

7. Service Specification

Route: 180

Contract Reference: QC74803

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	Erith, Fraser Road and North Greenwich Station
Contract Basis	Incentivised
Commencement Date	2 nd October 2021
Vehicle Type	87 capacity, dual door, double deck
Current Maximum Approved Dimensions	10.4 metres long and 2.55 metres wide
New Vehicles Mandatory	Yes
Hybrid Price Required	Yes
Electric Price Required (for double deck vehicles)	Yes - Please note
Sponsored Route	No
Advertising Rights	Operator
Minimum Performance Standard	Average Excess Wait Time - No more than 1.20 minutes
Extension Threshold	Average Excess Wait Time Threshold - 1.10 minutes
Minimum Operated Mileage Standard	No less than 98.00%

The Date of Tender for this ITT is:

No later than 12 Noon on Tuesday 8th September 2020

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. 180.

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:

- Route No. 180 is restructured to operate between Erith, Fraser Road and North Greenwich Station.
- **Please see Section 5 for a full list of streets traversed and standing arrangements.**

Operators should provide the following prices:

1. Annual diesel-electric hybrid price - based on minimum 5 year contract.
2. Annual electric price - based on a minimum 5 year contract. Tenderers should outline the strategy they would adopt for recharging these vehicles, together with any other operational and infrastructure assumptions, within the tender submission.

Tenderers are encouraged to offer alternative vehicle options in accordance with Part 9 of their tender, including but not limited to:

1. Alternative Zero Emission vehicles (e.g. hydrogen).
2. Vehicles that offer genuine increased capacity and are certified as such.
3. Existing vehicles. Costs must include upgrading to EURO VI Emissions Standards where required. Please note that existing diesel vehicles will **NOT** be considered for routes which are already operated by hybrids. For routes already operated by Zero Emission vehicles, no other type will be considered.

If submitting bids based on electric vehicles, Tenderers are reminded of the revised charging equipment specification requirements applicable from Tranche 726.

The welfare of bus drivers during their working day is essential, and appropriate locations for sign-on and sign-off as well as meal reliefs should be identified within the bid. These locations should have appropriate facilities available for drivers at the beginning and end of shifts to carry out their duties (including fitness for duty). For breaks and periods of rest between work there should be appropriate toilet provision (including the availability, condition and cleanliness of the facilities) and suitable locations to take a break. Whilst the obligation to provide suitable facilities remains with the bus operator, if there are any risks in not being able to supply these, the bus operator must make TfL aware in their tender or at any later stage when this becomes apparent.

3) SCHEDULE REQUIREMENTS & PINCHPOINTS

3.1) MONDAY TO FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Erith, Fraser Road to North Greenwich Station		North Greenwich Station to Erith, Fraser Road			
First departure no later than 0430.		First departure no later than 0510.			
0425 - 0530	Every 20 minutes	0505 - 0650	Every 20 minutes		
0531 - 0555	Every 12 minutes	0651 - 0715	Every 12 minutes		
0556 - 1815	Every 10 minutes	0716 - 1915	Every 10 minutes		
1816 - 1915	Every 12 minutes	1916 - 2015	Every 12 minutes		
1916 - 2350	Every 15 minutes	2016 - 0105	Every 15 minutes		
Last departure no earlier than 2345.		Last departure no earlier than 0100.			
Pinchpoints					
Charlton, Anchor & Hope Lane	0700 - 0900	10 minutes	Abbey Wood Station	0730 - 0755	12 minutes
	1500 - 1630	10 minutes		0756 - 0905	10 minutes
				1500 - 1640	10 minutes

3.2) SATURDAY AND GOOD FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Erith, Fraser Road to North Greenwich Station		North Greenwich Station to Erith, Fraser Road			
First departure no later than 0430.		First departure no later than 0510.			
0425 - 0530	Every 30 minutes	0505 - 0640	Every 30 minutes		
0531 - 0710	Every 20 minutes	0641 - 0800	Every 20 minutes		
0711 - 0735	Every 12 minutes	0801 - 0835	Every 12 minutes		
0736 - 1835	Every 10 minutes	0836 - 1855	Every 10 minutes		
1836 - 1945	Every 12 minutes	1856 - 1920	Every 12 minutes		
1946 - 2350	Every 15 minutes	1921 - 0105	Every 15 minutes		
Last departure no earlier than 2345.		Last departure no earlier than 0100.			
Pinchpoints					
Charlton, Anchor & Hope Lane	0905 - 1105	10 minutes	Abbey Wood Station	0905 - 1105	10 minutes

3) SCHEDULE REQUIREMENTS & PINCHPOINTS - Continued

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

Erith, Fraser Road to North Greenwich Station		North Greenwich Station to Erith, Fraser Road			
First departure no later than 0615.		First departure no later than 0725.			
0610 - 0745	Every 30 minutes	0720 - 0855	Every 30 minutes		
0746 - 0845	Every 20 minutes	0856 - 1000	Every 20 minutes		
0846 - 2350	Every 15 minutes	1001 - 0105	Every 15 minutes		
Last departure no earlier than 2345.		Last departure no earlier than 0100.			
Pinchpoints					
Charlton, Anchor & Hope Lane	1005 - 1135	15 minutes	Abbey Wood Station	1030 - 1200	15 minutes

Please identify the cost of the Boxing Day element of this service separately.

