



Highways Statement

Car Wash Site, Shaftsbury Avenue, South Shields NE34 9PH

20th May 2015

Waterman Infrastructure & Environment Limited

Regent House, Hubert Road, Brentwood, Essex CM14 4JE
www.watermangroup.com



Client Name: Burney (Midlands) Ltd
Document Reference: 1st Draft
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Quality Assurance – Approval Status

This document has been prepared and checked in accordance with Waterman Group's IMS (BS EN ISO 9001: 2009 and BS EN ISO 14001: 2004)

Issue	Date	Prepared by	Checked by	Approved by
1st Draft	20/05/2015	Andrew Trowbridge	Gill Blaney	Andrew McDonald

Comments



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Content

1. Introduction	2
2. Existing Conditions	3
Site Location and Existing Use	3
Bus	3
Metro Station	3
Existing Trip Generation	4
3. Proposed Development	5
Parking	5
Proposed Trip Generation	5
Site Servicing Arrangements	6
4. Conclusions	7

Tables

Table 1: Bus Services	3
Table 2: Potential Existing Vehicular Trip Generation – Car Wash (1,558m ²)	4
Table 3: Proposed Fast Food Outlet Vehicular Trip Generation – (188m ²)	5
Table 4: Difference in Vehicle Trips	6

Appendices

- A. Site Location Plan
- B. Bus Route Information
- C. Metro Timetables
- D. TRICS – Car Wash
- E. Proposed Development Site Plan
- F. TRICS – Fast Food Outlet
- G. Vehicle Tracking

1. Introduction

- 1.1. Waterman Infrastructure and Environment Limited (WIE) has prepared this Highways Statement (HS) on behalf of Burney (Midlands) Ltd in support of their Planning Application to redevelop the Car Wash site at Shaftsbury Avenue, South Shields NE34 9PH. The proposal is to provide a fast food outlet with an associated 23 car parking spaces.
- 1.2. The HS considers the site location and existing land use and describes the existing conditions in terms of pedestrian, cycle and public transport facilities. The development proposals are then described, including the access arrangement and car parking provision. The HS will also provide an assessment of the potential traffic generation in comparison with the existing site use and the likely impact of the development traffic on the operation of the local highway network.
- 1.3. The methodology used in the preparation of the HS, principally follows the Department for Transport Guidance on Transport Assessment published in March 2007.
- 1.4. The report concludes that the proposals are unlikely to present an adverse effect on highways capacity and safety.

2. Existing Conditions

Site Location and Existing Use

- 2.1. The site currently operates as an attended Car Wash facility located on Shaftsbury Avenue, South Shields and forms part of the existing Simonside Industrial Estate. The site occupies approximately an area of approximately 1,558m². A site location plan is provided at **Appendix A**.
- 2.2. Shaftsbury Avenue forms a signalised junction with the more major Newcastle Road (A194) which provides links to the centre of South Shields to the northeast and the A1 to the southeast. Controlled crossing facilities for pedestrians are provided at this junction.
- 2.3. The site currently has a small number of on-site parking spaces which are accessed via the existing access taken from Tower Place. Newcastle Road is subject to a 30mph speed limit and Shaftsbury Avenue is subject to a 40mph speed limit.
- 2.4. The existing site operates seven days a week during the 12 hour period between 07:00 – 19:00.
- 2.5. The surrounding footways in the area are wide, reasonably well maintained and benefit from the provision of street lighting.
- 2.6. Although there are no dedicated cycle routes in the immediate area the surrounding roads present an acceptable environment for cyclists.

Bus

- 2.7. The closest bus stops are located on Newcastle Road within around 190m walking distance to the site. The bus stop locations in relation to the site can be seen on the site location plan provided at **Appendix A**.
- 2.8. These bus stops, with bus shelters, are located in open and well lit areas, a summary of the bus routes is provided below.

Table 1: Bus Services

Route No.	Route Description	Period	Frequency
10	South Shields Market – Harton Nook – District Hospital – Low Simonside – Jarrow	Mon – Sun	Around 30 mins
X20	South Shields Market – Fellgate	Mon – Sat Sun	Around 30 mins Hourly

- 2.9. Details of the bus timetables are provided at **Appendix B**.

Metro Station

- 2.10. Bede Metro Station is located approximately 600m walking distance to the north of the site on Monks Way.

- 2.11. Bede station forms part of the 'yellow line' and has connections with South Shields, Chichester, Tyne Dock, Jarrow and Hebburn. Services are very frequent at around 1 every 12 minutes.
- 2.12. Details of the Metro routes and timetables are provided at **Appendix C**.

Existing Trip Generation

- 2.13. In order to provide an indication of the existing traffic generation of the site the TRICS database has been interrogated in an attempt to find similar sites and hence suitably applicable trip rates.
- 2.14. The table below presents the vehicular trip rates applicable to the existing site use as a car wash use, relating to the traditional network peak hours. The TRICS output is included at **Appendix D**.

Table 2: Potential Existing Vehicular Trip Generation – Car Wash (1,558m²)

Time Period	Arrivals		Departures		Two-Way
	Trip Rate	Trips	Trip Rate	Trips	
AM Peak Hour	36.975	6	17.391	3	9
PM Peak Hour	80.435	13	67.391	10	23

- Notes:
1. AM and PM Peak Hours (08:00 - 09:00 and 17:00 - 18:00)
 2. Vehicle trip rate are per hectare (10,000m²)

- 2.15. The table above identifies that the existing car wash has the potential to generate a total of 9 two-way vehicle movements in the AM peak hour and 23 two way trips during the PM peak hour.

3. Proposed Development

- 3.1. The proposal is to demolish the existing car wash facility and construct a fast food, drive thru, outlet likely to be Burger King with a Gross Floor Area (GFA) of approximately 188m². A plan of the proposed development is provided at **Appendix E**.
- 3.2. Vehicle access to the development will continue to be taken via the existing access on Tower Place. The internal layout enables cars to queue within the site.

Parking

- 3.3. The SPD6 Parking Standards adopted December 2010 provides details of the necessary car and cycle parking for drive thru restaurants. Based on the site being within an urban area the maximum car parking standards should be applied at a 75% rate. The standards are as follows.
- Car parking – 1 space per 10m² GFA
 - Cycle parking – 2 cycle parking spaces per 50m² of GFA
- 3.4. Based on the above standards a total of 14 car parking spaces should be provided, however a slightly lesser total of 13 car parking spaces is proposed together with 4 spaces for cycle parking.

Proposed Trip Generation

- 3.5. In order to provide an indication of the existing and potential traffic generation of the development the TRICS database has been interrogated in an attempt to find similar sites and hence suitably applicable trip rates.
- 3.6. The table below presents the vehicular trip rates applicable to the proposed fast food site use, relating to the traditional network peak hours. The TRICS output is included at **Appendix F**.

Table 3: Proposed Fast Food Outlet Vehicular Trip Generation – (188m²)

Time Period	Arrivals		Departures		Two-Way
	Trip Rate	Trips	Trip Rate	Trips	
AM Peak Hour	6.802	13	6.075	11	24
PM Peak Hour	9.777	18	9.482	18	36

- Notes:
1. AM and PM Peak Hours (08:00 - 09:00 and 17:00 - 18:00)
 2. Vehicle trip rate are per 100m²

- 3.7. The table above indicates that the proposed fast food outlet is likely to generate 24 two way trips during the AM peak and 36 two way trips during the PM peak.
- 3.8. Comparing the existing trips with the proposed trips in Tables 2 and 3 respectively the difference in trips is presented below.

