Eastern Green Link 4:

Scottish Onshore Scheme

Volume 4: Appendices

Technical Appendix 10.1: Access, Traffic and Transport

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Prepared for:

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1. Introduction

1.1 Technical Appendix 10.1

Technical Appendix 10.1 contains the supporting information and data used to complete the environmental assessment of traffic and transport for the Proposed Development. Information and data is contained in this document as follows. Bullet list

- Appendix A - Scoping Correspondence
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Appendix A – Scoping Correspondence

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Planning Services

Martin McGroarty

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Your Ref:
Our Ref: 24/03149/SCO

Date 17th February 2025

Dear Sir

Application No:	**24/03149/SCO**
Proposal:	**EIA Scoping for Eastern Green Link 4**
Address:	**Onshore Elements Only, Kinghorn to Westfield, Fife**

I refer to your request for an Environmental Impact Assessment (EIA) scoping opinion received on the 29th of November 2024, and I apologise for the delay in responding.

I can confirm that the methodology and scope of the proposed EIA Report (EIAR) are broadly acceptable in terms of the headings and summaries provided within your Scoping Report on the EGL4 Scottish Onshore Scheme EIA (dated November 2024).

I note that your Scoping Report considers that the following matters should be **fully scoped-out** of the Scottish Onshore Scheme EIA:

- Marine Water Features and Impacts
- Decommissioning
- Air Quality
- Waste
- Vibration
- Health and Wellbeing
- Socioeconomics, Recreation and Tourism

I further note that your Scoping Report considers that the following matters should be **partially scoped-out** of the EIA:

- Landscape and Visual (Operational phase effects of underground cable corridors)
- Ecology and Nature Conservation (certain excluded species surveys)
- Water Environment and Flood Risk (Lochs excluded from Surface Water Features)
- Access Traffic and Transport (excluding Hazardous Loads)
- Noise (Convertor Station operations only; excluding non-residential receptors)
- Climate Change (excluding CCRA and ICCI assessments)

With respect to the matters which you consider can be **fully** scoped-out of the EIA, I would comment as follows:

Marine Water Features and Impacts

I concur with your Scoping Report's conclusion that the Onshore EIA need not assess likely significant effects in the marine environment beyond Mean Low Water Springs (MLWS), given that the Marine Scheme will be assessed separately under the Marine Scheme EIAR, which will accompany an application to Marine Scotland for a Marine Licence.

Decommissioning

I DO NOT concur with your Scoping Report's conclusion that the Onshore EIA need not assess likely significant effects of decommissioning.

You indicate that, once operational, EGL4 will form an integral part of the electricity transmission network for at least 40 years and, since it is likely that after this period refurbishment and plant replacement will extend the life of the converter station rather than lead to decommissioning, this leads to your conclusion that decommissioning can be scoped out of the Onshore EIA.

My concern is that 40 years is a significant period of time and, given the speed of technological change that can occur, it is not possible to conclude with certainty that decommissioning will not be required after 40 years. If only at a high level, the EIA should contain some narrative on the likely significant impacts of decommissioning, in the event that it is required.

Air Quality

I concur with your Scoping Report's conclusion that the Onshore EIA need not assess likely significant effects on air quality arising from the proposed scheme, on the basis that baseline data indicates that: the existing air quality is good and there is no risk of any air quality exceedance; there will be negligible emissions to air from the ordinary operation of the converter station; and potential emissions to air during the construction phase are anticipated to derive from dust and traffic emissions, which will be temporary in nature, not affect the whole project area at any one time, and can be controlled through the Construction Environmental Management Plan (CEMP)..

Waste

I concur with your Scoping Report's conclusion that the Onshore EIA need not assess likely significant effects of waste arising from the proposed scheme, given that the quantity of waste generated by the installation and operation of the cable route (which constitutes the majority of the route) is anticipated to be minimal, and wate arisings

Ecology and Nature Conservation

I concur with your Scoping Report's conclusion that the Onshore EIA's ecology and nature conservation chapter should scope-out certain species surveys, subject to Fife Council's Natural Heritage specialist's comments provided later in this Scoping Opinion.

Water Environment and Flood Risk

I concur with your Scoping Report's conclusion that the Onshore EIA's water environment and flood risk chapter should scope-out Camilla Loch, Loch Gelly, and two identified (but unnamed) lochs from the assessment on surface water features, on the basis that these are outwith the project area.

Access Traffic and Transport

I concur with your Scoping Report's conclusion that the Onshore EIA's access traffic and transport chapter should scope-out both Hazardous Loads for the construction and operational phases of the proposed development, on the basis that it is considered unlikely there will be material construction traffic generated whose loads would fall within the current classifications for the carriage of dangerous goods. **I also concur** with your Scoping Report's conclusion that access traffic and transport impacts from the operational phase of the proposed development are scoped-out of the EIA, given that Converter Stations are typically operated remotely and therefore operational traffic would be limited to inspection and maintenance only.

Noise

I concur with your Scoping Report's conclusion that the Onshore EIA's noise chapter should be limited to an operational noise assessment of the Converter Station, given no likely adverse noise will arise from the underground cable route. Since no non-residential sensitive receptors (that would be significantly affected by construction or operational activities within the red line boundary of the Project) have been identified at the scoping stage, **I also concur** with your Scoping Report's conclusion that non-residential sensitive receptors should be scoped-out of the EIA.

Climate Change

I concur with your Scoping Report's conclusion that the Onshore EIA's climate change chapter should relate to Greenhouse Gas emissions only, and scope-out a Climate Change Resilience Assessment (CCRA) and In-combination Climate Change Impacts (ICCI), since the construction period is in the short term (4-5 years), there are no climate change parameters included and climate change is not expected to result in significant changes. I note that these risks have been considered by the Applicant in its

Climate Resilience Strategy, which will apply to the design of the Scottish Onshore Scheme.

Taking into account all of the above, the following matters should therefore be within the scope of the EIA. Additional comments are provided below on each of these matters to assist in the focus of the chapters and ensure sufficient information is provided within the EIAR.

The matters that are in scope are:

- Landscape and Visual (excluding operational phase effects of cable corridors)
- Ecology and Nature Conservation (excluding certain species surveys)
- Water Environment and Flood Risk (excluding certain Lochs)
- Cultural Heritage
- Access Traffic and Transport (excluding Hazardous Loads)
- Noise (Convertor Station operations only; excluding non-residential receptors)
- Geology and Ground Conditions
- Climate Change (Greenhouse Gas Assessment only)
- Intertidal Zone
- Cumulative and In-Combination Effects

I have outlined below where consultees have commented on the proposed chapters and also made any comments relative to the Planning Service. If the chapter is not included, then please take this as agreement with the EIA Scoping Report on the methodology and contents of the chapter.

<u>Landscape and Visual</u>

I am generally content that your initial commentary on the need for a Landscape and Visual Impact Assessment (LVIA) correctly identifies the relevant context within which the EIA should consider the impact of the proposed development on the landscape character and visual amenity. **I therefore concur** with the recommendation of the Scoping Report that an LVIA is scoped into the EIA. The methodology and scope of this proposed chapter is broadly acceptable, however the following comments should be noted and taken into consideration:

- The LVIA will be prepared in line with the “Guidelines for Landscape and Visual Impact Assessment (Third Edition)”. Any proposal should also refer to the Fife Landscape Character Assessment (1999) along with its guidelines and recommendations for accommodating development.
- In relation to the visual impact of the proposals, a list of key viewpoints has been indicated in the Scoping Report. Early contact should be made with Fife Council to agree the key viewpoints for the ZTV mapping that will inform the study area and crystalise the selection of viewpoints.

setting have been overlooked in the scoping and proposed methodology. NPF4 Policy 7(o) sets out a requirement to assess, protect and preserve them in developments.

- At EIA and full application stage we would expect to see potential NDHEAs identified within the wider heritage assessment and the setting of both designated and undesignated heritage scoped in to comply with NPF4 Policy 7. Both these requirements may result in a scoping boundary being widened at EIA stage.
- The assessment of the proposals' impact and also whether additional heritage assets may need to be scoped in should follow HES' guidance on setting: *Managing Change in the Historic Environment: Setting.*
- NPF4 Policy 33 and FIFEPlan Policy 15 require the safeguarding of minerals and their protection against sterilisation through development. Regarding the historic built environment, this requirement includes the requirement to safeguard those minerals which are workable and of important conservation value. This might include sands, limestones, sandstones, whinstone, or other finite materials crucial to supporting the conservation of the historic built environment in Scotland.
- Fife Council's Archaeologist notes that Section 8.0 of your scoping report also outlines the proposed methodology to assess the impact of development on archaeology. The approach outlined is satisfactory in relation to known heritage assets but lacks a methodology to test for the potential for development to impact on unrecorded, buried archaeological deposits. You are advised to widen the scope of the cultural heritage impact assessment to include an assessment of:
    - the potential for buried archaeology to exist along the development corridor;
    - a strategy to test for the presence/absence of buried archaeology along the development corridor; and
    - a strategy to mitigate the impact of development on unrecorded archaeological deposits should these be encountered in advance or during development.

<u>Access Traffic and Transport</u>

I am content that an EIA Transport Chapter will be produced in accordance with IEMA Guidelines 2023, which will be informed by baseline traffic information provided by DfT counters and ATC traffic surveys. I note that the significance of environmental effects on traffic and movement potentially resulting from Development construction traffic will be identified, and that mitigation measures will be identified to address any significant adverse effects, with the residual significance of effects summarised.

The methodology and scope of this chapter is considered to be acceptable.

<u>Noise</u>

The methodology and scope of this chapter is broadly acceptable, however the following comments should be noted and taken into consideration:

Appendix B – Study Area Road Sensitivity of Receptors

The full assessment results of the sensitivity of receptors for the study area roads is shown overleaf.

IEMA Environmental Assessment of Traffic and Movement - Sensitivity of Receptors

Study Area Roads			IEMA 2023 Sensitive Receptors												
Road	Between		People at Home (Residential Areas)	People at Work (Employment Areas)	Sensitive and/or Vulnerable Groups	Locations with Concentrations of Vulnerable Users	Retail Areas	Recreational Areas	Tourist Attractions	Collision Clusters and routes with road safety concersn	Junctions and Highway Links at or Over Capacity	Total Score	Average Score	Overall Rating	Final Rating
B9097 Loch Leven	M90 (Junction 5)	B9097 / B920 junction (Kirkness Livery Yard)	Low 2	Low 2	Negligible 1	Negligible 1	Negligible 1	Low 2	Low 2	Low 2	Low 2	15	1.667	Low	Low
B9097 Ballingry	B9097 / B920 junction (Kirkness Livery Yard)	B9097 / B921 junction	Low 2	Low 2	Negligible 1	Negligible 1	Negligible 1	Negligible 1	Negligible 1	Low 2	Low 2	13	1.444	Low	Low
B921 / B981 Auchterderran	B9097 / B921 junction	B981 / Pitcairn Road junction	High 4	Low 2	Medium 3	Medium 3	Low 2	Low 2	Negligible 1	Negligible 1	Low 2	20	2.222	Medium	High
B981 Lochgelly	B981 / Pitcairn Road junction	B981 / B9149 Roundabout	Low 2	Low 2	Low 2	Low 2	Low 2	Negligible 1	Low 2	Low 2	Low 2	17	1.889	Low	Low
B9149 Lochgelly	B981 / B9149 Roundabout	B9149 / A92 junction	Low 2	Low 2	Low 2	Low 2	Low 2	Negligible 1	Low 2	Low 2	Low 2	17	1.889	Low	Low
U019 Lochgelly	B981 / U019 junction	B9149 / U019 Roundabout	Low 2	Low 2	Low 2	Low 2	Negligible 1	Low 2	Negligible 1	Low 2	Low 2	16	1.778	Low	Low
C48 Loch Gelly	B9149 / A92 junction	C48 Loch Gelly / C2 Dundonald junction	Negligible 1	Low 2	Negligible 1	Negligible 1	Negligible 1	Negligible 1	Negligible 1	Low 2	Low 2	12	1.333	Low	Low
A92 Crossgates	A92 at Crossgates	A92 Cowdenbeath junction	Negligible 1	Negligible 1	Low 2	Low 2	Low 2	Low 2	Low 2	Low 2	Low 2	16	1.778	Low	Low
A92 Lochgelly	A92 Cowdenbeath junction	A92 Chapel junction	Negligible 1	Negligible 1	Low 2	Low 2	Low 2	Low 2	Low 2	Low 2	Low 2	16	1.778	Low	Low
U033 Auchtertool	U033 Auchtertool / C48 Loch Gelly junciton	U033 / B925 Auchtertool junction	Medium 3	Medium 3	Medium 3	Medium 3	Low 2	Low 2	Low 2	Low 2	Low 2	22	2.444	Medium	Medium
A909 Mossmorran	A92 / A909 Bridge Street junction	A909 / B925 Roundabout	Negligible 1	Medium 3	Low 2	Low 2	Negligible 1	Negligible 1	Low 2	Medium 3	Negligible 1	16	1.778	Low	Low
A909 Goathill Quarry	A909 / B925 Roundabout	A909 / B9157 junction	Low 2	Medium 3	Low 2	Low 2	Negligible 1	Low 2	Low 2	Low 2	Low 2	18	2.000	Low	Low
B925 Auchtertool	A909 / B925 Roundabout	B925 Boglily Road / U034 Lambert's Mill	High 4	Low 2	Medium 3	High 4	Low 2	Low 2	Low 2	Low 2	Low 2	23	2.556	Medium	High
A921 Dalgety Bay	M90 (Junction 1C)	A921 / B9157 Roundabout	Low 2	Medium 3	Low 2	Low 2	Medium 3	Low 2	Low 2	Medium 3	Low 2	21	2.333	Medium	Medium
B9157 Aberdour	A921 / B9157 Roundabout	A909 / B9157 junction	Negligible 1	Low 2	Low 2	Low 2	Negligible 1	Low 2	Low 2	Medium 3	Low 2	17	1.889	Low	Low
B9157 Invertiel	A909 / B9157 junction	Invertiel Road / A921 Kinghorn Road ju	Medium 3	Low 2	Low 2	Low 2	Low 2	Negligible 1	Low 2	Medium 3	Low 2	19	2.111	Medium	Medium
A921 Kinghorn	B9157 Invertiel Road / A921 Kinghorn Road junction	A921 Kinghorn Road / B923 Orchard Terrace Junction	High 4	Low 2	Low 2	Low 2	Low 2	Medium 3	Low 2	Low 2	Low 2	21	2.333	Medium	High
M90 north	M90 (Junction 5)	M90 (Junction 6)	Low 2	Low 2	Low 2	Negligible 1	Low 2	Negligible 1	Low 2	Low 2	Low 2	16	1.778	Low	Low
M90 south	M90 (Junction 5)	M90 (Junction 4)	Low 2	Low 2	Low 2	Negligible 1	Low 2	Negligible 1	Low 2	Low 2	Low 2	16	1.778	Low	Low

Appendix C - AECOM Traffic Surveys May 2025 and Department for Transport Traffic Counts

Traffic surveys were undertaken throughout the study area in the form of 18 Automatic Traffic Counts (ATC). ATC were complimented by Department for Transport Traffic Count Locations Figure 10.2: Traffic Survey and DfT Traffic Count Locations shows the location of the traffic surveys.