4) OPERATIONAL CONSIDERATIONS

- 4.1) Route No. 180 should interwork with Route No. 177 between Basildon Road (at junction with Mcleod Road) and Greenwich, Nelson Road during Mondays to Saturday daytimes and be best separated during all other periods.
- 4.2) The central section of the Elizabeth line between Paddington and Abbey Wood is expected to open in summer 2021 and the railway will operate as follows:

Paddington (Elizabeth line station) to Abbey Wood via central London
 Liverpool Street (main line station) to Shenfield
 Paddington (main line station) to Heathrow and Reading

Following the opening of the central section, full services across the Elizabeth line from Reading and Heathrow in the west to Abbey Wood and Shenfield in the east will commence by mid 2022. This will connect the eastern and western sections straight through central London. There is potential for a change in passenger demand on Route No. 180 once the Elizabeth line becomes fully operational. A review, post opening of the Elizabeth line, will be undertaken if required.

**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 180: Erith Quarry - North Greenwich

Date of Structural Change: 2 October 2021.

Date of Service Change: 2 October 2021.

Reason for Issue: New Tender.

STREETS TRAVERSED

Towards North Greenwich: Fraser 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, Church Manorway, Mulberry Way, Crabtree Manorway Roundabout, Anderson Way, Picardy Manorway Roundabout, Eastern Way, Yarnton Way, Harrow Manor Way, Lensbury Way Roundabout, Harrow Manor Way, Knee Hill, Mcleod Road, Basildon Road, Bostall Hill, Plumstead High Street, Plumstead Road, Beresford Street, Woolwich High Street, Woolwich Church Street, Woolwich Road, Anchor And Hope Lane, Bugsby's Way, Peartree Way, Commercial Way, Southern Way, Pilot Busway, Edmund Halley Way, North Greenwich Bus Station.

Special Journey towards North Greenwich between Plumstead Road and Woolwich Road: Diversion routing implemented under NMCC instruction when Woolwich Ferry Roundabout is blocked. operate from Plumstead Road, then via Woolwich New Road, Ha Ha Road, Repository Road, Hillreach, Little Heath, Charlton Park Road, The Village, Charlton Church Lane, Anchor And Hope Lane rejoining line of route at Woolwich Road.

Towards Erith Quarry: North Greenwich Bus Station, Edmund Halley Way, Pilot Busway, Southern Way, Commercial Way, Peartree Way, Bugsby's Way, Anchor And Hope Lane, Woolwich Road, Woolwich Church Street, Woolwich High Street, John Wilson Street, Castile Road, Monk Street, Calderwood Street, Thomas Street, Woolwich New Road, Plumstead Road, Plumstead High Street, Bostall Hill, Basildon Road, Mcleod Road, Knee Hill, Harrow Manor Way, Harrow Manor Way Roundabout, Harrow Manor Way, Yarnton Way, Eastern Way, Picardy Manorway Roundabout, Anderson Way, Crabtree Manorway Roundabout, Mulberry Way, Church Manorway, Lower Road, West Street, Erith High Street, Bexley Road, Fraser Road.

Special Journey towards Erith Quarry between Woolwich Road and Castile Road: Diversion routing implemented under NMCC instruction when Woolwich Ferry Roundabout is blocked. operate from Woolwich Road, then via Anchor And Hope Lane, Charlton Church Lane, The Village, Charlton Park Road, Little Heath, Hillreach, Artillery Place, John Wilson Street rejoining line of route at Castile 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.

ERITH QUARRY, FRASER ROAD

Proposed stand located on eastern carriageway of Fraser Road just past junction with Hawthorn Place.

Buses proceed from Fraser Road direct to stand, departing to Fraser Road. Set down on stand, Last Stop on LOR: BP3600 - Crabtree Manorway North) and pick up on stand, First Stop on LOR: BP3604 - Crabtree Manorway North).

AVAILABILITY: At any time.
OPERATING RESTRICTIONS: No more than 2 buses on Route 180 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: Erith Quarry.

ABBEY WOOD STATION (from NORTH GREENWICH)

Buses proceed from Harrow Manor Way via Harrow Manor Way Roundabout and Lensbury Way Roundabout departing to Harrow Manor Way. Set down in Harrow Manor Way, at Stop C (BP6416 - Abbey Wood Station #, Last Stop on LOR: TS0014 - Abbey Wood Station) and pick up in Harrow Manor Way, at Stop BA (33041 - Overton Road, First Stop on LOR: 33041 - Overton Road).

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

THAMESMEAD INDUSTRIAL ESTATE, YARNTON WAY (from NORTH GREENWICH)

Public stand for up to 2 buses on east side and at east end of Yarnton Way outside Nos. 136/138 Norman Road and north of slip road to Norman Road.

Buses proceed from Yarnton Way (West Side) via Circumnavigate roundabout at junction of Eastern Way and Yarnton Way to stand, departing to Yarnton Way. Set down in Yarnton Way (34819 - Yarnton Way / Norman Road, Last Stop on LOR: 34819 - Yarnton Way / Norman Road) and pick up in Yarnton Way (37123 - Yarnton Way / Norman Road, First Stop on LOR: 37123 - Yarnton Way / Norman 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: Thamesmead East.