Table 4: Difference in Vehicle Trips

Time Period	Existing Trips (Two Way)	Proposed Trips (Two Way)	Difference
AM Peak Hour	9	24	+15
PM Peak Hour	23	36	+13

- 3.9. The above table indicates that the proposals are likely to generate a small increase in trips during the AM peak of 15 two way vehicle trips and 13 two way trip during the PM peak. This equates to a maximum of around 1 trip every 8 minutes.
- 3.10. Based on the above difference in trips it is considered that the proposals are unlikely to have a determinatal effect highways capacity or safety.

Site Servicing Arrangements

- 3.11. A service bay is provided within the site which enables deliveries to be easily accommodated. It is likely that deliveries would occur outside the busiest periods of the fast food outlet and therefore unlikely to adversely affect traffic queuing and congestion on the highway.
- 3.12. A tracking plan showing the movement of a refuse vehicle entering and exiting the site is provided at **Appendix G**. It is considered that a refuse vehicle would be the largest vehicle which would need to access the site and that deliveries would be by smaller lorries which have a less onerous turning movement.

4. Conclusions

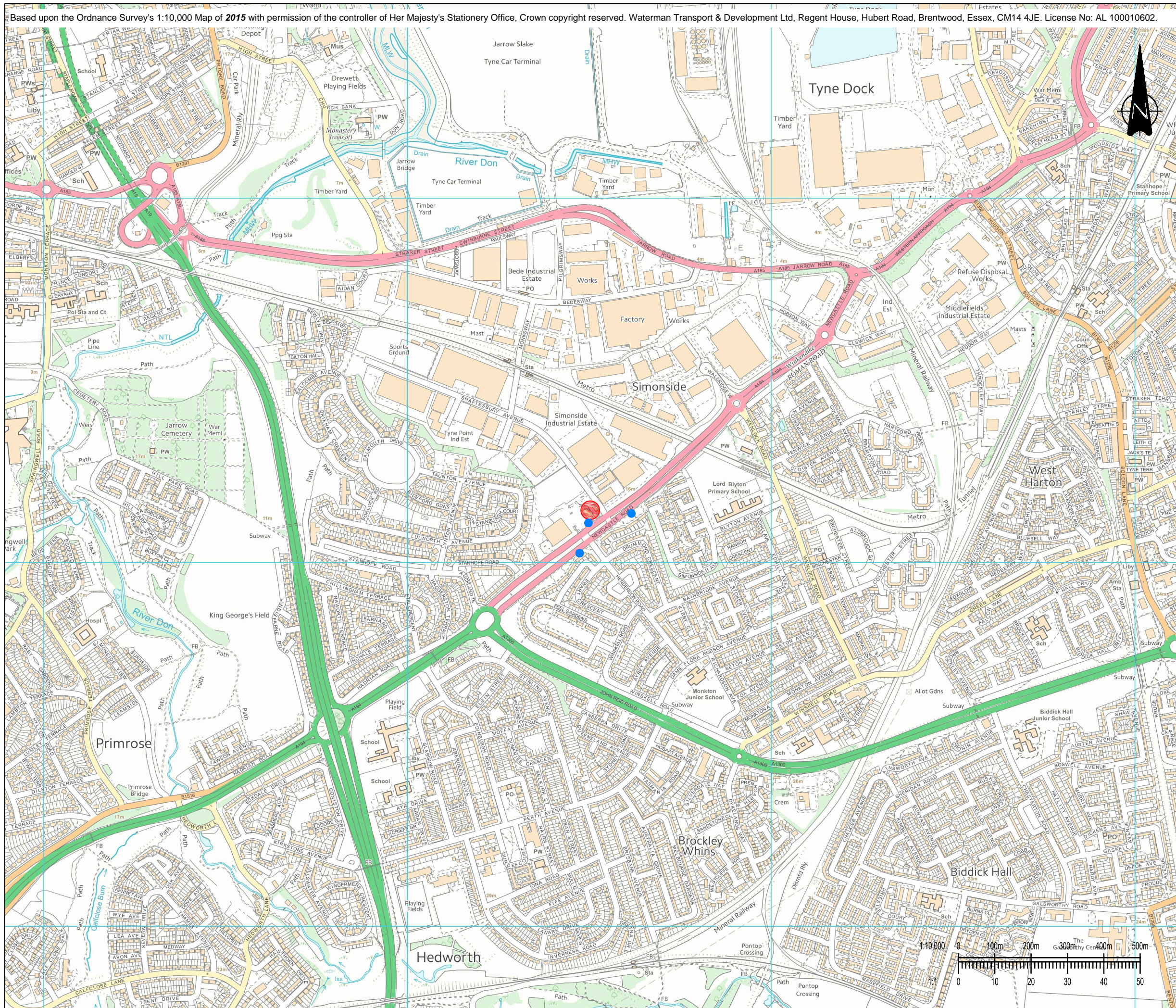
- 4.1. This report has been prepared on behalf of Burney (Midlands) Ltd to provide the Local Highway Authority with details of the proposed fast food outlet at the existing car wash site on Shaftsbury Avenue, South Shields and its predicted impact on the local highway network.
- 4.2. The application site has an area of approximately 1,558m² and is currently occupied by a car wash with associated car parking and waiting area.
- 4.3. The proposal is to demolish the existing site and redevelop the it provide a fast food outlet with a GFA of around 188m² together with 13 car parking spaces.
- 4.4. The site is accessible by regular bus services with bus stops in both directions within close walking distance of the site. Bede Metro Station is located close to the development site and offers regular services to the surrounding area, overall the transport links within the immediate area are good.
- 4.5. There is a good level of accessibility to sustainable modes of transport with the site's close proximity to bus and rail facilities. It is also readily accessible by cycle and foot with nearby shops and facilities and therefore provides realistic travel alternatives for potential employees and customers without access to a car.
- 4.6. The predicted change in vehicle trips when comparing the existing and proposed trips demonstrates that the proposals are unlikely to have a detrimental effect on highway capacity or safety.
- 4.7. On this basis it is considered that, in terms of highways and transportation that the scheme should receive planning approval.



APPENDICES

A. Site Location Plan

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- Key:
- Site
 - Local bus stops

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Rev	Date	Description	By

Amendments

Project **Shaftsbury Avenue, South Shields**

Title **Site Location**

Client **Dovetail Architects Ltd**



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B. Bus Route Information

South Shields Market • Fellgate via Chichester, Tyne Dock and Newcastle Road

X20

via Church Way, Chapter Row, Keppel Street, Fowler Street, Westoe Road, Dean Road, Slake Terrace, Newcastle Road, Leam Lane, Roman Road, Brancepeth Terrace, York Avenue, Calfclose Lane, Hedworth Lane, Fellgate Avenue, Durham Drive (anti-clockwise), Fellgate Avenue, Hedworth Lane, Calfclose Lane, Roman Road, Leam Lane, Newcastle Road, Slake Terrace, Dean Road, Imeary Street, Westoe Road, Fowler Street, Keppel Street, Chapter Row, Church Way.

