

# **Konings Juices and Drinks UK Ltd**

## **Non Technical Summary**

### **Proposed Extension To Site With Associated Changes to Environmental Licensing**

Konings NV purchased the manufacturing assets from Pepsico at their site in Boxford, Suffolk on the 1<sup>st</sup> September 2017 and created Konings Juices and Drinks UK Ltd.

The site continues to manufacture juice products under the current Discharge Consent Licence PRENF/19402, however in 2020 Konings will put into production a new high-speed bottling line that will take its daily potential production output over the RGN2 A(1)(d)(ii) specified limits for processed vegetable (and fruit) raw materials. The application for a Bespoke Environmental Permit is in response to this requirement.

The facility produces a range of pasteurized, not from concentrate fruit juices and juice drinks.

The Konings facility occupies a site in a commercial apple orchard on the Stoke Road in Boxford in the Suffolk countryside. The site has previously been a part of PepsiCo between 1997 and 2016 and has been manufacturing Juices and Juice Drinks on site since 1968 when it was established by the owner of the orchard. Konings hold a long-term lease on the land from the original owners now trading as Boxford Suffolk Farms.

Annual production is approximately 40 million litres of finished product so although site has the theoretical capacity to exceed the RGN2 A(1)(d)(ii) specified limit it will not actually exceed the capacity for some time on current forecasts. The second PET bottling line on site will increase the theoretical capacity of the site without initially increasing the actual output of the site. The current theoretical maximum finished product output of the site is 252 tonnes in 24 hours, this would rise to 630 tonnes in 24 hours on installation of the second PET line.

The buildings cover an area of approximately 7500m<sup>2</sup>.

The facility employs approximately 90 staff, of which 69 belong to production, working a four shift pattern to cover production on a 24 hour 7 day basis.

The building is well maintained and equipment is manufactured from food grade stainless steel.

Principal raw materials include whole apples which are pressed on site and other not from concentrate fruit juices which arrive in tankers or drums.

Products are supplied in PET bottles via Pepsico to all major retailers.

Finished products are shipped off site immediately on production using a third party haulier.

The site currently holds a Water Abstraction Licence (8/36/16\*G/0043) and a Discharge Consent Licence (PRENF/19402/V001). The Discharge Consent Licence has two output points, a land locked lagoon on the adjacent farm (all year round) and an unnamed Tributary of the River Box (between 1<sup>st</sup> Nov – 31st March), it allows for a maximum discharge of 350m<sup>3</sup> per day from the plant through either discharge points. As part of the Bespoke Environmental Permit site would ask to amend the Discharge from the current “either/or” licence where the plant can discharge either 350 m<sup>3</sup> / day to a tributary of the River Box or to a land locked lagoon on the Boxford Suffolk Farms site to an “and” licence where we could discharge 350m<sup>3</sup> / day to both the lagoon and the tributary simultaneously bring the maximum discharge to 700m<sup>3</sup> / day.

The likely emission sources we have identified in preparing for this extension are:

	Normal Running	Event of Failure
<b>Processing</b>		
Apple Pressing	Apple Pomace	-
Cleaning	Water + Sodium hydroxide / nitric acid + surfactants	Concentrated cleaning chemicals
<b>Services</b>		
Boilers	Stack emission - Nox & Sox	Treatment Chemicals
	Condensate	
	Steam vapour	
Fuel Sources		LPG / Fuel Oil
Chiller - Cooling Tower	Water vapour	Treatment Chemicals
Chiller - Ammonia		Ammonia
Chilling - Glycol		Glycol
Air Handling		Compressed air emission
Heating Processes	Steam vapour	
Sterilising processes	Hydrogen peroxide / Paracetic acid vapours	Hydrogen peroxide / Paracetic acid liquids
Water Sterilisation		Treatment Chemicals
RO / NF Water Plants		Treatment Chemicals
Cleaning process	Dilute Sodium Hydroxide (Caustic Soda)	Concentrated Sodium Hydroxide
	Dilute Nitric Acid	Concentrated Nitric Acid
<b>Waste Water Treatment Plant</b>		
Activated Sludge		Coagulants and flocculants
Acid correction		Sodium Hydroxide / Hydrochloric acid
Nutrient dosing		Urea / Phosphoric Acid
<b>Vehicles</b>		
HGV Movements / FLT	Exhaust fumes	Diesel spillage
Internal drainage		Product / water / cleaning fluids

All process wastewater is treated via the on-site activated sludge waste water treatment plant before being discharged within the site consent limits. Significant investment in the waste water treatment plant has taken place to upgrade the plant. The new PET filler utilises the latest “dry” technology to minimise water usage and hence discharge volumes.

The site has completed a Legal Register as part of its ISO14001 compliance programme, this register is attached to the application.