

East Anglia THREE

# Appendix 27.9

HGV and employee traffic assigned to  
the construction programme (Single  
Phase)

**Environmental Statement**

Volume 3

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**Appendix 27.09 - HGV and employee movements assigned to the construction programme (Single Phase)**

**Table 1 - Average daily HGV deliveries (Section 1)**

Activity	Total Working Days	Total HGVs deliveries*	Week																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Establish primary construction compounds and site access points	0	0																													
Site preparation including fencing and haul road construction.	40	332		9	9	9	9	9	9	9																					
Establish intermediate construction compounds	0	0																													
Excavate pre installed ducts and jointing pits, install cables and reinstate	40	510									13	13	13	13	13	13	13														
Carry out HDDs	0	0																													
Removal of the haul road, reseeding etc	40	332																9	9	9	9	9	9	9	9						
Demobilisation of intermediate compounds	0	0																													
Demobilisation of primary compounds	0	0																													
<b>Total HGV deliveries per day</b>			0	9	9	9	9	9	9	9	22	22	13	13	13	13	13	22	9	9	9	9	9	9	9	0	0	0	0	0	0
<b>Total two-way HGV movements per day</b>			0	18	18	18	18	18	18	18	44	44	26	26	26	26	26	44	18	18	18	18	18	18	18	0	0	0	0	0	0

\*Numbers obtained from Appendix 27.5 Table 2

**Table 2 - Average daily personnel requirements (Section 1)**

Activity	Total Working Days	Total Person Days **	Week																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Establish primary construction compounds and site access points	0	0																													
Site preparation including fencing and haul road construction.	30	258		15	15	15	15	15	15	15																					
Establish intermediate construction compounds	0	0																													
Excavate pre installed ducts and jointing pits, install cables and reinstate	25	500									20	20	20	20	20	20	20														
Carry out HDDs	0	0																													
Removal of the haul road, reseeding etc	30	450																15	15	15	15	15	15	15							
Demobilisation of intermediate compounds	0	0																													
Demobilisation of primary compounds	0	0																													
Administration of site compounds	0	0																													
<b>Total Employees per day</b>			0	15	15	15	15	15	15	15	35	35	20	20	20	20	20	35	15	15	15	15	15	15	15	0	0	0	0	0	0

\*\* Numbers derived by construction consultant AECOM

**Table 3 - Average daily HGV deliveries (Section 2)**

Activity	Total Working Days	Total HGVs deliveries*	Week																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Establish primary construction compounds and site access points	0	0																													
Site preparation including fencing and haul road construction.	20	129				7	7	7	7																						
Establish intermediate construction compounds	5	60			12																										
Excavate pre installed ducts and jointing pits, install cables and reinstate	20	387					20	20	20	20																					
Carry out HDDs	0	0																													
Removal of the haul road, reseeding etc	20	129									7	7	7	7																	
Demobilisation of intermediate compounds	5	60													12																
Demobilisation of primary compounds	0	0																													
<b>Total HGV deliveries per day</b>			0	0	12	7	27	27	27	27	27	7	7	7	7	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total two-way HGV movements per day</b>			0	0	24	14	54	54	54	54	14	14	14	14	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

\*Numbers obtained from Appendix 27.5 Table 2

**Table 4 - Average daily personnel requirements (Section 2)**

Activity	Total Working Days	Total Person Days **	Week																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29				
Establish primary construction compounds and site access points	0	0																																	
Site preparation including fencing and haul road construction.	20	300					15	15	15	15																									
Establish intermediate construction compounds	5	50			10																														
Excavate pre installed ducts and jointing pits, install cables and reinstate	20	400					20	20	20	20																									
Carry out HDDs	0	0																																	
Removal of the haul road, reseeding etc	20	300								15	15	15	15																						
Demobilisation of intermediate compounds	5	50																																	
Demobilisation of primary compounds	0	0																																	
Administration of site compounds	45	225			5	5	5	5	5	5	5	5	5																						
Total Employees per day			0	0	15	20	40	40	55	40	20	20	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