MONDAY TO SATURDAY

	NS		NS																		
South Shields Market	-	-	0717	-	0745	0825	then every 30 mins at	55	25	until	1555	1630	1705	1735	1805	1835	1930	2030	2130	2220	2310
Town Hall	-	-	0720	-	0748	0828		58	28		1558	1633	1708	1738	1808	1838	1933	2033	2133	2223	2313
Westoe	-	-	0723	-	0751	0831		01	31		1601	1636	1711	1741	1811	1841	1935	2035	2135	2225	2315
Chichester	0631	0701	0725	0743	0753	0833		03	33		1603	1638	1713	1743	1813	1842	1936	2036	2136	2226	2316
Tyne Dock Offices	0635	0705	0729	0747	0757	0837		07	37		1607	1642	1717	1747	1817	1845	1940	2040	2140	2230	2319
Newcastle Road, Tesco	0638	0708	0732	0751	0801	0841		11	41		1611	1646	1721	1751	1821	1849	1943	2043	2143	2233	2322
Calfclose Lane, Shops	0643	0713	0737	0757	0807	0847		17	47		1617	1652	1727	1757	1827	1854	1948	2048	2148	2238	2326
Fellgate Avenue, Roundabout	0646	0716	0740	0800	0810	0850		20	50		1620	1655	1730	1800	1830	1857	1951	2051	2151	2241	2329
Fellgate Metro	0648	0718	0742	0802	0812	0852		22	52		1622	1657	1732	1802	1832	1859	1953	2053	2153	2243	2331
Fellgate, Lancaster Way	0651	0721	0745	0805	0815	0855		25	55		1625	1700	1735	1805	1835	1902	1955	2055	2155	2245	2333
Fellgate Avenue, Roundabout	0654	0724	0748	0808	0818	0858		28	58		1628	1703	1738	1808	1838	1905	1958	2058	2158	2248	2336
Calfclose Lane, Shops	0657	0727	0751	0811	0821	0901		31	01		1631	1706	1741	1811	1841	1908	2001	2101	2201	2251	-
Newcastle Road, Tesco	0702	0732	0800	0820	0830	0907		37	07		1637	1712	1747	1817	1847	1914	2006	2106	2206	2256	-
Tyne Dock Offices	0706	0736	0806	0826	0836	0911		41	11		1641	1716	1751	1821	1851	1918	2010	2110	2210	2300	-
Chichester	0709	0739	0809	0829	0839	0914		44	14		1644	1719	1754	1824	1854	1921	2013	2113	2213	2303	-
Westoe	0711	0741	0811	0831	0841	0916		46	16		1646	1721	1756	1826	1856	1922	2014	2114	2214	2304	-
Town Hall	0713	0743	0813	0833	0843	0918		48	18		1648	1723	1758	1828	1858	1924	2016	2116	2216	2306	-
South Shields Market	0715	0745	0815	0835	0845	0920	50	20	1650	1725	1800	1830	1900	1926	2018	2118	2218	2308	-		

SUNDAY

South Shields Market	-	0830	0930	then hourly at	30	until	1830	1930	2030	2130	2220	2310
Town Hall	-	0833	0933		33		1833	1933	2033	2133	2223	2313
Westoe	-	0835	0935		35		1835	1935	2035	2135	2225	2315
Chichester	0736	0836	0936		36		1836	1936	2036	2136	2226	2316
Tyne Dock Offices	0740	0840	0940		40		1840	1940	2040	2140	2230	2319
Newcastle Road, Tesco	0743	0843	0944		44		1844	1943	2043	2143	2233	2322
Calfclose Lane, Shops	0748	0848	0950		50		1850	1948	2048	2148	2238	2326
Fellgate Avenue, Roundabout	0751	0851	0953		53		1853	1951	2051	2151	2241	2329
Fellgate Metro	0753	0853	0955		55		1855	1953	2053	2153	2243	2331
Fellgate, Lancaster Way	0755	0855	0958		58		1858	1955	2055	2155	2245	2333
Fellgate Avenue, Roundabout	0758	0858	1001		01		1901	1958	2058	2158	2248	2336
Calfclose Lane, Shops	0801	0901	1004		04		1904	2001	2101	2201	2251	-
Newcastle Road, Tesco	0806	0906	1010		10		1910	2006	2106	2206	2256	-
Tyne Dock Offices	0810	0910	1014		14		1914	2010	2110	2210	2300	-
Chichester	0813	0913	1017		17		1917	2013	2113	2213	2303	-
Westoe	0814	0914	1018		18		1918	2014	2114	2214	2304	-
Town Hall	0816	0916	1020		20		1920	2016	2116	2216	2306	-
South Shields Market	0818	0918	1022	22	1922	2018	2118	2218	2308	-		

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NOTE: NS Not Saturday.

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calls from other service providers or from mobiles may vary.*

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What to do if things go wrong

We do our best to meet your expectations, but occasionally things go wrong. If you feel we have failed you in some way please tell us about it:

**Operations Manager, Stagecoach in South Shields,
Dean Road, South Shields, NE33 4HZ. Tel: (0191) 456 6521**

If you're unhappy with our response, this is the independent body that will review complaints:
The Bus Appeals Body, PO Box 119, Shepperton, TW17 8UX.

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South Shields Market • Harton Nook • District Hospital • Low Simonside • Jarrow 10

via Beach Road, Bamburgh Avenue, Horsley Hill, Marsden Inn, Whiteleas, Biddick Hall, Simonside and Hill Park

Service 10 via Chapter Row, Keppel Street, Fowler Street, Winchester Street, Anderson Street, Beach Road, Salisbury Place, Sea Way, Bents Park Road, Mowbray Road, Tadema Road, Bamburgh Avenue, Cheviot Road, Horsley Hill Square, Marsden Lane, Prince Edward Road, Temple Park Road, Harton Lane, Boldon Lane, Whiteleas Way, Nevinson Avenue, Gainsborough Avenue, Whiteleas Way, Galsworthy Road, Sheridan Road, Chesterton Road, John Reid Road, Winskell Road, Wenlock Road, Dame Flora Robson Avenue, Henderson Road, Newcastle Road, Auckland Terrace, Lynton Avenue, Taunton Avenue, Falmouth Drive, Taunton Avenue, Lynton Avenue, Auckland Terrace, Leam Lane, Hedworth Lane underpass, Roman Road, Primrose Terrace, Springwell Road, Cemetery Road, Hill Park Road, Cemetery Road, Springwell Road, Monkton Terrace, Howard Street, Ellison Street, Station Street, Jarrow Bus Station, Wear Street, Station Street, Ellison Street, Howard Street, Monkton Road, Jarrow Morrisons.

