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Environmental Impact Assessment Record of Determination

A1 South of Dolphingstone Northbound

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Project Details

Description

BEAR Scotland has been commissioned by Transport Scotland to carry out resurfacing works on the A1 northbound carriageway. The works will involve resurfacing to an inlay of 170mm alongside a 170mm crack, seat and overlay. The works will involve the reinstatement of road markings and studs for a length of 1317m (1.35ha).

The construction activities for the resurfacing procedure are as follows:

- Set up traffic management (TM) and mark out site.
- Milling of existing bituminous material by road planer.
- Jackhammer and compressor for breaking up surfaces not accessible by planer (e.g. around gullies).
- Loader/excavator used to collect and move excess material.
- Sweeper to collect loose material and provide clean laying surface.
- Milled out/excavated materials all taken off site.
- Tack/bond coat laid.
- Base / binder material laid and compressed by paver (where required).
- Material compacted using a heavy roller.
- New bituminous surface course material laid by paver.
- Crack and seat treatment and overlay.
- Material compacted using a heavy roller.
- Mechanical sweeper to collect loose material.
- Heavy Goods Vehicle (HGV) for removal and replacement of material.
- Road markings and studs applied where necessary (in accordance with the [Traffic Signs Manual, Chapter 5](#)).
- Remove TM and open road.

The works are currently programmed to be completed within the 2026 / 2027 financial year, with works due to commence on 12th October 2026 for a duration of 14 nights with no works being undertaken on Saturdays or Sundays. TM will involve a full nighttime road closure with a signed diversion. Traffic will be diverted to leave the A1 at the Bankton Junction and follow the A1198, B1361 and A199 to rejoin the A1 at the Wallyford Junction. An additional 10 minutes and 1.2 miles will be added to road users' journey.

Location

The scheme lies on the A1, approx. 0.8km northeast of Wallyford, within the boundary of the East Lothian Council local authority area and is predominantly bordered by agricultural land (Figure 1).

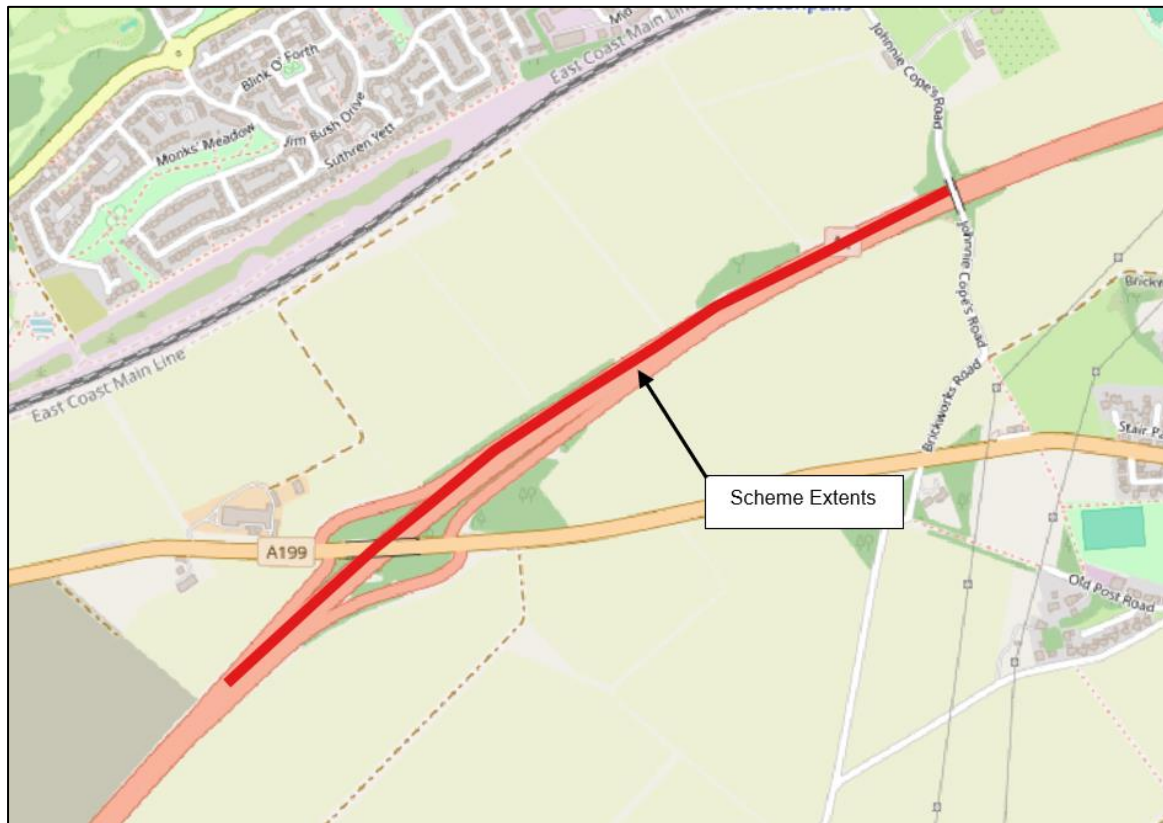


Figure 1: A1 South of Dolphingstone Northbound Scheme Extents (Highlighted Red) - Source: Asset Management Performance System (AMPS). © Europa Technologies Ltd. Contains Ordnance Survey data © Crown copyright and database right 2018.

Description of local environment

Air quality

Receptors – refer to ‘Population and Human Health’.

A search of the [Air Quality in Scotland](#) online mapping shows that air quality monitoring sites in the wider area record bandings in the ‘green zone’ (Low Index 1-3).

The scheme extents lie within the boundary of East Lothian Council which currently has one active [Air Quality Management Area](#) (AQMA) within its administrative boundary, ‘High Street, Musselburgh’, which lies approx. 3.7km west of the scheme extents and has been declared for nitrogen dioxide (NO₂).