\*\* Numbers derived by construction consultant AECOM

**Table 5 - Average daily HGV deliveries (Section 3)**

Activity	Total Working Days	Total HGVs deliveries*	Week																																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29					
Establish primary construction compounds and site access points	0	0																																		
Site preparation including fencing and haul road construction.	20	154								8	8	8	8																							
Establish intermediate construction compounds	5	60							12																											
Excavate pre installed ducts and jointing pits, install cables and reinstate	20	330									17	17	17	17																						
Carry out HDDs	0	0																																		
Removal of the haul road, reseeding etc	20	154											8	8	8	8																				
Demobilisation of intermediate compounds	5	60																																		
Demobilisation of primary compounds	0	0																																		
Total HGV deliveries per day			0	0	0	0	0	12	8	25	25	33	25	8	8	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total two-way HGV movements per day			0	0	0	0	0	24	16	50	50	66	50	16	16	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\*Numbers obtained from Appendix 27.5 Table 2

**Table 6 - Average daily personnel requirements (Section 3)**

Activity	Total Working Days	Total Person Days **	Week																																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29					
Establish primary construction compounds and site access points	0	0																																		
Site preparation including fencing and haul road construction.	20	300								15	15	15	15																							
Establish intermediate construction compounds	5	50							10																											
Excavate pre installed ducts and jointing pits, install cables and reinstate	20	400									20	20	20	20																						
Carry out HDDs	0	0																																		
Removal of the haul road, reseeding etc	20	300											15	15	15	15																				
Demobilisation of intermediate compounds	5	50																																		
Demobilisation of primary compounds	0	0																																		
Administration of site compounds	45	225								5	5	5	5	5	5	5	5	5	5																	
Total Employees per day			0	0	0	0	0	15	20	40	40	55	40	20	20	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\*\* Numbers derived by construction consultant AECOM

**Table 7 - Average daily HGV deliveries (Section 4)**

Activity	Total Working Days	Total HGVs deliveries*	Week																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Establish primary construction compounds and site access points	0	0																													
Site preparation including fencing and haul road construction.	20	396										20	20	20	20																
Establish intermediate construction compounds	0	0																													
Excavate pre installed ducts and jointing pits, install cables and reinstate	20	318										16	16	16	16																
Carry out HDDs	0	0																													
Removal of the haul road, reseeding etc	20	396												20	20	20	20														
Demobilisation of intermediate compounds	0	0																													
Demobilisation of primary compounds	0	0																													
Total HGV deliveries per day			0	0	0	0	0	0	0	0	0	20	36	56	56	36	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total two-way HGV movements per day			0	0	0	0	0	0	0	0	0	40	72	112	112	72	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\*Numbers obtained from Appendix 27.5 Table 2

**Table 8 - Average daily personnel requirements (Section 4)**

Activity	Total Working Days	Total Person Days **	Week																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Establish primary construction compounds and site access points	0	0																													
Site preparation including fencing and haul road construction.	20	300										15	15	15	15																
Establish intermediate construction compounds	0	0																													
Excavate pre installed ducts and jointing pits, install cables and reinstate	20	400										20	20	20	20																
Carry out HDDs	0	0																													
Removal of the haul road, reseeding etc	20	300												15	15	15	15														
Demobilisation of intermediate compounds	0	0																													
Demobilisation of primary compounds	0	0																													
Administration of site compounds	0	0																													
Total Employees per day			0	0	0	0	0	0	0	0	0	15	35	50	50	35	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\*\* Numbers derived by construction consultant AECOM

**Table 9 - Average daily HGV deliveries (Section 5)**

Activity	Total Working Days	Total HGVs deliveries*	Week																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Establish primary construction compounds and site access points	10	138	14	14																											
Site preparation including fencing and haul road construction.	5	28												6																	
Establish intermediate construction compounds	0	0																													
Excavate pre installed ducts and jointing pits, install cables and reinstate	15	226												16	16	16															
Carry out HDDs	0	0																													
Removal of the haul road, reseeding etc	5	28														6															
Demobilisation of intermediate compounds	0	0																													
Demobilisation of primary compounds	10	138																14	14												
Total HGV deliveries per day			14	14	0	0	0	0	0	0	0	0	0	22	16	22	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0
Total two-way HGV movements per day			28	28	0	0	0	0	0	0	0	0	0	44	32	44	28	28	0	0	0	0	0	0	0	0	0	0	0	0	0