MONDAY TO SATURDAY

Service number	NS		NS																
	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
South Shields Market	-	0702	0732	0802	0837	0912	42	12			1612	1647	1722	1748	1850	1950	2050	2150	2300
Beach Road, Anderson Street	-	0705	0735	0805	0840	0915	45	15			1615	1650	1725	1751	1853	1953	2053	2153	2303
New Crown Hotel	-	0708	0738	0808	0843	0918	48	18			1618	1653	1728	1754	1856	1956	2056	2156	2306
Bamburgh Avenue	-	0711	0741	0811	0846	0921	51	21			1621	1656	1731	1757	1858	1958	2058	2158	2308
Horsley Hill Square	-	0714	0744	0814	0849	0924	54	24			1624	1659	1734	1800	1901	2001	2101	2201	2311
Marsden Inn	-	0717	0747	0817	0852	0927	57	27			1627	1702	1737	1803	1903	2003	2103	2203	2313
Harton Nook	-	0723	0753	0823	0858	0933	03	33			1633	1708	1743	1807	1907	2007	2107	2207	2317
District Hospital	0616	0727	0757	0827	0902	0937	07	37			1637	1712	1747	1811	1911	2011	2111	2211	2321
Whiteleas Shops	0621	0734	0804	0834	0909	0944	14	44			1644	1719	1754	1816	1916	2016	2116	2216	2326
Biddick Hall , Galsworthy Road	0625	0738	0808	0838	0913	0948	18	48			1648	1723	1758	1819	1919	2019	2119	2219	2329
Mill Inn, Sheridan Road	0627	0740	0810	0840	0915	0950	20	50			1650	1725	1800	1820	1920	2020	2120	2220	2330
Simonside Club	0629	0743	0813	0843	0918	0953	23	53			1653	1728	1803	1823	1923	2023	2123	2223	2333
Henderson Road	0632	0746	0816	0846	0921	0956	26	56			1656	1731	1806	1826	1926	2026	2126	2226	2336
Low Simonside , Falmouth Drive	0635	0752	0822	0852	0927	1002	32	02			1702	1737	1812	1830	1930	2030	2130	2230	2340
Hill Park Estate	-	0801	0831	0901	0936	1011	41	11			1711	1746	1821	1839	1939	2039	2139	2239	-
Jarrow Bus Station , arrive	-	0805	0835	0905	0940	1015	45	15			1715	1750	1825	1843	1943	2043	2143	2243	-
Jarrow Morrisons	-	0813	0848	0923	0953	1023	53	23			1733	1808	1828	1848	1948	-	-	-	-

SUNDAY

Service number	10		10		10		10		10		10		10		10		10	
	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
South Shields Market	0920	0942	12	42			1542	1612	1642	1712	1750	1850	1950	2050	2150	2300		
Beach Road, Anderson Street	0923	0945	15	45			1545	1615	1645	1715	1753	1853	1953	2053	2153	2303		
New Crown Hotel	0926	0948	18	48			1548	1618	1648	1718	1756	1856	1956	2056	2156	2306		
Bamburgh Avenue	0928	0951	21	51			1651	1621	1651	1721	1758	1858	1958	2058	2158	2308		
Horsley Hill Square	0931	0954	24	54			1654	1624	1654	1724	1801	1901	2001	2101	2201	2311		
Marsden Inn	0933	0957	27	57			1657	1627	1657	1727	1803	1903	2003	2103	2203	2313		
Harton Nook	0937	1003	33	03			1603	1633	1703	1733	1807	1907	2007	2107	2207	2317		
District Hospital	0941	1007	37	07			1607	1637	1707	1737	1811	1911	2011	2111	2211	2321		
Whiteleas Shops	0946	1014	44	14			1614	1644	1714	1744	1816	1916	2016	2116	2216	2326		
Biddick Hall , Galsworthy Road	0949	1018	48	18			1618	1648	1718	1748	1819	1919	2019	2119	2219	2329		
Mill Inn, Sheridan Road	0950	1020	50	20			1620	1650	1720	1750	1820	1920	2020	2120	2220	2330		
Simonside Club	0953	1023	53	23			1623	1653	1723	1753	1823	1923	2023	2123	2223	2333		
Henderson Road	0956	1026	56	26			1626	1656	1726	1756	1826	1926	2026	2126	2226	2336		
Low Simonside , Falmouth Drive	1000	1032	02	32			1632	1702	1730	1800	1830	1930	2030	2130	2230	2340		
Hill Park Estate	-	1041	11	41			1641	1711	1739	1809	1839	1939	2039	2139	2239	-		
Jarrow Bus Station , arrive	-	1045	15	45			1645	1715	1743	1813	1843	1943	2043	2143	2243	-		
Jarrow Morrisons	-	1053	23	53			1651	1721	1751	1821	-	-	-	-	-	-		

For travel information contact Traveline on 0871 200 22 33

Calls cost 10p per min from a BT landline, calls from other service providers or from mobiles may vary.

NOTE: NS Not Saturday.

Certain journeys are operated with the financial support of Nexus.

Changes to Services 10 and 11 from Sunday 24 March 2013

Working in partnership with our colleagues at Nexus and South Tyneside Borough Council, Sunday daytime buses are retimed to improve reliability for customers.

During Sunday daytimes, buses will operate up to 8 minutes earlier from South Shields Town Centre when heading towards Jarrow. When returning from Jarrow, these buses will arrive at South Shields Town Centre up to 13 minutes later.

However, basic frequencies will continue unchanged, with daytime buses running up to every 30 minutes, and evening buses running hourly.

For a cleaner environment Stagecoach in South Shields has a no-smoking policy



C. Metro Timetables

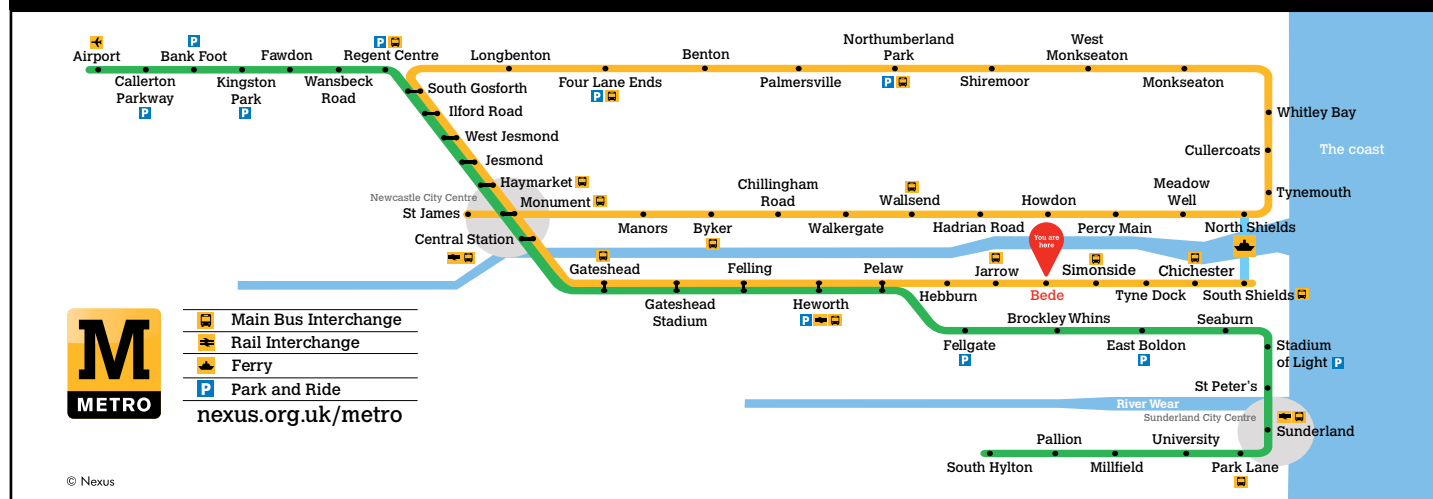
Metro timetable

Bede



Platform 1 to South Shields

Valid from 5 January 2014



Platform 1 Bede to South Shields

Monday to Friday

05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	00:00
05:33	06:09	07:08											18:07	19:02	20:01	21:14	22:14	23:14	No Service
	06:27	07:19											18:19	19:15	20:14	21:29	22:29	23:29	
	06:39	07:31											18:31	19:30	20:29	21:44	22:44	23:44	
	06:52	07:43											18:42	19:44	20:44	21:59	22:59		
		07:55													20:59				

then at 07, 19, 31, 43 & 55 minutes past each hour until

Saturday

05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	00:00
05:38	06:14	07:01	08:15	09:01									18:07	19:02	20:00	21:14	22:14	23:14	No Service
	06:30	07:15	08:31	09:15									18:18	19:15	20:14	21:29	22:29	23:29	
	06:44	07:30	08:46	09:30									18:31	19:30	20:29	21:44	22:44	23:44	
		07:44	08:54	09:43									18:42	19:44	20:44	21:59	22:59		
		07:59		09:55											20:59				

then at 07, 19, 31, 43 & 55 minutes past each hour until

Sunday

05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	00:00
No Service	06:52	07:22	08:15	09:14														23:14	No Service
		07:45	08:45	09:44														23:29	Service
				09:59														23:44	

then at 14, 29, 44 & 59 minutes past each hour until

Journey times from this station			Public holidays			Key		
to South Shields	about	7 minutes	This timetable will change on Public Holidays; for information call at any Nexus Travelshop, phone Traveline or visit our website.			Please check front of trains for destinations		

