

7. Service Specification

Route: 229

Contract Reference: QC50602

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	229
Terminus Points	Thamesmead, Town Centre and Sidcup, Queen Mary's Hospital
Contract Basis	Incentivised
Commencement Date	23 rd January 2016
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 1.00 minutes
Extension Threshold	Average Excess Wait Time Threshold - 0.85 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 2nd March 2015

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. 229.

Tenderers should note that there are no changes proposed as part of this Service Specification for Route No. 229.

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.

Tenderers should note that if they are supplying an alternative price based on using existing vehicles, these must be refurbished in line with the revised specification dated 1st March 2014. This applies to all contracts awarded from Tranche 471 onwards.

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.**

Cash Free Boarding was extended throughout London from 6th July 2014. Submitted tender prices should fully reflect the cost saving accrued from this change. Tenderers should also indicate the approximate additional cost if cash fares were still to be accepted.

3) SCHEDULE REQUIREMENTS & PINCHPOINTS

3.1) MONDAY TO FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Thamesmead Town Centre to Sidcup, Queen Mary's Hospital		Sidcup, Queen Mary's Hospital to Thamesmead Town Centre	
First departure no later than 0510.		First departure no later than 0445.	
0505 - 0610	Every 15 minutes	0440 - 0615	Every 15 minutes
0611 - 0645	Every 12 minutes	0616 - 0650	Every 12 minutes
0646 - 1925	Every 10 minutes	0651 - 1850	Every 10 minutes
1926 - 0015	Every 15 minutes	1851 - 0025	Every 15 minutes
Last departure no earlier than 0010.		Last departure no earlier than 0020.	
Pinchpoints			
Bexley Library	0735 - 0905 1505 - 1635	10 minutes 10 minutes	Belvedere Station 0735 - 0905 1505 - 1635
			10 minutes 10 minutes

3.2) MONDAY TO FRIDAY SCHOOLDAYS SCHEDULE REQUIREMENTS

Erith, Bexley Road/Cross Street to Sidcup, Queen Mary's Hospital		Sidcup, Queen Mary's Hospital to Erith, Bexley Road/Cross Street	
0745	One journey	1535	One journey
0815	One journey		

Erith School to Thamesmead Town Centre	
1515	One journey

The journeys shown in Section 3.2 are specifically designed to meet the start and finish times of a number of schools in the Erith and Sidcup, Queen Mary's Hospital area.

3.3) SATURDAY AND GOOD FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Thamesmead Town Centre to Sidcup, Queen Mary's Hospital		Sidcup, Queen Mary's Hospital to Thamesmead Town Centre	
First departure no later than 0510.		First departure no later than 0445.	
0505 - 0710	Every 20 minutes	0440 - 0725	Every 20 minutes
0711 - 0755	Every 15 minutes	0726 - 0810	Every 15 minutes
0756 - 0855	Every 12 minutes	0811 - 0910	Every 12 minutes
0856 - 1825	Every 10 minutes	0911 - 1920	Every 10 minutes
1826 - 0015	Every 15 minutes	1921 - 0025	Every 15 minutes
Last departure no earlier than 0010.		Last departure no earlier than 0020.	
Pinchpoints			
Bexley Library	0840 - 0940 0941 - 1110	12 minutes 10 minutes	Belvedere Station 0850 - 0950 0951 - 1120
			12 minutes 10 minutes

3) SCHEDULE REQUIREMENTS & PINCHPOINTS - continued

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

Thamesmead Town Centre to Sidcup, Queen Mary's Hospital		Sidcup, Queen Mary's Hospital to Thamesmead Town Centre			
First departure no later than 0510.		First departure no later than 0445.			
0505 - 0810	Every 30 minutes	0440 - 0740	Every 30 minutes		
0811 - 0855	Every 20 minutes	0741 - 0920	Every 20 minutes		
0856 - 0015	Every 15 minutes	0921 - 0025	Every 15 minutes		
Last departure no earlier than 0010.		Last departure no earlier than 0020.			
Pinchpoints					
Bexley Library	1005 - 1135	15 minutes	Belvedere Station	1000 - 1130	15 minutes

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

4) OPERATIONAL CONSIDERATIONS

- 4.1) Route No. 229 should interwork with Route No. 177 between Thamesmead Town Centre and Harrow Manor Drive (at junction with Eynsham Drive), Abbey Wood on Monday to Saturdays daytimes and be best separated during all other periods.
- 4.2) Route No. 229 should be best separated from Route No. 469 between Harrow Manor Drive (at junction with Eynsham Drive), Abbey Wood and Erith High Street, Erith during all periods.
- 4.3) Route No. 229 can suffer from unpredictable traffic delays in the Bexley and Sidcup areas.
- 4.4) Crossrail will connect the City, Canary Wharf, the West End and Heathrow Airport to commuter areas east and west of the capital. Major construction of the railway began in 2010, with services expected to commence in 2018. The construction impacts of Crossrail could affect Route No. 229 and it is anticipated that some passenger demand for Route No. 229 may shift to this line when it opens. Route No. 229 will be reviewed closer to the opening date.

