



# OAKLANDS FARM SOLAR PARK

Applicant: Oaklands Farm Solar Ltd

Environmental Statement

Appendix 10.5 – Average Annualised Daily (AADT) and Weekly (AAWT)  
Traffic Survey Analysis

January 2024

Document Ref: EN010122/APP/6.1/Appx 10.5

Revision: -

Planning Act 2008

Infrastructure Planning (Application: Prescribed Forms and  
Procedure) Regulations 2009 - 5(2)(a)



# Oaklands Farm Solar Park - Environmental Statement Volume 3

## Appendix 10.5: AADT & AAWT Traffic Survey Analysis

### **Final report**

Prepared by LUC

January 2024

## Appendix 10.5

### AADT and AAWT Traffic Survey Analysis

Analysis of the traffic survey data to calculate baseline and future Average Annual Daily Traffic and Average Annual Weekday Traffic levels on assessed roads.

Assessment year 2022

Average Day - Lights (Two Way)

Site	Survey year														
	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021
Yearly factor	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092
0	80	80	14	0	-2	-2	14	10	24	10	19	1	4	2	
1	48	17	9	2	1	1	8	9	12	9	10	1	2	1	
2	54	10	4	2	1	1	3	3	9	3	10	1	1	1	2
3	38	13	7	2	1	2	3	2	4	4	15	2	2	1	
4	39	32	21	3	1	5	8	9	21	23	32	3	4	3	
5	256	172	89	16	13	9	19	26	67	51	159	11	22	12	
6	239	336	166	30	30	31	53	61	144	146	297	31	50	34	
7	624	440	284	110	64	81	158	200	381	321	460	85	125	62	
8	793	453	284	172	86	78	179	248	457	388	430	87	138	93	
9	758	308	172	163	53	58	125	177	347	292	280	64	90	65	
10	812	272	154	157	63	58	119	169	338	272	241	61	73	61	
11	833	294	169	154	51	58	116	184	348	284	257	69	76	64	
12	864	316	180	153	53	65	146	203	384	317	321	69	81	72	
13	912	360	204	156	57	67	137	186	293	317	328	70	82	69	
14	977	440	252	158	59	64	152	207	433	338	381	78	89	76	
15	1014	465	271	181	66	77	172	233	458	336	433	85	119	82	
16	1037	514	305	188	82	104	229	306	564	435	517	123	143	97	
17	1041	548	314	163	89	103	235	294	541	409	502	119	143	102	
18	877	327	183	118	48	58	132	183	337	263	310	58	97	57	
19	652	208	112	70	31	25	58	86	175	167	187	32	45	36	
20	497	113	56	42	17	17	38	56	108	108	115	21	29	20	
21	379	112	52	29	14	15	84	91	129	78	97	18	22	12	
22	296	111	53	29	16	9	96	103	128	66	93	10	18	11	
23	133	65	32	8	8	7	59	62	68	27	40	4	9	4	
<b>Total</b>	<b>18471</b>	<b>5899</b>	<b>3386</b>	<b>2102</b>	<b>897</b>	<b>984</b>	<b>2339</b>	<b>3111</b>	<b>5879</b>	<b>4672</b>	<b>5450</b>	<b>1101</b>	<b>1489</b>	<b>1021</b>	

Hour beginning

Assessment year 2022

Average Day - Heavies (Two Way)

Site	Survey year														
	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021
Yearly factor	1.0092	1.0092	1.0092	1.0092	1.0271	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0
4	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0
5	8	8	0	1	0	0	0	0	0	1	1	1	3	0	0
6	13	11	3	2	0	0	0	0	1	4	7	1	0	0	0
7	22	5	11	4	1	1	3	4	16	13	5	1	2	1	
8	31	7	10	3	1	2	5	10	24	13	4	4	1	1	
9	26	6	9	4	3	2	5	9	22	13	3	2	1	1	
10	28	5	9	2	1	2	7	9	20	11	4	3	2	2	
11	25	9	9	3	1	2	5	8	23	12	3	2	1	1	
12	28	8	9	3	1	2	4	7	18	12	5	3	1	1	
13	21	7	10	2	1	1	3	3	17	12	3	2	2	1	
14	32	5	8	2	1	1	2	3	16	11	4	2	1	1	
15	32	4	4	2	1	1	3	5	18	10	4	2	1	0	
16	28	5	4	2	0	2	3	6	18	9	4	2	1	1	
17	23	3	4	0	1	1	1	4	10	7	4	1	1	1	
18	21	3	2	1	0	1	2	3	9	3	2	1	1	1	
19	8	1	1	0	0	0	1	1	3	3	0	0	0	0	
20	4	0	1	0	0	0	0	1	2	4	0	0	0	0	
21	0	0	0	0	0	0	0	0	1	1	1	1	0	0	
22	0	0	0	0	0	0	0	1	1	1	0	0	0	0	
23	0	0	0	0	0	0	0	1	2	1	0	0	0	0	
<b>Total</b>	<b>891</b>	<b>77</b>	<b>96</b>	<b>32</b>	<b>10</b>	<b>20</b>	<b>41</b>	<b>79</b>	<b>220</b>	<b>153</b>	<b>46</b>	<b>29</b>	<b>15</b>	<b>11</b>	

