

Konings Juices and Drinks UK Ltd

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 1st 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 site plans to install a new production line which will take the finished goods capacity of the site to above 300t/day. Therefore, Konings Juices and Drinks UK will need to apply for an IPPC (Integrated Prevention of Pollution Control) licence.

Extension Proposals

The installation a 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 current discharge licence is an “either/or” licence where the plant can discharge either 350 m³ / day to a tributary of the River Box or to a land locked lagoon on the Boxford Suffolk Farms site. As part of the application for the IPPC licence Konings would seek to amend this to an “and” licence where we could discharge 350m³ / day to both the lagoon and the tributary simultaneously.

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

	Normal Running	Event of Failure
Processing		
Apple Pressing	Apple Pomace	-
Cleaning	Water + Sodium hydroxide / nitric acid + surfactants	Concentrated cleaning chemicals
Services		
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
Waste Water Treatment Plant		
Activated Sludge		Coagulants and flocculants
Acid correction		Sodium Hydroxide / Hydrochloric acid
Nutrient dosing		Urea / Phosphoric Acid
Vehicles		
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. It is anticipated in the expansion plan that significant investment in the waste water treatment plant is required to upgrade the plant. The new PET filler will utilise 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.