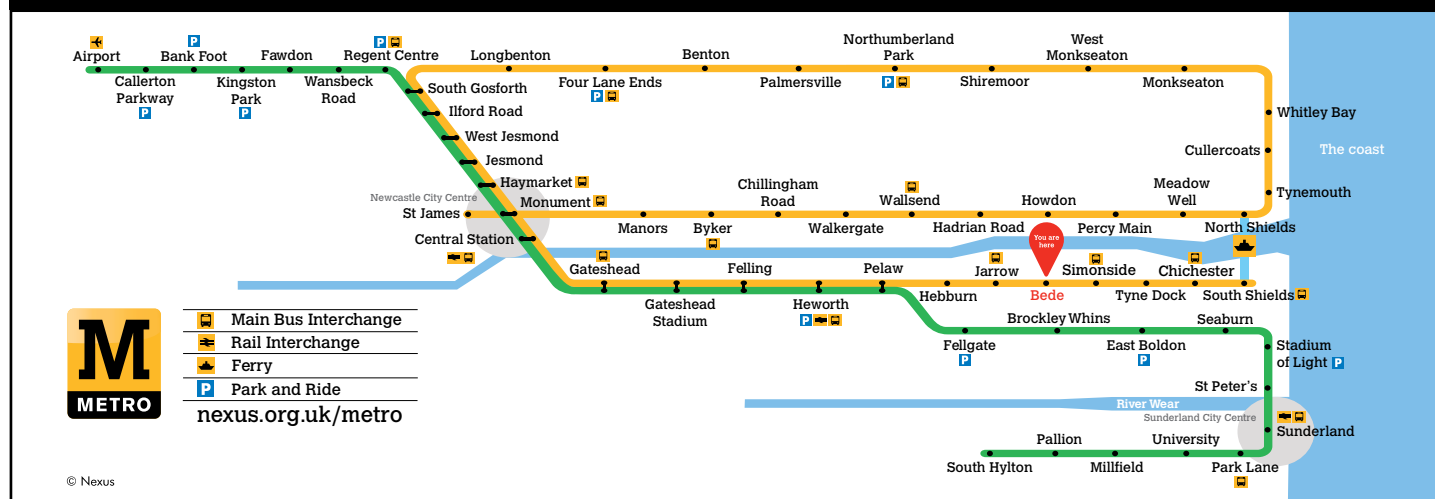
Metro timetable

Bede



Platform 2 to St James via the coast

Valid from 5 January 2014



Platform 2 Bede to St James via the coast

Monday to Friday

05 00	06 00	07 00	08 00	09 00	10 00	11 00	12 00	13 00	14 00	15 00	16 00	17 00	18 00	19 00	20 00	21 00	22 00	23 00	00 00
05 52	06 28												18 02	19 05	20 04	21 04	22 04	23 04	00 03*
	06 47												18 14	19 20	20 19	21 19	22 19	23 19	
													18 26	19 34	20 34	21 34	22 34	23 34	
													18 37	19 49	20 49	21 49	22 49	23 49	
													18 50						

Saturday

05 00	06 00	07 00	08 00	09 00	10 00	11 00	12 00	13 00	14 00	15 00	16 00	17 00	18 00	19 00	20 00	21 00	22 00	23 00	00 00
05 58	06 33	07 04	08 04	09 04									18 02	19 05	20 04	21 04	22 04	23 04	00 03*
	06 50	07 20	08 19	09 15									18 14	19 20	20 19	21 19	22 19	23 19	
		07 34	08 34	09 25									18 26	19 34	20 34	21 34	22 34	23 34	
		07 49	08 49	09 38									18 37	19 49	20 49	21 49	22 49	23 49	
				09 50									18 50						

Sunday

05 00	06 00	07 00	08 00	09 00	10 00	11 00	12 00	13 00	14 00	15 00	16 00	17 00	18 00	19 00	20 00	21 00	22 00	23 00	00 00
No Service	No Service	07 10	08 10	09 04													22 04	23 04	00 03*
		07 40	08 40	09 34													22 19	23 19	
																	22 34	23 34	
																	22 49	23 49	

Journey times from this station

to Pelaw	about 10 minutes
to Heworth	about 12 minutes
to Gateshead	about 17 minutes
to Central Station	about 19 minutes
to Monument	about 21 minutes
to Haymarket	about 22 minutes
to South Gosforth	about 29 minutes
to Whitley Bay	about 47 minutes
to St James	about 75 minutes

Public holidays

This timetable will change on Public Holidays; for information call at any Nexus Travelshop, phone Traveline or visit our website.

Key

- Terminates at Benton
- Terminates at Manors

Please check front of trains for destinations



D. TRICS – Car Wash

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 15 - VEHICLE SERVICES
 Category : D - CAR WASH
 VEHICLES

Selected regions and areas:

01	GREATER LONDON	
	MR MERTON	1 days
06	WEST MIDLANDS	
	WO WORCESTERSHIRE	1 days
09	NORTH	
	TW TYNE & WEAR	1 days
11	SCOTLAND	
	EB CITY OF EDINBURGH	1 days
17	ULSTER (NORTHERN IRELAND)	
	DO DOWN	1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Filtering Stage 2 selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: Site area
 Actual Range: 0.04 to 0.13 (units: hect)
 Range Selected by User: 0.04 to 0.18 (units: hect)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/01 to 25/11/14

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Tuesday	2 days
Friday	3 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count	5 days
Directional ATC Count	0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.

