

CLIMATE CHANGE RISK ASSESSMENT

SITE DETAILS:

T&K Weavers Demolition Ltd

Ferriers Pit
Ferriers Lane
Bures
CO8 5DL

APPLICANT DETAILS:

T&K Weavers Demolition Ltd
Parsonage Hall
Bures
CO8 5DH

**T & K Weavers
Demolition Ltd**

Application Reference:

EPR/HB3705UM

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1 INTRODUCTION

This document is the Climate Change Risk Assessment (CCRA) that accompanies the application for a Bespoke Environmental Permit application EPR/ HB3705UM at T&K Weavers Demolition Ltd, Ferriers Pit, Ferriers Lane, Bures CO8 5DL. T&K Weavers are applying for a bespoke environmental permit to carry out the treatment of waste to produce soil, soil substitutes and aggregate. The permit applied for will be based on 'SR2010 No12: treatment of waste to produce soil, soil substitutes and aggregate'.

The new permit seeks to permit the following waste activities on site; acceptance, storage, sorting, separation, screening, crushing and blending of waste for recovery.

This CCRA has been produced on behalf of T&K Weavers Demolition Ltd (the operator and applicant), in line with current Environment Agency guidance, 'Adapting to climate change: risk assessment for your environmental permit' available on Gov.uk, to support an application for a new bespoke environmental permit for a Waste Operation under the Environmental Permitting (England and Wales) Regulations 2016 (as amended).

1.1 Activity

The operations and activities on site are based on 'SR2010 No12: treatment of waste to produce soil, soil substitutes and aggregate'. The activities on site include;

- Storage pending treatment;
- Treatment consisting of sorting, separation, screening, crushing and blending of waste for recovery as a soil, soil substitute or aggregate;
- Treatment of slags and ashes;
- Transfer of waste and non-waste material to customers or other permitted operations.

1.2 Location

The site is located at Ferriers Pit, Ferriers Lane, Bures, CO8 5DL. National Grid Reference TL 89544 34156. The site is approx. 500 m to the east of the village of Bures and approx. 6.8 km south of the town of Sudbury.

1.3 Aims

This assessment aims to consider potential climate change hazards associated with the activity, to identify impact, and determine the influence management practice has on reducing risk.

2 METHODOLOGY

This Climate Change Risk Assessment (CCRA) has been written in accordance with the Environment Agency's guidance *Adapting to climate change; risk assessment for your environmental permit* (issued 3 October 2019- <https://www.gov.uk/guidance/adapting-to-climate-change-risk-assessment-for-your-environmental-permit>).

The CCRA applies to bespoke waste and installation permits that are expected to operate for longer than 5 years, even if the operations are due to cease prior to 2050 this includes commissioning processes and after care, as predicted changes may come in to effect prior to this.

CCRA focusses on risk and impact in relation to the below variables;

- Location;
- Temperature changes;
- Flooding;
- Sea level rises;
- Intensity & frequency of precipitation;
- Prolonged dry weather.

3 SCREENING TOOL

Screening of the permit application for the applicability of a CCRA. If your total screening score is 5 or more using Table 1 then a CCRA will need to be submitted with the permit application.

If operations last for 5 years or less, no risk assessment will need to be submitted with the application, regardless of the screening score. For all other screening questions, A score for will be attributed as shown in **table 1**. If operations exceed 5 years, or if 'Not Applicable' is entered.

- Identify your site's flood risk using the information provided here:

<https://flood-warning-information.service.gov.uk/long-term-flood-risk>

Table 1: Screening Tool

Category	Screening Questions	Score	Your Score	Comments
1 Time Scales	<p>How long will a permit be required for this site/activity?</p> <p>5 years or less of operation. No need to fill in the rest of the screening. You do not need to fill in a risk assessment.</p> <p>Please go straight to question 7.</p> <p>Less than 20 years of operation</p> <p>Until between 2040 and 2060 (between 20 and 40 years from now)</p> <p>Until 2060 or beyond (more than 40 years from now)</p>	0 1 3 5	5	Unknown length of operations, screened in to provide conservative scenario.
2 Flooding	<p>What is your site's risk of flooding from rivers or the sea?</p> <p>Not in a flood-risk zone</p> <p>Very low or Low</p> <p>Medium</p> <p>High</p>	0 1 2 5	0	Not located in a flood zone for either river or sea flooding.
3 Water Use	<p>If you use water for your site operations or fire prevention, what is the source of your water?</p> <p>Water not required</p> <p>Mains water</p> <p>Surface water or groundwater abstraction</p>	0 1 5	0	No water used as part of the process, no combustible waste stored on site so no need for firefighting water for combustible waste piles on site.