ATCs were recording for 7 days between Monday 12th and Sunday 18th May 2025.

ATCs were undertaken at the following locations:

- ATC 1 – Kinghorn Road approx 200m north of A921/ B923 Junction
- ATC 2 – Jawbanes Road near Tyrie Burn
- ATC 3 - B9157 east of Piteadie Castle Cottage
- ATC 4 - Unclassified Road between B925 & B9157 (in the vicinity of Aitken T & E Farm)
- ATC 5 – Unclassified Road near Glenniston Substation
- ATC 6 – B925 east of Newbigging
- ATC 7 - B925 east of Blackhill Brae
- ATC 8 - Unclassified Road between House of Bluebell access road & John Dick Leather Goods shop
- ATC 9 - B9149 between The Avenue & A92 ramps
- ATC 10 - B981 between B9149 & access to Lochgelly Cemetery
- ATC 11 - Unclassified Road between The Avenue & Lochview Industrial Estate
- ATC 12 - B9097 approx 1km west of B921/ B9097 junction
- ATC 13 - B920 between Kirkness Farm & B9097
- ATC 14 - A909 between A92 & Mossmorran Natural Gas Plant
- ATC 15 – A909 between B925 and B9157
- ATC 16 - A909 west of Stenhouse Reservoir Access
- ATC 17 - A921 east of Otterston Loch Road
- ATC 18 - B9157 north of Mill Farm Road

Data was unable to be collected at ATC 15 due to ongoing road maintenance already in place on the road link. Where applicable, Department for Transport data was used as an alternative.

A summary of traffic survey results is included in this Appendix.

Site	1	16779 / Fife 1	16779 / Fife
Location	Kingshorn Road approx 200m north of A921/ B923 Junction	May 2025 Kingshorn Road approx 200m north of A921/ B923 Junction	May 2025
Direction	North South	Automatic Traffic Count North South	Automatic Traffic Count

Virtual Day (7) — Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL 50 | JPSL% 50 | JSL1 57 ACPO | JSL1% 57 ACPO | JSL2 65 Diff | JSL2% 65 Diff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site	2	16779 / Fife 2	16779 / Fife
Location	Jawbanes Road near Tyrie Burn	May 2025 Jawbanes Road near Tyrie Burn	May 2025
Direction	East West	Automatic Traffic Count East West	Automatic Traffic Count

Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | |]PSL 60 |]PSL% 60 |]SL1 68 ACPO |]SL1% 68 ACPO |]SL2 75 Dff |]SL2% 75 Dff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site	3	16779 / Fife 3	16779 / Fife
Location	B9157 east of Piteadie Castle Cottage	May 2025 B9157 east of Piteadie Castle Cottage	May 2025
Direction	East West	Automatic Traffic Count East West	Automatic Traffic Count

Virtual Day (7) — Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL 50 | JPSL% 50 | JSL1 57 ACPO | JSL1% 57 ACPO | JSL2 65 Dff | JSL2% 65 Dff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site 4 — 16779 / Fife 4 — 16779 / Fife

Location Unclassified Road between B925 & B9157 (in the vicinity of Aitken T & E Farm) — May 2025 Unclassified Road between B925 & B9157 (in the vicinity of Aitken T & E Farm) — May 2025

Direction North South — Automatic Traffic Count North South — Automatic Traffic Count

Virtual Day (7) — Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | |]PSL 60 |]PSL% 60 |]SL1 68 ACPO |]SL1% 68 ACPO |]SL2 75 Dff |]SL2% 75 Dff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site	6	16779 / Fife 6	16779 / Fife
Location	B925 east of Newbigging	May 2025 B925 east of Newbigging	May 2025
Direction	East West	Automatic Traffic Count East West	Automatic Traffic Count

Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL 50 | JPSL% 50 | JSL1 57 ACPO | JSL1% 57 ACPO | JSL2 65 Dff | JSL2% 65 Dff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site	7	16779 / Fife 7	16779 / Fife
Location	B925 east of Blackhill Brae	May 2025 B925 east of Blackhill Brae	May 2025
Direction	East West	Automatic Traffic Count East West	Automatic Traffic Count

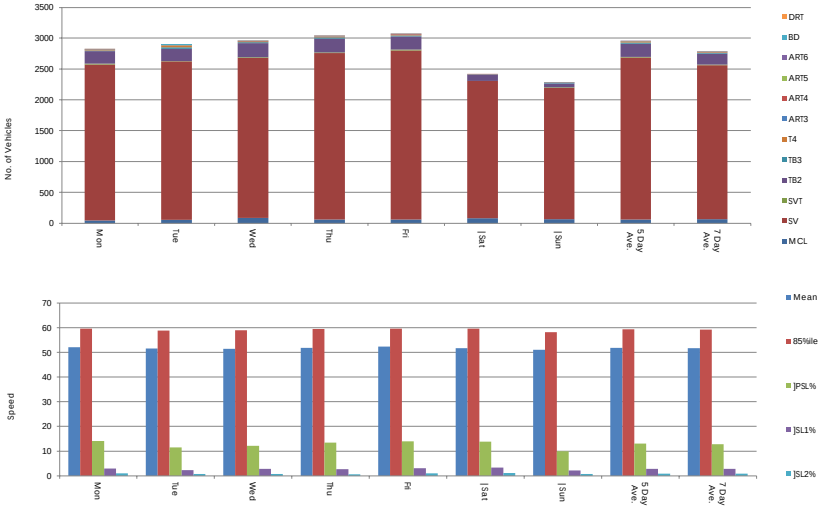
Virtual Day (7) — Virtual Day (7)

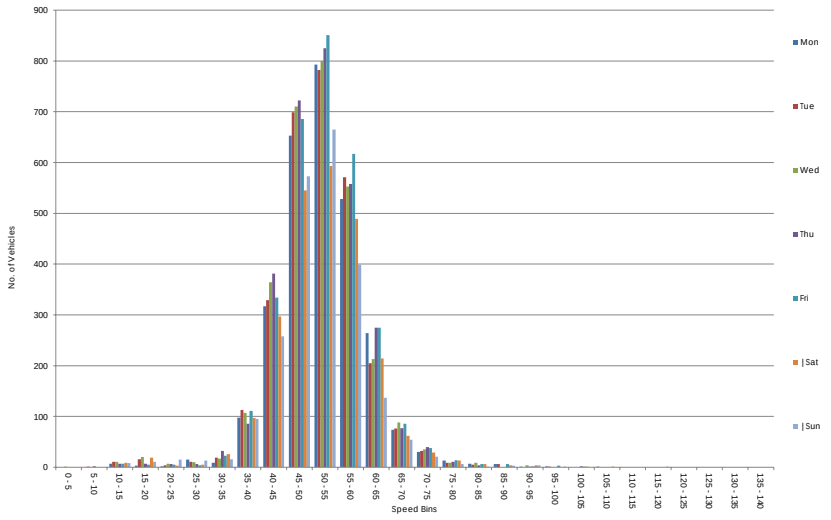
Time	Total	Classification 1 MCL	2 SV	3 SVT	4 TB2	5 TB3	6 T4	7 ART3	8 ART4	9 ART5	10 ART6	11 BD	12 DRT	]PSL 60	]PSL% 60	]SL1 68 ACPO	]SL1% 68 ACPO	]SL2 75 Dff	]SL2% 75 Dff	Mean	Vpp 85	Speed Bins (mph) 0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85	85 - 90	90 - 95	95 - 100	100 - 105	105 - 110	110 - 115	115 - 120	120 - 125	125 - 130	130 - 135	135 - 140
0000	9	0	8	0	1	0	0	0	0	0	0	0	0	2	25.4	1	12.7	0	3.2	54.2	-	0	0	0	0	0	0	0	1	2	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
0100	5	0	5	0	0	0	0	0	0	0	0	0	0	2	30.6	1	13.9	0	2.8	54.6	-	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0200	3	0	3	0	0	0	0	0	0	0	0	0	0	1	35.0	0	15.0	0	10.0	53.3	-	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
0300	3	0	3	0	0	0	0	0	0	0	0	0	0	0	4.8	0	4.8	0	0.0	50.3	-	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0400	6	0	5	0	1	0	0	0	0	0	0	0	0	1	12.2	0	0.0	0	0.0	49	-	0	0	0	0	0	0	0	0	1	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0500	26	1	24	0	1	0	0	0	0	0	0	0	0	7	25.4	3	10.5	1	3.3	54.5	64.9	0	0	0	0	0	0	0	1	3	4	6	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0
0600	79	3	69	0	5	0	1	0	0	0	0	0	0	19	23.6	5	5.8	1	1.8	55.1	62.8	0	0	0	1	0	0	0	1	3	11	23	20	11	4	2	1	1	0	0	0	0	0	0	0	0	0	0
0700	143	3	126	1	10	1	1	0	0	0	0	0	0	24	17.1	4	2.7	1	0.6	53.1	60.6	0	0	0	1	0	0	1	3	14	28	39	32	17	5	2	1	0	0	0	0	0	0	0	0	0	0	0
0800	198	3	177	1	14	1	2	0	0	0	0	0	0	21	10.9	3	1.4	1	0.3	51.5	58.7	0	0	0	1	0	0	2	6	21	49	54	42	16	4	1	0	0	0	0	0	0	0	0	0	0	0	0
0900	149	3	130	1	13	1	1	0	0	0	0	0	0	16	10.4	2	1.6	1	0.4	50.5	58.2	0	0	1	1	1	0	1	7	22	34	41	26	11	3	1	0	0	0	0	0	0	0	0	0	0	0	0
1000	163	4	142	1	13	1	2	0	0	0	0	0	0	15	9.2	3	1.8	1	0.4	50.1	57.6	0	0	1	1	0	1	2	8	24	44	41	26	10	3	1	0	0	0	0	0	0	0	0	0	0	0	0
1100	181	4	161	1	13	1	1	0	1	0	0	0	0	15	8.4	2	1.2	1	0.4	49.9	57.6	0	0	1	1	0	1	2	12	28	48	43	30	11	2	1	0	0	0	0	0	0	0	0	0	0	0	0
1200	203	5	184	1	12	1	1	0	0	0	0	0	0	17	8.2	2	0.8	1	0.4	50	57.4	0	0	0	2	1	2	2	9	25	56	56	33	12	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1300	190	3	169	1	14	1	1	0	1	0	0	0	0	18	9.4	3	1.8	2	0.8	51	57.9	0	0	0	1	0	0	1	6	29	48	53	33	12	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1400	207	4	186	1	13	2	1	0	0	0	0	0	0	17	8.2	3	1.4	1	0.5	50.4	57.5	0	0	1	0	0	0	1	11	30	56	56	35	11	4	1	1	0	0	0	0	0	0	0	0	0	0	0
1500	225	5	197	0	19	1	1	1	0	0	0	0	0	27	12.1	5	2.3	1	0.6	51.3	58.9	0	0	1	1	0	0	1	8	30	56	62	37	18	5	2	0	1	0	0	0	0	0	0	0	0	0	0
1600	258	6	232	1	15	3	1	0	0	0	0	0	0	30	11.6	7	2.7	3	1.0	51.9	58.7	0	0	0	0	0	0	1	11	28	60	77	50	20	6	2	1	1	0	0	0	0	0	0	0	0	0	0
1700	247	6	224	1	13	2	0	0	0	0	0	0	0	36	14.5	9	3.5	2	1.0	53	59.8	0	0	1	1	1	1	1	4	24	55	65	59	22	8	4	1	1	0	0	0	0	0	0	0	0	0	0	0
1800	179	5	166	1	6	1	0	0	0	0	0	0	0	33	18.6	8	4.5	3	1.4	53.7	61.4	0	0	1	1	0	0	0	3	14	33	54	39	21	7	3	1	0	1	0	0	0	0	0	0	0	0	0	0
1900	117	4	106	0	5	0	0	0	0	0	0	0	0	21	17.8	6	5.0	2	1.5	53.2	60.8	0	0	1	0	0	1	1	3	8	26	32	24	11	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	88	3	82	0	2	0	0	0	0	0	0	0	0	15	17.3	4	4.7	1	1.3	52.4	60.9	0	0	0	0	0	0	1	4	9	20	21	17	9	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0
2100	57	1	52	0	2	0	0	0	0	0	0	0	0	10	18.4	3	5.6	1	1.5	53.1	61.2	0	0	0	0	0	0	1	2	5	10	14	13	6	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0
2200	32	0	31	0	1	0	0	0	0	0	0	0	0	5	15.4	2	7.5	1	3.1	52.6	60.5	0	0	0	0	0	0	0	1	3	7	10	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
2300	16	0	16	0	1	0	0	0	0	0	0	0	0	5	27.8	1	7.8	1	3.5	53.4	66.1	0	0	0	0	0	0	0	1	2	3	4	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-19	2344	51	2094	9	156	14	12	2	3	1	1	0	0	269	11.5	51	2.2	16	0.7	51.4	58.7	0	0	7	10	5	7	16	87	289	570	642	441	179	55	19	7	4	2	1	1	0	0	0	0	0	0	0	0
06-22	2683	62	2404	10	171	14	13	2	4	2	1	0	0	334	12.5	69	2.6	21	0.8	51.7	59.1	0	0	8	11	5	9	18	97	315	636	733	515	217	68	28	9	5	3	2	1	1	0	0	0	0	0	0	0
06-00	2732	63	2450	10	172	14	13	2	4	2	1	0	0	344	12.6	72	2.7	22	0.8	51.7	59.1	0	0	8	11	6	9	19	99	320	646	747	522	221	71	30	9	5	3	2	1	1	0	0	0	0	0	0	0
00-00	2784	64	2497	10	175	15	13	2	4	2	1	0	0	356	12.8	78	2.8	24	0.9	51.7	59.2	0	0	9	12	6	9	20	101	326	655	758	531	226	74	32	11	5	4	2	1	1	0	0	0	0	0	0	0