There are five sites registered on the Scottish Pollutant Release Inventory ([SPRI](#)) for pollutant releases to air within 10km of the scheme within the last 10 years:

- Charles River Laboratories Edinburgh Limited – Waste and Waste-Water Management, declared for cadmium, located approx. 2.2km southeast of the scheme.
- Millerhill Anaerobic Digestion Facility, Dalkeith – Waste and Waste-Water Management, declared for ammonia, carbon monoxide and methane, located approx. 6.3km southwest of the scheme.
- Millerhill Recycling and Energy Recovery Centre – Waste and Waste-Water Management, declared for antimony, cadmium, carbon dioxide (CO₂), chromium, copper, dioxins and furans as WHO TEQ, manganese, mercury, nickel, NOs and NO₂, particulate matter (PM) PM_{2.5} and smaller, located approx. 6.4km southwest of the scheme.
- East Lothian Eggs at Howden Farm – Intensive Livestock Production and Aquaculture, declared for ammonia, located approx. 6.9km southwest of the scheme.
- Interflex Limited, Mayfield Industrial Estate, Dalkeith – Other Activities, declared for non-methane volatile organic compounds (NMVOCs), located approx. 9.4km southwest of the scheme.

Baseline air quality in the study area is mainly influenced by vehicles travelling along the A1 trunk road. Secondary sources are derived from day-to-day agricultural land management activities.

Cultural heritage

The [PastMap](#) and [Historic Environment Scotland \(HES\)](#) online mapping tools records five designated sites within 300m of the scheme extents:

- Battle of Prestonpans Inventory Battlefield (IB) lies partially within the scheme extents.
- Dolphingstone Dovecot Listed Building (ID: 17553) lies approx. 160m northwest of the scheme extents.
- Battle of Pinkie IB lies approx. 220m northwest of the scheme extents.
- Bankton House Garden House / Dovecot Listed Building (ID: 17548) lies approx. 250m northeast of the scheme extents.
- Bankton House (Colonel Gardiner's House) with Retaining Walls Listed Building (ID: 17546) lies approx. 280m northeast of the scheme extents.

There are no Garden's and Designed Landscapes, Scheduled Monuments, World Heritage Sites or Conservation Areas within 300m.

Of lesser cultural heritage value, approx. 39 undesigned cultural heritage assets (UCHAs) lie within 300m of the scheme extents, the closest of which lies within the southbound carriageway, adjacent to the northbound carriageway within the scheme extents:

- Dolphingstone National Record of the Historic Environment (NRHE) and Historic Environment Record (HER).

Construction of the A1 carriageway boundary and verge is likely to have removed any archaeological remains that may have been present within the trunk road boundary. The potential for the presence of unknown archaeological remains in the study area is therefore assessed to be low.

Landscape and visual effects

The scheme is not situated within a [National Scenic Area](#) or [National Park](#) (NP).

The Landscape Character Type (LCT) within the study area is 'Settled Coastal Farmland' (no. 279) ([Scottish Landscape Character Types](#)). The characteristics of which are:

- Coastline of low rocky platforms, small rocky headlands and sandy beaches.
- Almost continuously settled coastal strip giving the area an overall dominant urban/industrial character.

- Extensive fields of prime agricultural land which is being reduced in area due to settlement expansion.
- Prominent main road and rail transport corridors, as well as a dense network of minor roads.
- Estate and designed landscapes and boundary features.
- Visual clutter of vertical structures.
- Views across the coastal plain are often curtailed by development, especially in the westernmost part of this Landscape Character Type.

[Land use](#) within 300m of the scheme is categorised into the following:

- Motorway and major roads.
- Cultivated former parkland.
- Rectilinear fields and farms.
- Managed woodland.
- Designed landscape.

At the time of writing of this report the [National Scale Land Capability for Agriculture](#) map is unavailable.

There are two areas of lowland mixed deciduous woodland as registered on the [Native Woodland Survey of Scotland](#) (NWSS) within 300m of the scheme extents:

- Nearly-native (approx. 0.5ha) lies adjacent to the northbound carriageway within the scheme extents.
- Approx. 1ha lies approx. 48m south / southeast of the scheme extents.

There are no areas of woodland as registered on the [Ancient Woodland Inventory Scotland](#) within 300m of the scheme extents and there are no trees covered by a Tree Preservation Order (TPO) with connectivity to the scheme extents.

The existing trunk road is a prominent linear landscape feature. The trunk road corridor, for example, has a distinct character shaped by fast-flowing traffic, road markings, safety barriers, signage, landscaping etc. The scale of the trunk road detracts from the quality and character of the wider landscape.

Biodiversity

The [NatureScot Sitelink](#) online mapping tool identifies that the scheme lies within 2km of the Firth of Forth SPA and Ramsar Site and the Outer Firth of Forth and St

Andrews Bay Complex SPA and within the buffer zone of the qualifying feature of Fala Flow SPA and Ramsar Site and Gladhouse Reservoir SPA and Ramsar Site.

The Firth of Forth SPA and Ramsar Site is located approx. 1.4km north of the scheme extents.

The Outer Firth of Forth and St Andrews Bay Complex SPA is located approx. 1.5km north of the scheme extents.

Fala Flow SPA and Ramsar Site are located approx. 13.2km southeast of the scheme extents and Gladhouse Reservoir SPA and Ramsar Site are located approx. 19.9km southwest of the scheme extents.

There are no Sites of Special Scientific Interest ([SSSI](#)), Local Nature Conservation Sites ([LNCS](#)) or Local Nature Reserves (LNRs) within 300m of the scheme extents.

While not within 300m the Firth of Forth SPA is underpinned by the Firth of Forth SSSI (located approx. 1.4km north of the scheme).