Total Screening Score	5	Screened in to requirement for CCRA.
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4 CLIMATE CHANGE RISK ASSESSMENT

Anglian river basin district: climate change risk assessment worksheet

Name (as on your part A application form): T&K Weavers Demolition Ltd

Our permit reference number (if you have one): EPR/HB3705UM

Your document reference number: K153.1~09~009

Risk assessment worksheet for the 2050s

Anglian river basin district

You must carry out a climate change risk assessment for any new bespoke waste and installations permit applications if you expect to operate for more than 5 years. Use the user guide to complete the table. You can add in extra pages if necessary.

Consider how your operations will be affected by the changes in weather and climate described in the table. Consider any changes to average climate conditions that may impact on your operations, for example extreme rainfall.

Also consider:

- critical thresholds - where a 'tipping point' is reached, for example a specific temperature where site processes cannot operate safely
- changes to averages - for example an entire summer of higher than expected rainfall causing waterlogging
- where hazards may combine to cause more impacts

You can add in other climate variables if you wish.

If you have stated on your application form that you do not expect to be operational in 2050, you must still consider climate change risks for the time you do intend to operate. Whilst the variables are for the 2050s, this is an estimated date and you may experience these conditions before then.

This worksheet will sit in your management system. It must appear on the management system summary you submit with your application, even if you do not need to submit the whole risk assessment with your application.

If your pre-mitigation risk score (column D) is 5 or higher, you must complete columns E to H.

Table 2: Climate Change Risk Assessment

Potential changing climate variable	A Impact	B Likelihood	C Severity	D Risk (B x C)	E Mitigation (what will you do to mitigate this risk)	F Likelihood (after mitigation)	G Severity (after mitigation)	H Residual risk (F x G)
1. Summer daily maximum temperature may be around 7°C higher compared to average summer temperatures now.	External Operation. No negative impact expected, see point 6. In table for Dust emissions.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2. Winter daily maximum temperature could be 4°C more than the current average.	No negative impact expected.	N/A	N/A	N/A	N/A	N/A	N/A	N/A

<p>3. The biggest rainfall events are up to 20% more intense than current extremes (peak rainfall intensity)*.</p>	<p>Flood risk from rivers or the sea Very low risk means that each year this area has a chance of flooding of less than 0.1%. This takes into account the effect of any flood defences in the area. These defences reduce but do not completely stop the chance of flooding as they can be overtopped, or fail.</p>	<p>1</p>	<p>1</p>	<p>1</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>
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<p>4. Average winter rainfall may increase by 35% on today's averages.</p>	<p>Flood risk from surface water Very low risk means that each year this area has a chance of flooding of less than 0.1%. Flooding from surface water is difficult to predict as rainfall location and volume are difficult to forecast. In addition, local features can greatly affect the chance and</p>	<p>1</p>	<p>1</p>	<p>1</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>
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Potential changing climate variable	A Impact	B Likelihood	C Severity	D Risk (B x C)	E Mitigation (what will you do to mitigate this risk)	F Likelihood (after mitigation)	G Severity (after mitigation)	H Residual risk (F x G)
	severity of flooding.							
5. Sea level could be as much as 0.6m higher compared to today's level *.	Inland Site. Low to no impact.	1	1	1	N/A	N/A	N/A	N/A

Potential changing climate variable	A Impact	B Likelihood	C Severity	D Risk (B x C)	E Mitigation (what will you do to mitigate this risk)	F Likelihood (after mitigation)	G Severity (after mitigation)	H Residual risk (F x G)
6. Drier summers, potentially up to 39% less rain than now.	External Operation. Dust from prolonged dry weather.	4	4	16	Emissions Management Plan for Dust K153.1~09~005. Operations within confines of Bunds, vehicle speed reduction, drop heights reduced for tipping and processing, Vehicles remaining sheeted, well maintained haul roads. Lagoons on site available for water to supress dust.	2	2	4

Potential changing climate variable	A Impact	B Likelihood	C Severity	D Risk (B x C)	E Mitigation (what will you do to mitigate this risk)	F Likelihood (after mitigation)	G Severity (after mitigation)	H Residual risk (F x G)
7. At its peak, the flow in watercourses could be 35% more than now, and at its lowest it could be 80% less than now.	No discharge from site. Water not available for licensing. Water not part of main process used as dust mitigation. On site lagoons for local water storage	N/A	N/A	N/A	N/A	N/A	N/A	N/A