Virtual Week (1) — Virtual Week (1)

Time	Total	Classification 1 MCL	2 SV	3 SVT	4 TB2	5 TB3	6 T4	7 ART3	8 ART4	9 ART5	10 ART6	11 BD	12 DRT	]PSL 60	]PSL% 60	]SL1 68 ACPO	]SL1% 68 ACPO	]SL2 75 Dff	]SL2% 75 Dff	Mean	Vpp 85	Speed Bins (mph) 0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85	85 - 90	90 - 95	95 - 100	100 - 105	105 - 110	110 - 115	115 - 120	120 - 125	125 - 130	130 - 135	135 - 140
Mon	2823	44	2528	15	200	15	15	1	1	3	1	0	0	398	14.1	84	3.0	30	1.1	52.1	59.6	0	0	7	3	2	15	9	98	317	653	793	528	264	74	30	13	7	6	1	2	0	1	0	0	0	0	0	0
Tue	2890	55	2567	6	199	23	25	3	5	5	1	1	0	334	11.6	66	2.3	21	0.7	51.5	58.8	0	1	11	16	4	11	19	113	329	699	782	571	205	76	32	9	5	6	0	1	0	0	0	0	0	0	0	0
Wed	2958	85	2593	10	229	18	13	3	3	3	1	0	0	358	12.1	83	2.8	22	0.7	51.4	58.9	1	0	11	20	7	10	17	107	364	710	800	553	213	88	35	9	9	0	4	0	0	0	0	0	0	0	0	0
Thu	3042	60	2700	8	225	20	17	2	7	1	2	0	0	410	13.5	82	2.7	18	0.6	51.8	59.4	0	2	7	7	6	6	32	86	381	722	825	558	275	77	40	11	4	0	1	0	2	0	0	0	0	0	0	0
Fri	3074	57	2744	15	214	11	18	2	8	1	4	0	0	431	14.0	97	3.2	32	1.0	52.3	59.6	0	0	7	5	5	4	23	111	334	686	851	617	275	86	38	14	6	6	2	3	1	0	0	0	0	0	0	0
| Sat	2417	81	2223	4	95	6	3	2	3	0	0	0	0	334	13.8	81	3.4	29	1.2	51.7	59.6	0	0	9	19	3	5	26	97	297	545	593	489	214	62	29	13	6	4	4	0	1	1	0	0	0	0	0	0
| Sun	2281	64	2126	11	64	10	2	1	0	2	1	0	0	228	10.0	50	2.2	16	0.7	51	58.2	0	0	8	11	15	13	16	95	258	573	665	399	137	54	21	6	1	3	4	1	0	0	0	1	0	0	0	0
5 Day Ave.	2957	60	2626	11	213	17	18	2	5	3	2	0	0	386	13.1	82	2.8	25	0.8	51.8	59.3	0	1	9	10	5	9	20	103	345	694	810	565	246	80	35	11	6	4	2	1	1	0	0	0	0	0	0	0
7 Day Ave.	2784	64	2497	10	175	15	13	2	4	2	1	0	0	356	12.8	78	2.8	24	0.9	51.7	59.2	0	0	9	12	6	9	20	101	326	655	758	531	226	74	32	11	5	4	2	1	1	0	0	0	0	0	0	0
--	19485	446	17481	69	1226	103	93	14	27	15	10	1	0	2493	12.8	543	2.8	168	0.9	51.7	59.2	1	3	60	81	42	64	142	707	2280	4588	5309	3715	1583	517	225	75	38	25	16	7	4	2	0	1	0	0	0	0

Summary Graphs





Site	8	16779 / Fife 8	16779 / Fife
Location	Unclassified Road between House of Bluebell access road & John Dick Leather Goods shop	May 2025 Unclassified Road between House of Bluebell access road & John Dick Leather Goods shop	May 2025
Direction	East West	Automatic Traffic Count East West	Automatic Traffic Count

Virtual Day (7) — Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL 60 | JPSL% 60 | JSL1 68 ACPO | JSL1% 68 ACPO | JSL2 75 Dff | JSL2% 75 Dff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site	9	16779 / Fife 9	16779 / Fife
Location	B9149 between The Avenue & A92 ramps	May 2025 B9149 between The Avenue & A92 ramps	May 2025
Direction	North South	Automatic Traffic Count North South	Automatic Traffic Count

Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL 60 | JPSL% 60 | JSL1 68 ACPO | JSL1% 68 ACPO | JSL2 75 Dff | JSL2% 75 Dff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site	10	16779 / Fife 10	16779 / Fife
Location	B981 between B9149 & access to Lochgelly Cemetery	May 2025 B981 between B9149 & access to Lochgelly Cemetery	May 2025
Direction	North South	Automatic Traffic Count North South	Automatic Traffic Count

Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL 60 | JPSL% 60 | JSL1 68 ACPO | JSL1% 68 ACPO | JSL2 75 Dff | JSL2% 75 Dff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site	11	16779 / Fife 11	16779 / Fife
Location	Unclassified Road between The Avenue & Lochview Industrial Estate	May 2025 Unclassified Road between The Avenue & Lochview Industrial Estate	May 2025
Direction	East West	Automatic Traffic Count East West	Automatic Traffic Count

Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL 60 | JPSL% 60 | JSL1 68 ACPO | JSL1% 68 ACPO | JSL2 75 Dff | JSL2% 75 Dff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site	12	16779 / Fife 12	16779 / Fife
Location	B9097 approx 1km west of B921/ B9097 junction	May 2025 B9097 approx 1km west of B921/ B9097 junction	May 2025
Direction	East West	Automatic Traffic Count East West	Automatic Traffic Count

Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL 60 | JPSL% 60 | JSL1 68 ACPO | JSL1% 68 ACPO | JSL2 75 Dff | JSL2% 75 Dff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site	13	16779 / Fife 13	16779 / Fife
Location	B920 between Kirkness Farm & B9097	May 2025 B920 between Kirkness Farm & B9097	May 2025
Direction	North South	Automatic Traffic Count North South	Automatic Traffic Count

Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL 60 | JPSL% 60 | JSL1 68 ACPO | JSL1% 68 ACPO | JSL2 75 Dff | JSL2% 75 Dff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site	14	16779 / Fife 14	16779 / Fife
Location	A909 between A92 & Mossmorran Natural Gas Plant	May 2025 A909 between A92 & Mossmorran Natural Gas Plant	May 2025
Direction	North South	Automatic Traffic Count North South	Automatic Traffic Count

Virtual Day (7) — Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL 60 | JPSL% 60 | JSL1 68 ACPO | JSL1% 68 ACPO | JSL2 75 Dff | JSL2% 75 Dff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site 16 | 16779 / Fife 16 | 16779 / Fife
Location A909 west of Stenhouse Reservoir Access | May 2025 A909 west of Stenhouse Reservoir Access | May 2025
Direction East West | Automatic Traffic Count East West | Automatic Traffic Count

Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL 60 | JPSL% 60 | JSL1 68 ACPO | JSL1% 68 ACPO | JSL2 75 Dff | JSL2% 75 Dff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site	17	16779 / Fife 17	16779 / Fife
Location	A921 east of Otterston Loch Road	May 2025 A921 east of Otterston Loch Road	May 2025
Direction	East West	Automatic Traffic Count East West	Automatic Traffic Count

Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL 60 | JPSL% 60 | JSL1 68 ACPO | JSL1% 68 ACPO | JSL2 75 Dff | JSL2% 75 Dff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site	18	16779 / Fife 18	16779 / Fife
Location	B9157 north of Mill Farm Road	May 2025 B9157 north of Mill Farm Road	May 2025
Direction	North South	Automatic Traffic Count North South	Automatic Traffic Count

Virtual Day (7) — Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL 60 | JPSL% 60 | JSL1 68 ACPO | JSL1% 68 ACPO | JSL2 75 Dff | JSL2% 75 Dff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site	5	16779 / Fife 5	16779 / Fife
Location	Unclassified Road north of Camilla Drive	May 2025 Unclassified Road north of Camilla Drive	May 2025
Direction	North South	Automatic Traffic Count North South	Automatic Traffic Count

Virtual Day (7) — Virtual Day (7)

| Time | Total | Classification | | | | | | | | | | | | JPSL 60 | JPSL% 60 | JSL1 68 ACPO | JSL1% 68 ACPO | JSL2 75 Dff | JSL2% 75 Dff | Mean | Vpp 85 | Speed Bins (mph) | | | | | | | | | | | |

Site number: 1157

Site details

Region	Scotland
Local authority	Fife
Road name	A909
Road classification	'A' road
Managed by	Local authority
Road type	Major
Start junction	B925
End junction	B9157
Link length	2.20km (1.37 miles)
Easting, northing	319500, 688200
Latitude, longitude	56.07980241, -3.29498200

Location

Annual Average daily flow

Year	Count method	Pedal cycles	Two wheeled motor vehicles	Cars and taxis	Buses and coaches	Light goods vehicles	Heavy goods vehicles	All motor vehicles
2024	Estimated using AADF from previous year on this link	4	26	3259	12	1070	335	4703

Site number: 80085

Site details

Region	Scotland
Local authority	Fife
Road name	A92
Road classification	'A' road
Managed by	Transport Scotland
Road type	Major
Start junction	M90
End junction	A909
Link length	3.40km (2.11 miles)
Easting, northing	314711, 689417
Latitude, longitude	56.08990307, -3.37229051

Location

Annual Average daily flow

Year	Count method	Pedal cycles	Two wheeled motor vehicles	Cars and taxis	Buses and coaches	Light goods vehicles	Heavy goods vehicles	All motor vehicles
2024	Estimated using AADF from previous year on this link	0	91	39276	152	9977	2495	51990

Site number: 80086

Site details

Region	Scotland
Local authority	Fife
Road name	A92
Road classification	'A' road
Managed by	Transport Scotland
Road type	Major
Start junction	A909
End junction	A910
Link length	9.00km (5.59 miles)
Easting, northing	321929, 693564
Latitude, longitude	56.12838605, -3.25753668

Location

Annual Average daily flow

Year	Count method	Pedal cycles	Two wheeled motor vehicles	Cars and taxis	Buses and coaches	Light goods vehicles	Heavy goods vehicles	All motor vehicles
2024	Estimated using AADF from previous year on this link	0	105	36270	158	8192	3738	48463

Site number: 89272

Site details

Region	Scotland
Local authority	Perth & Kinross
Road name	M90
Road classification	Motorway
Managed by	Transport Scotland
Road type	Major
Start junction	5
End junction	6
Link length	6.00km (3.73 miles)
Easting, northing	311987, 700621
Latitude, longitude	56.19003814, -3.41975922

Location

Annual Average daily flow

Year	Count method	Pedal cycles	Two wheeled motor vehicles	Cars and taxis	Buses and coaches	Light goods vehicles	Heavy goods vehicles	All motor vehicles
2024	Estimated using AADF from previous year on	0	75	22547	88	5423	2890	31023

Site number: 74409

Site details

Region	Scotland
Local authority	Perth & Kinross
Road name	M90
Road classification	Motorway
Managed by	Transport Scotland
Road type	Major
Start junction	LA boundary
End junction	5
Link length	3.00km (1.86 miles)
Easting, northing	313360, 696500
Latitude, longitude	56.15327680, -3.39629900

Location

Annual Average daily flow

Year	Count method	Pedal cycles	Two wheeled motor vehicles	Cars and taxis	Buses and coaches	Light goods vehicles	Heavy goods vehicles	All motor vehicles
2024	Dependent on an automatic counter on a neighbouring	0	82	22311	423	7595	2466	32877

Appendix D – Construction Traffic Forecast

[redacted]

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[redacted]

Converter

- 2027/29 – 18 months to 2 years – Platform Civils (Earthworks, Access, and Drainage as per above package)
    - Assumption: up to 80 HGVs/day
    - Assumption: up to 100 LGVs/day

- 2029-2033 – 3 to 4 years – Converter Works
    - Assumption: up to 40 HGVs/day
    - Assumption: up to 300 LGVs/day (would ramp up from 100 - 300 between 2029 and end of 2031)

Cable

For the cable works it's estimated that the cable route will be accessed from seven local roads. For each of these local roads the length of route accessed will vary and therefore the total vehicles and durations will vary but I'd estimate the following:

- 2029-2033 - 3 to 4 years
    - Assumption: up to 30 HGVs/day (peak) with up to 10 HGVs/day average
    - Assumption: up to 30 LGVs/day

These numbers would be focused on the following local roads:

- **A921 Kinghorn Road (south)**- approx. 6 months (not accounting for landfall HDD which may happen over multiple ecological windows and therefore take longer)
- **A921 Kinghorn Road (north)**- approx. 6 months
- **B9157 (south)** - approx. 12 months
- **B9157 (north)** - approx. 12-18 months
- **B925 (south)** - approx. 6 months
- **B925 (north)** - approx. 6 months

- **Clentrie Windfarm Road** - approx. 6-12 months
- **C48 (Muirhead Quarry) (South)** - 12-18 months
- **C48 (Muirhead Quarry) (North)** - 6 months (across two junctions)
- **B981 (South)** - 12-18 months
- **B981 (North)** - 6 months
- **B9097** - 18-24 months

The timescales above are estimated based on 6 months / km.

