

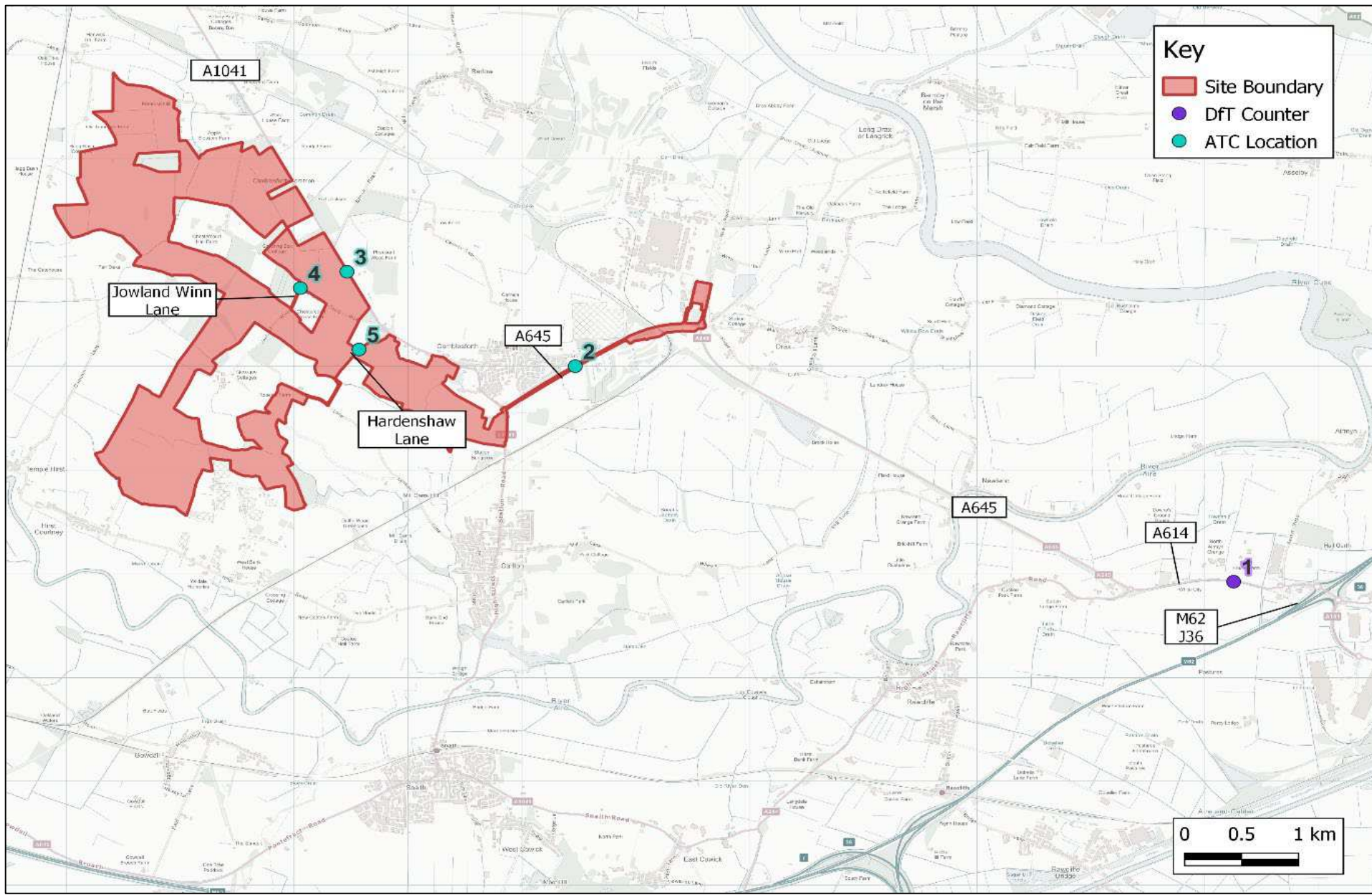


HELIOS RENEWABLE
ENERGY
PROJECT

Preliminary Environmental Information Report

Volume 3: Technical Appendices

Appendix 12.1: Helios Traffic Flows



Counter	Location
1	A614
2	A645
3	A1041
4	Jowland Winn Lane
5	Hardenshaw Lane

2022 Base Flows - AADT 24 Hr

Link	Base 2022				
	Total Vehicles	HGV	% HGV	Avg Speed	85th% Speed
A614*	12,171	1,018	8%	60mph	60mph
A645	7,382	586	8%	51mph	57mph
A1041	12,207	673	6%	52mph	58mph
Jowland Winn Lane	50	3	6%	30mph	40mph
Hardenshaw Lane	104	2	2%	30mph	38mph