The Outer Firth of Forth and St Andrews Bay Complex SPA is underpinned by Inchmickery SSSI (located approx. 19.2km northwest of the scheme), Bass Rock SSSI (located approx. 24.5km northeast of the scheme) and the Isle of May SSSI (approx. 36.5km northeast of the scheme). Fala Flow SPA is underpinned by Fala Flow SSSI (located approx. 13.2km southeast of the scheme). Gladhouse Reservoir SPA is underpinned by Gladhouse Reservoir SSSI (located approx. 19.9km southwest of the scheme).

The NBN atlas also holds records of numerous bird species within 2km over a ten-year period. Under the Wildlife and Countryside Act 1981 (as amended), all wild birds and their active nests (typically active March to August inclusive) are protected. No other species of conservation concern were identified within 2km of the scheme. Only records with open-use attributions (OGL, CC0, CC-BY) were included in the search criteria.

A search of the NBN online mapping tool records the following injurious and invasive plant species as listed within the Network Management Contract (NMC) lie within 2km of the scheme extents (within the last 10-years):

Invasive Non-Native Species (INNS):

- Giant hogweed (*Heracleum mantegazzianum*).

Injurious Weeds:

- Broadleaved dock (*Rumex obtusifolius*).
- Creeping thistle (*Cirsium arvense*).
- Spear thistle (*Cirsium vulgare*).
- Curled dock (*Rumex crispus*).
- Common ragwort (*Jacobaea vulgaris*).

Invasive Native Perennial:

- Rosebay willowherb (*Chamaenerion angustifolium*).

The closest record pertains to injurious weed spear thistle approx. 0.4km north of the scheme (recorded 2023).

A search of the Asset Management Performance System (AMPS) online mapping tool records one instance of invasive native perennial rosebay willowherb within the verge of the scheme extents.

Habitat immediately bordering the trunk road tends to be of low intrinsic value because the existing road verge is subject to cyclic maintenance e.g., grass cutting, weed control, tree, and shrub cut-back etc. The roadside verges are comprised of a homogenous managed areas of semi-improved grassland alongside sections of broadleaved woodland, tree lines and scrub. Roadside vegetation generally offers low ecological habitat due to its limited scale, fragmented nature and high potential for disturbance owing to cyclic landscape maintenance and the proximity of the trunk road (with its fast-flowing traffic). The presence of the trunk road also restricts continuity of, and connectivity between, habitats either side of the trunk road boundary.

Out with the trunk road boundary, an urban development lies southwest of the scheme while a town lies north and south of the scheme. In addition, agricultural surrounds the scheme in the wider area. Areas of agricultural land management restrict the occurrence of semi-natural and natural vegetation types. Most field boundaries are comprised of post-and-wire fencing and vegetative features further delineating field boundaries e.g., woodland, shrub hedgerow, rough grassland, ruderal herb stands and scrub. Linear features at field boundaries have wildlife value, both as corridors in an intensively managed landscape, and as habitats for birds and small animals.

Geology and soils

The A1 within the scheme extents is not located within 300m of a [Geological Conservation Review Site](#) (GCRS) and there are no [Local Geodiversity Sites](#) (LGS) within 300m of the scheme extents.

At the time of writing of this report the [National Soil Map of Scotland map](#) is unavailable.

The [British Geological Survey](#) online mapping tool records that the superficial geology within the scheme extents is partially comprised of:

- Till, Devensian (Diamicton).

The bedrock geology within the scheme extents is recorded as:

- Limestone Coal Formation, Sedimentary Rock Cycles (Clackmannan Group Type).
- Lower Limestone Formation, Sandstone with Argillaceous Rocks and Limestone.
- Second Hosie Limestone, Limestone.
- Top Hosie Limestone, Limestone.

There is no evidence of historical industrial processes or the storage of hazardous materials that could have given rise to significant land contamination.

The works will be limited to the like-for-like replacement of the existing A1 northbound carriageway boundary and depth. There are no geological designated features within or in close proximity to the scheme extents. Therefore, it is considered that there is no potential for impacts to geology and soils and this topic has been scoped out of further assessment.

Material assets and waste

The proposed works are required to replace the worn carriageway surface and reinstate road markings.

Materials used will consist of:

- TS2010 10mm Site Class 1.
- EME2 AC14 Binder.
- Tack / Bond coat, paving grade bitumen to seal vertical faces.

- Eurolite Thermoplastic Road Markings.
- Embedded Road Studs.

As the value of the scheme is greater than £350,000, a Site Waste Management Plan (SWMP) is required for this scheme.

The 1302m scheme involves removal of surface course and localised areas of binder. In total, approx. 5000 tonnes of bituminous material (European Waste Catalogue Code: 17 03 02) will be removed from site, none of which is classified as hazardous material containing coal tar.

Noise and vibration

Receptors – refer to ‘Population and Human Health’.

Works are not located within a [Candidate Quiet Area](#) (CQA).

The night-time modelled noise level (LNGT) ranges between 65 and 75 decibels (dB) within the scheme extents ([Scotland’s Noise](#)), with levels dropping to between 55 and 60 dB at the nearest noise sensitive receptor (NSR) (i.e., residential property).

The baseline noise and vibration in the scheme extents are primarily influenced by vehicles travelling along the A1 trunk road. Secondary sources most likely arise from day-to-day agricultural activities and from motor vehicles travelling along nearby roads.

Population and human health

Several residential properties, a business premise and an urban development lie within 300m of the scheme extents, the closest of which lies approx. 131m north of the scheme and is partially screened from the scheme at some sections by raised roadside verge and tree shelterbelt.

There are no non-motorised user (NMU) or community facilities with connectivity to the scheme.

Street lighting is not present within the scheme.

The A1, within the scheme extents, is a dual carriageway with the national speed limit applying throughout. The Average Daily Traffic (ADT) flow is high (53,433 motor vehicles) (ID: [JTC00402](#), 2026).

Road drainage and the water environment

The [Scottish Environment Protection Agency \(SEPA\) River Basin Management Plan](#) online mapping tool records no classified surface waterbodies within 300m of the scheme extents.