PLUMSTEAD, PETTMAN CRESCENT

From Erith Quarry.

Buses proceed from Plumstead High Street via Plumstead Road and Pettman Crescent departing to Plumstead Road. Set down in Plumstead High Street, at stop WK (26621 - Lakedale Road, Last Stop on LOR: 26621 - Lakedale Road) and pick up in Plumstead Road, at Stop C (26625 - Plumstead Station #, First Stop on LOR: 26625 - Plumstead Station #).

From North Greenwich.

Buses proceed from Plumstead Road via Pettman Crescent departing to Plumstead Road. Set down in Plumstead Road, at Stop A (BP1283 - Plumstead Bus Garage, Last Stop on LOR: BP1283 - Plumstead Bus Garage) and pick up in Plumstead Road, at Stop WM (36510 - Plumstead Road / Plumstead Station #, First Stop on LOR: 36510 - Plumstead Road / Plumstead Station #).

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

WOOLWICH, BERESFORD STREET (from Erith Quarry)

Public stand for ten buses on south side of Beresford Street and Woolwich High Street in 3 parts:

1. For two buses commencing 25 metres south east of Macbean Street extending 31 metres south east.
2. For three buses as an overflow stand commencing 4 metres north west of lamp standard 06A0121 extending 36 metres south east.
3. For five buses as an overflow stand commencing 4 metres west of lamp standard 16AA1549 extending 61 metres east.

Buses proceed from Plumstead Road via Beresford Street to stand, departing via Beresford Street and Woolwich High Street to John Wilson Street. Set down in Plumstead Road, at Stop D (BP4397 - Plumstead Road / Woolwich Public Market, Last Stop on LOR: BP4397 - Plumstead Road / Woolwich Public Market) and pick up in John Wilson Street, at Stop Y (37259 - John Wilson Street / Powis Street, First Stop on LOR: 37259 - John Wilson Street / Powis 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: Woolwich.

WOOLWICH, MONK STREET (from NORTH GREENWICH)

Public stand for five buses in Monk Street in three parts:

1 - For two buses on the west side commencing 52 metres north of Castile Road and extending 25 metres south.

2 - For two buses on the west side commencing 42 metres north of Calderwood Street extending 25 metres south.

3 - For one bus on east side commencing 10 metres north of Calderwood Street extending 13.5 metres north.

Buses proceed from John Wilson Street via Castile Road and Monk Street to stand, departing via Monk Street, Bus Turning Circle, Monk Street, Calderwood Street, Thomas Street, Woolwich New Road, Vincent Road and Burrage Road to Plumstead Road. Set down in John Wilson Street, at stop Y (37259 - John Wilson Street / Powis Street, Last Stop on LOR: 37259 - John Wilson Street / Powis Street) and pick up in Plumstead Road, at Stop D (BP4397 - Plumstead Road / Woolwich Public Market, First Stop on LOR: BP4397 - Plumstead Road / Woolwich Public Market).

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:	Woolwich.

CHARLTON, ANCHOR & HOPE LANE (from Erith Quarry)

Public stand for two buses on east side of Anchor & Hope Lane, commencing 89 metres south of and opposite Bugsbys Way extending 20 metres north.

Buses proceed from Anchor And Hope Lane direct to stand, departing via Anchor And Hope Lane to Woolwich Road. Set down in Anchor And Hope Lane, at Stop G (35708 - Anchor And Hope Lane, Last Stop on LOR: 18828 - Charlton Station # / Woolwich Road) and pick up in Woolwich Road, at Stop E (26701 - Charlton Station / Woolwich Road, First Stop on LOR: 26701 - Charlton Station / Woolwich 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:	Charlton.

NORTH GREENWICH STATION

Private stand in three sections for 21 buses in Bus Parking Areas within North Greenwich Bus Station complex:

1 - offside facing south commencing 6.7 metres south of lamp standard No. NG18 and extending 51.8 metres north.

2 - facing north commencing 11.5 metres north of lamp standard No. NG07 and extending 95.8 metres south.

3 - offside facing north opposite Section 2 stand and extending 87.3 metres south.

Buses proceed from North Greenwich Bus Station direct to stand, departing to North Greenwich Bus Station. Set down in North Greenwich Bus Station, at Stop D (BP2276 - North Greenwich Station <>, Last Stop on LOR: 18828 - Charlton Station # / Woolwich Road) and pick up in North Greenwich Bus Station, at Stop D (BP2276 - North Greenwich Station <>, First Stop on LOR: 26701 - Charlton Station / Woolwich Road).

AVAILABILITY: At any time.

OPERATING RESTRICTIONS: No more than 1 bus on Route 180 should be scheduled to stand at any one time.

MEAL RELIEFS: No meal relief vehicles to stand at any time.