**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 229: Thamesmead, Town Centre - Sidcup, Queen Marys Hospital

Date of Structural Change: 23 January 2016.

Date of Service Change: 23 January 2016.

Reason for Issue: {To be specified}.

STREETS TRAVERSED

Towards Sidcup, Queen Marys Hospital: Thamesmere Drive, Thamesmere Drive Roundabout, Central Way, Greenhaven Drive Roundabout, Crossway, Summerton Way Roundabout, Crossway, Boiler House Roundabout, Carlyle Road, Harrow Manor Way, Knee Hill, Abbey Wood Road, Abbey Road, Gilbert Road, Picardy Street, Lower Road, West Street, Erith High Street, Bexley Road, Erith Road, Mayplace Road West, Arnsberg Way, Geddes Place, Market Place, Friswell Place, Arnsberg Way, Broadway, Gravel Hill, Bourne Road, Bexley High Street, Hurst Road, Station Road, Elm Road, Chislehurst Road, Frognal Avenue.

Towards Thamesmead, Town Centre: Frognal Avenue, Chislehurst Road, Elm Road, Station Road, Hurst Road, Bexley High Street, Bourne Road, Gravel Hill, Bexleyheath Broadway, Arnsberg Way, Geddes Place, Mayplace Road West, Erith Road, Bexley Road, Queens Road, James Watt Way, Erith High Street, Pier Road, Colebrook Street, Wharfside Close, Bexley Road, Walnut Tree Road, West Street, Lower Road, Picardy Street, Gilbert Road, Abbey Road, Abbey Wood Road, Knee Hill, Harrow Manor Way, Carlyle Road, Boiler House Roundabout, Crossway, Summerton Way Roundabout, Crossway, Greenhaven Drive Roundabout, Central Way, Thamesmere Drive Roundabout, Thamesmere Drive.

School Journey from Erith School:

On school days there is one journey from Erith School to operate from Avenue Road to Bexley 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.

THAMESMEAD TOWN CENTRE, THAMESMERE DRIVE

Public stand for 5 buses in lay-by on west side of Thamesmere Drive opposite Claude Ramsey Library. Overflow stand for 2 buses on south side of Thamesmere Drive turning circle.

Buses proceed from Thamesmere Drive direct to stand, departing via Thamesmere Drive and Turning Circle to Thamesmere Drive. Set down in Thamesmere Drive, at Stop C (37417 - Thamesmead Town Centre, Last Stop on LOR: 37417 - Thamesmead Town Centre) and pick up in Thamesmere Drive, at Stop A (BP1582 - Thamesmead Town Centre, First Stop on LOR: BP1582 - Thamesmead Town Centre).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	No more than 2 buses on Route 229 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:	Thamesmead.

ABBEY WOOD STATION (from SIDCUP, QUEEN MARYS HOSPITAL)

Buses proceed from Knee Hill departing to Knee Hill. Set down in Knee Hill, at Stop G (3963 - Abbey Wood Road, Last Stop on LOR: 3963 - Abbey Wood Road) and pick up in Knee Hill, at Stop E (26601 - Abbey Wood Road, First Stop on LOR: 26601 - Abbey Wood Road).

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

BELVEDERE STATION (from SIDCUP, QUEEN MARYS HOSPITAL)

Public stand for 2 buses in service road on north side of Picardy Street commencing level with lamp standard No. 6 and extending 22 metres west.

Buses proceed from Lower Road via Picardy Street and Service Road to stand, departing via Service Road, Station Road and Picardy Street to Lower Road. Set down in Lower Road, at stop H (6238 - Lower Road / Belvedere Station #, Last Stop on LOR: 6238 - Lower Road / Belvedere Station #) and pick up in Lower Road (23785 - , First Stop on LOR: 6315 - Lower Road / Belvedere 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:	Belvedere.

ERITH, BEXLEY ROAD

Private stand for up to 3 buses in lay-bay on south side of Bexley Road commencing level with steps to Shopping Centre and extending approximately 30 metres eastwards.

From Sidcup, Queen Marys Hospital.

Buses proceed from Bexley Road direct to stand, departing to Bexley Road. Set down in Bexley Road, at Alighting Point (BP2250 - Erith Town Centre / Riverside, Last Stop on LOR: BP4476 - Colebrook Street) and pick up in Bexley Road, at Stop G (BP2114 - Erith Town Centre / Cross Street, First Stop on LOR: BP2114 - Erith Town Centre / Cross Street).