Two unclassified waterbodies lie within 300m of the scheme extents:

- Drain1 lies approx. 15m northwest of the scheme and is separated from the scheme by roadside verge.
- Drain2 lies approx. 27m southeast of the scheme and is separated from the scheme by the A1 southbound carriageway and roadside verge.

A search of the [SEPA's Flood Map](#) online mapping tool records that the M90 within the scheme extents is at a low – medium risk of surface water flooding (i.e., each year this area has a 0.1 – 0.5% chance of flooding).

A search of [Scotland's Environment \(SE\)](#) online mapping tool determined that the trunk road lies on the 'Dalkeith' groundwater, which has been classified as being in 'Poor' condition.

The scheme extents do not lie within a Nitrate Vulnerable Zone ([NVZ](#)).

Climate

The [Climate Change \(Scotland\) Act 2009](#) ('The Act'), and its subsequent amendment under the [Climate Change \(Emissions Reduction Targets\) \(Scotland\) Act 2019](#), sets the framework for the Scottish Government to address climate change. The Act has an ambitious target to reach Net Zero greenhouse gas emissions by 2045, with any residual emissions balanced by removing carbon dioxide from the atmosphere. This is five years earlier than the rest of the UK due to the greater potential for carbon sequestration in Scotland.

The Act was amended to replace interim targets with carbon budgets. Carbon budgets are legally binding caps on greenhouse gas emissions in Scotland over five-year periods. In line with the Act, the Climate Change Committee (CCC) published advice on the level of Scotland's four carbon budgets, covering the period 2026 to 2045, recommending what the Scottish Government sets its carbon budgets at for annual average levels of emissions. These recommendations are based on an ambitious but credible route to Net Zero for Scotland by 2045.

Emissions reductions from surface transport are the largest contribution to meeting the first two carbon budgets. The pathway for surface transport emission reduction is

primarily driven by the uptake of electric vehicles, in addition to measures to enable a shift from car use to public transport and active travel, which all play a role in reducing emissions from fossil fuel cars. Ensuring efficiency of existing transport infrastructure and improving/providing new active travel facilities is therefore important to support these carbon reduction budgets.

Transport is the largest contributor to harmful climate emissions in Scotland. In response to the climate emergency, Transport Scotland are committed to reducing their emissions by 75% by 2030 and to the above noted legally binding target of net-zero by 2045. Transport Scotland is committed to reducing carbon across Scotland's transport network and this commitment is being enacted through the Mission Zero for Transport ([Mission Zero for transport | Transport Scotland](#)).

Policies and plans

This Record of Determination has been undertaken in accordance with all relevant regulations, guidance, policies and plans, notably including the Environment and Sustainability Discipline of the Design Manual for Roads and Bridges ([Design Manual for Roads and Bridges \(DMRB\)](#)) and Transport Scotland's Environmental Impact Assessment Guidance ([Guidance - Environmental Impact Assessments for road projects](#)).

Description of main environmental impacts and proposed mitigation

Air quality

During the construction phase, activities undertaken on site could potentially have some minor localised and short-term air quality impacts in proximity to the works. The construction phase will, for example, require a range of ancillary plant, vehicles, and construction machinery which will contribute to local dust and air pollutants. The main sources are likely to be dust generated by cold milling in preparation of carriageway resurfacing, as well as exhaust emissions from ancillary plant and vehicles. As a result, there is potential for impacts to local air quality.

However, considering the nature and duration of the scheme, along with implementation of mitigation detailed below, the proposed works' impacts on local air quality levels during the construction period are assessed as not significant.

Upon completion of the works, no residual air quality impacts are anticipated.

- A water-assisted dust sweeper will sweep the carriageway after dust-generating activities, and waste will be contained and removed from site as soon as is practicable.
- Materials that have a potential to produce dust will be removed from site as soon as possible, and vehicles that remove cold-milled material from site will have sheeted covers.
- Ancillary plant, vehicles and NRMM will have been regularly maintained, paying attention to the integrity of exhaust systems.
- Ancillary plant, vehicles and NRMM will be switched off when stationary to prevent exhaust emissions (e.g., there will be no idling vehicles).
- Cutting, grinding, and sawing equipment (if required) will be fitted or used in conjunction with suitable dust suppression techniques e.g., local exhaust ventilation system that fits directly onto tools.
- Regular monitoring (e.g., by engineer or Clerk of Works) will take place when activities that have the potential to impact local air quality are occurring. In the unlikely event that unacceptable dust or exhaust emissions are emanating from the site, the operation will, where practicable, be modified and re-checked to verify that the corrective action has been effective. Actions to be considered include: (a) minimizing cutting and grinding on-site, (b) reducing the operating hours, (c) changing the method of working, etc.

Cultural heritage

The scheme extents lie within the designated cultural heritage site, the Battle of Prestonpans Battlefield, and within two UCHAs and as such, there is potential for the works to impact the assets. However, the scope of the works are confined to the existing A1 northbound road boundary and verge, with no earthworks required. Nevertheless, best practice mitigation measures will be implemented.

Furthermore, construction of the A1 road corridor is likely to have removed any archaeological remains that may have been present within the trunk road boundary. The potential for the presence of unknown archaeological remains in the study area has therefore been assessed to be low.

Considering the nature, duration, size, and scale of the scheme, and with the implementation of mitigation detailed below, the proposed works impact on cultural heritage are assessed as not significant.

Upon completion of the works, no residual impacts on cultural heritage are anticipated.

Cultural heritage mitigation measures:

- Site operatives will be made aware of the location and sensitivity of the Battle of Prestonpans Battlefield.
- People, ancillary plant, vehicles, NRMM and materials will be restricted to areas of made/engineered ground (as much as is reasonably practicable) and will avoid entering the verge. Where access out with made/engineered ground is required for the safe and effective completion of the scheme, the area will be reduced as much as is reasonably practicable and ideally will be accessed on foot.
- If a change to the construction programme onsite is required that necessitates earthworks or vegetation clearance, BEAR Scotland's Environmental Team will be contacted.