Selected Locations:

Town Centre	1
Suburban Area (PPS6 Out of Centre)	4

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Industrial Zone	2
Residential Zone	1
High Street	1
No Sub Category	1

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Filtering Stage 3 selection:

Use Class:

Not Known	3 days
Sui Generis	1 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 1 mile:

10,001 to 15,000	1 days
15,001 to 20,000	1 days
25,001 to 50,000	2 days
50,001 to 100,000	1 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

25,001 to 50,000	2 days
250,001 to 500,000	2 days
500,001 or More	1 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

0.6 to 1.0	3 days
1.1 to 1.5	2 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Travel Plan:

No	5 days
----	--------

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

LIST OF SITES relevant to selection parameters

1	DO-15-D-02 JUBILEE ROAD	CAR WASH		DOWN
	NEWTOWNARDS Suburban Area (PPS6 Out of Centre) Industrial Zone Total Site area: 0.13 hect Survey date: FRIDAY 25/11/11			
2	EB-15-D-01 FERRY ROAD	WASH 'N' VALET		Survey Type: MANUAL CITY OF EDINBURGH
	GRANTON EDINBURGH Suburban Area (PPS6 Out of Centre) No Sub Category Total Site area: 0.08 hect Survey date: TUESDAY 26/10/10			
3	MR-15-D-01 HIGH PATH	ARC CAR WASH		Survey Type: MANUAL MERTON
	MERTON Suburban Area (PPS6 Out of Centre) Industrial Zone Total Site area: 0.11 hect Survey date: FRIDAY 18/06/10			
4	TW-15-D-01 PHILADELPHIA LANE	CAR WASH		Survey Type: MANUAL TYNE & WEAR
	HOUGHTON-LE-SPRING Suburban Area (PPS6 Out of Centre) Residential Zone Total Site area: 0.10 hect Survey date: TUESDAY 21/06/11			
5	WO-15-D-01 AVON STREET	HAND CAR WASH		Survey Type: MANUAL WORCESTERSHIRE
	EVESHAM Town Centre High Street Total Site area: 0.04 hect Survey date: FRIDAY 22/10/10			

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

TRIP RATE for Land Use 15 - VEHICLE SERVICES/D - CAR WASH
VEHICLES

Calculation factor: 1 hect

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. AREA	Trip Rate	No. Days	Ave. AREA	Trip Rate	No. Days	Ave. AREA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	3	0.11	0.000	3	0.11	0.000	3	0.11	0.000
08:00 - 09:00	5	0.09	36.957	5	0.09	17.391	5	0.09	54.348
09:00 - 10:00	5	0.09	65.217	5	0.09	54.348	5	0.09	119.565
10:00 - 11:00	5	0.09	86.957	5	0.09	91.304	5	0.09	178.261
11:00 - 12:00	5	0.09	84.783	5	0.09	82.609	5	0.09	167.392
12:00 - 13:00	5	0.09	102.174	5	0.09	97.826	5	0.09	200.000
13:00 - 14:00	5	0.09	84.783	5	0.09	76.087	5	0.09	160.870
14:00 - 15:00	5	0.09	117.391	5	0.09	121.739	5	0.09	239.130
15:00 - 16:00	5	0.09	121.739	5	0.09	110.870	5	0.09	232.609
16:00 - 17:00	5	0.09	82.609	5	0.09	117.391	5	0.09	200.000
17:00 - 18:00	5	0.09	80.435	5	0.09	67.391	5	0.09	147.826
18:00 - 19:00	4	0.09	16.667	4	0.09	44.444	4	0.09	61.111
19:00 - 20:00	1	0.11	27.273	1	0.11	27.273	1	0.11	54.546
20:00 - 21:00	1	0.11	0.000	1	0.11	0.000	1	0.11	0.000
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			906.985			908.673			1815.658

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

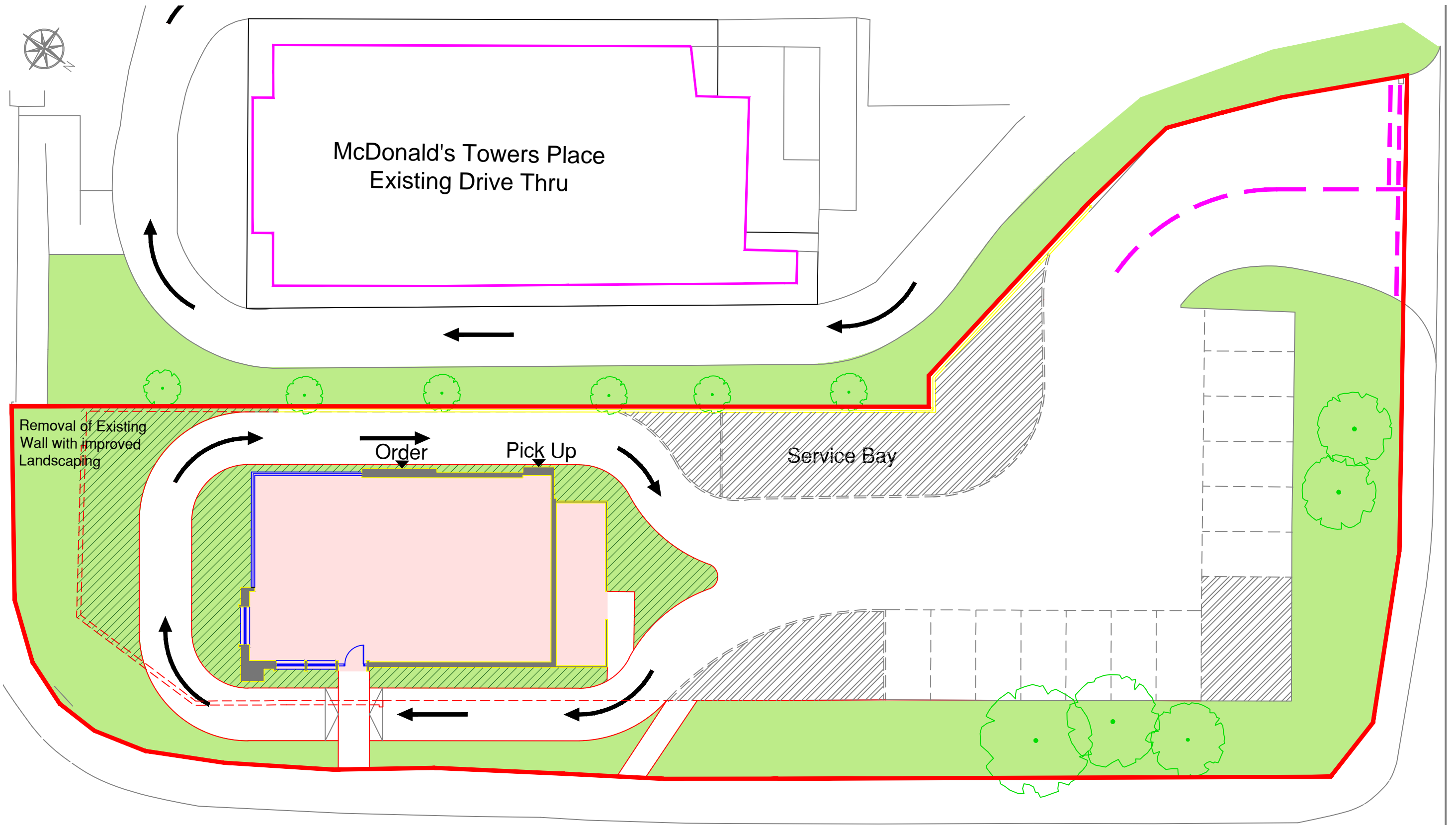
Parameter summary

Trip rate parameter range selected: 0.04 to 0.13 (units: hect)
 Survey date date range: 01/01/01 - 25/11/14
 Number of weekdays (Monday-Friday): 5
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

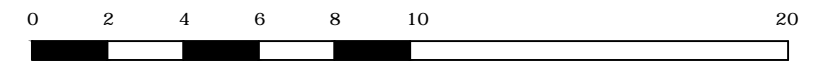


E. Proposed Development Site Plan



SHAFTESBURY AVENUE

PROPOSED BURGER KING SITE LAYOUT
 SHAFTESBURY AVENUE, SOUTH SHEILD, NE34 9QD
 3266_PL03 1:200@A3 MAY'15



DATE	REVISIONS	INITIAL



D O V E T A R C H I T E C T S

SUITE 4, CLOCKTOWER HOUSE, HORNDON INDUSTRIAL PARK, WEST HORNDON, CM13 3XL (01708) 225547



F. TRICS – Fast Food Outlet

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 06 - HOTEL, FOOD & DRINK
Category : D - FAST FOOD - DRIVE THROUGH
VEHICLES