From Thamesmead, Town Centre.

Buses proceed from Bexley Road direct to stand, departing via Bexley Road to Walnut Tree Road. Set down in Bexley Road, at Alighting Point (BP2250 - Erith Town Centre / Riverside, Last Stop on LOR: 6254 - Erith Station # / West Street) and pick up in Walnut Tree Road, at Stop E (6255 - Walnut Tree Road, First Stop on LOR: 6255 - Walnut Tree 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:	Erith.

BEXLEYHEATH BUS GARAGE

Private stand on forecourt of Go-Ahead's Bexleyheath Bus Garage on east side of Erith Road.

From Sidcup, Queen Marys Hospital.

Buses proceed from Erith Road via Bexleyheath Bus Garage Forecourt to stand, departing via Bexleyheath Bus Garage Forecourt to Erith Road. Set down in Erith Road, at stop NS (6277 - Bexleyheath Bus Garage, Last Stop on LOR: 6277 - Bexleyheath Bus Garage) and pick up in Erith Road, at stop NW (25605 - Bexleyheath Bus Garage, First Stop on LOR: 25605 - Bexleyheath Bus Garage).

From Thamesmead, Town Centre.

Buses proceed from Erith Road via Bexleyheath Bus Garage Forecourt to stand, departing via Bexleyheath Bus Garage Forecourt to Erith Road. Set down in Bexleyheath Bus Garage Forecourt, at Alighting Point (34461 - Bexleyheath Bus Garage, Last Stop on LOR: 6276 - Long Lane) and pick up in Erith Road, at stop NS (6277 - Bexleyheath Bus Garage, First Stop on LOR: 6277 - Bexleyheath Bus Garage).

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:	Bexleyheath, Bus Garage.

BEXLEYHEATH, SHOPPING CENTRE

From Sidcup, Queen Marys Hospital.

Buses proceed from Bexleyheath Broadway via Arnsberg Way and Mayplace Road West departing to Market Place. Set down in Bexleyheath Broadway, at Stop Y (6323 - Bexleyheath/highland Road, Last Stop on LOR: 6323 - Bexleyheath/highland Road) and pick up in Market Place, at Stop L (11121 - Market Place / Bexleyheath Clock Tower, First Stop on LOR: 11121 - Market Place / Bexleyheath Clock Tower).

From Thamesmead, Town Centre.

Buses proceed from Market Place via Friswell Place, Arnsberg Way and Geddes Place departing to Mayplace Road West. Set down in Market Place, at Stop L (11121 - Market Place / Bexleyheath Clock Tower, Last Stop on LOR: 11121 - Market Place / Bexleyheath Clock Tower) and pick up in Mayplace Road West, at Stop S (29461 - Mayplace Rd West / Bexleyheath Clock Twr, First Stop on LOR: 29461 - Mayplace Rd West / Bexleyheath Clock Twr).

AVAILABILITY: At any time.
OPERATING RESTRICTIONS: **Turning Point Only - Buses must not stand**
BLIND DISPLAY: Bexleyheath, Shopping Centre.

BEXLEY, LIBRARY (from Thamesmead, Town Centre)

Buses proceed from Gravel Hill via Bourne Road departing to Gravel Hill. Set down in Gravel Hill, at Stop E (34277 - Gravel Hill Close, Last Stop on LOR: 34277 - Gravel Hill Close) and pick up in Gravel Hill, at Stop F (34278 - Gravel Hill Close, First Stop on LOR: 34278 - Gravel Hill Close).

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

SIDCUP STATION, JUBILEE WAY (from Thamesmead, Town Centre)

Public stand for two buses on north side of Jubilee Way, commencing 24 metres east of the station car park entrance and extending 22 metres west.

Buses proceed from Station Road via Hatherley Crescent, Faraday Avenue, Jubilee Way, Bus Turning Circle and Jubilee Way to stand, departing via Jubilee Way, Faraday Avenue, Hatherley Crescent and Station Road to Hurst Road. Set down in Jubilee Way, on stand (36002 - Sidcup Station #, Last Stop on LOR: BP2158 - Sidcup Leisure Centre) and pick up in Hurst Road, at Stop B (BP2159 - Sidcup Leisure Centre, First Stop on LOR: BP2159 - Sidcup Leisure Centre).

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: Sidcup Station.

SIDCUP, QUEEN MARY'S HOSPITAL, REAR STAND

Public stand for one bus on route 229 in marked bay on east side of entrance road from Chislehurst Road into hospital grounds, prior to hospital entrance road, and extending 13.7 metres north.