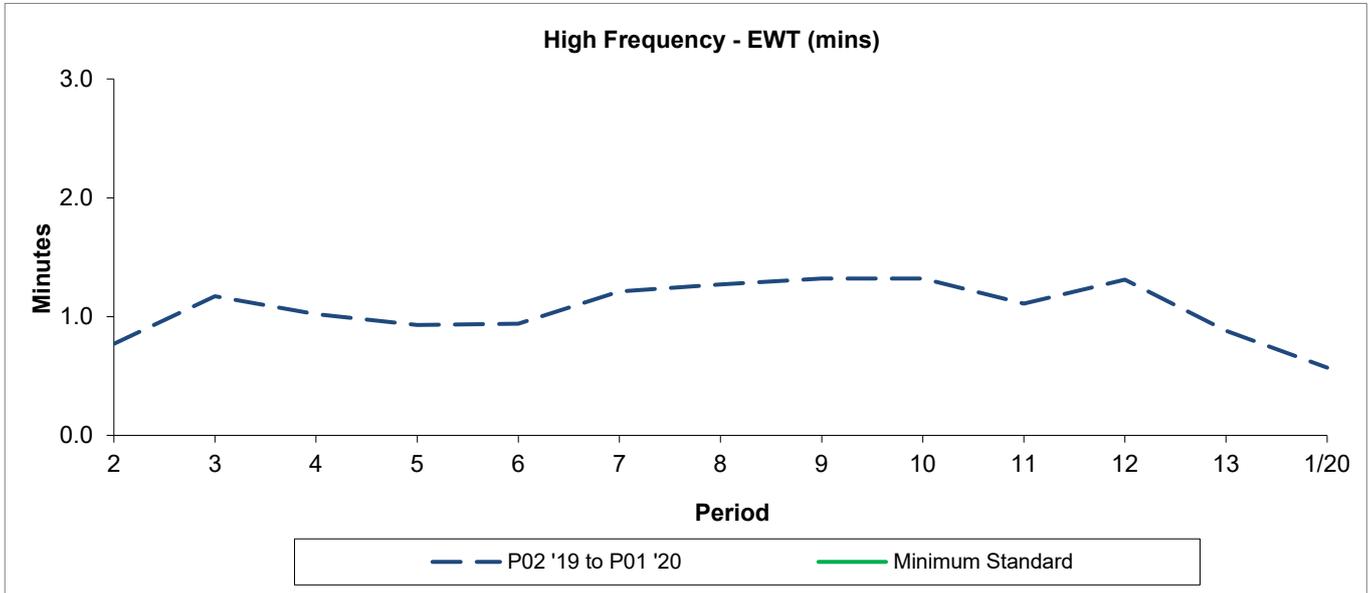
FERRY VEHICLES: No ferry vehicles to park on stand at any time.

BLIND DISPLAY: North Greenwich.

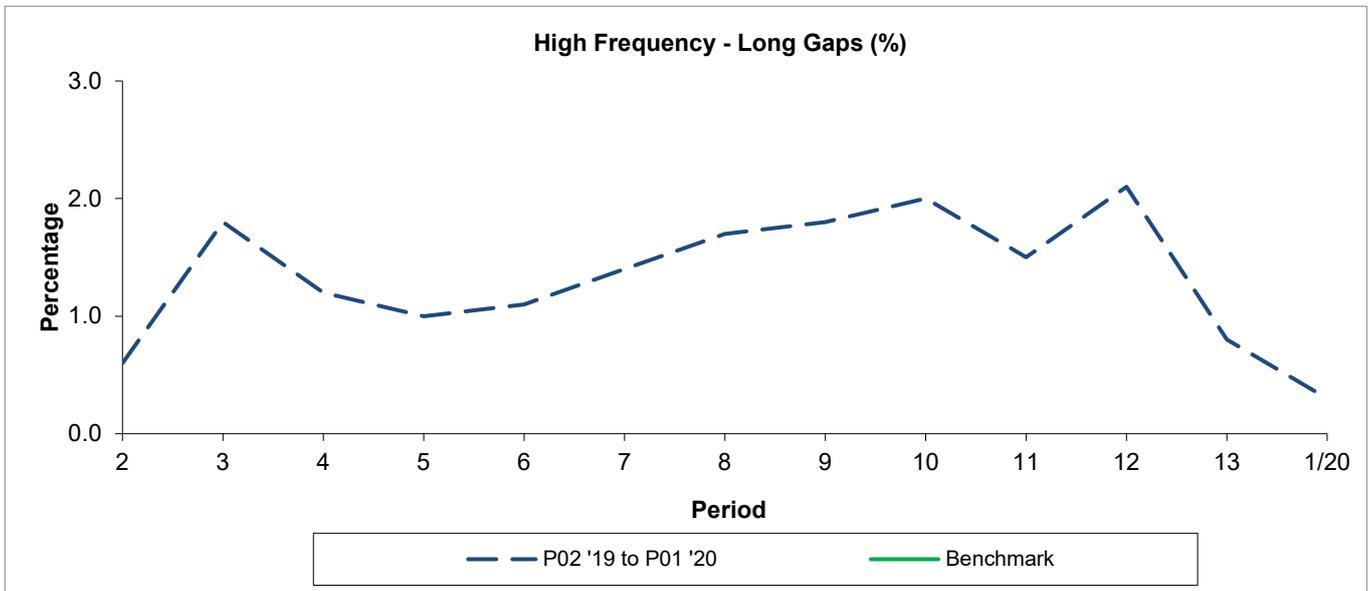
Period Trend Performance Graphs

Route 180

Reliability Performance



Period	2	3	4	5	6	7	8	9	10	11	12	13	1/20
P02 '19 to P01 '20	0.77	1.17	1.02	0.93	0.94	1.21	1.27	1.32	1.32	1.11	1.31	0.88	0.57
Minimum Standard													