I've attached the CAD file showing the bellmouth locations and types.

Current assumptions around the transformer are shown below:

3.3.3 Transformer delivery vehicle

The transformer delivery vehicle is assumed to comprise of a specialist girder frame trailer, capable of conveying a load of up to 300t. This will be manoeuvred by two tractor units. Self-Propelled Modular Transporters (SPMTs) may be used as an alternative within the construction sites to improve manoeuvrability. Until the haulage contractor has been appointed however, the most onerous case has been assumed.

Exact transformer specifications are unconfirmed at this stage, but the assumed dimensions and weight are as follows:

- Transformer size: ~12m x 5m x 5m (LxWxH)
- Transformer mass: ~300,000kg
- Overall vehicle length: 74.7m x 5.3m x 3.4m

The assumed girder frame trailer comprises a 12-axle trailer and two tractor units with overall length of 74m. An indicative arrangement and dimensions are provided in Figure 4.

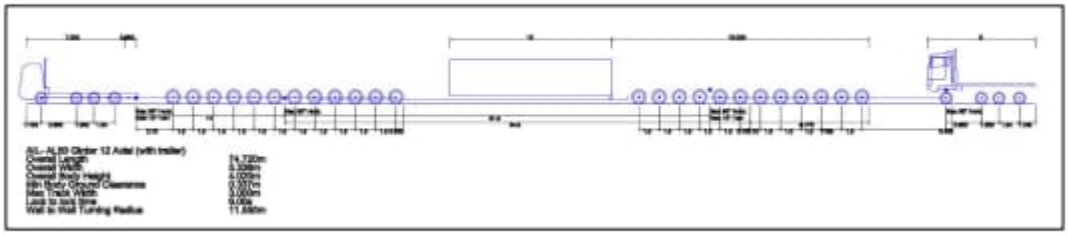

Figure 4 - Transformer delivery vehicle - Dimensions

Appendix E – Baseline Traffic Data

To provide an appropriate baseline against which to compare forecast construction traffic flows, it has been necessary to apply a growth factor to the 2025 baseline data to arrive at anticipated baseline flows during the peak construction year of 2029. To obtain this, the Trip End Model Presentation Program (TEMPro) version 8.1 has been used. The software uses National Trip End Model (NTEM) data to forecast the increase in traffic flows between the two years, in this case between 2025 and 2029. Analysis of NTEM data can be made by:

- Geographical area;
- Transport mode;
- Travel time of day;
- Purpose of journey;
- Years of interest; and
- Type of trip.

For the Proposed Development, the following details have been applied to obtain the two growth factors needed:

- Dataset version – 80;
- Dataset scenario – Regional;
- Result type – Trip ends by time period;
- Base year – 2025;
- Future year – 2029;
- Trip Purpose Group – All purposes;
- Time Period – Weekday AM peak period;
- Trip End Type – Origin / Destination;
- Area Description – Fife; and
- Mode – Car Driver.

The resulting output from the TEMPro calculations was that a growth factor of 1.034 is applied to 2025 data to achieve a baseline traffic flow level for 2029 for the peak construction period.

IEMA Guidelines Environmental Assessment of Traffic & Movement - Traffic Data & Rules

Study Area Roads				Daily Traffic (24hr)							Development Traffic						Forecast Daily Traffic						IEMA Rules
Road	Between		Data Source	Surveyed			Baseline		Growth 1.034	Average Speed (mph)	Daily			Hourly		Hours 10	Total (Baseline + Development)			Percentage Increase			IEMA
				Car / LGV	HGV	Total	Car / LGV	HGV	Total		Car / LGV	HGV	Total	Car / LGV	HGV	Total	Car / LGV	HGV	Total	Car / LGV	HGV	Total	
M90 north	M90 (Junction 5)	M90 (Junction 6)	DfT Survey	28133	2890	31,023	29,090	2,988	32,078	70.0	300	80	380	30	8	38	29,390	3,068	32,458	1%	3%	1%	No
M90 south	M90 (Junction 5)	M90 (Junction 4)	DfT Survey	30411	2466	32,877	31,445	2,550	33,995	70.0	300	80	380	30	8	38	31,745	2,630	34,375	1%	3%	1%	No
B9097 Loch Leven	M90 (Junction 5)	B9097 / B920 junction (Kirkness Livery Yard)	AECOM Survey	4492	115	4,607	4,645	119	4,764	44.1	600	160	760	60	16	76	5,245	279	5,524	13%	135%	16%	Yes
B9097 Ballingry	B9097 / B920 junction (Kirkness Livery Yard)	B9097 / B921 junction	AECOM Survey	2938	92	3,030	3,038	95	3,133	57.1	600	160	760	60	16	76	3,638	255	3,893	20%	168%	24%	Yes
B921 / B981 Auchterderran	B9097 / B921 junction	B981 / Pitcairn Road junction	AECOM Survey	5251	114	5,365	5,430	118	5,547	47.5	60	0	60	6	0	6	5,490	118	5,607	1%	0%	1%	No
B981 Lochgelly	B981 / Pitcairn Road junction	B981 / B9149 Roundabout	AECOM Survey	5251	114	5,365	5,430	118	5,547	47.5	60	60	120	6	6	12	5,490	178	5,667	1%	51%	2%	Yes
B9149 Lochgelly	B981 / B9149 Roundabout	B9149 / A92 junction	AECOM Survey	13745	301	14,046	14,212	311	14,524	37.2	60	60	120	6	6	12	14,272	371	14,644	0%	19%	1%	No
U019 Lochgelly	B981 / U019 junction	B9149 / U019 Roundabout	AECOM Survey	1117	161	1,278	1,155	166	1,321	24.0	60	60	120	6	6	12	1,215	226	1,441	5%	36%	9%	Yes
C48 Loch Gelly	B9149 / A92 junction	C48 Loch Gelly / C2 Dundonald junction	AECOM Survey	2382	16	2,398	2,463	17	2,480	49.3	60	60	120	6	6	12	2,523	77	2,600	2%	363%	5%	Yes
A92 Crossgates	A92 at Crossgates	A92 Cowdenbeath junction	DfT Survey	49495	2495	51,990	51,178	2,580	53,758	70.0	60	120	180	6	12	18	51,238	2,700	53,938	0%	5%	0%	No
A92 Lochgelly	A92 Cowdenbeath junction	A92 Chapel junction	DfT Survey	44725	3738	48,463	46,246	3,865	50,111	70.0	60	120	180	6	12	18	46,306	3,985	50,291	0%	3%	0%	No
U033 Auchtertool	U033 Auchtertool / C48 Loch Gelly junciton	U033 / B925 Auchtertool junction	AECOM Survey	315	1	316	326	1	327	60.0	60	60	120	6	6	12	386	61	447	18%	5803%	37%	Yes
A909 Mossmorran	A92 / A909 Bridge Street junction	A909 / B925 Roundabout	AECOM Survey	6746	370	7,116	6,975	383	7,358	52.7	60	60	120	6	6	12	7,035	443	7,478	1%	16%	2%	No
A909 Goathill Quarry	A909 / B925 Roundabout	A909 / B9157 junction	DfT Survey	4368	335	4,703	4,517	346	4,863	60.0	60	60	120	6	6	12	4,577	406	4,983	1%	17%	2%	No
B925 Auchtertool	A909 / B925 Roundabout	B925 Boglily Road / U034 Lambert's Mill	AECOM Survey	1672	10	1,682	1,729	10	1,739	45.2	60	60	120	6	6	12	1,789	70	1,859	3%	580%	7%	Yes
A921 Dalgety Bay	M90 (Junction 1C)	A921 / B9157 Roundabout	AECOM Survey	11544	197	11,741	11,936	204	12,140	46.6	0	60	60	0	6	6	11,936	264	12,200	0%	29%	0%	No
B9157 Aberdour	A921 / B9157 Roundabout	A909 / B9157 junction	AECOM Survey	5027	118	5,145	5,198	122	5,320	53.0	0	60	60	0	6	6	5,198	182	5,380	0%	49%	1%	Yes
B9157 Invertiel	A909 / B9157 junction	B9157 Invertiel Road / A921 Kinghorn Road junction	AECOM Survey	4182	85	4,267	4,324	88	4,412	49.6	60	60	120	6	6	12	4,384	148	4,532	1%	68%	3%	Yes
A921 Kinghorn	B9157 Invertiel Road / A921 Kinghorn Road junction	A921 Kinghorn Road / B923 Orchard Terrace Junction	AECOM Survey	8788	81	8,869	9,087	84	9,171	35.6	60	60	120	6	6	12	9,147	144	9,291	1%	72%	1%	Yes

Appendix F - Fear and Intimidation on and by Road Users Data Assessment

Traffic data collected via ATC in May 2025 and DfT data was used as the baseline to provide a robust fear and intimidation assessment as higher vehicle numbers could result in higher levels of fear and intimidation being experienced on road links. The results of the fear and intimidation magnitude of change assessment for the Proposed Development are included at the end of this Appendix and are summarised in Table 1 1.

Table 1-1: Fear and Intimidation Magnitude of Change Assessment Summary - Proposed Development

Road Link	Magnitude of Change Proposed Development
M90 north	Negligible
M90 south	Low
B9097 Loch Leven	Negligible
B9097 Ballingry	Negligible
B921 / B981 Auchterderran	Negligible
B981 Lochgelly	Negligible
B9149 Lochgelly	Negligible
U019 Lochgelly	Negligible
C48 Loch Gelly	Negligible
A92 Crossgates	Negligible
A92 Lochgelly	Negligible
U033 Auchtertool	Negligible
A909 Mossmorran	Negligible
A909 Goathill Quarry	Negligible
B925 Auchtertool	Negligible
A921 Dalgety Bay	Negligible
B9157 Aberdour	Negligible
B9157 Invertiel	Negligible
A921 Kinghorn	Negligible

IEMA Environmental Assessment of Traffic and Movement - Fear and Intimidation

Study Area Roads Existing Traffic

Existing Fear and Intimidation Level

Road	Between		18-Hour Average Traffic (Veh/s / Hour)	Total 18-Hour HGV Traffic	Average Vehicle Speed (mph)	18-Hour Average Traffic (Veh/s / Hour)	Total 18-Hour HGV Traffic	Average Vehicle Speed (mph)	Degree of Hazard Score	Fear and Intimidation Level
B9097 Loch Leven	M90 (Junction 5)	B9097 / B920 junction (Kirkness Livery Yard)	236	86	44	<600	<1,000	40+	30	Moderate
						0	0	30		
B9097 Ballingry	B9097 / B920 junction (Kirkness Livery Yard)	B9097 / B921 junction	152	74	57	<600	<1,000	40+	30	Moderate
						0	0	30		
B981 Lochgelly	B981 / Pitcairn Road junction	B981 / B9149 Roundabout	265	85	48	<600	<1,000	40+	30	Moderate
						0	0	30		
B9149 Lochgelly	B981 / B9149 Roundabout	B9149 / A92 junction	715	228	37	600-1,200	<1,000	30-40	30	Moderate
						10	0	20		
U019 Lochgelly	B981 / U019 junction	B9149 / U019 Roundabout	63	124	24	<600	<1,000	20-30	10	Small
						0	0	10		
C48 Loch Gelly	B9149 / A92 junction	C48 Loch Gelly / C2 Dundonald junction	118	11	49	<600	<1,000	40+	30	Moderate
						0	0	30		
A92 Crossgates	A92 at Crossgates	A92 Cowdenbeath junction	2,824	2,439	70	1,800+	2,000-3,000	40+	80	Extreme
						30	20	30		
A92 Lochgelly	A92 Cowdenbeath junction	A92 Chapel junction	2,632	3,654	70	1,800+	3,000+	40+	90	Extreme
						30	30	30		
U033 Auchtertool	U033 Auchtertool / C48 Loch Gelly junciton	U033 / B925 Auchtertool junction	16	1	60	<600	<1,000	40+	30	Moderate
						0	0	30		
A909 Mossmorran	A92 / A909 Bridge Street junction	A909 / B925 Roundabout	351	265	53	<600	<1,000	40+	30	Moderate
						0	0	30		
A909 Goathill Quarry	A909 / B925 Roundabout	A909 / B9157 junction	255	328	60	<600	<1,000	40+	30	Moderate
						0	0	30		
B925 Auchtertool	A909 / B925 Roundabout	B925 Boglily Road / U034 Lambert's Mill	87	8	45	<600	<1,000	40+	30	Moderate
						0	0	30		
A921 Dalgety Bay	M90 (Junction 1C)	A921 / B9157 Roundabout	645	156	47	600-1,200	<1,000	40+	40	Moderate
						10	0	30		
B9157 Aberdour	A921 / B9157 Roundabout	A909 / B9157 junction	261	86	53	<600	<1,000	40+	30	Moderate
						0	0	30		
B9157 Invertiel	A909 / B9157 junction	B9157 Invertiel Road / A921 Kinghorn Road junction	212	58	50	<600	<1,000	40+	30	Moderate
						0	0	30		
A921 Kinghorn	B9157 Invertiel Road / A921 Kinghorn Road junction	A921 Kinghorn Road / B923 Orchard Terrace Junction	468	63	36	<600	<1,000	30-40	20	Small
						0	0	20		
B921 / B981 Auchterderran	B9097 / B921 junction	B981 / Pitcairn Road junction	265	85	48	<600	<1,000	40+	30	Moderate
						0	0	30		
M90 north	M90 (Junction 5)	M90 (Junction 6)	1,685	2,825	70	1,200-1,800	2,000-3,000	40+	70	Great
						20	20	30		
M90 south	M90 (Junction 5)	M90 (Junction 4)	1,786	2,411	70	1,200-1,800	2,000-3,000	40+	70	Great
						20	20	30		