Hour beginning

Assessment year 2022

Average Day - Total Traffic (Two Way)

Site	Survey year														
	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021
Yearly factor	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092	1.0092
0	82	24	14	4	2	2	14	10	25	10	23	17	19	1	4
1	50	17	9	2	1	1	8	9	12	9	10	1	2	1	
2	54	10	4	2	1	1	3	3	9	3	10	1	1	1	2
3	38	13	7	2	1	2	3	2	4	4	15	2	2	1	
4	39	32	21	3	1	5	8	9	21	24	32	3	4	3	
5	244	172	89	16	13	9	19	26	68	54	159	11	22	12	
6	236	336	166	30	30	31	53	61	144	146	297	31	50	34	
7	626	440	284	114	69	82	161	204	388	336	460	86	129	62	
8	824	462	293	172	87	80	184	257	481	401	434	91	137	94	
9	824	308	172	163	53	58	125	177	347	292	280	64	90	65	
10	846	276	163	159	57	60	130	178	338	284	249	69	78	63	
11	864	303	173	157	52	60	122	192	372	296	260	70	77	63	
12	892	324	189	159	57	67	151	210	400	328	326	72	82	75	
13	942	366	204	156	62	68	138	189	405	326	321	72	84	71	
14	1009	447	264	158	60	69	154	211	445	349	383	80	90	77	
15	1046	470	275	183	67	78	175	239	476	360	457	87	120	82	
16	1040	528	307	188	82	104	234	306	565	428	521	122	144	98	
17	1066	551	317	163	90	104	237	297	551	416	508	118	148	102	
18	898	338	185	120	49	59	135	186	345	269	312	58	97	58	
19	702	207	112	70	31	28	59	87	178	172	188	32	46	36	
20	474	113	56	42	17	18	38	57	110	112	118	21	29	20	
21	385	112	52	30	14	15	84	92	131	77	98	18	22	12	
22	299	111	53	21	17	9	97	104	129	60	93	11	18	11	
23	135	64	32	8	8	7	60	64	68	27	40	4	9	4	
<b>Total</b>	<b>13829</b>	<b>5971</b>	<b>3482</b>	<b>2131</b>	<b>972</b>	<b>1000</b>	<b>2389</b>	<b>3190</b>	<b>6100</b>	<b>4823</b>	<b>5591</b>	<b>1127</b>	<b>1480</b>	<b>1004</b>	

Hour beginning

Assessment year 2022

Average Day - Lights (Two Way)

Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Survey year	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021
Yearly factor	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460
0	83	27	14	0	2	15	10	25	10	19	1	4	2	0
1	90	17	9	2	1	1	8	10	12	9	10	1	2	1
2	35	10	4	2	1	1	3	1	10	3	10	1	1	2
3	46	13	7	2	1	2	3	4	4	15	2	2	1	1
4	82	33	22	3	1	4	8	9	22	23	32	3	4	3
5	265	179	91	17	14	9	20	27	10	51	159	11	22	12
6	363	239	125	30	27	17	33	43	152	146	297	21	50	34
7	620	456	295	114	66	84	164	207	399	321	460	85	125	62
8	822	472	294	178	89	81	186	257	474	388	430	87	138	93
9	821	311	175	160	57	61	129	180	360	292	280	64	90	65
10	861	280	166	160	57	60	124	170	351	272	241	61	74	61
11	863	300	175	159	53	60	121	191	361	284	257	69	76	64
12	916	328	187	161	57	67	152	210	398	317	321	69	81	72
13	965	374	215	162	63	69	142	191	401	317	328	70	82	69
14	1013	408	265	162	61	66	157	210	430	338	381	78	89	76
15	1051	482	281	188	68	80	178	242	475	390	433	85	119	82
16	1094	530	314	199	80	107	238	311	586	430	517	120	143	97
17	1079	568	325	169	82	107	238	300	561	409	502	119	143	102
18	909	338	189	123	50	60	137	188	349	263	310	58	97	57
19	718	214	116	72	32	28	60	80	181	167	187	32	45	36
20	484	117	58	48	17	18	40	58	112	108	115	21	28	20
21	393	116	53	38	14	15	87	95	134	76	97	18	22	12
22	307	115	55	21	17	9	100	107	133	66	93	10	18	11
23	133	68	33	9	5	7	63	63	78	27	40	4	9	4
Total	13900	6114	3510	2178	920	1021	2424	3224	6090	4870	5545	1101	1480	1021

Total Network AADT	5307
2022	5450
2026	5450
% Difference	102.7%

Assessment year 2022

Average Day - Heavies (Two Way)

Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Survey year	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021
Yearly factor	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	4	0	0	0	0	0	0	0	0	0	0	0	0	0
4	6	0	0	0	0	0	0	0	0	0	0	0	0	0
5	8	0	1	0	0	0	0	1	1	1	3	0	0	0
6	13	1	3	2	0	0	0	1	1	1	7	1	0	0
7	23	5	12	4	1	1	3	4	17	13	5	1	2	1
8	32	7	10	3	1	2	5	10	20	14	4	4	1	1
9	26	6	10	4	3	2	5	10	22	14	3	2	1	1
10	29	6	9	2	1	2	7	9	20	11	4	3	2	2
11	36	9	9	3	1	2	5	9	24	12	3	2	1	2
12	26	8	9	3	1	2	4	7	19	12	5	3	1	3
13	32	9	11	2	1	2	3	18	13	3	2	2	2	2
14	33	5	9	2	1	1	2	4	18	12	4	2	1	1
15	33	5	4	2	1	1	3	5	18	10	4	2	1	0
16	21	9	4	2	0	2	6	17	10	4	2	1	1	1
17	24	3	4	0	1	1	1	4	10	7	4	1	1	0
18	21	3	2	1	0	1	2	4	9	4	2	1	1	1
19	10	1	1	0	0	0	1	1	3	4	0	0	0	0
20	1	0	1	0	0	0	0	1	2	4	0	0	0	0
21	0	0	0	0	0	0	0	1	1	1	1	0	0	0
22	0	0	0	0	0	0	0	1	1	0	0	0	0	0
23	0	1	0	0	0	0	0	1	2	1	0	0	0	0
Total	410	74	100	33	10	21	40	82	230	158	48	27	13	19

Assessment year 2022

Average Day - Total Traffic (Two Way)

Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Survey year	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021
Yearly factor	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460
0	83	27	14	0	2	15	10	25	10	19	1	4	2	0
1	91	17	9	2	1	1	8	10	12	9	10	1	2	1
2	36	10	4	2	1	1	3	3	10	3	10	1	1	2
3	46	13	7	2	1	2	3	4	15	2	2	1	1	1
4	88	33	22	3	1	4	8	9	22	24	32	4	4	3
5	272	179	92	17	14	9	20	27	10	51	159	11	22	12
6	359	239	125	30	27	17	33	43	152	146	297	21	50	34
7	649	461	295	114	66	84	164	207	399	321	460	85	125	62
8	854	479	304	178	90	83	193	266	498	401	434	91	137	94
9	852	317	180	171	60	63	134	190	382	305	280	64	90	68
10	876	286	169	160	54	62	130	180	372	295	249	64	76	63
11	896	314	184	162	54	62	130	199	385	296	260	70	77	63
12	946	336	196	164	59	69	156	217	418	329	326	72	82	74
13	975	363	222	164	64	67	148	196	426	330	321	72	84	71
14	1046	464	273	164	62	67	159	210	467	350	380	80	90	77
15	1084	487	285	190	69	81	181	247	493	361	431	87	120	82
16	1080	538	316	191	80	114	243	317	609	428	521	122	144	98
17	1103	571	329	169	83	108	230	308	571	416	508	119	148	102
18	931	342	193	124	50	61	139	193	359	269	312	58	97	58
19	727	215	117	72	32	28	61	84	184	172	188	32	46	36
20	491	117	58	48	17	18	40	59	114	112	118	21	28	20
21	399	116	54	31	15	15	87	95	135	77	88	18	22	12
22	316	115	55	21	17	9	100	108	134	60	93	11	18	11
23	129	68	33	9	5	7	63	66	72	27	40	4	9	4
Total	14313	6189	3609	2211	940	1042	2473	3304	6328	4829	5591	1120	1481	1079