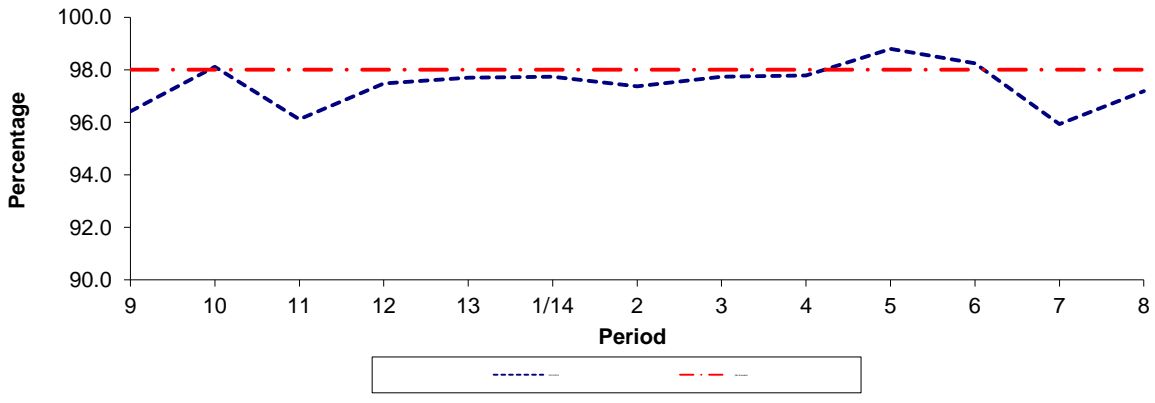
Buses proceed from Frognal Avenue direct to stand, departing to Frognal Avenue. Set down in Frognal Avenue (BP5396 - Queen Mary's Hospital / Chislehurst Road, Last Stop on LOR: BP5396 - Queen Mary's Hospital / Chislehurst Road) and pick up in Frognal Avenue, at Stop HE (35713 - Sidcup / Queen Mary's Hospital).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	No more than 1 bus on Route 229 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:	Queen Mary's Hospital.

PART B - PERFORMANCE STATISTICS

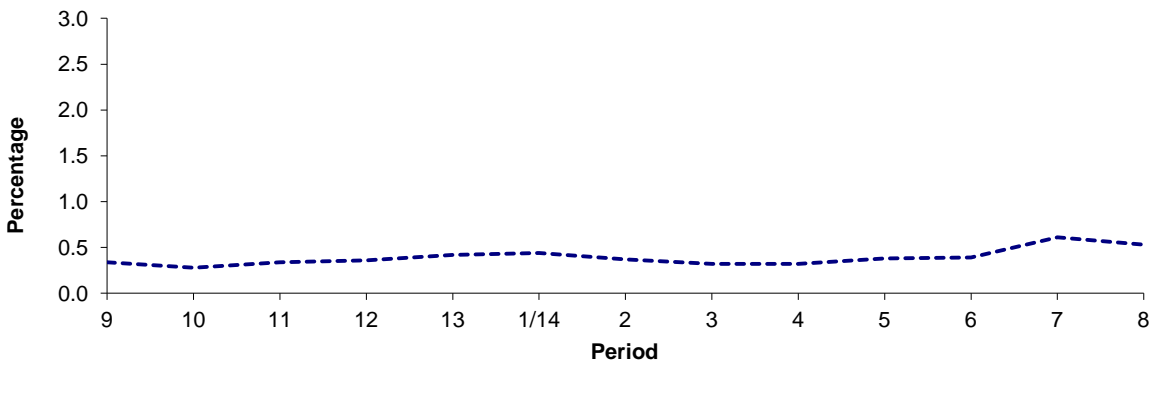
Route 229

Mileage Operated



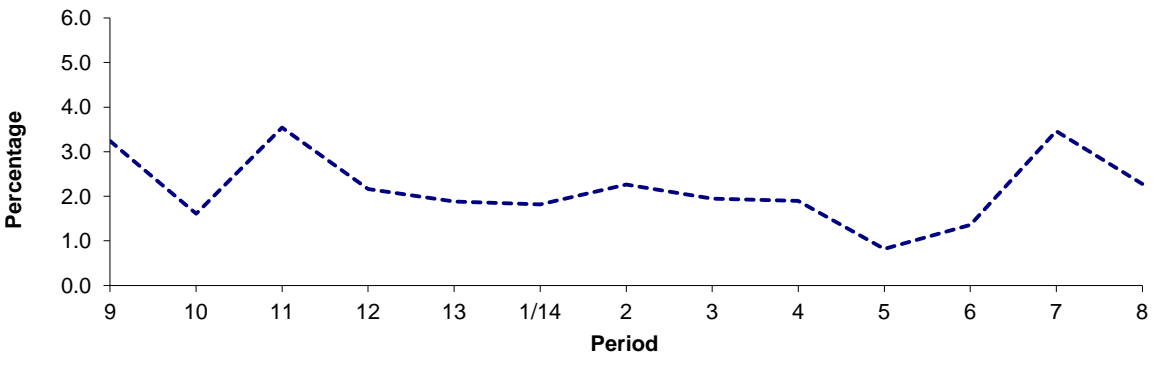
Period	9	10	11	12	13	1/14	2	3	4	5	6	7	8
2013/2014	96.42	98.11	96.12	97.48	97.70	97.74	97.37	97.73	97.78	98.80	98.25	95.93	97.19
Min Standard	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00