\*Numbers obtained from Appendix 27.5 Table 2



**Table 13 - Average daily HGV deliveries (Section 7)**

Activity	Total Working Days	Total HGVs deliveries*	Week																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Establish primary construction compounds and site access points	0	0																													
Site preparation including fencing and haul road construction.	10	166																17	17												
Establish intermediate construction compounds	5	60														12															
Excavate pre installed ducts and jointing pits, install cables and reinstate	20	398																20	20	20	20										
Carry out HDDs	0	0																													
Removal of the haul road, reseeding etc	10	176																			17	17									
Demobilisation of intermediate compounds	5	60																						12							
Demobilisation of primary compounds	0	0																													
Total HGV deliveries per day			0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	17	37	20	20	37	17	12	0	0	0	0	0	0	0
Total two-way HGV movements per day			0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	34	74	40	40	74	34	24	0	0	0	0	0	0	0

\*Numbers obtained from Appendix 27.5 Table 2

**Table 14 - Average daily personnel requirements (Section 7)**

Activity	Total Working Days	Total Person Days **	Week																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Establish primary construction compounds and site access points x 2	0	0																													
Site preparation including fencing and haul road construction.	10	176																18	18												
Establish intermediate construction compounds x 5	5	50														10															
Excavate pre installed ducts and jointing pits, install cables and reinstate	20	400																20	20	20	20										
Carry out HDDs	0	0																													
Removal of the haul road, reseeding etc	10	176																			18	18									
Demobilisation of intermediate compounds x 5	5	50																					10								
Demobilisation of primary compounds x 2	0	0																													
Administration of site compounds	40	200															5	5	5	5	5	5	5	5							
Total Employees per day			0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	23	43	25	25	43	23	15	0	0	0	0	0	0	0

\*\* Numbers derived by construction consultant AECOM

**Table 15 - Average daily HGV deliveries (Section 8)**

Activity	Total Working Days	Total HGVs deliveries*	Week																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Establish primary construction compounds and site access points	0	0																													
Site preparation including fencing and haul road construction.	35	704													21	21	21	21	21	21											
Establish intermediate construction compounds	5	60															12														
Excavate pre installed ducts and jointing pits, install cables and reinstate	30	578																		20	20	20	20	20	20						
Carry out HDDs	0	0																													
Removal of the haul road, reseeding etc	35	704																							21	21	21	21	21	21	21
Demobilisation of intermediate compounds	5	60																									12				
Demobilisation of primary compounds	0	0																													
Total HGV deliveries per day			0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	33	21	41	41	20	20	20	41	21	21	33	21	21	21
Total two-way HGV movements per day			0	0	0	0	0	0	0	0	0	0	0	0	42	42	42	66	42	82	82	40	40	40	82	42	42	66	42	42	42

\*Numbers obtained from Appendix 27.5 Table 2

**Table 16 - Average daily personnel requirements (Section 8)**

Activity	Total Working Days	Total Person Days **	Week																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Establish primary construction compounds and site access points	0	0																													
Site preparation including fencing and haul road construction.	15	225												15	15	15	15	15	15	15											
Establish intermediate construction compounds	5	50														10															
Excavate pre installed ducts and jointing pits, install cables and reinstate	30	600																	20	20	20	20	20	20							
Carry out HDDs	0	0																													
Removal of the haul road, reseeding etc	15	225																						15	15	15	15	15	15	15	15
Demobilisation of intermediate compounds	5	50																										10			
Demobilisation of primary compounds	0	0																													
Administration of site compounds	55	275															5	5	5	5	5	5	5	5	5	5	5	5			
Total Employees per day			0	0	0	0	0	0	0	0	0	0	0	15	15	15	30	20	40	40	25	25	25	40	20	20	30	15	15	15	

\*\* Numbers derived by construction consultant AECOM

**Table 17 - Average daily HGV deliveries (Section 9)**

Activity	Total Working Days	Total HGVs deliveries*	Week																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Establish primary construction compounds and site access points	10	138												14	14																
Site preparation including fencing and haul road construction.	15	135																			9	9	9								
Establish intermediate construction compounds	0	0																													
Excavate pre installed ducts and jointing pits, install cables and reinstate	10	117																					12	12							
Carry out HDDs	0	0																													
Removal of the haul road, reseeding etc	15	135																						9	9	9					
Demobilisation of intermediate compounds	0	0																													
Demobilisation of primary compounds	10	138																											14	14	
Total HGV deliveries per day			0	0	0	0	0	0	0	0	0	0	14	14	0	0	0	0	0	0	9	9	9	12	21	9	9	0	14	14	
Total two-way HGV movements per day			0	0	0	0	0	0	0	0	0	0	28	28	0	0	0	0	0	0	18	18	18	24	42	18	18	0	28	28	