Landscape and visual effects

During construction there will be a short-term impact on the landscape character and visual amenity of the local area due to the presence of construction plant, vehicles, and TM. However, all construction work will be restricted to areas of made / engineered ground on the A1 northbound carriageway, and works are programmed to be undertaken at night for 14 nights. As such, the visual impact of the works will be somewhat reduced.

Considering the nature, duration, size, and scale of the scheme, and with implementation of mitigation detailed below, impacts on landscape and visual effects are assessed as not significant.

Upon completion of the works, no residual impacts on landscape and visual effects are anticipated e.g., when complete the visual appearance will remain largely unaffected, with a renewed road surface being the only discernible change.

Landscape and visual effects mitigation measures:

- The site will be monitored regularly for signs of litter and other potential contaminants, and litter will be removed before and after works take place.
- The site will be left clean and tidy following construction.
- Where possible, construction vehicles will not be left in places where soil or vegetation can be damaged. If damage to road verge occurs this will be lightly cultivated or graded (upon completion of the works) to allow natural recolonization by local species and promote integration with existing landscape character.

Biodiversity

Given that the scheme is located within the buffer zone of qualifying features of designated sites, a Habitats Regulations Appraisal (HRA) has been completed. The HRA ruled out Likely Significant Effects (LSE) on the identified qualifying features of the Firth of Forth SPA and Ramsar Site, Outer Firth of Forth and St Andrews Bay Complex SPA, Fala Flow SPA and Ramsar Site and Gladhouse Reservoir SPA and Ramsar Site due to the restriction of the works to the existing A1 northbound carriageway, along with the distance separating the works from the designated sites.

One instance of invasive native perennial rosebay willowherb is recorded within the verge of the A1 within the scheme extents, however, given that the works are restricted to the A1 trunk road northbound carriageway, consist of like-for-like replacement of the road surface and mitigation measures below are implemented, the potential to impact upon this species is considered to be low.

The works will require a range of ancillary plant, vehicles and NRMM which will emit noise and create potential disturbance. The works will also require delivery of materials and the presence of personnel to facilitate the improvements to the road surface. However, the number of construction vehicles and construction operatives required onsite is low given the scale and scope of works. In addition, any species in the area are likely to be accustomed to noise and visual disturbance pertaining to vehicle movements on the A1. The potential for significant species disturbance within the area of construction is therefore somewhat diminished.

Considering the nature, duration, size, and scale of the scheme, and with implementation of mitigation detailed above, the proposed works impacts on biodiversity throughout the construction period are therefore assessed to be not significant.

Upon completion of the works, no residual impacts are anticipated in relation to biodiversity.

Biodiversity mitigation measures:

- Where possible, artificial lighting used during night works will be sufficiently screened and aligned so as to ensure that there is no direct illumination of neighbouring habitat (e.g., locations adjacent to tree shelterbelt, woodland etc.).
- The works are not permitted to disturb or destroy any active birds nests. If an active birds nest is identified onsite that will be impacted by works, BEAR Scotland's Environmental Team will be contacted.
- Given the records of protected species in proximity to the scheme extents, Toolbox Talk TTN-139 'Protected Species', will be briefed to all staff prior to the commencement of works.
- Given the presence of invasive native perennial rosebay willowherb within the verge of the scheme extents, Toolbox Talk TTN-009 'Working with Injurious Weeds and Invasive Plants', will be briefed to all staff prior to the commencement of works.
- Site personnel will remain vigilant for protected species and will not approach or touch any animals seen on site. Any sightings of protected species will be reported to BEARs Environmental Team. Should a protected species be encountered or move within 50m of the active works (including compounds), works will be temporarily halted until the animal(s) move at least 50m away from the construction site, or until BEAR's Environmental Team can provide advice.
- The Contractor will employ 'soft start' techniques for all noisy activity to avoid sudden and unexpected disturbance during works. Each time the activity is started up after a period of inactivity, the noise levels will be gradually increased over a period of 30 minutes to permit animals (including birds) to move away from the disturbance.
- All equipment stored onsite, if necessary, will be checked at the start of each shift to ensure no animals are present. Any storage containers/plant within the compound will also be secured overnight to prevent exploration by mammal species. Any areas where an animal could become trapped (e.g., storage containers) will also be covered at the end of each working day.
- People, ancillary plant, vehicles, NRMM and materials will be restricted to areas of made/engineered ground (as much as is reasonably practicable). If during works unforeseen access to the surrounding environment is required, works will cease in this area and BEAR Scotland's Environmental Team will be contacted to allow consideration of potential environmental effects.

- BEAR Scotland's Environmental Team will be contacted to allow consideration of potential environmental effects if:
 - unforeseen site clearance is required,
 - unplanned works must be undertaken out with the carriageway boundary,
 - there is any deviation from the agreed plan, programme and/or method of working,
 - nesting birds are found onsite.
- BEAR Scotland's Control Room will be contacted if there is a pollution incident.

Material assets and waste

Minimising impacts arising from construction materials are focussed upon making the most efficient use of materials onsite to reduce the need for imported primary materials and minimise the creation and disposal of waste through (i) reduction, (ii) re-use, and (iii) recycling. Potential impacts have been assessed for both the construction and operational phases of this scheme. It is anticipated that most material impacts are likely to arise during construction, though long-term residual impacts could occur post construction during the operational phase e.g., during the disposal of materials arising from routine maintenance operations.