Deductible Mileage



Period	9	10	11	12	13	1/14	2	3	4	5	6	7	8
2013/2014	0.34	0.28	0.34	0.36	0.42	0.44	0.37	0.32	0.32	0.38	0.39	0.61	0.53

Non Deductible Mileage

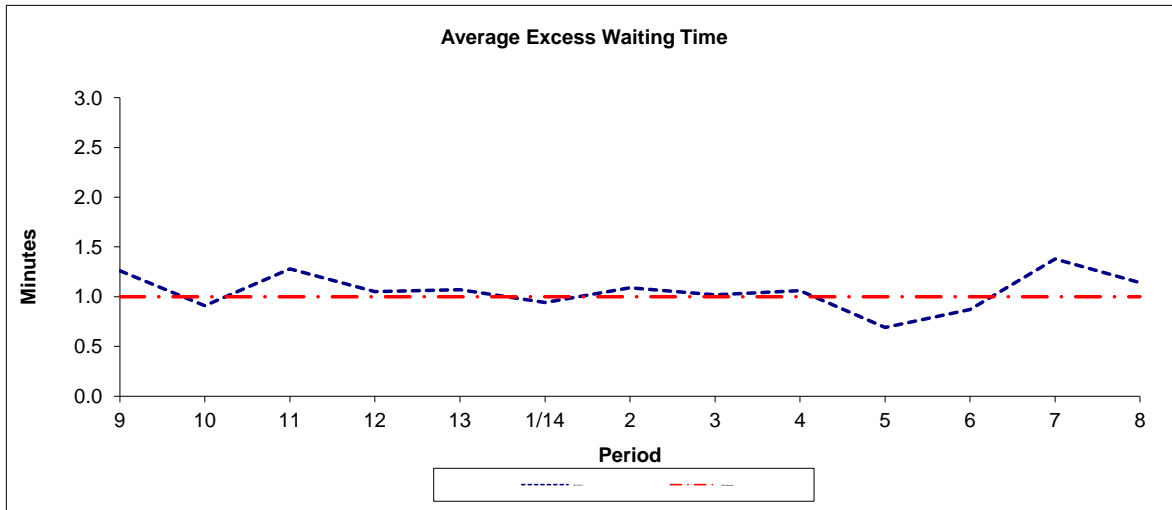


Period	9	10	11	12	13	1/14	2	3	4	5	6	7	8
2013/2014	3.24	1.61	3.54	2.16	1.88	1.82	2.26	1.95	1.90	0.82	1.36	3.46	2.28