*No ATC data, posted speed based on sign posted speed limit

Base 2026 plus Development - AADT 24 Hr

Link	Base 2026			Development		Base 2026 plus Development			Speeds		% Change (Total Vehicles)	% Change (HGV)
	Total Vehicles	HGV	% HGV	Total Vehicles	HGV	Total Vehicles	HGV	% HGV	Avg Speed	85th% Speed		
A614	12,584	1,053	8%	210	53	12,794	1,106	9%	60mph	60mph	2%	5%
A645	7,632	606	8%	210	53	7,842	659	8%	51mph	57mph	3%	9%
A1041	12,621	696	6%	182	40	12,803	736	6%	52mph	58mph	1%	6%
Jowland Winn Lane	51	3	6%	91	20	142	23	16%	30mph	40mph	179%	625%
Hardenshaw Lane	108	2	2%	46	10	154	12	7%	30mph	38mph	43%	547%

60
51
52
30
30

	2022		2025		2025 + Dev
Total	31,913	Total	32,996	Total	33,735
Total HGV	2,282	Total HGV	2,360	Total HGV	2,535
% HGV	6%	% HGV	6%	% HGV	9%

EFT	
Uplift	210
% HGV	12%
Avg Speed	44.6
km/hr	71.776564
Link Length	9.2km

2022 Base Flows - AAWT 18 Hr

Link	Base 2022				
	Total Vehicles	HGV	% HGV	Avg Speed	85th% Speed
A614*	12,283	1,027	8%	60mph	60mph
A645	7,926	692	9%	50mph	57mph
A1041	12,795	788	6%	51mph	58mph
Jowland Winn Lane	50	2	5%	31mph	41mph
Hardenshaw Lane	91	2	2%	30mph	38mph

*No ATC data, posted speed based on sign posted speed limit

Base 2026 plus Development - AAWT 18 Hr

Link	Base 2026			Development		Base 2026 plus Development			Speeds		% Change (Total Vehicles)	% Change (HGV)
	Total Vehicles	HGV	% HGV	Total Vehicles	HGV	Total Vehicles	HGV	% HGV	Avg Speed	85th% Speed		
A614	12,699	1,062	8%	210	53	12,909	1,115	9%	60mph	60mph	2%	5%
A645	8,194	715	9%	210	53	8,404	768	9%	50mph	57mph	3%	7%
A1041	13,229	815	6%	182	40	13,411	855	6%	51mph	58mph	1%	5%
Jowland Winn Lane	52	2	5%	91	20	143	22	15%	31mph	41mph	175%	782%
Hardenshaw Lane	94	2	2%	46	10	140	12	8%	30mph	38mph	49%	521%

2022 Base Flows - AADT 24 Hr

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Cumulative

Link	Total Vehicles	HGV	% HGV
A614*	1,092	197	18%
A645	1,498	197	13%
A1041	412	0	0%
Jowland Winn Lane	0	0	0%
Hardenshaw Lane	0	0	0%

Base 2026 plus Development - AADT 24 Hr

Link	Base 2026			Development		Base 2026 plus Development			Speeds		% Change (Total Vehicles)	% Change (HGV)
	Total Vehicles	HGV	% HGV	Total Vehicles	HGV	Total Vehicles	HGV	% HGV	Avg Speed	85th% Speed		
A614	13,676	1,250	9%	210	53	13,886	1,303	9%	60mph	60mph	2%	4%
A645	9,130	803	9%	210	53	9,340	856	9%	51mph	57mph	2%	7%
A1041	13,033	696	5%	182	40	13,215	736	6%	52mph	58mph	1%	6%
Jowland Winn Lane	51	3	6%	91	20	142	23	16%	30mph	40mph	179%	625%
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Base 2026 plus Development - AAWT 18 Hr

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	Total Vehicles	HGV	% HGV	Total Vehicles	HGV	Total Vehicles	HGV	% HGV	Avg Speed	85th% Speed		
A614	13,791	1,259	9%	210	53	14,001	1,312	9%	60mph	60mph	2%	4%
A645	9,692	912	9%	210	53	9,902	965	10%	50mph	57mph	2%	6%
A1041	13,641	815	6%	182	40	13,823	855	6%	51mph	58mph	1%	5%
Jowland Winn Lane	52	2	5%	91	20	143	22	15%	31mph	41mph	175%	782%
Hardenshaw Lane	94	2	2%	46	10	140	12	8%	30mph	38mph	49%	521%