Selected regions and areas:

01	GREATER LONDON	
	EG EALING	1 days
	HO HOUNSLOW	1 days
	WH WANDSWORTH	1 days
02	SOUTH EAST	
	HC HAMPSHIRE	1 days
	SO SLOUGH	1 days
04	EAST ANGLIA	
	CA CAMBRIDGESHIRE	1 days
05	EAST MIDLANDS	
	NR NORTHAMPTONSHIRE	1 days
06	WEST MIDLANDS	
	WM WEST MIDLANDS	1 days
10	WALES	
	CO CONWY	1 days
11	SCOTLAND	
	EB CITY OF EDINBURGH	1 days
12	CONNAUGHT	
	CS SLIGO	1 days
14	LEINSTER	
	KD KILDARE	1 days
	LU LOUTH	1 days
15	GREATER DUBLIN	
	DL DUBLIN	1 days
16	ULSTER (REPUBLIC OF IRELAND)	
	DN DONEGAL	1 days
17	ULSTER (NORTHERN IRELAND)	
	DE DERRY	1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Filtering Stage 2 selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: Gross floor area
 Actual Range: 123 to 800 (units: sqm)
 Range Selected by User: 123 to 800 (units: sqm)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/07 to 15/12/12

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Tuesday	5 days
Wednesday	7 days
Thursday	1 days
Friday	3 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count	16 days
Directional ATC Count	0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.

Selected Locations:

Town Centre	1
Edge of Town Centre	3
Suburban Area (PPS6 Out of Centre)	7
Edge of Town	4
Neighbourhood Centre (PPS6 Local Centre)	1

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Commercial Zone	2
Development Zone	1
Residential Zone	5
Retail Zone	3
Built-Up Zone	3
Out of Town	1
No Sub Category	1

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Filtering Stage 3 selection:

Use Class:

A3	3 days
A5	13 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Filtering Stage 3 selection (Cont.):

Population within 1 mile:

1,001 to 5,000	1 days
5,001 to 10,000	6 days
10,001 to 15,000	2 days
15,001 to 20,000	1 days
20,001 to 25,000	3 days
25,001 to 50,000	2 days
50,001 to 100,000	1 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

5,001 to 25,000	2 days
25,001 to 50,000	3 days
50,001 to 75,000	2 days
75,001 to 100,000	2 days
100,001 to 125,000	2 days
125,001 to 250,000	3 days
500,001 or More	2 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

0.6 to 1.0	8 days
1.1 to 1.5	8 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Travel Plan:

No	16 days
----	---------

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

LIST OF SITES relevant to selection parameters

1	CA-06-D-01	MCDONALDS		CAMBRIDGESHIRE
	NEWMARKET ROAD			
	CAMBRIDGE			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Gross floor area:		450 sqm	
	Survey date:	WEDNESDAY	19/10/11	Survey Type: MANUAL
2	CO-06-D-01	MCDONALD'S		CONWY
	RHUDDLAN ROAD			
	ABERGELE			
	Edge of Town			
	Out of Town			
	Total Gross floor area:		410 sqm	
	Survey date:	FRIDAY	21/10/11	Survey Type: MANUAL
3	CS-06-D-01	MCDONALDS		SLIGO
	PEARSE ROAD			
	SLIGO RETAIL PARK			
	SLIGO			
	Edge of Town			
	Retail Zone			
	Total Gross floor area:		450 sqm	
	Survey date:	TUESDAY	21/09/10	Survey Type: MANUAL
4	DE-06-D-01	KFC		DERRY
	STRAND ROAD			
	LONDONDERRY			
	Suburban Area (PPS6 Out of Centre)			
	Development Zone			
	Total Gross floor area:		240 sqm	
	Survey date:	THURSDAY	21/06/12	Survey Type: MANUAL
5	DL-06-D-01	MCDONALDS		DUBLIN
	KYLEMORE ROAD			
	DUBLIN 12			
	DUBLIN			
	Suburban Area (PPS6 Out of Centre)			
	Commercial Zone			
	Total Gross floor area:		800 sqm	
	Survey date:	WEDNESDAY	28/09/11	Survey Type: MANUAL
6	DN-06-D-01	KFC		DONEGAL
	PORT ROAD			
	LETTERKENNY			
	Edge of Town Centre			
	Residential Zone			
	Total Gross floor area:		225 sqm	
	Survey date:	WEDNESDAY	30/11/11	Survey Type: MANUAL
7	EB-06-D-01	MCDONALDS		CITY OF EDINBURGH
	GYLEMUIR ROAD			
	EDINBURGH			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Gross floor area:		475 sqm	
	Survey date:	WEDNESDAY	18/06/08	Survey Type: MANUAL
8	EG-06-D-01	MCDONALDS		EALING
	UXBRIDGE ROAD			
	SOUTHALL			
	Suburban Area (PPS6 Out of Centre)			
	Built-Up Zone			
	Total Gross floor area:		726 sqm	
	Survey date:	FRIDAY	11/05/12	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

9	HC-06-D-02 WELLINGTON AVENUE	BURGER KING		HAMPSHIRE
	ALDRESHOT Edge of Town Centre Built-Up Zone Total Gross floor area:		465 sqm	
			20/10/10	Survey Type: MANUAL
10	HO-06-D-01 HIGH STREET	MCDONALD'S		HOUNSLOW
	BRENTFORD Edge of Town Centre Built-Up Zone Total Gross floor area:		378 sqm	
			07/12/12	Survey Type: MANUAL
11	KD-06-D-01 DUBLIN ROAD	MCDONALDS		KILDARE
	MAYNOOTH Neighbourhood Centre (PPS6 Local Centre) Retail Zone Total Gross floor area:		380 sqm	
			19/10/10	Survey Type: MANUAL
12	LU-06-D-01 DUBLIN STREET	MCDONALD'S		LOUTH
	DUNDALK Town Centre Retail Zone Total Gross floor area:		382 sqm	
			14/11/12	Survey Type: MANUAL
13	NR-06-D-01 MARQUEE DRIVE	MCDONALDS		NORTHAMPTONSHIRE
	NORTHAMPTON Edge of Town Commercial Zone Total Gross floor area:		220 sqm	
			22/05/07	Survey Type: MANUAL
14	SO-06-D-01 WINDSOR ROAD	MCDONALD'S		SLOUGH
	SLOUGH Edge of Town Residential Zone Total Gross floor area:		480 sqm	
			21/11/12	Survey Type: MANUAL
15	WH-06-D-01 BALHAM HILL	BURGER KING		WANDSWORTH
	BALHAM Suburban Area (PPS6 Out of Centre) Residential Zone Total Gross floor area:		123 sqm	
			27/11/07	Survey Type: MANUAL
16	WM-06-D-01 KINGSBURY ROAD	BURGER KING		WEST MIDLANDS
	ERDINGTON BIRMINGHAM Suburban Area (PPS6 Out of Centre) No Sub Category Total Gross floor area:		250 sqm	
			25/11/08	Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/D - FAST FOOD - DRIVE THROUGH
VEHICLES