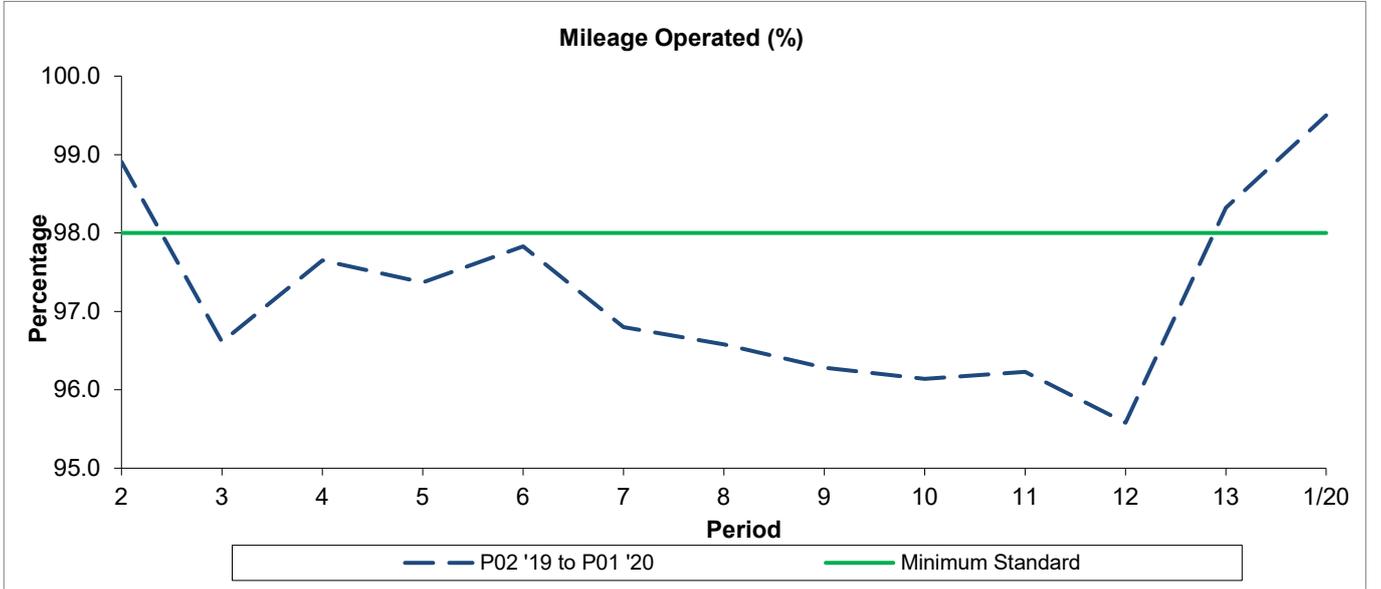
Period	2	3	4	5	6	7	8	9	10	11	12	13	1/20
P02 '19 to P01 '20	0.60	1.80	1.20	1.00	1.10	1.40	1.70	1.80	2.00	1.50	2.10	0.80	0.30
Benchmark													