\*Numbers obtained from Appendix 27.5 Table 2

**Table 18 - Average daily personnel requirements (Section 9)**

Activity	Total Working Days	Total Person Days **	Week																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Establish primary construction compounds and site access points	10	100												10	10																
Site preparation including fencing and haul road construction.	5	225																				15	15	15							
Establish intermediate construction compounds	0	0																													
Excavate pre installed ducts and jointing pits, install cables and reinstate	5	100																					20								
Carry out HDDs	0	0																													
Removal of the haul road, reseeding etc	5	225																						15	15	15					
Demobilisation of intermediate compounds	0	0																													
Demobilisation of primary compounds	10	100																												10	10
Administration of site compounds	85	850												10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Total Employees per day			0	0	0	0	0	0	0	0	0	0	0	20	20	10	10	10	10	10	10	25	25	25	30	25	25	25	10	20	20

\*\* Numbers derived by construction consultant AECOM



**Table 19 - Average daily HGV deliveries (Section 10)**

Activity	Total Working Days	Total HGVs deliveries*	Week																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Establish primary construction compounds and site access points	0	0																													
Site preparation including fencing and haul road construction.	15	129																					9	9	9						
Establish intermediate construction compounds	0	0																													
Excavate pre installed ducts and jointing pits, install cables and reinstate	20	332																							17	17	17	17			
Carry out HDDs	0	0																													
Removal of the haul road, reseeding etc	15	129																											9	9	9
Demobilisation of intermediate compounds	0	0																													
Demobilisation of primary compounds	0	0																													
Total HGV deliveries per day			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9	26	17	17	26	25	9
Total two-way HGV movements per day			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	18	52	34	34	52	50	18

\*Numbers obtained from Appendix 27.5 Table 2

**Table 20 - Average daily personnel requirements (Section 10)**

Activity	Total Working Days	Total Person Days **	Week																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Establish primary construction compounds and site access points	0	0																													
Site preparation including fencing and haul road construction.	10	150																							15	15					
Establish intermediate construction compounds	0	0																													
Excavate pre installed ducts and jointing pits, install cables and reinstate	20	400																							20	20	20	20			
Carry out HDDs	0	0																													
Removal of the haul road, reseeding etc	10	150																											15	15	
Demobilisation of intermediate compounds	0	0																													
Demobilisation of primary compounds	0	0																													
Administration of site compounds	0	0																													
Total Employees per day			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	35	20	20	35	15	0	

\*\* Numbers derived by construction consultant AECOM

**Table 21 - Average daily HGV deliveries (Section 11)**

Activity	Total Working Days	Total HGVs deliveries*	Week																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
Establish primary construction compounds and site access points	0	0																															
Site preparation including fencing and haul road construction.	25	210																					9	9	9	9	9						
Establish intermediate construction compounds	5	60																								12							
Excavate pre installed ducts and jointing pits, install cables and reinstate	5	109																									22						
Carry out HDDs	0	0																															
Removal of the haul road, reseeding etc	25	210																											9	9	9	9	9
Demobilisation of intermediate compounds	5	60																									12						
Demobilisation of primary compounds	0	0																															
Total HGV deliveries per day			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9	9	9	9	12	43	9	9	9	9	
Total two-way HGV movements per day			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	18	18	18	18	24	86	18	18	18	18	

\*Numbers obtained from Appendix 27.5 Table 2

**Table 22 - Average daily personnel requirements (Section 11)**

Activity	Total Working Days	Total Person Days **	Week																																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29						
Establish primary construction compounds and site access points	0	0																																			
Site preparation including fencing and haul road construction.	0	375																			15	15	15	15	15												
Establish intermediate construction compounds	5	50																							10												
Excavate pre installed ducts and jointing pits, install cables and reinstate	5	100																									20										
Carry out HDDs	0	0																																			
Removal of the haul road, reseeding etc	0	375																									15	15	15	15	15						
Demobilisation of intermediate compounds	5	50																								10											
Demobilisation of primary compounds	0	0																																			
Administration of site compounds	15	75																											5	5	5						
<b>Total Employees per day</b>			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15	15	15	15	10	45	15	30	40	20