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00	2	429	0.583	2	429	0.000	2	429	0.583
06:00 - 07:00	7	458	2.215	7	458	1.497	7	458	3.712
07:00 - 08:00	10	445	5.774	10	445	4.628	10	445	10.402
08:00 - 09:00	12	447	6.802	12	447	6.075	12	447	12.877
09:00 - 10:00	13	432	5.769	13	432	5.983	13	432	11.752
10:00 - 11:00	16	403	5.640	16	403	5.423	16	403	11.063
11:00 - 12:00	16	403	6.972	16	403	6.399	16	403	13.371
12:00 - 13:00	16	403	12.008	16	403	10.877	16	403	22.885
13:00 - 14:00	16	403	12.364	16	403	12.705	16	403	25.069
14:00 - 15:00	16	403	9.281	16	403	9.994	16	403	19.275
15:00 - 16:00	16	403	9.482	16	403	9.297	16	403	18.779
16:00 - 17:00	16	403	9.436	16	403	9.560	16	403	18.996
17:00 - 18:00	16	403	9.777	16	403	9.482	16	403	19.259
18:00 - 19:00	16	403	10.691	16	403	11.016	16	403	21.707
19:00 - 20:00	16	403	9.095	16	403	9.947	16	403	19.042
20:00 - 21:00	16	403	6.725	16	403	7.329	16	403	14.054
21:00 - 22:00	16	403	5.129	16	403	5.377	16	403	10.506
22:00 - 23:00	11	402	2.984	11	402	3.459	11	402	6.443
23:00 - 24:00	7	410	0.348	7	410	1.150	7	410	1.498
Total Rates:			131.075			130.198			261.273

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: $COUNT/TRP*FACT$. Trip rates are then rounded to 3 decimal places.

Parameter summary

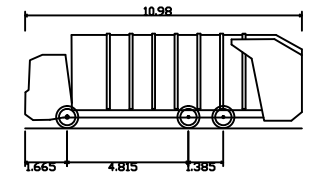
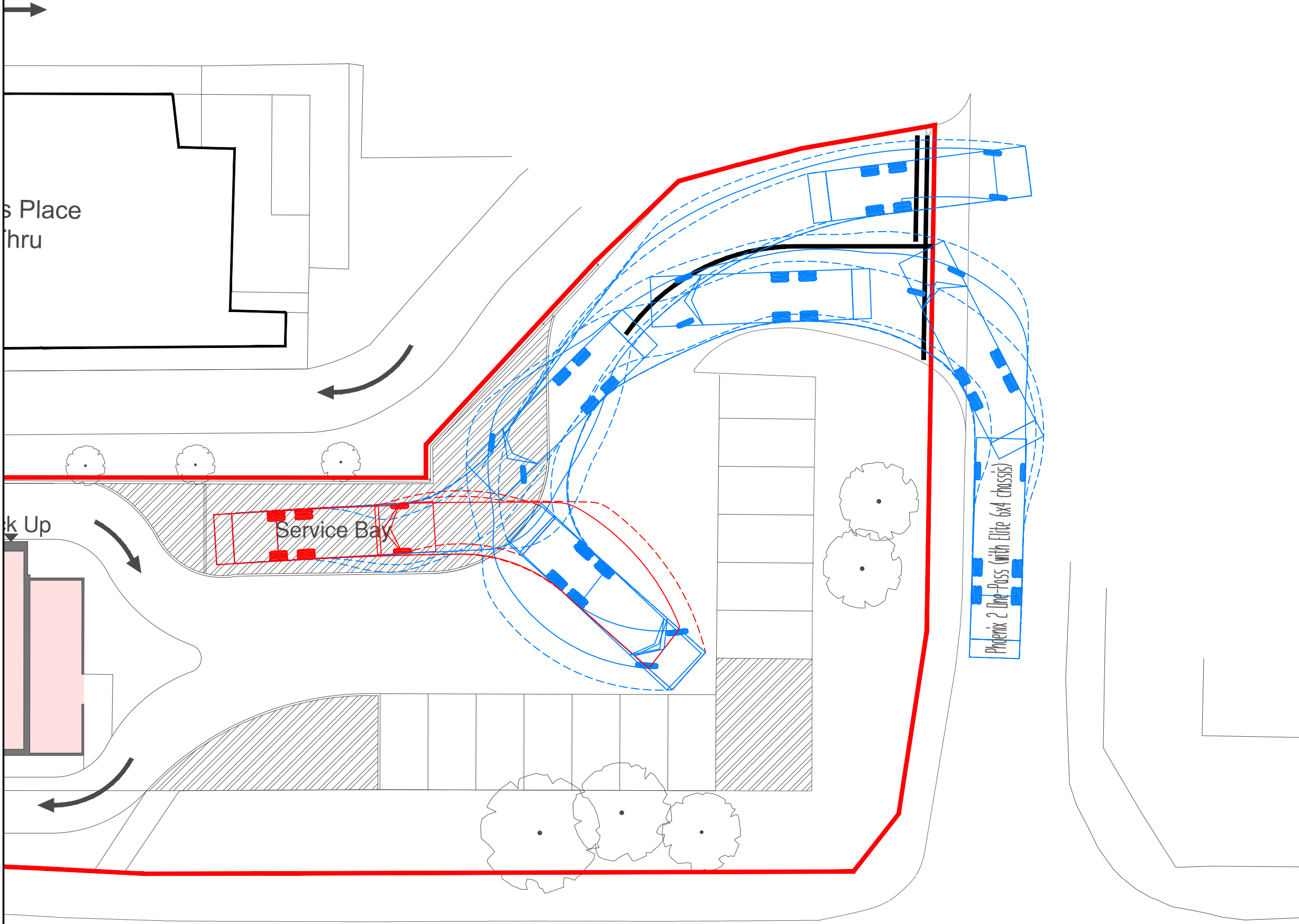
Trip rate parameter range selected: 123 - 800 (units: sqm)
 Survey date range: 01/01/07 - 15/12/12
 Number of weekdays (Monday-Friday): 16
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.



G. Vehicle Tracking

Based upon Dovetail Architects drawing 3266_PL03 Proposed Site Layout dated May 2015



Phoenix 2 One-Pass (with Elite 6x4 chassis)
 Overall Length 10.980m
 Overall Width 2.500m
 Overall Body Height 3.751m
 Min Body Ground Clearance 0.304m
 Track Width 2.500m
 Lock to Lock Time 4.00s
 Kerb to Kerb Turning Radius 9.000m

s Place
thru

Work Up

Service Bay

Phoenix 2 One-Pass (with Elite 6x4 chassis)

SHAFTESBURY AVENUE

Rev	Date	Description	By
A01	20.05.15	FIRST ISSUE	AJ

Amendments

Project
Shaftsbury Avenue, South Shields

Title
Refuse Vehicle Swept Paths

Client
Dovetail Architects Ltd



Regent House Hubert Road Brentwood Essex CM14 4JE
 t 01277 238 100
 mail@watermangroup.com www.watermangroup.com

Drawing Status
PRELIMINARY

Designed by	Checked by	Project No
Drawn by AJ	Date May 2015	CIV17272

Scales @ A3 work to figured dimensions only	1:200	Computer File No CIV-17272-SA-95-0002-A01.dwg
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Publisher	Zone	Category	Number	Revision
CIV	SA	95	0002	A01

UK and Ireland Office Locations