Assessment year 2022

Average Weekday - Lights (Two Way)

Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Survey year	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021
Yearly factor	1.0091	1.0091	1.0091	1.0091	1.0091	1.0091	1.0091	1.0091	1.0091	1.0091	1.0091	1.0091	1.0091	1.0091
0	60	21	10	2	2	17	18	23	13	14	0	4	2	
1	30	16	8	1	1	10	10	13	7	8	1	1	1	
2	24	9	4	1	1	4	4	5	4	5	1	1	1	
3	13	14	8	1	1	2	3	4	4	5	1	2	2	1
4	85	36	24	3	3	6	10	11	25	25	37	4	4	4
5	308	217	111	20	17	11	23	31	84	61	200	15	28	15
6	403	330	215	42	39	40	69	83	184	138	372	30	64	44
7	744	569	367	138	94	105	205	259	495	418	952	109	159	80
8	933	670	355	191	110	93	219	306	567	480	534	104	171	114
9	838	528	187	174	99	62	195	183	270	227	395	67	94	66
10	784	466	146	141	69	54	112	158	328	278	229	50	73	53
11	789	364	146	141	46	50	102	167	323	286	244	62	73	53
12	850	299	169	138	49	58	129	184	363	294	295	62	73	66
13	868	347	209	138	49	54	123	175	364	314	324	67	81	66
14	978	464	275	143	62	63	140	198	443	340	413	76	91	79
15	1062	518	306	193	72	82	179	244	487	386	495	89	136	87
16	1091	534	346	196	89	122	264	341	603	483	623	149	187	105
17	1121	640	373	178	106	123	265	341	627	481	602	142	173	119
18	913	357	203	122	62	67	155	207	367	298	345	63	112	83
19	711	217	121	72	33	27	62	93	186	174	196	32	47	38
20	478	118	57	44	18	19	41	60	117	118	118	20	32	22
21	387	121	56	31	16	16	108	110	151	78	104	17	23	12
22	309	124	55	21	18	10	129	136	151	66	97	10	18	10
23	149	71	31	8	8	8	78	81	81	21	50	0	9	6
Total	13920	6945	3724	2143	987	1077	2583	3401	6407	5144	8220	1190	1609	1100

Hour beginning

Assessment year 2022

Average Weekday - Heavies (Two Way)

Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Survey year	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021
Yearly factor	1.0091	1.0091	1.0091	1.0091	1.0271	1.0091	1.0091	1.0091	1.0091	1.0091	0.0000	0.0000	0.0000	0.0000
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	1	0	1	0	0	0	0	0	0	0	0	0	0	0
5	11	0	2	0	0	0	0	0	1	2	0	0	0	0
6	21	2	4	2	0	0	0	1	4	8	0	0	0	0
7	36	5	15	4	1	2	3	4	20	0	0	0	0	0
8	46	7	13	3	1	2	5	11	28	0	0	0	0	0
9	23	6	13	6	3	2	4	8	23	0	0	0	0	0
10	34	5	10	2	1	2	3	7	20	0	0	0	0	0
11	34	8	11	3	1	2	4	6	24	0	0	0	0	0
12	32	8	12	3	2	2	3	5	19	0	0	0	0	0
13	20	7	12	2	1	1	3	3	28	0	0	0	0	0
14	38	6	10	2	0	1	2	4	18	0	0	0	0	0
15	37	6	5	3	1	1	3	6	22	0	0	0	0	0
16	31	7	5	3	1	1	6	28	0	0	0	0	0	0
17	23	3	5	1	1	1	2	3	10	0	0	0	0	0
18	22	3	3	2	1	1	2	3	9	0	0	0	0	0
19	11	1	1	0	0	0	1	2	4	0	0	0	0	0
20	1	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	1	0	0	0	1	1	0	0	0	0	0
22	0	0	0	0	0	0	0	1	2	0	0	0	0	0
23	0	1	0	0	0	0	0	1	2	0	0	0	0	0
Total	466	77	123	37	19	21	41	76	253	0	0	0	0	0