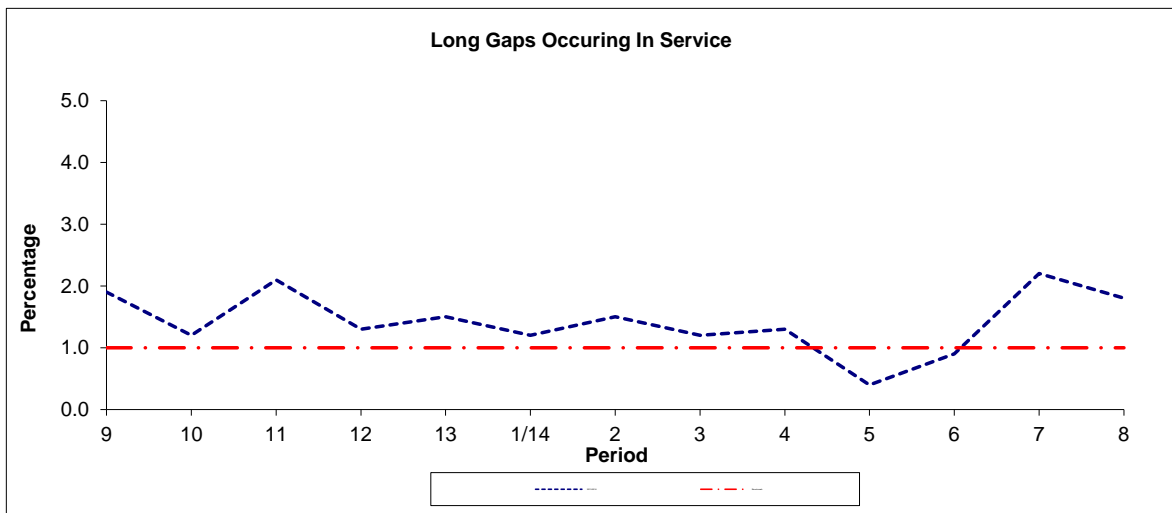
Note : Mileage is based on 4 weeks data

PART B - PERFORMANCE STATISTICS

Route 229



Period	9	10	11	12	13	1/14	2	3	4	5	6	7	8
2013-2014	1.26	0.91	1.28	1.05	1.07	0.94	1.09	1.02	1.06	0.69	0.87	1.38	1.14
Min Standard	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00



Period	9	10	11	12	13	1/14	2	3	4	5	6	7	8
2013-2014	1.9	1.2	2.1	1.3	1.5	1.2	1.5	1.2	1.3	0.4	0.9	2.2	1.8
Benchmark	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

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

**ROUTE 229 - FULL iBUS RESULTS BY TIME OF DAY
QUARTER 3 13/14 TO QUARTER 2 14/14 (14/09/13 - 12/09/14)**

MONDAY - FRIDAY

Time Period	Expected Buses	On AVL (%)	Scheduled Waiting Time (SWT) (mins)	Excess Waiting Time (EWT) (mins)	Actual Waiting Time (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)
0500 - 0700	32,745.	98.4	7.12	0.31	7.43	73.1	26.3	0.6	0.0	0.1	48
0700 - 1000	81,924.	97.7	5.03	0.84	5.87	84.5	14.5	0.9	0.1	1.0	53
1000 - 1300	81,458.	97.6	4.94	0.99	5.93	83.1	16.1	0.8	0.1	1.0	50
1300 - 1600	83,248.	93.6	4.96	1.48	6.44	78.1	19.3	2.3	0.3	2.6	55
1600 - 1900	82,556.	95.2	4.89	1.77	6.66	78.5	18.9	2.3	0.3	3.0	99
1900 - 2200	60,459.	98.5	6.56	0.94	7.50	68.7	28.8	2.2	0.2	0.8	56
2200 - 2400	36,372.	101.0	7.41	0.43	7.84	66.9	31.9	1.2	0.1	0.1	45
Summary	458,762.	96.9	5.31	1.20	6.51	78.6	19.5	1.7	0.2	1.7	99

SATURDAY

Time Period	Expected Buses	On AVL (%)	Scheduled Waiting Time (SWT) (mins)	Excess Waiting Time (EWT) (mins)	Actual Waiting Time (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)
0500 - 0700	4,484.	99.0	10.10	0.33	10.43	52.0	41.2	6.2	0.7	0.4	43
0700 - 1000	12,251.	98.7	6.98	0.52	7.50	73.2	25.3	1.5	0.1	0.1	43
1000 - 1300	17,150.	97.7	5.00	0.79	5.79	84.8	14.6	0.5	0.0	0.6	45
1300 - 1600	17,145.	98.4	4.97	0.86	5.82	84.8	14.5	0.7	0.0	0.8	39
1600 - 1900	16,888.	99.9	5.04	0.68	5.72	85.3	14.3	0.4	0.0	0.4	34
1900 - 2200	12,196.	99.3	6.84	0.57	7.41	69.2	29.6	1.2	0.0	0.2	34
2200 - 2400	7,627.	99.9	7.40	0.53	7.93	65.7	32.6	1.6	0.0	0.0	34
Summary	87,741.	98.9	5.70	0.70	6.40	79.9	19.1	0.9	0.1	0.5	45

SUNDAY AND BANK HOLIDAYS

Time Period	Expected Buses	On AVL (%)	Scheduled Waiting Time (SWT) (mins)	Excess Waiting Time (EWT) (mins)	Actual Waiting Time (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)
0500 - 0700	3,719.	99.6	14.81	0.14	14.95	38.6	30.0	27.9	3.4	1.3	61
0700 - 1000	8,327.	98.7	11.24	0.36	11.60	49.7	38.1	10.8	1.4	0.1	66
1000 - 1300	12,449.	98.1	7.45	0.70	8.15	65.0	32.4	2.3	0.3	0.3	50
1300 - 1600	12,199.	99.5	7.46	0.74	8.20	64.6	32.6	2.5	0.3	0.3	52
1600 - 1900	12,488.	99.5	7.35	0.53	7.88	66.4	32.2	1.4	0.1	0.1	53
1900 - 2200	12,352.	99.6	7.45	0.40	7.85	66.0	32.9	1.0	0.1	0.1	36
2200 - 2400	8,366.	100.3	7.41	0.26	7.67	67.2	32.3	0.5	0.0	0.0	43
Summary	69,900.	99.3	7.91	0.56	8.47	63.6	32.9	3.1	0.3	0.2	66