\*\* Numbers derived by construction consultant AECOM

**Table 23a - Total HGV deliveries per section**

Activity	Week																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
Section 1		9	9	9	9	9	9	22	22	13	13	13	13	13	22	9	9	9	9	9	
Section 2			12	7	27	27	27	7	7	7	12										
Section 3						12	8	25	25	33	25	8	8	12							
Section 4										20	36	56	56	36	20						
Section 5	14	14										22	16	22	14	14					
Section 6											13	13	18	18	18	13	13				
Section 7															12	17	37	20	20	37	
Section 8													21	21	21	33	21	41	41	20	
Section 9													14	14						9	
Section 10																					
Section 11																				9	9
<b>Total HGVs per day</b>	14	23	21	16	36	48	44	74	54	73	94	124	146	136	107	86	80	70	79	84	

**Table 23b - Total HGV deliveries per section**

Activity	Week									Compound	HGVs			two-way HGV movements		
	21	22	23	24	25	26	27	28	29		Peak	Average	Total	Peak	Average	Total
Section 1	9	9								E	22	12	215	44	24	430
Section 2									27		16	54		32		
Section 3									33		17	66		35		
Section 4									56		37	112		75		
Section 5									22		17	44		33		
Section 6									18		15	36		30		
Section 7	17	12							37		22	74		43		
Section 8	20	20	41	21	21	33	21	21	21	B	41	26	131	82	52	262
Section 9	9	9	12	21	9	9		14	14		21	12		42	24	
Section 10		9	9	26	17	17	26	25	9		26	17		52	35	
Section 11	9	9	9	12	43	9	9	9	9		43	12		86	25	
<b>Total HGVs per day</b>	64	68	71	80	90	68	56	69	53							

**Table 24a - Total resource requirements per section**

Activity	Week																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Section 1		15	15	15	15	15	15	35	35	20	20	20	20	20	35	15	15	15	15	15
Section 2			15	20	40	40	55	40	20	20	15									
Section 3						15	20	40	40	55	40	20	20	15						
Section 4										15	35	50	50	35	15					
Section 5	20	20										25	30	45	40	20				
Section 6											15	15	20	20	20	15	15			
Section 7															15	23	43	25	25	43
Section 8													15	15	15	30	20	40	40	25
Section 9													20	20						25
Section 10																				
Section 11																			15	15
Total Employees per day	20	35	40	45	65	80	100	125	105	120	135	130	175	170	150	113	103	90	105	123

**Table 24b - Total resource requirements per section**

Activity	Week									employees			vehicles movements (two-way) ***			
	21	22	23	24	25	26	27	28	29	Peak	Average	Total	Peak	Average	Total	
Section 1	15	15								Compound E	35	19	303	28	15	242
Section 2									55		29	44		24		
Section 3									55		29	44		24		
Section 4									50		33	40		27		
Section 5									45		29	36		23		
Section 6									20		17	16		14		
Section 7	23	15							43		27	34		21		
Section 8	25	25	40	20	20	30	15	15	15	Access AC, AD	40	24	32	19	120	
Section 9	25	25	30	25	25	25	20	20	20	Compound B	30	24	24	19		
Section 10			15	35	20	20	35	15		35	23	28	19			
Section 11	15	15	15	10	45	15	30	40	20	Access AL	45	21	36	17		
Total Employees per day	103	95	100	90	110	90	90	90	55							

\*\*\* Numbers employees divided by 2.5 (employee to vehicle ratio) and multiplied by 2 to get two-way movements