Hour beginning

Assessment year 2022

Average Weekday - Total Traffic (Two Way)

Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Survey year	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021
Yearly factor	1.0091	1.0091	1.0091	1.0091	1.0091	1.0091	1.0091	1.0091	1.0091	1.0091	0.0000	0.0000	0.0000	0.0000
0	62	21	10	2	2	17	18	24	13	14	0	4	2	
1	32	16	8	1	1	10	10	13	7	8	1	1	1	
2	26	9	4	1	1	4	4	5	4	5	1	1	1	
3	16	14	8	1	1	2	3	4	4	5	1	2	2	1
4	92	36	24	3	3	6	10	12	25	25	37	4	4	4
5	319	217	112	20	18	12	24	32	85	61	200	15	28	15
6	424	330	215	42	39	40	69	83	184	138	372	30	64	44
7	774	569	367	138	94	105	205	259	495	418	952	109	159	80
8	974	577	367	193	112	96	223	311	595	480	534	104	171	114
9	870	524	200	173	62	64	144	190	389	327	395	67	94	66
10	818	271	158	144	62	64	117	166	328	278	229	50	73	53
11	823	272	157	144	46	52	100	174	347	286	244	62	73	53
12	882	307	180	141	52	64	132	189	382	294	295	62	73	66
13	805	354	216	140	62	63	130	176	366	314	324	67	81	66
14	1017	470	285	147	64	64	143	201	465	349	413	76	91	79
15	1099	524	311	194	73	83	182	252	509	380	495	89	136	87
16	1122	601	350	190	84	122	271	346	655	481	623	149	187	105
17	1147	648	378	178	107	124	271	340	638	481	602	142	173	119
18	937	363	206	128	62	68	157	210	376	298	345	63	112	83
19	722	218	122	74	33	27	63	95	190	174	196	32	47	38
20	486	118	57	44	18	19	41	60	117	118	118	20	32	22
21	389	121	56	31	17	16	108	116	162	78	104	17	23	12
22	312	125	55	21	18	11	130	137	158	60	97	10	18	10
23	151	72	31	8	8	8	78	84	81	21	50	0	9	6
Total	14410	6623	3898	2180	1000	1099	2632	3484	6640	5144	8220	1190	1609	1100

Hour beginning

Assessment year: 2022

Average Weekday - Lights (Two Way)

Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Survey year	2021	2021	2021	2021	2021	2021	2021	2021	2021	2022	2022	2022	2022	2022
TEMP factor	1.0453	1.0453	1.0453	1.0453	1.0453	1.0453	1.0453	1.0453	1.0453	1.0271	1.0453	1.0261	1.0261	1.0361
0	62	22	11	2	0	0	17	10	24	13	14	0	4	2
1	31	14	9	1	1	1	10	11	11	7	9	1	1	1
2	25	10	4	1	1	2	4	4	9	4	8	1	1	1
3	34	13	8	1	1	2	3	3	6	3	11	2	4	1
4	88	37	25	3	4	7	10	12	26	26	38	4	5	4
5	319	225	115	20	18	12	24	32	87	63	207	16	29	15
6	433	378	223	41	40	41	73	86	193	193	389	40	67	43
7	773	596	380	143	87	108	213	268	513	433	614	113	165	83
8	967	591	367	188	114	97	226	311	588	498	553	108	178	115
9	859	527	354	180	61	64	133	194	384	330	318	89	97	60
10	813	476	352	146	51	56	116	160	341	288	237	61	78	53
11	817	474	351	146	50	52	106	173	335	286	253	64	76	57
12	881	510	375	148	51	60	134	191	376	305	305	64	75	60
13	898	558	373	143	51	54	131	178	379	323	336	68	84	60
14	1013	481	285	150	64	65	140	203	459	351	438	70	94	73
15	1100	536	317	200	74	85	183	235	505	394	513	92	140	90
16	1138	616	357	203	99	121	214	315	658	488	645	154	173	113
17	1163	663	386	182	109	123	239	354	650	499	623	147	178	123
18	948	570	321	131	54	68	162	214	381	309	357	65	116	63
19	727	423	253	78	34	28	63	96	193	180	203	33	48	33
20	496	312	199	46	16	20	43	62	122	121	122	21	34	22
21	481	325	158	32	17	17	111	119	156	81	108	17	24	11
22	320	129	57	22	18	11	134	141	162	62	101	10	19	10
23	134	74	31	8	6	8	81	84	84	28	52	2	9	3
Total	14431	6781	8910	2220	1223	1116	2978	3532	6638	5323	6444	1233	1658	1143