However, the detailed design will reduce the requirements for primary materials e.g., the carriageway surfacing, and subbase will be carefully considered to minimise the requirements for importing primary material. Materials will also be derived from recycled, secondary, or re-used origin as far as practicable within the design specifications to reduce natural resource depletion. Specifying TS2010 surface course also allows a wider array of aggregate sources to be considered when compared to typical stone mastic asphalt (SMA). As a result, the use of TS2010 should reduce the usage of imported aggregates and increase the use of a wider range of sustainable aggregate sources. The design life for the TS2010 surfacing is also estimated to be 20 years. The enhanced durability of TS2010 therefore reduces reoccurring routine maintenance and associated levels of traffic disruption to this section of road over the period.

Considering the nature, duration, size, and scale of the scheme, and with implementation of the mitigation detailed below, the proposed works impacts on material assets and waste throughout the construction period are therefore assessed to be not significant. Upon completion of the works, no residual impacts are anticipated on materials or waste.

Material assets and waste mitigation measures:

- A SWMP will be completed by the Designer and Contractor as required. The SWMP will provide details of the following:
 - The quantity and type of waste that will be produced.
 - How waste will be minimised, reused, recycled, recovered, or otherwise diverted from landfill.
 - How materials that cannot be reused, recycled, or recovered will be removed from site and consigned, transported and disposed of in full accordance with all relevant legislation.
- Good materials management methods (e.g., 'just-in-time' delivery) will be implemented wherever possible.
- All non-hazardous road planings will be treated in line with LRWA 3 and be recycled in line with SEPA's WAS-G-DEF-05 Guidance for End-of-Waste for Recycled Aggregates.
- The selection of areas for materials stockpiling will avoid sensitive locations such as road drainage. Stockpiled materials with leachate potential, for example, will be stored away from road drainage to prevent cross-contamination with other materials, wastes, or groundwater.
- Materials will be stored with the appropriate security to prevent loss, theft, or vandalism.
- All temporary road signs and traffic cones will be removed from site on completion of works.
- Wastewater from welfare facilities (if required) will be subject to effluent treatment followed by tanker removal.
- If hazardous substances are used onsite, each substance will be subject to assessment under the Control of Substances Hazardous to Health (COSHH) Regulations 2002. Hazardous substances will also be clearly labelled, and disposed of, in line with the relevant waste regulations. Special waste will not be mixed with general waste and/or other recyclables.
- The Contractor will comply with all 'Duty of Care' requirements, ensuring that any surplus materials or waste are stored, transported, treated, used, and disposed of safely without endangering human health or harming the environment. Waste

Noise and vibration

Activities undertaken on site could potentially have some localised and short-term noise impacts in proximity to the works. The road works will, for example, require a range of ancillary plant, vehicles and NRMM for cold milling in preparation for carriageway resurfacing. Noise will also be generated by the crack and seat treatment, using breakers (jackhammers), chipping hammers and use of rollers, etc. As a result, there is potential for noise and vibration effects to residential properties within the local area, the closest of which is 131m north of the scheme extents and is partially screened from the scheme.

However, the works are not located within a CQA, and while they will be completed over 14 nights (excluding Saturdays and Sundays), the aim will be to complete the noisiest works by 23:00. In addition, the proximity of road space suggests that residents have a degree of tolerance to noise and disturbance.

The road surface is in a poor condition, with a series of defects. Replacing the life-expired surface course with TS2010 road surfacing affords the benefits of a reduction in mid-to-high frequency traffic noise and a reduction in the ground vibrations. As a result, upon completion of the work, noise associated with the movement of vehicles on the trunk road should decrease.

Considering the likely sources of noise and vibration, with the nature, duration, size, and scale of the scheme, and with implementation of the mitigation detailed below, it is unlikely that noise and vibration associated with the works will lead to significant impacts, disruption and/or complaints. The proposed scheme is therefore anticipated to result in non-significant noise impacts.

Noise and vibration mitigation measures:

- The local authority environmental health department will be notified of nighttime working by BEAR Scotland's design engineer.
- Where possible, the noisiest work operations (e.g., cold milling, cracking of road surface, using breakers (jackhammers), chipping hammers, use of rollers, etc.) will be completed before 23:00.
- If unacceptable noise is emanating from the site the operation will, where possible, be modified and re-checked to verify that the corrective action has been effective. Actions to be considered include (a) minimizing cutting and grinding on-site, (b) reducing the operating hours, (c) repositioning equipment, (d) changing the method of working etc. Corrective actions will be actioned through the non-conformance reporting procedure, which ensures a root-cause analysis is carried out on each incident. The non-conformance procedure also ensures that appropriate corrective and preventative action measures are agreed and implemented in a timely fashion with all parties, and are recorded and actioned through to closeout, and fully auditable and traceable.
- Ancillary plant, vehicles and NRMM with directional noise characteristics will (where practical) be shut down in intervening periods between site operations.
- The use of paving breakers (jackhammers), chipping hammers, etc. will be avoided (except where there is an overriding justification), and if used will be fitted with mufflers or silencers of the type recommended by the manufacturer.
- Drop heights from vehicles and NRMM will be kept to a minimum to minimise noise when unloading.
- All ancillary plant, vehicles and NRMM used onsite will have been regularly maintained, paying attention to the integrity of silencers and acoustic enclosures.

- All compressors will be 'sound-reduced' models fitted with properly lined and sealed acoustic covers which will be kept closed when in use.
- HGV, site vehicles and NRMM will be switched to the minimum setting required by HSE and, where possible, will utilise 'broadband non-tonal' or 'directional sound reversing' alarms. Speed limits will also be reduced through the works.

Population and human health

During construction, activities undertaken on site have the potential to have temporary adverse impacts on local residents and road users. While TM will be in place for 14 nights, it will be restricted to nighttime hours when traffic flows will be at a minimum, as such no congestion issues are expected during the proposed construction hours.

As noted above, the closest residential property lies approx. 131m north of the works and is partially screened from the scheme, therefore, there is potential for visual and noise disturbance to these residents.

Nevertheless, mitigation measures detailed below and within the 'Noise and Vibration' Section will reduce the potential for impacts.