IEMA Environmental Assessment of Traffic and Movement - Fear and Intimidation

Study Area Roads Existing Traffic + Development Traffic

Forecast Fear and Intimidation Level

Road	18-Hour Average Traffic (Veh/s / Hour)	Total 18-Hour HGV Traffic	Average Vehicle Speed (mph)	18-Hour Average Traffic (Veh/s / Hour)	Total 18-Hour HGV Traffic	Average Vehicle Speed (mph)	Degree of Hazard Score	Fear and Intimidation Level
B9097 Loch Leven	312	246	44	<600	<1,000	40+	30	Moderate
				0	0	30		
B9097 Ballingry	164	134	57	<600	<1,000	40+	30	Moderate
				0	0	30		
B981 Lochgelly	277	145	48	<600	<1,000	40+	30	Moderate
				0	0	30		
B9149 Lochgelly	727	288	37	600-1,200	<1,000	30-40	30	Moderate
				10	0	20		
U019 Lochgelly	75	184	24	<600	<1,000	20-30	10	Small
				0	0	10		
C48 Loch Gelly	130	71	49	<600	<1,000	40+	30	Moderate
				0	0	30		
A92 Crossgates	2,842	2,559	70	1,800+	2,000-3,000	40+	80	Extreme
				30	20	30		
A92 Lochgelly	2,650	3,774	70	1,800+	3,000+	40+	90	Extreme
				30	30	30		
U033 Auchtertool	28	61	60	<600	<1,000	40+	30	Moderate
				0	0	30		
A909 Mossmorran	363	325	53	<600	<1,000	40+	30	Moderate
				0	0	30		
A909 Goathill Quarry	267	388	60	<600	<1,000	40+	30	Moderate
				0	0	30		
B925 Auchtertool	99	68	45	<600	<1,000	40+	30	Moderate
				0	0	30		
A921 Dalgety Bay	651	216	47	600-1,200	<1,000	40+	40	Moderate
				10	0	30		
B9157 Aberdour	267	146	53	<600	<1,000	40+	30	Moderate
				0	0	30		
B9157 Invertiel	224	118	50	<600	<1,000	40+	30	Moderate
				0	0	30		
A921 Kinghorn	480	123	36	<600	<1,000	30-40	20	Small
				0	0	20		
B921 / B981 Auchterderran	277	145	48	<600	<1,000	40+	30	Moderate
				0	0	30		
M90 north	1,723	2,905	70	1,200-1,800	2,000-3,000	40+	70	Great
				20	20	30		
M90 south	1,824	2,491	70	1,800+	2,000-3,000	40+	80	Extreme
				30	20	30		

IEMA Environmental Assessment of Traffic and Movement - Fear and Intimidation Magnitude of Change

Road	Existing Fear and Intimidation Level	Forecast Fear and Intimidation Level	Step Change in Fear and Intimidation Level	Increase in Average Hourly Traffic (All Vehicles)	Increase in Daily HGV Traffic	Condition for Medium Increase in Magnitude of Change	Fear and Intimidation Magnitude of Change
B9097 Loch Leven	Moderate	Moderate	0	76	160	FALSE	Negligible
B9097 Ballingry	Moderate	Moderate	0	12	60	FALSE	Negligible
B981 Lochgelly	Moderate	Moderate	0	12	60	FALSE	Negligible
B9149 Lochgelly	Moderate	Moderate	0	12	60	FALSE	Negligible
U019 Lochgelly	Small	Small	0	12	60	FALSE	Negligible
C48 Loch Gelly	Moderate	Moderate	0	12	60	FALSE	Negligible
A92 Crossgates	Extreme	Extreme	0	18	120	FALSE	Negligible
A92 Lochgelly	Extreme	Extreme	0	18	120	FALSE	Negligible
U033 Auchtertool	Moderate	Moderate	0	12	60	FALSE	Negligible
A909 Mossmorran	Moderate	Moderate	0	12	60	FALSE	Negligible
A909 Goathill Quarry	Moderate	Moderate	0	12	60	FALSE	Negligible
B925 Auchtertool	Moderate	Moderate	0	12	60	FALSE	Negligible
A921 Dalgety Bay	Moderate	Moderate	0	6	60	FALSE	Negligible
B9157 Aberdour	Moderate	Moderate	0	6	60	FALSE	Negligible
B9157 Invertiel	Moderate	Moderate	0	12	60	FALSE	Negligible
A921 Kinghorn	Small	Small	0	12	60	FALSE	Negligible
B921 / B981 Auchterderran	Moderate	Moderate	0	12	60	FALSE	Negligible
M90 north	Great	Great	0	38	80	FALSE	Negligible
M90 south	Great	Extreme	1	38	80	FALSE	Low

Appendix G – Accident Severity Assessment

The calculation for forecasting increases in road traffic accidents during the construction period of the Proposed Development has been based on 2025 traffic survey data and DfT traffic count data and accident history gathered from Police Scotland and CrashMap. 2025 traffic survey data and DfT traffic count data have been used to calculate a 'total annual vehicle kilometres' for each link in the study area. The Police Scotland and CrashMap data for each link has then been used to derive a 'vehicle accident rate' for each link for 'slight,' 'serious' and 'fatal' accident severities. This rate is then applied to the increased vehicle kilometres generated because of the construction of the Proposed Development to arrive at a forecast for additional vehicle accidents.

Table 1 2 the forecasts additional annual road traffic accidents during the construction period of the Proposed Development.

Table 1-2: Forecast Road Accidents on Study Area Roads - Proposed Development

Road Link	Recorded 2020-2023			The Proposed Development (Annual)		
	Slight	Serious	Fatal	Slight	Serious	Fatal
M90 north	3	3	0	0.0	0.0	0.0
M90 south	1	1	1	0.0	0.0	0.0
B9097 Loch Leven	2	1	0	0.2	0.1	0.0
B9097 Ballingry	0	1	0	0.0	0.0	0.0
B921 / B981 Auchterderran	1	1	0	0.0	0.0	0.0
B981 Lochgelly	2	1	0	0.0	0.0	0.0
B9149 Lochgelly	3	0	0	0.0	0.0	0.0
U019 Lochgelly	0	0	0	0.0	0.0	0.0
C48 Loch Gelly	1	1	0	0.0	0.0	0.0
A92 Crossgates	4	6	1	0.0	0.0	0.0
A92 Lochgelly	13	7	1	0.0	0.0	0.0

U033 Auchtertool	0	0	0	0.0	0.0	0.0
A909 Mossmorran	6	3	0	0.1	0.1	0.0
A909 Goathill Quarry	0	0	0	0.0	0.0	0.0
B925 Auchtertool	3	0	0	0.1	0.0	0.0
A921 Dalgety Bay	3	3	1	0.0	0.0	0.0
B9157 Aberdour	3	1	0	0.0	0.0	0.0
B9157 Invertiel	5	4	0	0.0	0.0	0.0
A921 Kinghorn	2	0	0	0.0	0.0	0.0

Study Area Roads			Baseline Accident Rates per 1 Million Vehicle Kilometres									Forecast Development Traffic Accidents				
Road	Between		Length of Road (Km)	Baseline Total Vehicles	Baseline Vehicle Km	Recorded Injury Accidents			Recorded Injury Accidents per 1 Million Vehicle Km			Development Total Vehicles	Development Vehicle Km	Forecast Injusy Accidents		
						Slight	Serious	Fatal	Slight	Serious	Fatal			Slight	Serious	Fatal
B9097 Loch Leven	M90 (Junction 5)	B9097 / B920 junction (Kirkness Livery Yard)	7	6,954,911	45,902,416	2	1	0	4.357E-02	2.179E-02	0.000E+00	802,560	5,296,896	0.2	0.1	0.0
B9097 Ballingry	B9097 / B920 junction (Kirkness Livery Yard)	B9097 / B921 junction	4	4,574,209	17,153,285	0	1	0	0.000E+00	5.830E-02	0.000E+00	802,560	3,009,600	0.0	0.2	0.0
B921 / B981 Auchterderran	B9097 / B921 junction	B981 / Pitcairn Road junction	3	8,099,219	24,297,656	1	1	0	4.116E-02	4.116E-02	0.000E+00	63,360	190,080	0.0	0.0	0.0
B981 Lochgelly	B981 / Pitcairn Road junction	B981 / B9149 Roundabout	2	8,099,219	16,198,437	2	1	0	1.235E-01	6.173E-02	0.000E+00	126,720	253,440	0.0	0.0	0.0
B9149 Lochgelly	B981 / B9149 Roundabout	B9149 / A92 junction	1	21,204,403	21,204,403	3	0	0	1.415E-01	0.000E+00	0.000E+00	63,360	63,360	0.0	0.0	0.0
U019 Lochgelly	B981 / U019 junction	B9149 / U019 Roundabout	2	1,929,320	3,858,640	0	0	0	0.000E+00	0.000E+00	0.000E+00	126,720	253,440	0.0	0.0	0.0
C48 Loch Gelly	B9149 / A92 junction	C48 Loch Gelly / C2 Dundonald junction	2	3,620,117	5,611,181	1	1	0	1.782E-01	1.782E-01	0.000E+00	126,720	196,416	0.0	0.0	0.0
A92 Crossgates	A92 at Crossgates	A92 Cowdenbeath junction	4	78,486,184	313,944,734	4	6	1	1.274E-02	1.911E-02	3.185E-03	126,720	506,880	0.0	0.0	0.0
A92 Lochgelly	A92 Cowdenbeath junction	A92 Chapel junction	9	73,161,683	658,455,150	13	7	1	1.974E-02	1.063E-02	1.519E-03	126,720	1,140,480	0.0	0.0	0.0
U033 Auchtertool*	U033 Auchtertool / C48 Loch Gelly junciton	U033 / B925 Auchtertool junction	3	247,581	742,743	0	0	0	0.000E+00	0.000E+00	0.000E+00	190,080	570,240	0.0	0.0	0.0
A909 Mossmorran	A92 / A909 Bridge Street junction	A909 / B925 Roundabout	2	10,742,598	21,485,196	6	3	0	2.793E-01	1.396E-01	0.000E+00	190,080	380,160	0.1	0.1	0.0
A909 Goathill Quarry	A909 / B925 Roundabout	A909 / B9157 junction	2	7,099,837	15,619,641	0	0	0	0.000E+00	0.000E+00	0.000E+00	126,720	278,784	0.0	0.0	0.0
B925 Auchtertool	A909 / B925 Roundabout	B925 Boglily Road / U034 Lambert's Mill	5	2,539,214	12,696,072	3	0	0	2.363E-01	0.000E+00	0.000E+00	126,720	633,600	0.1	0.0	0.0
A921 Dalgety Bay	M90 (Junction 1C)	A921 / B9157 Roundabout	6	17,724,683	106,348,099	3	3	1	2.821E-02	2.821E-02	9.403E-03	126,720	760,320	0.0	0.0	0.0
B9157 Aberdour	A921 / B9157 Roundabout	A909 / B9157 junction	4	7,767,098	31,068,391	3	1	0	9.656E-02	3.219E-02	0.000E+00	126,720	506,880	0.0	0.0	0.0
B9157 Invertiel	A909 / B9157 junction	B9157 Invertiel Road / A921 Kinghorn Road junction	8	6,441,634	51,533,071	5	4	0	9.703E-02	7.762E-02	0.000E+00	63,360	506,880	0.0	0.0	0.0
A921 Kinghorn	B9157 Invertiel Road / A921 Kinghorn Road junction	A921 Kinghorn Road / B923 Orchard Terrace Junction	3	13,388,997	40,166,991	2	0	0	4.979E-02	0.000E+00	0.000E+00	63,360	190,080	0.0	0.0	0.0
M90 north	M90 (Junction 5)	M90 (Junction 6)	5	46,833,880	234,169,400	3	3	0	1.281E-02	1.281E-02	0.000E+00	63,360	316,800	0.0	0.0	0.0
M90 south	M90 (Junction 5)	M90 (Junction 4)	5	49,632,700	248,163,500	1	1	1	4.030E-03	4.030E-03	4.030E-03	126,720	633,600	0.0	0.0	0.0