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

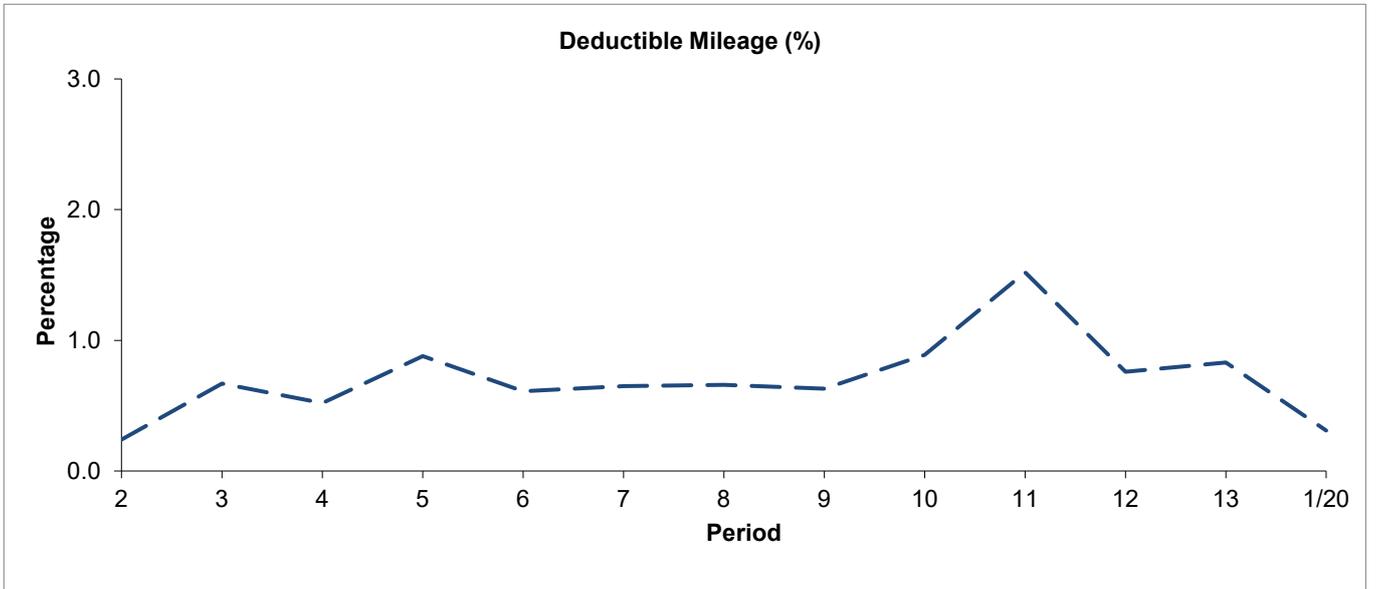
Period Trend Performance Graphs

Route 180

Mileage Performance



Period	2	3	4	5	6	7	8	9	10	11	12	13	1/20
P02 '19 to P01 '20	98.91	96.61	97.65	97.37	97.83	96.80	96.58	96.28	96.14	96.23	95.58	98.32	99.50
Minimum 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

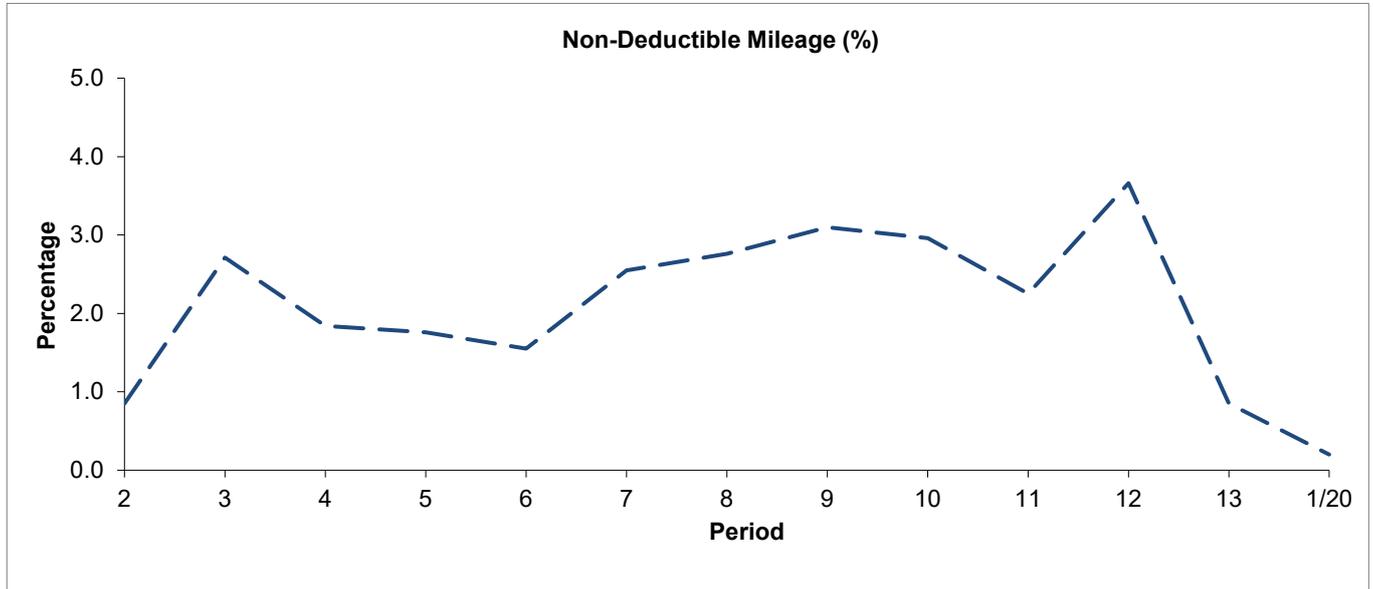


Period	2	3	4	5	6	7	8	9	10	11	12	13	1/20
P02 '19 to P01 '20	0.24	0.67	0.52	0.88	0.61	0.65	0.66	0.63	0.89	1.52	0.76	0.83	0.31

Period Trend Performance Graphs

Route 180

Mileage Performance



Period	2	3	4	5	6	7	8	9	10	11	12	13	1/20
P02 '19 to P01 '20	0.85	2.71	1.84	1.76	1.55	2.55	2.76	3.10	2.96	2.25	3.66	0.85	0.20

Mileage Performance figures are based on four weeks data

ROUTE 180 - FULL iBUS RESULTS BY TIME OF DAY
QUARTERS 01/19 to 04/19 (01/04/2019 to 31/03/2020)