Considering the nature, duration, size, and scale of the scheme, and with implementation of the mitigation described above, impacts on population and human health are assessed as being not significant.

Upon completion of the works, there will be a positive impact in relation to population and human health due to the improvement of usability and safety provided by the new carriageway surface.

- Given the treatment involved in the works of the scheme, Toolbox Talk TTN-042 'Being a Good Neighbour', will be briefed to all staff prior to the commencement of works.
- Where appropriate, a communication strategy (e.g., social media, consultation with local authority and other stakeholders, letter drop (for night-time works), etc.) will be initiated to keep local residents and/or other businesses informed of the proposed working schedule, particularly the times and durations of noisy construction activities. The communication strategy will also provide a 24-hour contact number for the BEAR Scotland Control Room.
- Advanced signage will be strategically placed on the trunk road to notify stakeholders of the road closure and diversion at least seven days in advance.
- A Traffic Management Plan (TMP), which includes measures to avoid or reduce disruption to road traffic, will be produced in accordance with the Traffic Signs Manual (Department of Transport 2009). The TMP will ensure

that there is no severance of community assets, access routes or residential development.

- Journey planning information will be available for drivers online at the [trafficscotland.org](https://www.trafficscotland.org) website. Journey planning information will also be available for drivers online through BEARs social media platforms.

Road drainage and the water environment

During resurfacing works, there is potential for temporary adverse impacts on the water environment. Potential changes in water quality e.g., from pollution events (either by accidental spillage of sediments, particulate matter, chemicals, fuels or by mobilisation of these in surface water cause by rain) during works have the potential to have direct or indirect effect on surrounding waterbodies, the closest of which are 15m northwest.

However, all works will be restricted to the A1 northbound carriageway and there will be no requirement to enter any watercourse as such there is limited risk for direct impacts. Furthermore, the potential for direct or indirect pollution incident to a waterbody is considered unlikely e.g., experience gained from BEAR maintenance schemes elsewhere on the network has shown that where standard best working practice is adopted (e.g., adherence to SEPA GPPs, utilisation of drain covers or similar, etc.), water quality is protected.

Considering the nature, duration, size, and scale of the scheme, and with implementation of the mitigation detailed below, the proposed works impacts on the road drainage and water environment are assessed as not significant.

Upon completion of the resurfacing works, no residual impacts are anticipated in relation to the road drainage and water environment.

Road drainage and the water environment mitigation measures:

- Site operatives will be made aware of Drain1 and Drain2.
- If any works are identified that would require entering a waterbody, BEAR Scotland's Environmental Team will be contacted (before works commence) to allow consideration of potential environmental effects.
- The abstraction or transfers of water from, discharges to, or the washing of tools in surface waterbodies identified is not permitted.
- Appropriate measures will be implemented during resurfacing operations to limit the potential for wastes (i.e. road planings) and materials (i.e. new asphalt) to enter any gullies present on site. On completion of resurfacing operations, any gullies present on site will be visually checked to ensure they have not become blocked as a result of the scheme.

- All site personnel will be made aware of site spillage response procedures and in the event of a spill, all works associated with the spill will stop, and the incident reported to the Site Supervisor. Small spills that did not leave the site boundary and are cleaned up without material environmental harm or residual environmental impact would most likely not be required to be notified to SEPA or other authorities. However, all such incidents will be recorded and reported to BEAR Scotland's Environmental Team. In the event of a 'serious incident', SEPA will be notified without delay. Such notification will include: (i) the time and duration of the incident, (ii) a description of the cause of the incident, (iii) any effect on the environment as a result of the incident, and (iv) any measures taken to minimise or mitigate the effect and prevent a recurrence.
- All waste, vehicles, ancillary plant, NRMM and fuels will be stored in the compound (s) or laydown area and will be secured and located, if space is available, at least 10m from drainage entry points and waterbodies, in order to comply with GPP 5 'works and maintenance in or near water'.
- Refuelling will only be undertaken at designated refuelling areas (e.g., on hardstanding, with spill kits available, and >10m from drainage entry points and waterbodies, where practicable). Spill kits will also be available within all site vehicles and spill kits will be replenished onsite when required. Only designated trained and competent operatives will be authorised to refuel plant. Generators, and other ancillary plant and NRMM, where there is a risk of leakage of oil or fuel, will have internal bunding or must have a secondary containment system placed beneath them that meets 110% capacity requirements. Containment systems will also be emptied regularly. All waste, vehicles, ancillary plant, NRMM and fuels will also be stored in a manner that ensures they are protected from damage by collision or extremes of weather.
- Regular visual pollution inspections of the designated laydown area and work site (particularly near road drainage entry points) will be conducted (e.g., site walkover by engineer or Site Supervisor), especially during periods of heavy rain.
- All vehicles and NRMM onsite will have been regularly maintained, paying attention to the integrity of oil tanks, coolant systems, gaskets etc. A checklist will be present to make sure that the checks have been carried out.

Climate

BEAR Scotland, working on behalf of Transport Scotland, undertakes carbon monitoring of major projects and operational activities. Emissions from activities are recorded using Transport Scotland's Carbon Management System. BEAR Scotland also undertakes resource efficiency activities to manage and reduce emissions contributing to climate change. The works will also extend the maintenance intervals required for future works. In doing so, the service life of the trunk road is also extended.

During works there is potential for impacts as a result of the emission of greenhouse gases through the use of equipment, vehicles, and NRMM, material use and production, and transportation of material/waste. However, considering the nature,

duration, size and scale of the scheme, and the mitigation detailed below, the risk of significant impacts to climate are considered to be not significant.

Upon completion of the proposed scheme no residual impacts are anticipated on the climate.

Climate mitigation measures:

- Warm mix asphalt will be used as standard.
- Local contractors and suppliers will be used as far as practicable to reduce fuel use and greenhouse gases emitted as part of the works.
- BEAR Scotland will adhere to its Carbon Management Policy.
- Where possible, waste will be removed to local waste management facilities.