ALL DAYS

Time Period	Expected Buses	On AVL (%)	Scheduled Waiting Time (SWT) (mins)	Excess Waiting Time (EWT) (mins)	Actual Waiting Time (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)
0500 - 0700	40,948.	98.6	7.87	0.30	8.17	68.9	28.1	2.7	0.3	0.2	61
0700 - 1000	102,502.	97.9	5.49	0.79	6.28	81.9	16.6	1.4	0.1	0.9	66
1000 - 1300	111,057.	97.7	5.23	0.92	6.16	81.4	17.6	0.9	0.1	0.8	50
1300 - 1600	112,592.	95.0	5.22	1.31	6.53	77.7	19.9	2.1	0.2	2.1	55
1600 - 1900	111,932.	96.4	5.14	1.53	6.67	78.1	19.6	2.0	0.3	2.5	99
1900 - 2200	85,007.	98.8	6.69	0.84	7.53	68.5	29.4	2.0	0.2	0.7	56
2200 - 2400	52,365.	100.8	7.41	0.42	7.83	66.8	32.0	1.1	0.0	0.1	45
Summary	616,403.	97.5	5.60	1.08	6.68	77.4	20.7	1.7	0.2	1.4	99

Transport for London - QSI Points and Live Mileage List

Route 229 Reason for
 Service change 35291 Re-issue
 Date 21 December 2013

QSI Points are highlighted

OUT DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
THMDTC S	THMDTC S	THAMESMEAD TOWN CENTRE, THAMESMERE DRIVE		
THMDTC	BP1582	Thamesmead Town Centre	0	0.00
	36669	Linton Mead Primary School	310	0.19
	36673	Hoveton Road	373	0.23
	36674	Nickelby Close	227	0.14
	36675	Eastgate Close	539	0.33
	36677	Lister Walk	343	0.21
	36678	Poplar Place	351	0.22
THMDCW	35406	Carlyle Road / Crossway	378	0.23
	34812	Newacres Library	782	0.49
	33040	Harrow Manorway / Yarnton Way	267	0.17
	33041	Overton Road	201	0.12
ABWDSN	35309	Harrow Manorway / Abbey Wood Station	292	0.18
	26601	Abbey Wood Road	406	0.25
	3964	Lesnes Abbey	531	0.33
	6600	Elstree Gardens	321	0.20
	6229	Tunstock Way	353	0.22
	6231	Kingswood Avenue	215	0.13
	6233	St Augustine's Road	257	0.16
	6236	Gilbert Road	224	0.14
BELVSN	6315	Lower Road / Belvedere Station	422	0.26
	6239	Halt Robin Lane	247	0.15
	6242	Poplar Mount	229	0.14
	6243	Mayfield Road	197	0.12
	6247	Lower Road / Church Manorway	565	0.35
	6249	St Francis Road	280	0.17
	6251	Winifred Road / The Ship	302	0.19
	6254	Erith Station / West Street	356	0.22
ERITBR	BP2114	Erith Town Centre / Cross Street	445	0.28
	33974	Fraser Road	297	0.18
	6260	Lesney Park	570	0.35
	6265	Carlton Road	361	0.22
BXRDNP	6266	Northumberland Park	352	0.22
	6268	Brook Street	433	0.27
	5176	Rydal Drive	382	0.24
	6272	Barnehurst Station	246	0.15
	6274	Lyndhurst Road	314	0.20
	6276	Long Lane	207	0.13
BX GR	25605	Bexleyheath Bus Garage	230	0.14
	29545	Tower Road	282	0.18
BEXHSC	11121	Market Place / Bexleyheath Clock Tower	457	0.28
	6324	Bexleyheath / Civic Centre	578	0.36
	16697	Halcot Avenue	393	0.24
	14381	Broomfield Road	176	0.11
	34277	Gravel Hill Close	426	0.26
	14379	Hartford Road	604	0.38
BXLYLB	16696	Bexley Library	298	0.19
	16694	Bexley Station	284	0.18
	35387	Bexley War Memorial	137	0.09
	35389	Woodstock Close	417	0.26
	35391	Valentine Avenue	609	0.38
	35395	Carisbrooke Avenue	294	0.18
	35393	Crofton Avenue	414	0.26
	BP3300	Penhill Road	385	0.24
	28018	Hurstmere School	468	0.29
	BP2158	Sidcup Leisure Centre	689	0.43
SIDCSN	25998	Sidcup Station	442	0.27
	15183	Station Road / Crescent Road	238	0.15
SIDCPS	20437	Elm Road / Sidcup Police Station	580	0.36
	16651	The Green	138	0.09
SIDCHN	BP5396	Queen Mary's Hospital / Chislehurst Road	474	0.29
SIDCHN S	SIDCHN S	Sidcup, Queen Mary's Hospital, North Stand	0	0.00
TOTAL ROUTE MILEAGE - OUT DIRECTION			21588	13.41
			metres	miles

