19
	BP1441	Rockmount Primary School	252	0.16
	BP1442	Chevening Road / Hermitage Road	271	0.17
	BP1435	Crystal Terrace	281	0.17
UPPNHC	13325	Hermitage Road	248	0.15
	13326	Rockmount Road	310	0.19
	1416	Westow Hill	564	0.35
CPALPD	BP2417	Crystal Palace Parade	336	0.21
	13378	Crystal Palace Parade / College Road	213	0.13
	2618	Dulwich Wood Park / College Road	604	0.38
	R0515	Dulwich Wood Park / Kingswood Drive	287	0.18
	BP4851	Bowen Drive	126	0.08
	BP3872	Kingswood Drive / College Road	301	0.19
FNTDWH	BP3875	Fountain Drive	573	0.36
	17835	Crystal Palace Park Road	220	0.14
	17833	Charleville Circus	379	0.24
	17830	Sydenham High School	417	0.26
	BP672	Sydenham Station / Westwood Hill	337	0.21
SYDMSN	1822	Newlands Park	388	0.24
	17400	Sydenham Rd / Mayow Rd	309	0.19
	17399	Highclere Street	424	0.26
	17396	Kirtley Road	329	0.20
	17394	Bell Green / Southend Lane	142	0.09
LSYDSY	BP1097	Bell Green / Sainsbury's	336	0.21

TOTAL ROUTE MILEAGE - OUT DIRECTION 13568 metres 8.43 miles

BACK DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
LSYDSY	BP1100	Bell Green / Sainsbury's		
	40008	Bell Green / Southend Lane	231	0.14
	17395	Southend Lane	178	0.11
	17398	Highclere Street	296	0.18
	19021	Knightham Park Road	313	0.19
	17401	Sydenham Rd / Mayow Rd	202	0.13
SYDMSN	1821	Newlands Park	280	0.17
	R0083	Sydenham Station / Westwood Hill	385	0.24
	17831	Sydenham High School	474	0.29
	17832	Charleville Circus	168	0.10
	17834	Crystal Palace Park Road	243	0.15
FNTDWH	BP3874	Fountain Drive	498	0.31
	BP3873	Kingswood Drive / College Road	524	0.33
	BP4842	Bowen Drive	341	0.21
	13377	Dulwich Wood Park / Kingswood Drive	150	0.09
	2619	Dulwich Wood Park / College Road	362	0.22
	13379	Crystal Palace Parade / College Road	457	0.28
CPALPD	BP2419	Crystal Palace Parade	318	0.20
	13222	Westow Hill	228	0.14
	BP3761	Westow Street	384	0.24
	1443	Gipsy Hill Police Station	319	0.20
	13190	Rockmount Road	344	0.21
UPPNHC	13189	Hermitage Road	237	0.15
	BP1443	Crystal Terrace	169	0.11
	BP1436	Chevening Road / Hermitage Road	305	0.19
	BP3919	Rockmount Primary School	278	0.17
	BP1437	Upper Norwood Recreation Ground	212	0.13
	BP1440	Elery Road	326	0.20
	BP1429	Beulah Hill	195	0.12
SHDPRD	BP1430	Dale Park Road	307	0.19
	BP1425	Howberry Road	207	0.13
	BP1431	Springfield Road	283	0.18
	BP1499	Osborne Gardens	181	0.11
	BP1432	Hogarth Crescent / Beulah Family Church	153	0.10
	BP1434	Beulah Road	292	0.18
	17686	Parchmore Methodist Church	333	0.21
	26861	Thornton Heath Clock Tower	211	0.13
THORSN	25740	Thornton Heath Station	200	0.12
	25738	Brook Road	227	0.14
	BP1729	Haslemere Road	366	0.23
	BP1730	Lakehall Road	218	0.14
	BP1731	Fairgreen Road	392	0.24
THORQB	BP1445	Queens Road Cemetery	410	0.25
	BP1447	Windmill Grove	253	0.16
	BP590	Windmill Road	263	0.16
	6544	Cromwell Road	383	0.24
	6543	Hogarth Crescent	224	0.14
	6542	Bedford Hall	343	0.21
WCROBS	R0853	West Croydon Bus Station	269	0.17

TOTAL ROUTE MILEAGE - BACK DIRECTION 13932 metres 8.66 miles