Road	Average Daily Traffic	Days Per Year	Traffic per Annum	Recorded Accident Period (Years)	Total Traffic for Accident Period
B9097 Loch Leven	4,764	365	1,738,728	4	6,954,911
B9097 Ballingry	3,133	365	1,143,552	4	4,574,209
B921 / B981 Auchterderran	5,547	365	2,024,805	4	8,099,219
B981 Lochgelly	5,547	365	2,024,805	4	8,099,219
B9149 Lochgelly	14,524	365	5,301,101	4	21,204,403
U019 Lochgelly	1,321	365	482,330	4	1,929,320
C48 Loch Gelly	2,480	365	905,029	4	3,620,117
A92 Crossgates	53,758	365	19,621,546	4	78,486,184
A92 Lochgelly	50,111	365	18,290,421	4	73,161,683
U033 Auchtertool*	327	365	119,262	4	477,046
A909 Mossmorran	7,358	365	2,685,650	4	10,742,598
A909 Goathill Quarry	4,863	365	1,774,959	4	7,099,837
B925 Auchtertool	1,739	365	634,804	4	2,539,214
A921 Dalgety Bay	12,140	365	4,431,171	4	17,724,683
B9157 Aberdour	5,320	365	1,941,774	4	7,767,098
B9157 Invertiel	4,412	365	1,610,408	4	6,441,634
A921 Kinghorn	9,171	365	3,347,249	4	13,388,997
M90 north	32,078	365	11,708,470	4	46,833,880
M90 south	33,995	365	12,408,175	4	49,632,700

Number of Stdy Area Roads	19

Road	Average Daily Traffic	Days Per Year	Traffic per Annum	Recorded Accident Period (Years)	Total Development Traffic for Accident Period
B9097 Loch Leven	760	264	200,640	4	802,560
B9097 Ballingry	760	264	200,640	4	802,560
B921 / B981 Auchterderran	60	264	15,840	4	63,360
B981 Lochgelly	120	264	31,680	4	126,720
B9149 Lochgelly	120	264	31,680	4	126,720
U019 Lochgelly	120	264	31,680	4	126,720
C48 Loch Gelly	120	264	31,680	4	126,720
A92 Crossgates	180	264	47,520	4	190,080
A92 Lochgelly	180	264	47,520	4	190,080
U033 Auchtertool*	120	264	31,680	4	126,720
A909 Mossmorran	120	264	31,680	4	126,720
A909 Goathill Quarry	120	264	31,680	4	126,720
B925 Auchtertool	120	264	31,680	4	126,720
A921 Dalgety Bay	60	264	15,840	4	63,360
B9157 Aberdour	60	264	15,840	4	63,360
B9157 Invertiel	120	264	31,680	4	126,720
A921 Kinghorn	120	264	31,680	4	126,720
M90 north	380	264	100,320	4	401,280
M90 south	380	264	100,320	4	401,280

Vehicle Km Metric
1,000,000

Appendix H - Road Vehicle and Passenger Delay – Congestion Reference Flows

As part of the IEMA Guidelines set out in Chapter 10: Access, Traffic and Transport (Volume 2: Main Report), the road vehicle driver and passenger delay as a result of the Proposed Development must be assessed.

Where Study Area roads are assessed by link flow, the Congestion Reference Flow (CRF) of the Study Area road will be used to forecast magnitude of change. The CRF of a Study Area road is an estimate of the daily traffic flow at which the road is likely to be 'congested' in peak periods on an average day. CRF is calculated in accordance with CD100 DMRB Extract Volume 5 Section 1 (TA 46/97) which remains applicable to trunk roads in Scotland. To calculate CRF, 'congestion' is defined as the situation when the traffic demand exceeds the maximum sustainable throughput of the road. At this point the effect on traffic is likely to include flow breakdown with speeds varying considerably, and queues are likely to form. Table 1 3 summarises the CRF magnitude of change thresholds adopted in this assessment for Road Vehicle Driver and Passenger Delay. CRF magnitude of change adopts 30%, 60% and 90% traffic 'levels' to represent thresholds for changes in vehicle delay, with the stipulation that for Low, Medium and High magnitudes of change there must also be at least one change in traffic level as a result of Proposed Development Traffic.

Table 1-3: Road Vehicle Driver and Passenger Delay Magnitude of Change

Magnitude of Change	Study Area Road Congestion Reference Flow
High	1 or More Level Change plus CRF >90% CRF
Medium	1 or More Level Change plus CRF 60% - 90%
Low	1 Level Change plus CRF 30% - 60%
Negligible	No Level Change

Road Link	Capacity	Number of Lanes	Width Factor	PkF	100/PkF	PkD	100/PkD	AADT	AAWT	AADT/AAWT	Congestion Reference Flows
B9097 Loch Leven (ATC 13)	1353	1	0.7418	8.8	11.4	58	1.724137931	4,381	4,607	0.95	18699
B9097 Ballingry (ATC 12)	1350	1	0.947	8.8	11.4	54	1.851851852	2,804	3,030	0.93	24897
B921 / B981 Auchterderran (ATC 10	1356	1	0.8615	9	11.1	55	1.818181818	4,901	5,364	0.91	21563
B981 Lochgelly (ATC 10)	1356	1	0.8615	9	11.1	55	1.818181818	4,901	5,364	0.91	21563
B9149 Lochgelly (ATC 9)	1362.0	1	0.947	9	11.1	57	1.754385965	13,255	14,046	0.94	23727
U019 Lochgelly (ATC 11)	1213.5	1	0.6905	9.3	10.8	54	1.851851852	1,167	1,277	0.91	15248
C48 Loch Gelly (ATC 8)	1380.0	1	0.7076	9.2	10.9	59	1.694915254	2,203	2,398	0.92	16527
U033 Auchtertool (ATC 5)	1380.0	1	0.6905	9.6	10.4	59	1.694915254	301	315	0.96	16076
A909 Mossmorran (ATC 14)	1344.0	1	0.947	8.9	11.2	59	1.694915254	6,487	7,116	0.91	22096
B925 Auchtertool (ATC 6)	1380.0	1	0.7247	8.6	11.6	55	1.818181818	1,581	1,681	0.94	19886
A921 Dalgety Bay (ATC 17)	1368.0	1	0.9641	8.8	11.4	51	1.960784314	11,879	11,741	1.01	29732
B9157 Aberdour (ATC 18)	1366.5	1	0.8786	9	11.1	53	1.886792453	4,824	5,147	0.94	23590
B9157 Invertiel (ATC 3)	1371.0	1	0.776	8.6	11.6	51	1.960784314	3,934	4,266	0.92	22369
A921 Kinghorn (ATC 1)	1365.0	1	0.776	8.5	11.8	51	1.960784314	8,562	8,870	0.97	23586

CRF = CAPACITY * NL * Wf * 100/PkF * 100/PkD * AADT/AAWT

where, CAPACITY is the maximum hourly lane throughput (see note 1);

NL is the Number of Lanes per direction;

Wf is a Width Factor (see note 2);

PkF is the proportion (percentage) of the total daily flow (2-way) that occurs in the peak hour;

PkD is the directional split (percentage) of the peak hour flow;

AADT is the Annual Average Daily Traffic flow on the link;

AAWT is the Annual Average Weekday Traffic flow on the link.

Note 1. CAPACITY - the maximum sustainable hourly lane throughput.

In reality this value varies day to day due to the prevailing conditions (for example, day/night, wet/dry, percentage heavy vehicles, regular/holiday traffic) and values used must be an average. For **new links** and **existing links not currently experiencing congestion** this can be estimated from the following relationship:

CAPACITY = [A - B * Pk%H]

where, Pk%H is the percentage of 'Heavy Vehicles' in the peak hour. The term 'Heavy Vehicles'

always includes the vehicle categories OGV1, OGV2 and PSV's according to the COBA definition;

A and B are parameters dependant on road standard;

	A	B
Single Carriageway	1380	15.0
Dual Carriageway	2100	20.0
Motorway	2300	25.0

Note 2. Carriageway Width Factor (Wf)

This factor is designed to adjust the CRF for all-purpose links, generally single carriageways, with non-standard lane widths. Carriageway width is defined as the total paved width of the carriageway less the width of ghost islands and hard strips.

Motorways - the width factor Wf should always be unity for motorways as there is no evidence to suggest that the maximum hourly throughput of motorway links is affected by minor changes in lane width.

All-purpose dual carriageways - to reflect the different standards of some dual carriageways. The width factor is given by:

Wf = Carriageway Width / (Number of Lanes * 3.65).

The majority of dual carriageways will have lane widths of 3.65 metres and hence a width factor of unity. Some will have reduced lane widths, generally those built to older design standards, and in these cases the width factor can be less than unity. Should the lane width be greater than 3.65 metres the width factor should be restricted to a maximum value of unity.

Single carriageways (2-lane) - the main purpose of the width factor is to differentiate between the different carriageway width standards of single carriageways. The width factor is given by:

Wf = (0.171 * Carriageway Width) - 0.25

Roads built to modern designs usually have 7.3 metre of 10 metre carriageways, that is, a width factor of unity or 1.46. The width of older roads can vary significantly but the width factor relationship is not valid for road widths less than 5.5 metres or greater than 11 metres. For roads with widths outside these limits the traffic analyst must use judgement to decide on the relevant value.

Proposed Development

Road Link	2029 Baseline	Congestion Reference Flows	Baseline % of CRF	2029 Baseline + Proposed Development Construction Daily Traffic	2029 Baseline + Proposed Development Construction Traffic % of CRF	Baseline Level of CRF	Magnitude of Change
	All Vehs			All Vehs			
B9097 Loch Leven (ATC 13)	4764	18699	25.5%	5524	29.5%	Negligible	Negligible
B9097 Ballingry (ATC 12)	3133	24897	12.6%	3253	13.1%	Negligible	Negligible
B921 / B981 Auchterderran (ATC 10)	5547	21563	25.7%	5607	26.0%	Negligible	Negligible
B981 Lochgelly (ATC 10)	5547	21563	25.7%	5667	26.3%	Negligible	Negligible
B9149 Lochgelly (ATC 9)	14524	23727	61.2%	14644	61.7%	Medium	Negligible
U019 Lochgelly (ATC 11)	1321	15248	8.7%	1441	9.5%	Negligible	Negligible
C48 Loch Gelly (ATC 8)	2480	16527	15.0%	2600	15.7%	Negligible	Negligible
U033 Auchtertool (ATC 5)	327	16076	2.0%	447	2.8%	Negligible	Negligible
A909 Mossmorran (ATC 14)	7358	22096	33.3%	7478	33.8%	Low	Negligible
B925 Auchtertool (ATC 6)	1739	19886	8.7%	1859	9.3%	Negligible	Negligible
A921 Dalgety Bay (ATC 17)	12140	29732	40.8%	12200	41.0%	Low	Negligible
B9157 Aberdour (ATC 18)	5320	23590	22.6%	5380	22.8%	Negligible	Negligible
B9157 Invertiel (ATC 3)	4412	22369	19.7%	4532	20.3%	Negligible	Negligible
A921 Kinghorn (ATC 1)	9171	23586	38.9%	9291	39.4%	Low	Negligible

Cumulative Development

Road Link	2029 Baseline	Congestion Reference Flows	Baseline % of CRF	2029 Baseline + Cumulative Development Construction Daily Traffic	2029 Baseline + Cumulative Development Construction Traffic % of CRF	Baseline Level of CRF	Magnitude of Change
	All Vehs			All Vehs			
B9097 Loch Leven (ATC 13)	4764	18699	25.5%	5718	30.6%	Negligible	Low
B9097 Ballingry (ATC 12)	3133	24897	12.6%	4087	16.4%	Negligible	Negligible
B921 / B981 Auchterderran (ATC 10)	5547	21563	25.7%	5607	26.0%	Negligible	Negligible
B981 Lochgelly (ATC 10)	5547	21563	25.7%	5667	26.3%	Negligible	Negligible
B9149 Lochgelly (ATC 9)	14524	23727	61.2%	15452	65.1%	Medium	Negligible
U019 Lochgelly (ATC 11)	1321	15248	8.7%	1486	9.7%	Negligible	Negligible
C48 Loch Gelly (ATC 8)	2480	16527	15.0%	2961	17.9%	Negligible	Negligible
U033 Auchtertool (ATC 5)	327	16076	2.0%	808	5.0%	Negligible	Negligible
A909 Mossmorran (ATC 14)	7358	22096	33.3%	7726	35.0%	Low	Negligible
B925 Auchtertool (ATC 6)	1739	19886	8.7%	1935	9.7%	Negligible	Negligible
A921 Dalgety Bay (ATC 17)	12140	29732	40.8%	12200	41.0%	Low	Negligible
B9157 Aberdour (ATC 18)	5320	23590	22.6%	5380	22.8%	Negligible	Negligible
B9157 Invertiel (ATC 3)	4412	22369	19.7%	4584	20.5%	Negligible	Negligible
A921 Kinghorn (ATC 1)	9171	23586	38.9%	9291	39.4%	Low	Negligible

Appendix I - Framework Construction Traffic Management Plan

Framework Construction Traffic Management Plan

Purpose

The purpose of this framework CTMP is to provide a framework from which a finalised CTMP can be developed post-consent. This framework outlines the measures which could be used during the construction of the proposed development to mitigate transport-related impacts. Access to the proposed development by HGVs and construction plant vehicles would be planned, managed and executed by the applicant's appointed contractor to ensure the safety and reliability of deliveries to site, reduce congestion on the local road network and minimise the environmental impact.

CTMP Development

The opportunity to develop, amend and enhance the finalised CTMP in response to comments received on this framework document and through the planning and consultation process should be recognised.

The CTMP will consider feedback from residents and community groups and be developed in consultation with Fife Council to establish appropriate methods in which the impact of traffic related to the proposed scheme's construction can be minimised.

This document would be updated as necessary with input from Fife Council following feedback from their consultation and planning process.

Hours of Work

Working hours for construction activities related to the Proposed Scheme would be agreed with Fife Council, but are anticipated to be:

- 07:00 to 19:00 Monday to Friday;
- Saturday 08:00 to 17:00; and
- No construction should be carried out on Sundays or bank holidays unless in exceptional circumstances.
- Any work which is required or intended to take place outside of these hours, except for emergency situations, would be subject to prior agreement or reasonable notice to Fife Council.