Vulnerability of the project to risks

There will be no change to the likelihood of flooding on the A1 within the scheme extents upon completion of the works.

Works are restricted to areas of made ground on the A1 northbound carriageway surface, with access to the scheme gained via the A1 mainline. TM will employ 14 nighttime full road closures with a signed diversion.

A Site Environmental Management Plan (SEMP) will be produced by BEAR Scotland which sets out a framework to reduce the risk of adverse impacts from construction activities on sensitive environmental receptors. The Contractor will comply with all conditions of the SEMP during works and may be subject to audit throughout the contract by the Performance Audit Group (PAG).

Considering the above, the vulnerability of the project to of major accidents and disasters is considered to be low.

Assessment of cumulative effects

The proposed works are not anticipated to result in significant environmental effects. Due to the nature of the proposed works, no cumulative effects are anticipated with any other developments in the vicinity.

A search of the Scottish Road Works Commissioner's website ([map search](#)) has identified no additional road works planned within 300m of the A1 scheme extents that will coincide with the planned BEAR Scotland works.

In addition, a search using [East Lothian Council 'Simple Search'](#) for planning identified one planning application within 300m of the scheme extents (in the last two years):

- Proposal of two storey extension to rear with new staircase to first floor and conversion of existing cottage attic space with the formation of first floor roof terrace, approx. 276m northwest of the scheme, with a decision of 'Warrant Granted' (Reference: 24/00720/BW).

While it is not possible to gain an understanding on the timing or duration of the above planning application, it is considered that even in the event that the above planning application was being progressed at the same time as the planned BEAR Scotland resurfacing works, given the short duration (14 nights) and minor nature of the scheme, no in-combinations effects are expected. Furthermore, as the resurfacing works will be restricted to the existing A1 northbound carriageway boundary and depth and the planning application relates to minor works within a domestic property, there will be no potential for in-combination impacts.

Assessments of the environmental effects

The A1 South of Dolphingstone Northbound scheme lies within 2km of the Firth of Forth SPA and Ramsar Site and the Outer Firth of Forth and St Andrews Bay Complex SPA and within the buffer zone of the qualifying feature of Fala Flow SPA and Ramsar Site and Gladhouse Reservoir SPA and Ramsar Site and as such, a HRA was undertaken. The HRA ruled out LSE on the designated sites and as such an Appropriate Assessment is not required.

As detailed in the Description of Main Environmental Impacts and Proposed Mitigation section, there are no significant effects anticipated on any environmental receptors as a result of the proposed works.

Statement of case in support of a Determination that a statutory EIA is not required

This is a relevant project in terms of section 55A(16) of the Roads (Scotland) Act 1984 as it is a project for the improvement of a road and the completed works (together with any area occupied by apparatus, equipment, machinery, materials,

plant, spoil heaps, or other such facilities or stores required during the period of construction) exceed 1 hectare in area.

The project has been subject to screening using the Annex III criteria to determine whether a formal Environmental Impact Assessment is required under the Roads (Scotland) Act 1984 (as amended by The Roads (Scotland) Act 1984 (Environmental Impact Assessment) Regulations 2017). Screening using Annex III criteria, reference to consultations undertaken and review of available information has not identified the need for a statutory EIA.

The project will not have significant effects on the environment by virtue of factors such as:

Characteristics of the scheme:

- Works are restricted to like-for-like replacement of worn / damaged road surface, with all works restricted to made ground on the A1 northbound carriageway surface.
- Works are not expected to result in significant disturbance to protected species that may be present in the wider area.
- The risk of major accidents or disasters is considered to be low.
- By removing the carriageway defects, this will provide this section of the A1 northbound carriageway with another life cycle, and significantly improve the ride quality, which will result in safer conditions for road users.

Location of the scheme:

- The scheme lies within 2km of the Firth of Forth SPA and Ramsar Site and the Outer Firth of Forth and St Andrews Bay Complex SPA and within the buffer zone of the qualifying feature of Fala Flow SPA and Ramsar Site and Gladhouse Reservoir SPA and Ramsar Site. However, a HRA has been undertaken, which confirmed that the works will not result in LSE on the designated sites.
- The scheme lies within the Battle of Prestonpans Battlefield, however given the restriction of the works to the A1 carriageway there will be no impacts to this designated cultural heritage feature.
- The scheme is not located within any areas designated for landscape areas.
- Land use will not change as a result of the works.
- The works do not require any private land acquisition.
- The scheme is not located within a densely populated area.

Characteristics of potential impacts of the scheme:

- The waste hierarchy will be followed to reduce waste to landfill.
- Works are programmed to take 14 nights with the aim being to complete the noisiest works by 23:00.
- With good practice pollution prevention measures implemented onsite, there is a negligible risk of a pollution event e.g., compliance with the SEMP.

References of supporting documentation

F565 HRA – A1 South of Dolphingstone Northbound

Annex A

“sensitive area” means any of the following:

- land notified under sections 3(1) or 5(1) (sites of special scientific interest) of the Nature Conservation (Scotland) Act 2004
 - land in respect of which an order has been made under section 23 (nature conservation orders) of the Nature Conservation (Scotland) Act 2004
 - a European site within the meaning of regulation 10 of the Conservation (Natural Habitats, &c.) Regulations 1994
 - a property appearing in the World Heritage List kept under article 11(2) of the 1972 UNESCO Convention for the Protection of the World Cultural and Natural Heritage
 - a scheduled monument within the meaning of the Ancient Monuments and Archaeological Areas Act 1979
 - a National Scenic Area as designated by a direction made by the Scottish Ministers under section 263A of the Town and Country Planning (Scotland) Act 1997
 - an area designated as a National Park by a designation order made by the Scottish Ministers under section 6(1) of the National Parks (Scotland) Act 2000.
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