

Construction Traffic Assessment

Highbury Redevelopment - Revised Assessment May 2006

No. of working days per month **23**
 No. of hours per day **8.5**

Notes.

1. Vehicle movement assessment provided by AYH.
2. Assume vehicle movements are evenly spread throughout each activity.
3. Assume vehicle movements are evenly spread throughout each day
4. Assume PCU factor of 2.0

Calculation of vehicles required for excavation
 Excavation (Source: SRM) 136000 m3
 Capacity of 32 Ton Tipper 15 m3

Activity	Start month	End month	Duration	Use of Equipment	Car/pickup/3 .5 Ton van	7.5 Ton Box van/panel van	Low loader & artic	Ready mix concrete truck	Mobile crane	Skip lorry	32 Ton Tipper truck	Totals
Secure site fencing	1	1	1	Light tools and power tools	5	5				1		11
Disconnection of services	1	1	1	Light tools and power tools		20				1		21
Soft strip demolition	1	2	2	Light tools and power tools							50	50
Asbestos removal	1	2	2	Light tools and power tools						10		10
Demolition of structures	2	6	5	Mobile cranes, excavators, specialist "mun	80	20	5			25	1,900	2,030
Break out foundations and ground slabs	4	9	6	Excavators, breakers	150	150	10			6	749	1,065
Reduced level dig and cart away	4	13	10	Excavators	120	40	6			6	9,067	9,239
Piling	3	13	11	Piling rigs	160	80	8	1,270		8	762	2,289
Pile caps and ground slabs	4	20	17	Excavators / mobile and tower cranes	160	80	2	1,420		6		1,668
Structure	6	23	18	Tower / mobile cranes	1,040	520	472	3,971	10	104		6,117
Roof and wall cladding	11	27	17	Scaffold, tower / mobile cranes	240		56			10		306
Internal mechanical and electrical services	11	32	22	Power tools	480	700	35		4	24		1,243
Fit out and facilities	11	32	22	Light power	357	3,568	109			143		4,177
External works	18	32	15	Excavators, dumpers, cutting equipment	200	200	5	100		40	897	1,442
Test and commission	20	34	15		120							120
Handover	22	34	13									-
12 month defect period	0	0	0									-
Total					3,112	5,383	708	6,762	14	384	13,425	29,788

Activity	Vehicle Trips Per Month															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Secure site fencing	11															
Disconnection of services	21															
Soft strip demolition	25	25														
Asbestos removal	5	5														
Demolition of structures		406	406	406	406	406										
Break out foundations and ground slabs				177	177	177	177	177	177							
Reduced level dig and cart away				924	924	924	924	924	924	924	924	924				
Piling			208	208	208	208	208	208	208	208	208	208				
Pile caps and ground slabs				98	98	98	98	98	98	98	98	98	98	98	98	98
Structure						340	340	340	340	340	340	340	340	340	340	340
Roof and wall cladding											18	18	18	18	18	18
Internal mechanical and electrical services											57	57	57	57	57	57
Fit out and facilities											190	190	190	190	190	190
External works																
Test and commission																
Handover																
12 month defect period																
Total Trips per Month	62	436	614	1814	1814	2153	1747	1747	1747	1570	1834	1834	1834	702	702	702
Total Trips per Day	3	19	27	79	79	94	76	76	76	68	80	80	80	31	31	31
Total Trips per Hour	0	2	3	9	9	11	9	9	9	8	9	9	9	4	4	4
Total movements per hour - IN	0	2	3	9	9	11	9	9	9	8	9	9	9	4	4	4
Total movements per hour - OUT	0	2	3	9	9	11	9	9	9	8	9	9	9	4	4	4

Activity	Vehicle Trips Per Month															
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Secure site fencing																
Disconnection of services																
Soft strip demolition																
Asbestos removal																
Demolition of structures																
Break out foundations and ground slabs																
Reduced level dig and cart away																
Piling																
Pile caps and ground slabs	98	98	98	98												
Structure	340	340	340	340	340	340	340									
Roof and wall cladding	18	18	18	18	18	18	18	18	18	18	18					
Internal mechanical and electrical services	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
Fit out and facilities	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190

External works		96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Test and commission				8	8	8	8	8	8	8	8	8	8	8	8	8
Handover						0	0	0	0	0	0	0	0	0	0	0
12 month defect period																0
Total Trips per Month	702	798	798	806	708	708	708	368	368	368	368	350	350	350	350	350
Total Trips per Day	31	35	35	35	31	31	31	16	16	16	16	15	15	15	15	15
Total Trips per Hour	4	4	4	4	4	4	4	2	2	2	2	2	2	2	2	2
Total movements per hour - IN	4	4	4	4	4	4	4	2	2	2	2	2	2	2	2	2
Total movements per hour - OUT	4	4	4	4	4	4	4	2	2	2	2	2	2	2	2	2

Activity	Vehicle Trips Per Month											Total	
	33	34	35	36	37	38	39	40	41	42-53			
Secure site fencing													11
Disconnection of services													21
Soft strip demolition													50
Asbestos removal													10
Demolition of structures													2030
Break out foundations and ground slabs													1065
Reduced level dig and court away													9239
Piling													2289
Pile caps and ground slabs													1668
Structure													6117
Roof and wall cladding													306
Internal mechanical and electrical services													1243
Fit out and facilities													4177
External works													1442
Test and commission	8	8											120
Handover	0	0											0
12 month defect period													0
Total Trips per Month	8	8	0	0	0	0	0	0	0	0	0	0	29788
Total Trips per Day	0	0	0	0	0	0	0	0	0	0	0	0	1295
Total Trips per Hour	0	0	0	0	0	0	0	0	0	0	0	0	152
Total movements per hour - IN	0	0	0	0	0	0	0	0	0	0	0	0	152
Total movements per hour - OUT	0	0	0	0	0	0	0	0	0	0	0	0	152

Max no. of HGV movements in one month	Vehicles	PCUs
Daily Movements - IN	94	188
Daily Movements - OUT	94	188

Max no. of HGV movements in one month	Vehicles	PCUs
Hourly Movements - IN	11	22
Hourly Movements - OUT	11	22