TRANCHE 506

End of westbound diversion of Bexley Road

BACK DIRECTION					
Timing Point Code	Stop Number	Stop Name	Metres	Miles	
SIDCHN S	SIDCHN S	Sidcup, Queen Mary's Hospital, North Stand			
SIDCHP	35713	Sidcup / Queen Mary's Hospital	0	0.00	
	16648	Queen Mary's Hospital	71	0.04	
	16650	The Green	364	0.23	
SIDCPS	16652	Elm Road / Sidcup Police Station	313	0.19	
	15182	Crescent Road	571	0.35	
SIDCSN	25848	Sidcup Station / Station Road	160	0.10	
	BP2159	Sidcup Leisure Centre	409	0.25	
	28017	Hurstmere School	1010	0.63	
	26567	Eynsford Crescent	482	0.30	
	35392	Crofton Avenue	246	0.15	
	35396	Carisbrooke Avenue	327	0.20	
	28177	Hurst Springs	285	0.18	
	35390	Grange Wood	401	0.25	
	35388	Parkwood Road	333	0.21	
	16693	Bexley Station	355	0.22	
BXLYLB	16695	Bexley Library	330	0.21	
	14378	Hartford Road	289	0.18	
	34278	Gravel Hill Close	672	0.42	
	14380	Broomfield Road	376	0.23	
	13510	Halcot Avenue	179	0.11	
	6323	Bexleyheath / Civic Centre	446	0.28	
BEXHSC	29461	Mayplace Rd West / Bexleyheath Clock Twr	381	0.24	
	6279	Forresters Crescent	334	0.21	
BX GR	6277	Bexleyheath Bus Garage	225	0.14	
	6275	Lyndhurst Road	404	0.25	
	6273	Barnehurst Station	302	0.19	
	6271	Rydal Drive	303	0.19	
	BP4992	Brook Street	246	0.15	
	27308	Mill Road	311	0.19	
BXRDNP	2867	Northumberland Park	215	0.13	
	6264	Carlton Road	473	0.29	
	6261	Lesney Park	301	0.19	
	6257	Fraser Road	483	0.30	
	BP2115	Erith Health Centre	701	0.44	
	BP4476	Colebrook Street	169	0.11	
ERITBR	34926	Erith Town Centre / Riverside	175	0.11	
	6255	Walnut Tree Road	223	0.14	
	35424	Erith High Street	230	0.14	
	6252	Maxim Road / The Ship	392	0.24	
	6248	St Francis Road	230	0.14	
	R0468	Lower Road / Church Manorway	225	0.14	
	6244	Mayfield Road	590	0.37	
	6241	Poplar Mount	219	0.14	
	6240	Halt Robin Lane	150	0.09	
BELVSN	6238	Lower Road / Belvedere Station	303	0.19	
	6235	Gilbert Road	311	0.19	
	6234	St Augustine's Road	280	0.17	
	6232	Kingswood Avenue	342	0.21	
	6230	Tunstock Way	210	0.13	
	3965	Lesnes Abbey	358	0.22	
	6603	Fossington Road	326	0.20	
	34318	Florence Road	273	0.17	
	3963	Abbey Wood Road	163	0.10	
ABWDSN	35308	Harrow Manorway / Abbey Wood Station	308	0.19	
	33045	Harrow Manorway / Lensbury Way	374	0.23	
	34813	Newacres Library	399	0.25	
THMDCW	34918	Carlyle Road / Bentham Road	718	0.45	
	36531	Poplar Place	332	0.21	
	36530	Curlew Close	301	0.19	
	37181	Lister Walk	133	0.08	
	36676	Manordene Road	439	0.27	
	36522	Nickelby Close	416	0.26	
	36529	Hoveton Road	285	0.18	
	36670	Linton Mead Primary School	353	0.22	
THMDTC	37417	Thamesmead Town Centre	386	0.24	
THMDTC S	THMDTC S	THAMESMEAD TOWN CENTRE, THAMESMERE DRIVE	0	0.00	
TOTAL ROUTE MILEAGE - BACK DIRECTION			21911	13.61	
			metres	miles	

