

# **VOLUME 4: APPENDICES**

## **APPENDIX B2 – CONSTRUCTION TRAFFIC DATA ASSUMPTIONS**

**Appendix B - Construction Traffic**

Construction year for development is 2023. Based on 50 dwellings built per year

Source data: Keephatch Beech CEMP for Bellway Homes

**Operatives trip rates**

Working day 08.00-18.00 10 hours  
 estimated on average working days per month 22 days

Typically no more than 100 construction works on site per day 100 operatives

majority of operatives car share (Bellway have logs to prove this)  
 However worst case assume a 60% single occupancy and 40% car share  
 100 operatives would then equal

60 single occupancy cars  
 20 car share cars - assuming two operatives in each car  
 80 cars  
 160 Total 2 way trips - 80 cars must arrive and leave

Most Operatives arrive between 07:00-08:00 and leave 16:00-18:00  
 Therefore assume 90% arrive/ leave in this time period - rest spread over the day

**Delivery Vehicles**

Offpeak deliveries only  
 Based on 50 occupants per developer per year

Two way Delivery movements per day  
 This then equates to 30 vehicles - must come in and go out

Per day  
 60  
 30

These are made up of:

Aggregates / building materials  
 Ready Mix Concrete  
 General building deliveries  
 HGV proportion

|              | range     |           |
|--------------|-----------|-----------|
|              | One way   | two way   |
|              | 20        | 40        |
|              | 6         | 12        |
|              | 4         | 8         |
| <b>Total</b> | <b>30</b> | <b>60</b> |

fuel deliveries  
 delivery vehicles out of peak hours - so between 9am and 3pm

|     |            |
|-----|------------|
|     | 1 per week |
| 80% | 24 48      |

So for 50 dwellings being built at a time the following profile would be appropriate

|              | 07:00-08:00 | 08:00-09:00 | 09:00 | 10:00 | 11:00 | 12:00 | 13:00 | 14:00 | 15:00 | 16:00 | 17:00 | 18:00 | Total |
|--------------|-------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Operatives   | 64          | 8           |       | 8     |       | 8     |       | 8     |       | 21    | 21    | 21    | 160   |
| Delivery     |             |             | 9     | 9     | 9     | 9     | 9     | 9     | 9     |       |       |       | 60    |
| Of which HGV |             |             | 7     | 7     | 7     | 7     | 7     | 7     | 7     |       |       |       | 48    |

| Route                                   | Operates | Delivery | movemer | HGVs              |
|---|----------|----------|---------|-------------------|
| A27, Cams Hill                          | 60% 77   |          | 48      | 38 End of network |
| Downed Road                             | 0% 0     |          | 0       | 0 East 77         |
| A27, Portchester Road West (West of Bea | 60% 77   |          | 48      | 38 West 83        |
| A27, Portchester Road East (at Cornaway | 40% 51   |          | 12      | 10 Total 160      |
| Dore Avenue                             | 0 0      |          | 0       | 0                 |
| A27, West Street                        |          | 83       | 12      | 10                |
| Romsey Avenue (West of Site Access)     | 80% 128  |          | 60      | 48                |
| Romsey Avenue (East of Site Access)     | 20% 32   |          | 0       | 0                 |
| Beaulieu Avenue                         | 80% 128  |          | 60      | 48                |
| Hatherley Crescent                      | 20% 32   |          | 0       | 0                 |
| Cornaway Lane                           | 20% 32   |          | 0       | 0                 |