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	26,793	25,771	96.2	8.44	0.50	8.94	67.4	27.1	5.1	0.4	0.2	61.6
07:00 - 10:00	66,423	64,018	96.4	5.18	1.19	6.37	80.7	17.3	1.7	0.3	1.8	55.0
10:00 - 13:00	67,620	66,116	97.8	4.97	1.03	6.00	83.0	15.8	1.0	0.1	1.2	60.4
13:00 - 16:00	68,538	66,244	96.7	4.91	1.25	6.17	80.7	17.5	1.5	0.3	1.9	56.4
16:00 - 19:00	66,718	64,331	96.4	5.05	1.40	6.45	79.2	18.7	1.8	0.4	2.0	94.8
19:00 - 22:00	52,009	51,748	99.5	6.22	0.94	7.16	72.0	25.6	2.0	0.3	1.1	83.7
22:00 - 24:00	30,811	30,495	99.0	7.29	0.54	7.83	67.0	31.4	1.4	0.2	0.2	50.6
All Locations Summary	378,912	368,723	97.3	5.39	1.14	6.54	78.7	19.3	1.7	0.3	1.6	94.8

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	3,613	3,503	97.0	13.04	0.30	13.34	44.2	37.5	16.2	2.1	0.3	62.1
07:00 - 10:00	11,675	11,585	99.2	6.40	0.63	7.02	78.7	19.3	1.9	0.1	0.2	55.8
10:00 - 13:00	14,223	14,002	98.4	4.95	0.79	5.75	84.4	15.1	0.4	0.0	0.5	35.6
13:00 - 16:00	13,842	13,552	97.9	5.03	1.22	6.25	80.5	17.8	1.4	0.3	1.6	46.4
16:00 - 19:00	14,259	13,795	96.7	4.94	1.11	6.06	82.3	16.4	1.2	0.1	1.3	50.9
19:00 - 22:00	10,570	10,487	99.2	6.46	0.91	7.37	69.9	27.5	2.2	0.4	0.9	55.1
22:00 - 24:00	6,332	6,243	98.6	7.40	0.68	8.08	65.7	32.3	1.8	0.2	0.2	60.0
All Locations Summary	74,514	73,167	98.2	5.70	0.94	6.64	78.3	19.8	1.7	0.2	0.9	62.1

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	502	493	98.2	14.92	-0.52	14.41	70.7	14.0	14.3	1.0	7.8	44.4
07:00 - 10:00	6,220	6,157	99.0	11.57	0.04	11.61	52.6	34.9	11.1	1.4	0.8	59.3
10:00 - 13:00	10,476	10,309	98.4	7.34	0.76	8.10	65.5	31.5	2.8	0.2	0.3	53.8
13:00 - 16:00	10,130	9,655	95.3	7.48	1.45	8.93	60.6	32.5	5.6	1.3	1.2	60.3
16:00 - 19:00	10,217	10,060	98.5	7.42	1.22	8.64	62.9	32.2	4.1	0.8	0.9	64.4
19:00 - 22:00	10,467	10,335	98.7	7.34	0.89	8.23	64.7	31.9	3.0	0.4	0.5	61.5
22:00 - 24:00	6,994	6,931	99.1	7.32	0.52	7.85	67.0	31.8	1.1	0.1	0.1	43.9
All Locations Summary	55,006	53,940	98.1	7.95	0.95	8.90	62.4	32.0	4.8	0.8	0.9	64.4

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	30,908	29,767	96.3	9.18	0.43	9.61	65.4	27.4	6.6	0.6	0.6	62.1
07:00 - 10:00	84,318	81,760	97.0	5.60	1.09	6.69	79.1	18.3	2.2	0.4	1.6	59.3
10:00 - 13:00	92,319	90,427	98.0	5.26	0.96	6.22	81.1	17.6	1.1	0.1	1.0	60.4
13:00 - 16:00	92,510	89,451	96.7	5.22	1.27	6.50	78.4	19.3	1.9	0.4	1.8	60.3
16:00 - 19:00	91,194	88,186	96.7	5.27	1.35	6.61	78.0	19.7	1.9	0.4	1.9	94.8
19:00 - 22:00	73,046	72,570	99.3	6.38	0.93	7.31	70.9	26.6	2.1	0.3	1.0	83.7
22:00 - 24:00	44,137	43,669	98.9	7.31	0.56	7.88	66.8	31.6	1.4	0.2	0.2	60.0
All Locations Summary	508,432	495,830	97.5	5.68	1.10	6.78	77.0	20.6	2.0	0.3	1.4	94.8

Transport for London - Live Mileage List

Route: 180

Service Change:
Date: 19/08/2017

Erith Quarry, Fr

Reason for Issue

QSI points are highlighted.