Scenario	Vehicle Classification	ATC Site (Two-Way Movements)													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
AAWT	Total AAWT (2026)	14439	6862	4039	2239	1041	1139	2727	3609	6900	5505	6500	1262	1714	1167
	Lights AAWT (2026)	14463	6781	3910	2220	1023	1118	2678	3530	6638	5329	6444	1233	1688	1148
	Heavies AAWT (2026)	480	129	38	19	23	49	79	202	176	98	28	16	13	12
	Construction Lights	0%	1%	2%	3%	7%	6%	2%	2%	1%	1%	1%	5%	4%	6%
	Construction Heavies	3%	18%	11%	37%	76%	63%	29%	18%	3%	8%	23%	50%	87%	77%
Scenario 1a Dev Flows	Lights Total	0	67	0	0	0	0	0	0	0	0	67	0	0	0
	Impact (%)	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%
	Heavies Total	0	14	0	0	0	0	0	0	0	0	14	0	0	0
	Impact (%)	0%	18%	0%	0%	0%	0%	0%	0%	0%	0%	25%	0%	0%	0%
	Overall Impact (%)		1%									1%			
Scenario 2a Dev Flows	Lights Total	17	17	0	0	50	33	33	33	17	17	0	0	17	0
	Impact (%)	0%	0%	0%	0%	0%	3%	1%	1%	0%	0%	0%	0%	1%	0%
	Heavies Total	14	14	0	0	0	0	0	0	0	0	0	0	14	0
	Impact (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Overall Impact (%)	0%	0%			5%	3%	1%	1%	0%	0%			1%	
Scenario 2b Dev Flows	Lights Total	0	0	0	0	67	44	44	44	22	22	0	0	22	0
	Impact (%)	0%	0%	0%	0%	7%	4%	2%	2%	1%	0%	0%	0%	1%	0%
	Heavies Total	0	0	0	0	14	9	9	9	4	4	0	0	14	0
	Impact (%)	0%	0%	0%	0%	76%	4%	2%	2%	1%	0%	0%	0%	87%	0%
	Overall Impact (%)	0%	0%			8%	4%	2%	2%	1%	0%			2%	

Assessment year: 2022

Average Weekday - Heavies (Two Way)

Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Survey year	2021	2021	2021	2021	2021	2021	2021	2021	2021	2022	2022	2022	2022	2022
TEMP factor	1.0453	1.0453	1.0453	1.0453	1.0271	1.0453	1.0453	1.0453	1.0453	1.0261	1.0261	1.0261	1.0361	1.0361
0	0	0	0	0	0	0	0	0	0	0	11	0	0	0
1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	1	2	4	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	488	1023	80	129	88	19	23	49	79	262	170	54	29	16

Average Day	Lights	Heavies
67	14	

Assessment year: 2022

Average Weekday - Total Traffic (Two Way)

Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Survey year	2021	2021	2021	2021	2021	2021	2021	2021	2021	2022	2022	2022	2022	2022
TEMP factor	1.0453	1.0453	1.0453	1.0453	1.0271	1.0453	1.0453	1.0453	1.0453	1.0261	1.0261	1.0261	1.0361	1.0361
0	64	22	11	2	0	0	17	10	24	14	14	0	4	2
1	33	16	9	1	1	1	10	11	11	7	9	1	1	1
2	27	10	5	1	1	2	4	4	9	4	8	1	1	1
3	38	15	8	1	1	2	3	3	6	3	11	2	4	1
4	95	37	25	3	4	7	10	12	26	26	38	4	5	4
5	330	225	116	20	18	12	24	33	88	67	207	16	29	15
6	439	380	226	43	42	41	73	86	199	203	389	40	67	44
7	802	596	395	147	89	113	215	275	533	450	620	114	167	84
8	1006	588	381	200	116	99	231	322	616	514	557	112	178	113
9	863	544	367	186	64	66	139	202	407	353	379	72	96	60
10	817	477	353	146	51	56	116	160	341	288	237	61	78	53
11	821	475	352	146	50	52	106	173	335	286	253	64	77	58
12	885	512	376	148	51	60	134	191	376	305	305	64	76	60
13</														