**Table 25a - Substation total HGV deliveries**

Activity	Total Working Days	Total HGVs deliveries ****	Week																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Site preparation including clearance	30	70	3	3	3	3																											
Main Substation building construction (2No.)	155	813				6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
Control room building construction	65	52								1	1	1	1	1	1	1	1	1	1	1	1	1	1										
Spare storage building and MV interface building construction	55	17																						1	1	1	1	1	1	1	1	1	
External blast walls construction and plinths for external plant construction	65	171																									3	3	3	3	3	3	
Concrete hardstanding access road construction	40	238						6	6	6	6	6	6																				
Car parking construction	15	8																															
Mechanical and Electrical fit out (7 abnormal loads required)	85	152																												2	2	2	2
Commissioning	60	0																															
Demobilise Construction Site	30	70																															
Total HGVs per day			3	3	3	3	6	6	12	12	13	13	13	13	13	7	7	7	7	7	7	7	7	7	7	10	10	12	12	12	12		
Total two-way HGV movements per day			6	6	6	6	12	12	24	24	26	26	26	26	26	14	14	14	14	14	14	14	14	14	14	20	20	24	24	24	24		

\*\*\*\* Numbers obtained from Appendix 27.7

**Table 25b - Substation total HGV deliveries**

Activity	Total Working Days	Total HGVs deliveries*	Week																								
			31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
Site preparation including clearance	30	70																									
Main Substation building construction (2No.)	155	813	6	6	6	6	6																				
Control room building construction	65	52																									
Spare storage building and MV interface building construction	55	17	1	1																							
External blast walls construction and plinths for external plant construction	65	171	3	3	3	3	3	3	3																		
Concrete hardstanding access road construction	40	238																									
Car parking construction	15	8										1	1	1													
Mechanical and Electrical fit out (7 abnormal loads required)	85	152	2	2	2	2	2	2	2	2	2	2	2	2	2												
Commissioning	60	0																									
Demobilise Construction Site	30	70																									
Total HGVs per day			12	12	11	11	11	5	5	3	3	3	2	2	2	3	3	3	3	0	0	0	0	0	0	0	0
Total two-way HGV movements per day			24	24	22	22	22	10	10	6	6	6	4	4	4	6	6	6	6	0	0	0	0	0	0	0	0

\*\*\*\* Numbers obtained from Appendix 27.7

**Table 26a - Substation total resource requirements**

Activity	Total Working Days	Total Person Days **	Week																													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Site preparation including clearance	30	300	10	10	10	10																										
Main Substation building construction (2No.)	155	3,875					25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Control room building construction	65	1,300										20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
Spare storage building and MV interface building construction	55	1,100																														
External blast walls construction and plinths for external plant construction	65	650																														
Concrete hardstanding access road construction	40	400																														
Car parking construction	15	150																														
Mechanical and Electrical fit out	85	1,700																														
Commissioning	60	1,200																														
Demobilise Construction Site	30	300																														
Total Employees per day			10	10	10	10	25	25	35	35	55	55	55	55	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
Vehicle movements per day (two-way) ***			8	8	8	8	20	20	28	28	44	44	44	44	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	

\*\* Numbers derived by construction consultant AECOM

\*\*\* Numbers employees divided by 2.5 (employee to vehicle ratio) and multiplied by 2 to get two-way movements

**Table 26b - Substation total resource requirements**

Activity	Total Working Days	Total Person Days **	Week																												
			31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55				
Site preparation including clearance	30	300																													
Main Substation building construction (2No.)	155	3,875	25	25	25	25	25																								
Control room building construction	65	1,300																													
Spare storage building and MV interface building construction	55	1,100	20	20																											
External blast walls construction and plinths for external plant construction	65	650	10	10	10	10	10	10	10																						
Concrete hardstanding access road construction	40	400																													
Car parking construction	15	150																													
Mechanical and Electrical fit out	85	1,700	20	20	20	20	20	20	20	20	20	20	20	20	20																
Commissioning	60	1,200																													
Demobilise Construction Site	30	300																													
Total Employees per day			75	75	55	55	55	30	30	30	30	30	20	20	20	30	30	30	30	30	20	20	20	20	20	20	20	20	20	20	
Vehicle movements per day (two-way) ***			60	60	44	44	44	24	24	24	24	24	16	16	16	24	24	24	24	16	16	16	16	16	16	16	16	16	16	16	

\*\* Numbers derived by construction consultant AECOM

\*\*\* Numbers employees divided by 2.5 (employee to vehicle ratio) and multiplied by 2 to get two-way movements

**Appendix 27.8 ends here**