OUT DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
ERIQFR		Erith Quarry Fraser Road		
	18084	Birch Walk		
	17595	Europa Trading Estate	331	0.21
	17597	Fraser Road / Bexley Road	280	0.17
	BP2115	Erith Health Centre		
	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
ANCRTR	37076	Anderson Way		
	37379	Eastern Way / Norman Road	437	0.27
	37123	Yarnton Way / Norman Road	368	0.23
	34825	Hailey Road	226	0.14
	BP4058	Centurion Way	454	0.28
	35541	Thames Innovation Centre	158	0.10
	35928	Northwood Place	311	0.19
THMDAR	34818	The Business Academy	358	0.22
	34816	Limestone Walk	259	0.16
	34612	Hartslock Drive	123	0.08
	34613	Yarnton Way / Harrow Manorway	373	0.23
	33040	Harrow Manorway / Yarnton Way	195	0.12
	33041	Overton Road	200	0.12
ABWDSN	35309	Harrow Manorway / Abbey Wood Station	299	0.19
	35306	Conference Road	395	0.25
	26603	Greening Street	224	0.14
	26605	McLeod Road / Bostall Lane	295	0.18
	26607	Bostall Gardens	194	0.12
	26609	Cassilda Road	247	0.15
	9170	Basildon Road / Bostall Hill	186	0.12
	26615	Plumstead Corner / Rockmount Road	453	0.28
	26617	Plumstead High Street / Police Station	340	0.21
	26619	Bannockburn Road	220	0.14
	26621	Lakedale Road	204	0.13
PLUMSN	36510	Plumstead Road / Plumstead Station	554	0.34
	34579	Greenwich Community College	245	0.15
	8931	Maxey Road	229	0.14
WOOLPR	BP4397	Plumstead Road / Woolwich Public Market	404	0.25
	3681	Beresford Sq / Woolwich Arsenal Stn	171	0.11
	26687	Woolwich Ferry	551	0.34
	26693	Kingsman Street	507	0.32
	18834	Prospect Vale	302	0.19
	18832	Warspite Road	341	0.21
	29687	Cleveley Close	337	0.21
	14452	Greenwich Trust School	131	0.08
	34292	Woolwich Road / Charlton Lane	229	0.14
	BP2409	Stone Lake Retail Park	156	0.10
CHARAH	18828	Charlton Station / Woolwich Road	272	0.17
	35708	Anchor and Hope Lane		
	BP2267	Bugsbys Way / Gallions Road	353	0.22
	BP2171	Peninsular Park Road	383	0.24
GNCPY	BP2402	Millennium Leisure Park East	791	0.49
	BP2783	Millennium Leisure Park West	218	0.14
	BP2462	Millennium Village South	306	0.19
	BP2460	Millennium Village / Oval Square	304	0.19
NGNHSN	BP2277	North Greenwich Station	1305	0.81
Total Route Mileage - Out Direction			11.12	
			Metres	Miles

Mileages highlighted in Red are a planning estimate only

aser Road - North Greenwich	Tranche 748
New Contract	

BACK DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
NGNHSN	BP2275	North Greenwich Station		
	BP2463	Millennium Village / Oval Square	1036	0.64
	BP2461	Millennium Village South	301	0.19
	BP2782	Millennium Leisure Park West	297	0.18
GNCPSY	BP2401	Millennium Leisure Park East	221	0.14
	BP2172	Peninsular Park Road	609	0.38
	35706	Anchor and Hope Lane	486	0.30
CHARAH	26701	Charlton Station / Woolwich Road	432	0.27
	BP2408	Stone Lake Retail Park	330	0.21
	26699	Woolwich Road / Charlton Lane	159	0.10
	29851	Greenwich Trust School	226	0.14
	BP6177	Yateley Street	216	0.13
	37977	Warspite Road	285	0.18
	R0563	Frances Street	441	0.27
	26692	Kingsman Street	179	0.11
	35487	Woolwich Ferry	203	0.13
	37259	John Wilson Street / Powis Street	313	0.19
	37149	Thomas Street / Greens End	607	0.38
WOOLAS	BP5480	Woolwich Arsenal Station	214	0.13
	BP5540	Plumstead Road / Woolwich Public Market	330	0.21
	R0385	Maxey Road	420	0.26
	BP1283	Plumstead Bus Garage	272	0.17
PLUMSN	26625	Plumstead Station	374	0.23
	1817	Lakedale Road	413	0.26
	26618	Plumstead High Street / Police Station	311	0.19
	9167	Purrett Road	242	0.15
	26613	Plumstead Corner / Church Manorway	180	0.11
	26610	Basildon Road / Bostall Hill	455	0.28
	26608	Cassilda Road	190	0.12
	26606	Bostall Gardens	297	0.18
	26604	Mcleod Road / Bostall Lane	227	0.14
	26602	Greening Street	259	0.16
	35305	Conference Road	200	0.12
ABWDSN	BP6416	Abbey Wood Station	331	0.21
	33045	Harrow Manorway / Lensbury Way	380	0.24
	34611	Yarnton Way / Harrow Manorway	359	0.22
	34815	Limestone Walk	454	0.28
THMDAR	34817	The Business Academy	362	0.22
	35929	Northwood Place	391	0.24
	36642	Thames Innovation Centre	223	0.14
	36780	Hailey Road	577	0.36
	34819	Yarnton Way / Norman Road	269	0.17
	37078	Picardy Manorway / Eastern Way	492	0.31
ANCRTR	BP3603	Anderson Way	262	0.16
	6247	Lower Road / Church Manorway		
	6249	St Francis Road	280	0.17
	6251	Winifred Road / The Ship	302	0.19
	6254	Erith Station / West Street	356	0.22
ERITBR	34926	Erith Town Centre / Riverside		
	35742	Fraser Road / Bexley Road	383	0.24
	17596	Europa Trading Estate	326	0.20
	18085	Birch Walk	102	0.06
ERIQFR		Erith Quarry Fraser Road		
Total Route Mileage - Back Direction			11.53	
			Metres	Miles