Site Access Points

The site access points would be secured by hoarded gates and during working hours would remain under control of an appointed person who would physically control entry to site. Traffic entering or exiting the site would give way to road traffic on the public road network. Vehicles would leave and access the site via the existing site access junctions and site traffic would be managed so that no vehicles would be required to stop on the public road itself when accessing the site.

Construction traffic warning signs will be located and maintained throughout the duration of construction works. These would be situated at agreed locations to warn road users of construction route access junctions, and to warn of construction traffic turning to and from public roads. Away from public roads appropriate warning signs would be located along access tracks used by construction vehicles to identify construction routes to persons exercising their access rights in accordance with the Land Reform (Scotland) Act 2003. The Scottish Outdoor Access Code 2005 stipulates that access rights do not apply to building, civil engineering or demolition sites, and so measures can be put in place to restrict access to the construction site. Restricting public access to, along or across the entire length of the access track to site would be impractical. It is more practical to consider tactical signage warning the public that construction traffic will be present on these routes. Particularly at locations where members of the public exercising their access rights may be more likely to appear, such as obvious paths or routes that join or cross the construction traffic route. Construction vehicle drivers will also be required to behave

appropriately should they encounter members of the public exercising access rights. Driving behaviours will be mandated that provide and maintain road safety for all traffic, including the safety of pedestrian and cycle traffic in the environs of construction traffic routes.

Construction Traffic Routing

It will be a key responsibility of applicant or appointed contractor to ensure that each sub-contractor is aware of the route restrictions prior to any works taking place and to enforce the restrictions stated in the proposed development's CTMP.

The site gates will be manned and controlled during normal site working hours and any vehicle arriving on site will be guided to the required location for loading or unloading.

The appointed contractor would also be responsible for mitigating, where possible, the cumulative impacts of other construction projects in the area through careful consideration of routing and access timings.

Likely routes that HGV construction traffic will follow will include:

- M90
- A92
- A921
- A909
- Local roads

It is considered that each of these routes can accommodate the additional construction traffic required for the proposed development. Staff will make their own way via a variety of routes depending on their home location but the impact of staff journeys on the local road network is expected to be negligible.

Deliveries

Due to the scale of the proposed development, the number of daily deliveries throughout the construction phases is anticipated to be low and the disruption imposed on other road users would be minimised due to the scheduling of deliveries and material removal.

Construction materials that are delivered will be stored on-site.

Enforcement

All contractors would be required to adhere to the CTMP. Compliance will be monitored by the applicant's site representative via spot checks to ensure that vehicles follow the measures set out in the CTMP.

Speed Limit

The applicant would ensure that all site traffic abides by local speed limits to maintain the safety of other road users and pedestrians. A speed limit of 5 mph would be established and enforced throughout the duration of construction works to provide a safe environment for site workers and any pedestrians which pass the proposed scheme.

Signage would be in place prior to any works taking place which will advise of any permanent speed limits which are in force and all site workers or haulage sub-contractors would be made aware of the speed requirements as part of their Site induction.

Summary

This section discusses the potential traffic management arrangements during construction at the site and provides an assessment of the impacts on the site during this period.

The hours of work at the Site are expected to be 07:00 – 19:00 from Monday to Friday and 08:00 – 17:00 on Saturdays with no work taking place on Sundays and bank holidays.

The site would be secured by hoarded gates and during working hours would remain under control of an appointed person who would physically control entry to site. Traffic entering or exiting the site would give way to road traffic on the public road network. No construction vehicles would require to stop on the public road.

It is anticipated that the likely routes of construction traffic would be via the M90, A92, A921 and A909 and local roads around the Proposed Development site. It shall be the responsibility of the appointed contractor to assess these routes for restrictions and mitigate any cumulative impacts of construction traffic.

The number of deliveries to the site is anticipated to be low with all construction materials to be stored and secured on site.

All traffic will abide by local speed limits with a 5mph speed limit enforced within sites.

Appendix J - Cumulative Development Construction Traffic

Cumulative Developments

*Construction traffic estimated from similar projects

Planning Applications	23/02588/FULL - Glenniston Solar Project		138G/EIA - Baltbie Energy Crop and Landfill Restoration pr		*24/01927/SCO - Westfield substation extension		*24/01928/SCO - Mossmorran Substation		*24/01809/SCR - The Avenue Residential		*22/02323/FULL - Glenniston Battery Storage Facility		21/03531/FULL - Solar Farm and Battery Storage		*24/01866/CON - Mossmorran BESS		*23/01697/EPN - Muirhead Cardenden overhead		25/00983/CON - Former Fife Power Station BESS		*25/00409/CON - Glenniston BESS		*25/00615/CON - Glenniston 2 BESS		*ECU00006211 - Westfield BESS		*25/00552/PAN - Data centre complex at data halls,		Cumulative Total	
Study Area Roads	Car / LGV	HGV	Car / LGV	HGV	Car / LGV	HGV	Car / LGV	HGV	Car / LGV	HGV	Car / LGV	HGV	Car / LGV	HGV	Car / LGV	HGV	Car / LGV	HGV	Car / LGV	HGV	Car / LGV	HGV	Car / LGV	HGV	Car / LGV	HGV	Car / LGV	HGV	Car / LGV	HGV
M90 north					20	18							27	5						5									47	28
M90 south					20	18							27	5						5									47	28
B9097 Loch Leven					40	36							54	10						10							24	20	118	76
B9097 Ballingry					40	36							54	10						10							24	20	118	76
B921 / B981 Auchtertool																													0	0
B981 Lochgelly																													0	0
B9149 Lochgelly	64	10							447		24	20					48	31					24	20	24	20			40	36	671	137
U019 Lochgelly									45																						45	0
C48 Loch Gelly	64	10									24	20					48	31					24	20	24	20			40	36	224	137
A92 Crossgates	64	10	12	40			40	36			24	20			24	20	48	31					24	20	24	20			40	36	300	233
A92 Lochgelly	64	10							447		24	20					48	31					24	20	24	20			40	36	671	137
U033 Auchtertool*	64	10									24	20					48	31					24	20	24	20			40	36	224	137
A909 Mossmoran			12	40			40	36							24	20													40	36	116	132
A909 Goathill Quarry			12	40																									12	40
B925 Auchtertool																													40	36	40	36
A921 Dalgety Bay																															0	0
B9157 Aberdour																															0	0
B9157 Inverkeit			12	40																											12	40
A921 Kinghorn																															0	0

Developments not Included in Cumulative	Reasoning
24/01095/ARC - Erection of a house	No construction traffic information available on planning portal - singular dwelling unlikely to have material impact.
23/02776/CON - Kirklands Farm Battery Energy Storage System (BESS)	Listed as 'case closed' on the planning portal with no documentation provided.
25/01221/FULL - Erection of 4 no. dwellinghouses, and associated works	No construction traffic information available on planning portal - small number of dwellings unlikely to have material impact.
24/03346/NEA - Tealing to Kincardine upgrade project - three spans of overhead line supported by two temporary masts between existing towers	No construction traffic information available on planning portal - small section of overhead line unlikely to have material impact.
25/01519/PAN - Proposal of Application Notice for residential development including commercial, formation of accesses, landscaping, open space, drainage and other associated infrastructure	Only at the registry stage of pre-application, note included in cumulative assessment numbers at this time

Appendix K - Fear and Intimidation on and by Road Users Data Assessment – Cumulative Development

Traffic data collected via ATC in May 2025 and DfT data was used as the baseline to provide a robust fear and intimidation assessment as higher vehicle numbers could result in higher levels of fear and intimidation being experienced on road links. The results of the fear and intimidation magnitude of change assessment for the cumulative development assessment are included at the end of this Appendix and are summarised in Table 1 4.

Table 1-4: Fear and Intimidation Magnitude of Change Assessment Summary - Cumulative Development

Road Link	Magnitude of Change Cumulative Development
M90 north	Negligible
M90 south	Low
B9097 Loch Leven	Negligible
B9097 Ballingry	Negligible
B921 / B981 Auchterderran	Negligible
B981 Lochgelly	Negligible
B9149 Lochgelly	Negligible
U019 Lochgelly	Negligible
C48 Loch Gelly	Negligible
A92 Crossgates	Negligible
A92 Lochgelly	Negligible
U033 Auchtertool	Negligible
A909 Mossmorran	Negligible
A909 Goathill Quarry	Negligible
B925 Auchtertool	Negligible
A921 Dalgety Bay	Negligible
B9157 Aberdour	Negligible
B9157 Invertiel	Negligible
A921 Kinghorn	Negligible

IEMA Environmental Assessment of Traffic and Movement - Fear and Intimidation

Study Area Roads Existing Traffic

Existing Fear and Intimidation Level

Road	Between		18-Hour Average Traffic (Veh/s / Hour)	Total 18-Hour HGV Traffic	Average Vehicle Speed (mph)	18-Hour Average Traffic (Veh/s / Hour)	Total 18-Hour HGV Traffic	Average Vehicle Speed (mph)	Degree of Hazard Score	Fear and Intimidation Level
B9097 Loch Leven	M90 (Junction 5)	B9097 / B920 junction (Kirkness Livery Yard)	236	86	44	<600 0	<1,000 0	40+ 30	30	Moderate
B9097 Ballingry	B9097 / B920 junction (Kirkness Livery Yard)	B9097 / B921 junction	152	74	57	<600 0	<1,000 0	40+ 30	30	Moderate
B981 Lochgelly	B981 / Pitcairn Road junction	B981 / B9149 Roundabout	265	85	48	<600 0	<1,000 0	40+ 30	30	Moderate
B9149 Lochgelly	B981 / B9149 Roundabout	B9149 / A92 junction	715	228	37	600-1,200 10	<1,000 0	30-40 20	30	Moderate
U019 Lochgelly	B981 / U019 junction	B9149 / U019 Roundabout	63	124	24	<600 0	<1,000 0	20-30 10	10	Small
C48 Loch Gelly	B9149 / A92 junction	C48 Loch Gelly / C2 Dundonald junction	118	11	49	<600 0	<1,000 0	40+ 30	30	Moderate
A92 Crossgates	A92 at Crossgates	A92 Cowdenbeath junction	2,824	2,439	70	1,800+ 30	2,000-3,000 20	40+ 30	80	Extreme
A92 Lochgelly	A92 Cowdenbeath junction	A92 Chapel junction	2,632	3,654	70	1,800+ 30	3,000+ 30	40+ 30	90	Extreme
U033 Auchtertool	U033 Auchtertool / C48 Loch Gelly junciton	U033 / B925 Auchtertool junction	16	1	60	<600 0	<1,000 0	40+ 30	30	Moderate
A909 Mossmorran	A92 / A909 Bridge Street junction	A909 / B925 Roundabout	351	265	53	<600 0	<1,000 0	40+ 30	30	Moderate
A909 Goathill Quarry	A909 / B925 Roundabout	A909 / B9157 junction	255	328	60	<600 0	<1,000 0	40+ 30	30	Moderate
B925 Auchtertool	A909 / B925 Roundabout	B925 Boglily Road / U034 Lambert's Mill	87	8	45	<600 0	<1,000 0	40+ 30	30	Moderate
A921 Dalgety Bay	M90 (Junction 1C)	A921 / B9157 Roundabout	645	156	47	600-1,200 10	<1,000 0	40+ 30	40	Moderate
B9157 Aberdour	A921 / B9157 Roundabout	A909 / B9157 junction	261	86	53	<600 0	<1,000 0	40+ 30	30	Moderate
B9157 Invertiel	A909 / B9157 junction	B9157 Invertiel Road / A921 Kinghorn Road junction	212	58	50	<600 0	<1,000 0	40+ 30	30	Moderate
A921 Kinghorn	B9157 Invertiel Road / A921 Kinghorn Road junction	A921 Kinghorn Road / B923 Orchard Terrace Junction	468	63	36	<600 0	<1,000 0	30-40 20	20	Small
B921 / B981 Auchterderran	B9097 / B921 junction	B981 / Pitcairn Road junction	265	85	48	<600 0	<1,000 0	40+ 30	30	Moderate
M90 north	M90 (Junction 5)	M90 (Junction 6)	1,685	2,825	70	1,200-1,800 20	2,000-3,000 20	40+ 30	70	Great
M90 south	M90 (Junction 5)	M90 (Junction 4)	1,786	2,411	70	1,200-1,800 20	2,000-3,000 20	40+ 30	70	Great

IEMA Environmental Assessment of Traffic and Movement - Fear and Intimidation

Study Area Roads Existing Traffic + Development Traffic

Forecast Fear and Intimidation Level

Road	18-Hour Average Traffic (Veh/s / Hour)	Total 18-Hour HGV Traffic	Average Vehicle Speed (mph)	18-Hour Average Traffic (Veh/s / Hour)	Total 18-Hour HGV Traffic	Average Vehicle Speed (mph)	Degree of Hazard Score	Fear and Intimidation Level
B9097 Loch Leven	289	222	44	<600 0	<1,000 0	40+ 30	30	Moderate
B9097 Ballingry	205	210	57	<600 0	<1,000 0	40+ 30	30	Moderate
B981 Lochgelly	274	115	48	<600 0	<1,000 0	40+ 30	30	Moderate
B9149 Lochgelly	802	365	37	600-1,200 10	<1,000 0	30-40 20	30	Moderate
U019 Lochgelly	79	184	24	<600 0	<1,000 0	20-30 10	10	Small
C48 Loch Gelly	166	208	49	<600 0	<1,000 0	40+ 30	30	Moderate
A92 Crossgates	2,889	2,732	70	1,800+ 30	2,000-3,000 20	40+ 30	80	Extreme
A92 Lochgelly	2,725	3,851	70	1,800+ 30	3,000+ 30	40+ 30	90	Extreme
U033 Auchtertool	70	258	60	<600 0	<1,000 0	40+ 30	30	Moderate
A909 Mossmorran	393	517	53	<600 0	<1,000 0	40+ 30	30	Moderate
A909 Goathill Quarry	273	428	60	<600 0	<1,000 0	40+ 30	30	Moderate
B925 Auchtertool	106	104	45	<600 0	<1,000 0	40+ 30	30	Moderate
A921 Dalgety Bay	657	216	47	600-1,200 10	<1,000 0	40+ 30	40	Moderate
B9157 Aberdour	270	146	53	<600 0	<1,000 0	40+ 30	30	Moderate
B9157 Invertiel	223	158	50	<600 0	<1,000 0	40+ 30	30	Moderate
A921 Kinghorn	474	123	36	<600 0	<1,000 0	30-40 20	20	Small
B921 / B981 Auchterderran	341	245	48	<600 0	<1,000 0	40+ 30	30	Moderate
M90 north	1,731	2,932	70	1,200-1,800 20	2,000-3,000 20	40+ 30	70	Great
M90 south	1,832	2,518	70	1,800+ 30	2,000-3,000 20	40+ 30	80	Extreme