Scenario	Route	Access point	Restrictions		Vehicle Type	Trip Generation (Two-Way)	
			Height	Weight		Average Day	Highest Day
1	3	North	No	No	All	81	103
2a	6	North	No	No	Heavy	14	27
	1	South	No	Yes	Light	17	19
	6	North	No	No	Light	17	19
	8	South	No	No	Light	17	19
	9	South	<4m	No	Light	17	19
	*Total (to avoid rounding error)						81
2b	1	South	No	Yes	Light	22	25
	6	North	No	No			
	8	South	No	No	Heavy	14	27
	8	South	No	No	Light	22	25
	9	South	<4m	No	Light	22	25
	*Total (to avoid rounding error)						81



Walton on Trent Bypass Analysis

Road	AM Peak - 2015					PM Peak - 2015						
	E/B Total Flows	E/B HGVs	W/B Total Flows	W/B HGVs	Two-Way Total	Two-Way HGV Total	E/B Total Flows	E/B HGVs	W/B Total Flows	W/B HGVs	Two-Way Total	Two-Way HGV Total
Walton on Trent Bypass	439	14	717	15	1156	29	1195	752	5	438	2	1195
Avg Peak Factor					9%					10%		
<b>24-Hour Flow</b>					<b>13374</b>		<b>12332</b>					<b>72</b>
18-Hour factor					9.1%		10.2%					
<b>18-Hour Flow</b>					<b>12755</b>		<b>11761</b>					<b>69</b>

Walton on Trent Bypass	24-Hour Two-Way Flow				2022-2026 (%)
	Two-Way Flow (2022)		Two-Way Flows (2026)		
	AAWT	HGV	AAWT	HGV	
	13265	78	13743	81	103.6%

Walton on Trent Bypass	18-Hour Two-Way Flow				2022-2026 (%)
	Two-Way Flow (2022)		Two-Way Flows (2026)		
	AAWT	HGV	AAWT	HGV	
	12651	74	13107	77	103.6%

\*Lowest flow of both peaks used as this shows the highest construction impact

Walton Road Flow Profile	ATC Site 2 Avg. Weekday Flow Profile		
	Total Vehicles	% of Avg. Weekday Flow	% of Avg. 16-hour Weekday Flow
0000	18	0.3%	
0100	13	0.2%	
0200	8	0.1%	
0300	12	0.2%	
0400	30	0.5%	
0500	180	3.3%	
0600	303	5.5%	5.8%
0700	475	8.7%	9.1%
0800	477	8.7%	9.1%
0900	274	5.0%	5.3%
1000	224	4.1%	4.3%
1100	225	4.1%	4.3%
1200	254	4.6%	4.9%
1300	292	5.3%	5.6%
1400	388	7.1%	7.4%
1500	432	7.9%	8.3%
1600	497	9.1%	9.5%
1700	531	9.7%	10.2%
1800	298	5.4%	5.7%
1900	180	3.3%	3.5%
2000	98	1.8%	1.9%
2100	100	1.8%	1.9%
2200	103	1.9%	2.0%
2300	60	1.1%	1.1%
<b>Total</b>	<b>5469</b>	<b>100%</b>	

Main Street Flow Profile	ATC Site 11 Avg. Weekday Flow Profile		
	Total Vehicles	% of Avg. Weekday Flow	% of Avg. 18-hour Weekday Flow
0000	10	0%	
0100	9	0%	
0200	8	0%	
0300	15	0%	
0400	27	1%	
0500	200	3%	
0600	373	6%	6.2%
0700	598	10%	10.0%
0800	538	9%	9.0%
0900	369	6%	5.1%
1000	232	4%	3.9%
1100	248	4%	4.1%
1200	301	5%	5.0%
1300	338	6%	5.5%
1400	418	7%	7.0%
1500	500	8%	8.3%
1600	627	10%	10.5%
1700	606	10%	10.1%
1800	346	6%	5.8%
1900	197	3%	3.3%
2000	118	2%	2.0%
2100	105	2%	1.8%
2200	97	2%	1.6%
2300	51	1%	0.8%
<b>Total</b>	<b>6274</b>	<b>100%</b>	

