

**Strategic Management and Maintenance of Rotherham's Highways – Inclusion of Roads in the Indicative Highway Repair Programme for 2021/2022.**

Will the decision/proposal impact...	Impact.	If an impact or potential impacts are identified			
		Describe impacts or potential impacts on emissions from the Council and its contractors.	Describe impact or potential impacts on emissions across Rotherham as a whole.	Describe any measures to mitigate emission impacts.	Outline any monitoring of emission impacts that will be carried out.
<b>Emissions from non-domestic buildings?</b>	no impact	-	-	-	-
<b>Emissions from transport?</b>	increases emissions	Increased transport through delivery of tarmacadam and construction products from supplier to site.	-	The Council purchase the majority of its tarmacadam products from Steelphalt, a Rotherham based company to minimise the movement of material and minimise the impact of emissions from the transport / delivery of millions of pounds worth of materials.	-
<b>Emissions from waste, or the quantity of waste itself?</b>	increases emissions	<ul style="list-style-type: none"> <li>95% of asphalt is produced from recycled steel slag that is a bi-product generated from steel production within 3 miles of the supplier.</li> <li>All surplus asphalt returned from customers and blended back in to base &amp; binder products.</li> <li>Currently producing all machine lay base &amp; binder products at 20-30 degrees lower temperatures to reduce energy use.</li> </ul>	-	Steelphalt recently engaged with University of Sheffield and the Carbon Trust to baseline our current nett carbon per tonne of material but unfortunately are in the very early stages so I don't have any carbon specific data to share	Monitoring and reporting will improve once Steelphalt have completed the emission data work and it is available to use.
<b>Emissions from housing and domestic</b>	no impact	-	-	-	-

<b>buildings?</b>					
<b>Emissions from construction and/or development?</b>	increases emissions	<p>The Council has a statutory duty under Section 41 of the Highways Act 1980 to maintain the adopted highway. The repair of the roads and footways is required to keep the highway safe for all users.</p> <p>Highway maintenance does have an impact on carbon emissions through material use, construction and delivery but these emissions are mitigated where possible as stated previously.</p>		<p>The Council's approach is to move away from traditional maintenance options, not concentrating on repairing worst first, and more towards treatments that extend the life of a road. It is therefore important to have a wide range of treatment options available so as to allow the most appropriate treatment to be used on the appropriate site. Therefore the most efficient method of maintenance is used that avoids deep dig repairs that require greater levels of CO<sub>2</sub> to deliver.</p>	
<b>Carbon capture (e.g. through trees)?</b>	no impact	-	-	-	-

**Identify any emission impacts associated with this decision that have not been covered by the above fields:**

The development of the research with the University of Sheffield will provide a more a more detailed understanding of the current base line and then allow modifications to allow a reduction in the nett carbon per tonne.

**Please provide a summary of all impacts and mitigation/monitoring measures:**

The Council work in partnership with Steelphalt a Rotherham based company who fabricate the majority of tarmacadam material used to repair the roads and footways. Steelphalt have recently engaged with University of Sheffield and the Carbon Trust to baseline our current net carbon per tonne of material but unfortunately are in the very early stages so I don't have any carbon specific data to share at this time. This position will improve in the future.

<b>Supporting information:</b>	
<b>Completed by: (Name, title, and service area/directorate).</b>	Richard Jackson, Highway Asset and Drainage Manager
<b>Please outline any research, data, or information used to complete this [form].</b>	Nil, at this time
<b>If quantities of emissions are relevant to and have been used in this form please identify which conversion factors have been used to quantify impacts.</b>	Nil, at this time.
<b>Tracking [to be completed by Policy Support / Climate Champions]</b>	David Rhodes, Environment, Energy and Data Manager