IEMA Environmental Assessment of Traffic and Movement - Fear and Intimidation Magnitude of Change

Road	Existing Fear and Intimidation Level	Forecast Fear and Intimidation Level	Step Change in Fear and Intimidation Level	Increase in Average Hourly Traffic (All Vehicles)	Increase in Daily HGV Traffic	Condition for Medium Increase in Magnitude of Change	Fear and Intimidation Magnitude of Change
B9097 Loch Leven	Moderate	Moderate	0	53	136	FALSE	Negligible
B9097 Ballingry	Moderate	Moderate	0	53	136	FALSE	Negligible
B981 Lochgelly	Moderate	Moderate	0	9	30	FALSE	Negligible
B9149 Lochgelly	Moderate	Moderate	0	87	137	FALSE	Negligible
U019 Lochgelly	Small	Small	0	17	60	FALSE	Negligible
C48 Loch Gelly	Moderate	Moderate	0	48	197	FALSE	Negligible
A92 Crossgates	Extreme	Extreme	0	65	293	FALSE	Negligible
A92 Lochgelly	Extreme	Extreme	0	93	197	FALSE	Negligible
U033 Auchtertool	Moderate	Moderate	0	54	257	FALSE	Negligible
A909 Mossmorran	Moderate	Moderate	0	43	252	FALSE	Negligible
A909 Goathill Quarry	Moderate	Moderate	0	17	100	FALSE	Negligible
B925 Auchtertool	Moderate	Moderate	0	20	96	FALSE	Negligible
A921 Dalgety Bay	Moderate	Moderate	0	12	60	FALSE	Negligible
B9157 Aberdour	Moderate	Moderate	0	9	60	FALSE	Negligible
B9157 Invertiel	Moderate	Moderate	0	11	100	FALSE	Negligible
A921 Kinghorn	Small	Small	0	6	60	FALSE	Negligible
B921 / B981 Auchterderran	Moderate	Moderate	0	76	160	FALSE	Negligible
M90 north	Great	Great	0	46	107	FALSE	Negligible
M90 south	Great	Extreme	1	46	107	FALSE	Low

Appendix L - Accident Severity Assessment - Cumulative Development

The calculation for forecasting increases in road traffic accidents for the cumulative assessment during the construction period of the Proposed Development has been based on 2025 traffic survey data and DfT traffic count data and accident history gathered from Police Scotland and CrashMap. 2025 traffic survey data and DfT traffic count data have been used to calculate a 'total annual vehicle kilometres' for each link in the study area. The Police Scotland and CrashMap data for each link has then been used to derive a 'vehicle accident rate' for each link for 'slight,' 'serious' and 'fatal' accident severities. This rate is then applied to the increased vehicle kilometres generated because of the construction of the cumulative developments to arrive at a forecast for additional vehicle accidents.

Table 1-5 forecasts additional annual road traffic accidents during the construction period of the Proposed Development as a result of the cumulative developments.

Table 1-5: Forecast Road Accidents on Study Area Roads - Cumulative Development

Road Link	Recorded 2020-2023			The Proposed Development (Annual)		
	Slight	Serious	Fatal	Slight	Serious	Fatal
M90 north	3	3	0	0.0	0.0	0.0
M90 south	1	1	1	0.0	0.0	0.0
B9097 Loch Leven	2	1	0	0.3	0.1	0.0
B9097 Ballingry	0	1	0	0.0	0.2	0.0
B921 / B981 Auchterderr an	1	1	0	0.0	0.0	0.0
B981 Lochgelly	2	1	0	0.0	0.0	0.0
B9149 Lochgelly	3	0	0	0.0	0.0	0.0
U019 Lochgelly	0	0	0	0.0	0.0	0.0
C48 Loch Gelly	1	1	0	0.3	0.3	0.0
A92 Crossgates	4	6	1	0.0	0.0	0.0

A92 Lochgelly	13	7	1	0.1	0.0	0.0
U033 Auchtertool	0	0	0	0.0	0.0	0.0
A909 Mossmorran	6	3	0	0.6	0.3	0.0
A909 Goathill Quarry	0	0	0	0.0	0.0	0.0
B925 Auchtertool	3	0	0	0.5	0.0	0.0
A921 Dalgety Bay	3	3	1	0.0	0.0	0.0
B9157 Aberdour	3	1	0	0.1	0.0	0.0
B9157 Invertiel	5	4	0	0.0	0.0	0.0
A921 Kinghorn	2	0	0	0.0	0.0	0.0

Study Area Roads			Baseline Accident Rates per 1 Million Vehicle Kilometres									Forecast Development Traffic Accidents				
Road	Between		Length of Road (Km)	Baseline Total Vehicles	Baseline Vehicle Km	Recorded Injury Accidents			Recorded Injury Accidents per 1 Million Vehicle Km			Development Total Vehicles	Development Vehicle Km	Forecast Injusy Accidents		
						Slight	Serious	Fatal	Slight	Serious	Fatal			Slight	Serious	Fatal
B9097 Loch Leven	M90 (Junction 5)	B9097 / B920 junction (Kirkness Livery Yard)	7	6,954,911	45,902,416	2	1	0	4.357E-02	2.179E-02	0.000E+00	960,960	6,342,336	0.3	0.1	0.0
B9097 Ballingry	B9097 / B920 junction (Kirkness Livery Yard)	B9097 / B921 junction	4	4,574,209	17,153,285	0	1	0	0.000E+00	5.830E-02	0.000E+00	960,960	3,603,600	0.0	0.2	0.0
B921 / B981 Auchterderran	B9097 / B921 junction	B981 / Pitcairn Road junction	3	8,099,219	24,297,656	1	1	0	4.116E-02	4.116E-02	0.000E+00	63,360	190,080	0.0	0.0	0.0
B981 Lochgelly	B981 / Pitcairn Road junction	B981 / B9149 Roundabout	2	8,099,219	16,198,437	2	1	0	1.235E-01	6.173E-02	0.000E+00	126,720	253,440	0.0	0.0	0.0
B9149 Lochgelly	B981 / B9149 Roundabout	B9149 / A92 junction	1	21,204,403	21,204,403	3	0	0	1.415E-01	0.000E+00	0.000E+00	63,360	63,360	0.0	0.0	0.0
U019 Lochgelly	B981 / U019 junction	B9149 / U019 Roundabout	2	1,929,320	3,858,640	0	0	0	0.000E+00	0.000E+00	0.000E+00	126,720	253,440	0.0	0.0	0.0
C48 Loch Gelly	B9149 / A92 junction	C48 Loch Gelly / C2 Dundonald junction	2	3,620,117	5,611,181	1	1	0	1.782E-01	1.782E-01	0.000E+00	979,968	1,518,950	0.3	0.3	0.0
A92 Crossgates	A92 at Crossgates	A92 Cowdenbeath junction	4	78,486,184	313,944,734	4	6	1	1.274E-02	1.911E-02	3.185E-03	174,240	696,960	0.0	0.0	0.0
A92 Lochgelly	A92 Cowdenbeath junction	A92 Chapel junction	9	73,161,683	658,455,150	13	7	1	1.974E-02	1.063E-02	1.519E-03	507,936	4,571,424	0.1	0.0	0.0
U033 Auchtertool*	U033 Auchtertool / C48 Loch Gelly junciton	U033 / B925 Auchtertool junction	3	247,581	742,743	0	0	0	0.000E+00	0.000E+00	0.000E+00	752,928	2,258,784	0.0	0.0	0.0
A909 Mossmorran	A92 / A909 Bridge Street junction	A909 / B925 Roundabout	2	10,742,598	21,485,196	6	3	0	2.793E-01	1.396E-01	0.000E+00	1,043,328	2,086,656	0.6	0.3	0.0
A909 Goathill Quarry	A909 / B925 Roundabout	A909 / B9157 junction	2	7,099,837	15,619,641	0	0	0	0.000E+00	0.000E+00	0.000E+00	507,936	1,117,459	0.0	0.0	0.0
B925 Auchtertool	A909 / B925 Roundabout	B925 Boglily Road / U034 Lambert's Mill	5	2,539,214	12,696,072	3	0	0	2.363E-01	0.000E+00	0.000E+00	388,608	1,943,040	0.5	0.0	0.0
A921 Dalgety Bay	M90 (Junction 1C)	A921 / B9157 Roundabout	6	17,724,683	106,348,099	3	3	1	2.821E-02	2.821E-02	9.403E-03	181,632	1,089,792	0.0	0.0	0.0
B9157 Aberdour	A921 / B9157 Roundabout	A909 / B9157 junction	4	7,767,098	31,068,391	3	1	0	9.656E-02	3.219E-02	0.000E+00	206,976	827,904	0.1	0.0	0.0
B9157 Invertiel	A909 / B9157 junction	B9157 Invertiel Road / A921 Kinghorn Road junction	8	6,441,634	51,533,071	5	4	0	9.703E-02	7.762E-02	0.000E+00	63,360	506,880	0.0	0.0	0.0
A921 Kinghorn	B9157 Invertiel Road / A921 Kinghorn Road junction	A921 Kinghorn Road / B923 Orchard Terrace Junction	3	13,388,997	40,166,991	2	0	0	4.979E-02	0.000E+00	0.000E+00	63,360	190,080	0.0	0.0	0.0
M90 north	M90 (Junction 5)	M90 (Junction 6)	5	46,833,562	234,167,809	3	3	0	1.281E-02	1.281E-02	0.000E+00	63,360	316,800	0.0	0.0	0.0
M90 south	M90 (Junction 5)	M90 (Junction 4)	5	49,632,434	248,162,171	1	1	1	4.030E-03	4.030E-03	4.030E-03	181,632	908,160	0.0	0.0	0.0

Road	Average Daily Traffic	Days Per Year	Traffic per Annum	Recorded Accident Period (Years)	Total Traffic for Accident Period
B9097 Loch Leven	4,764	365	1,738,728	4	6,954,911
B9097 Ballingry	3,133	365	1,143,552	4	4,574,209
B921 / B981 Auchterderran	5,547	365	2,024,805	4	8,099,219
B981 Lochgelly	5,547	365	2,024,805	4	8,099,219
B9149 Lochgelly	14,524	365	5,301,101	4	21,204,403
U019 Lochgelly	1,321	365	482,330	4	1,929,320
C48 Loch Gelly	2,480	365	905,029	4	3,620,117
A92 Crossgates	53,758	365	19,621,546	4	78,486,184
A92 Lochgelly	50,111	365	18,290,421	4	73,161,683
U033 Auchtertool*	327	365	119,262	4	477,046
A909 Mossmorran	7,358	365	2,685,650	4	10,742,598
A909 Goathill Quarry	4,863	365	1,774,959	4	7,099,837
B925 Auchtertool	1,739	365	634,804	4	2,539,214
A921 Dalgety Bay	12,140	365	4,431,171	4	17,724,683
B9157 Aberdour	5,320	365	1,941,774	4	7,767,098
B9157 Invertiel	4,412	365	1,610,408	4	6,441,634
A921 Kinghorn	9,171	365	3,347,249	4	13,388,997
M90 north	32,078	365	11,708,390	4	46,833,562
M90 south	33,995	365	12,408,109	4	49,632,434

Number of Stdy Area Roads	19

Road	Average Daily Traffic	Days Per Year	Traffic per Annum	Recorded Accident Period (Years)	Total Development Traffic for Accident Period
B9097 Loch Leven	954	264	251,856	4	1,007,424
B9097 Ballingry	954	264	251,856	4	1,007,424
B921 / B981 Auchterderran	60	264	15,840	4	63,360
B981 Lochgelly	120	264	31,680	4	126,720
B9149 Lochgelly	928	264	244,992	4	979,968
U019 Lochgelly	165	264	43,560	4	174,240
C48 Loch Gelly	481	264	126,984	4	507,936
A92 Crossgates	713	264	188,232	4	752,928
A92 Lochgelly	988	264	260,832	4	1,043,328
U033 Auchtertool*	481	264	126,984	4	507,936
A909 Mossmorran	368	264	97,152	4	388,608
A909 Goathill Quarry	172	264	45,408	4	181,632
B925 Auchtertool	196	264	51,744	4	206,976
A921 Dalgety Bay	60	264	15,840	4	63,360
B9157 Aberdour	60	264	15,840	4	63,360
B9157 Invertiel	172	264	45,408	4	181,632
A921 Kinghorn	120	264	31,680	4	126,720
M90 north	455	264	120,120	4	480,480
M90 south	455	264	120,120	4	480,480

Vehicle Km Metric
1,000,000