DFT Counter Analysis

DFT Count Number	24-Hour Two-Way Flow AADT (2022)		
	Lights	HGVs	Total
99873	13,582	620	14,402
48293	29978	1010	30,988

ATC Site's	AAWT (2022)		Difference
	AAWT (2022)	AAWT (2022)	
1	13,809	14,419	1.0
2	5,971	6,623	1.1
3	3,482	3,998	1.1
4	2,153	2,180	1.0
5	912	1,006	1.1
6	1,006	1,099	1.1
7	2,386	2,632	1.1
8	3,190	3,484	1.1
9	6,106	6,660	1.1
10	4,823	5,144	1.1
11	5,581	6,220	1.1
12	1,127	1,190	1.1
13	1,480	1,639	1.1
14	1,056	1,108	1.0
<b>AAWT / AAWT Average Difference</b>			<b>1%</b>

Traffic Count Site	24-Hour Two-Way Flow AAWT (2022)			24-Hour Two-Way AAWT (2026)			Impact (%)			Difference (2022-2026 (%))
	Lights	HGVs	Total	Lights	HGVs	Total	Lights	HGVs	Total	
99873	13729	620	14558	14224	659	15083	0.1%	1.7%	0.20%	103.61%
48293	30303	1021	31324	31396	1058	32453	0.1%	1.4%	0.10%	103.61%

DFT Count 48293 - 18-Hour Two-Way AAWT (2026)				
Time	Total Flows	% of Avg. Weekday Flow	HGVs	% of Avg. Weekday Flow
0000		0%		0%
0100		0%		0%
0200		0%		1%
0300		0%		1%
0400		1%		1%
0500		2%		2%
0600	954	3%	48	5%
0700	1742	5%	67	6%
0800	2191	7%	91	9%
0900	1958	6%	71	7%
1000	1841	6%	77	7%
1100	1852	6%	77	7%
1200	1985	6%	72	7%
1300	2028	6%	75	7%
1400	2288	7%	88	8%
1500	2473	8%	82	8%
1600	2525	8%	70	7%
1700	2582	8%	60	6%
1800	2109	6%	50	5%
1900	1625	5%	25	2%
2000	1095	3%	16	2%
2100	883	3%	12	1%
2200	702	2%	7	1%
2300	340	1%	5	1%
<b>Total</b>	<b>31175</b>	<b>100%</b>	<b>995</b>	<b>100%</b>

DFT Count 99873 - 18-Hour Two-Way AAWT (2026)				
Time	Total Flows	% of Avg. Weekday Flow	HGVs	% of Avg. Weekday Flow
0000		0%		0%
0100		0%		0%
0200		0%		1%
0300		0%		1%
0400		1%		1%
0500		2%		2%
0600	444	3%	39	5%
0700	810	5%	54	6%
0800	1018	7%	74	9%
0900	910	6%	58	7%
1000	856	6%	63	7%
1100	861	6%	62	7%
1200	923	6%	58	7%
1300	942	6%	61	7%
1400	1064	7%	72	8%
1500	1149	8%	67	8%
1600	1174	8%	57	7%
1700	1200	8%	49	6%
1800	980	6%	41	5%
1900	755	5%	20	2%
2000	509	3%	13	2%
2100	411	3%	10	1%
2200	326	2%	6	1%
2300	159	1%	4	1%
<b>Total</b>	<b>14489</b>	<b>100%</b>	<b>808</b>	<b>100%</b>

Time	ATC Site 1 Avg. Weekday Flow Profile		
	Total Flows	% of Avg. Weekday Flow	% of Avg. 24-hour Flow
0000	61	0	0%
0100	32	0	0%
0200	26	0	1%
0300	37	0	1%
0400	91	0	7%
0500	316	0	2%
0600	420	0	5%
0700	767	0	6%
0800	865	0	9%
0900	862	0	7%
1000	811	0	7%
1100	816	0	7%
1200	874	0	7%
1300	893	0	7%
1400	1008	0	8%
1500	1086	0	8%
1600	1112	0	7%
1700	1137	0	6%
1800	929	0	5%
1900	716	0	2%
2000	482	0	2%
2100	389	0	1%
2200	309	0	1%
2300	150	0	1%
<b>Total</b>	<b>13726</b>	<b>100%</b>	<b>437</b>