Permit Variation

EPR/CB3906TM

Stoke Waste Transfer Station

Veolia ES (UK) Limited

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1. Non-technical summary

This permit variation application is submitted by Veolia ES (UK) Ltd (Veolia) under the requirements of the Environmental Permitting (England & Wales) Regulations 2016.

Stoke waste transfer station (WTS), located on Alderflat Drive in Trentham, Stoke, ST4 8HX, currently operates under a standard rules permit SR2008 No.1 which will be replaced by SR 2022 No.5. The National Grid Reference (NGR) of the centre of the site is SJ 88997 40746.

The facility is located within an industrial estate. There are a number of residential properties within 1km of the site however the closest residential dwelling is located more than 400 m north east to the site. The nearest European site is King's and Hargreaves Woods SSSI which is located more than 2.5 km away from the site.

This application seeks to vary the standard rules permit into a bespoke permit in order to relocate the storage of wood and mixed glass which is currently taking place within the transfer station building to new outside bays. The internal layout of the transfer station will also be modified to accommodate a new bunded food waste bay. This application also seeks to include the storage of scrap metal and food waste in dedicated containers outside of the building. The food waste container will be enclosed and leakproof.

We also request the addition of EWC waste code 10 12 06 (discarded moulds) to the list of waste the transfer station can accept.

The replacement of the existing 5,000 litre fuel tank by a new tank with a capacity for 30,000 litre diesel and 5,000 litre adblue is also part of this application.

Other aspects of the permit remain unchanged.

The agreed Fire Prevention Plan has been updated and a bespoke Risk Assessment is provided to support the application.

The general arrangement of the site is set out in Drawing ref: VES_DTO_STOKE_300_000 in Appendix A.

2. Application type

This application relates to the variation of the existing Standard Rules permit EPR/CB3906TM to a bespoke permit at the Stoke transfer station WTS Park Service Centre, Alderflat Drive, Trentham, Stoke. The application is for a Normal Variation.

The bespoke permit will allow the storage of wood and glass waste in dedicated outside bays as well as the storage of food waste in a dedicated bay within the transfer station. It will also allow the storage of food waste within a dedicated enclosed leakproof container and of metal scrap in an outside uncovered container, both to be located outside. It will also allow the operation of a dedicated new fueling bay with a new larger fuel tank and include a new waste code.

The application consists of :

- Form A
- Form C2
- Form C4
- Form F
- Supporting Statement

The following documents are appended to the Supporting Statement:

- Appendix A – Site Plans and Drawings
- Appendix B – Environmental Risk Assessment
- Appendix C – Fire Prevention plan

The following activities will need to be formally recognised as a DAA in the varied permit:

- vehicle and empty food waste bin washing activities
- Fuel oil storage

3. Proposed changes

3.1 Site location

The Stoke waste transfer station (WTS) is located on Alderflat Drive in Trentham, Stoke, ST4 8HX.

The facility is located within an industrial estate. There are a number of residential properties within 1km of the site however the closest residential dwelling is located more than 400 m north east to the site. The nearest European site is King's and Hargreaves Woods SSSI which is located more than 2.5 km away from the site. The site is also not within a groundwater source protection zone 1.

A site location plan Ref: VES_DTO_STOKE_300_008 is provided in Appendix A.

3.2 Proposed activities

Outside Waste Bays

We proposed to create two storage bays outside of the transfer station building for the storage of waste wood and glass.

The location of the proposed bays are set out in Drawing ref: VES_DTO_STOKE_300_005 in Appendix A.

Their dimensions and maximum storage capacity are set out in Table 1 below:

Bay	Dimensions (WxDxL)	Maximum Volume (m^3)
Bay No 06 - Wood	11m x 11m x 4m	230
Bay No 07 - Glass	12.8m x 4.8m x 4m	145

Table 1: Outside waste bay details

The bays will be designed with impermeable surface and cut off drains located at the front of the new bays will direct any run off from the bays to the site sewer drainage system. They will be loaded on a 'first in first out' principle and will be subject to routine cleaning.

Food waste transfer activities

We propose to create a new food waste bay within the existing transfer station building. Storage of general waste, DMR and card (and wood and glass as needed) will be stored in respective bays in the rest of the transfer station.

The transfer building is fully enclosed with an impermeable concrete base with a sealed drainage system discharging runoff to the site sewer drainage system via new cut off drains located at the front of the WTS building.

The bay will be bunded and formed from two existing 4 m high concrete perimeter walls and a divisional wall with the adjacent waste bay. The divisional wall is constructed from existing legioblocks to which a new concrete upstand will be added. A 50 mm high 'speedbump' at the front of the bay will ensure food waste leachate is retained on the impermeable pavement within the bay. The bay will have sealed drainage, with runoff collected in a below ground storage chamber. Leachate from the bay storage chamber will be periodically collected and disposed off site at a suitably permitted facility.

The location of the food bay within the building is set out in Drawing ref: VES_DTO_STOKE_300_005 in Appendix A.

The dimensions of the new food bay and its maximum storage capacity are set out in Table 2 below:

Bay	Dimensions (WxDxL)	Maximum Volume (m^3)
Bay No 05 - Food waste	3.8m x 6.4m x 4m	73

Table 2: Food waste bay details

Food waste will be tipped into the bay and removed from the bay throughout the day, following the first-in-first-out principle and transferred for storage in an enclosed leakproof bulk trailer, container or skip. The transfer of food waste will take place within the transfer station building. No food waste will remain in the bay by the end of the working day. The enclosed leakproof food waste container will be stored on site for a maximum of 5 days.

The proposed location for the food waste container is shown on Drawing ref: VES_DTO_STOKE_300_005 in Appendix A.

The bay and adjacent reception area will be subject to weekly cleaning and disinfection as a minimum. Vehicles handling or transporting food waste will be regularly cleaned and disinfected. Food waste containers will be cleaned on a regular basis using the existing onsite vehicle wash.

Scrap metal storage

Whilst the use of uncovered containers for outside storage of scrap metal is allowed under the current SR2008 No.1 permit, this will not be allowed under SR 2022 No.5 permit which will replace it. We therefore propose to include this operation in the revised permit.

The proposed location for the metal container is shown on Drawing ref: VES_DTO_STOKE_300_005 in Appendix A.

Refueling bay and fuel tank replacement

The existing 5,000 litre fuel tank will be replaced by a new tank with a capacity for 30,000 litre diesel and 5,000 litre adblue. The tank will be bunded with protections in place in relation to overfilling etc.

The proposed location for the refueling bay and fuel tank is shown on Drawing ref: VES_DTO_STOKE_300_005 in Appendix A.

3.3 Waste type

As part of this variation we request the addition of waste 10 12 06 to the list of waste the site can accept.

10	**WASTES FROM THERMAL PROCESSES**
10 12	**wastes from manufacture of ceramic goods, bricks, tiles and construction products**
10 12 06	Discarded moulds

Table 2: Additional Waste Code

10 12 06 waste code is classified as an absolute non-hazardous waste type.

All the other waste codes required for this permit are those set out in the current SR 2008 No.1 permit rather than its future replacement SR 2022 No.5.

The total quantity of waste accepted at the site will remain as less than 75,000 tonnes a year.

3.4 Change to site drainage

The site drainage system will be modified to accommodate the proposed activities changes.

Cut off drains will be added at the front of the WTS building and at the front of the new external bays so that any runoff from these areas are directed to the site sewer drainage system. A trade effluent discharge consent with Severn Trent Water is already in place at the site.

Cut off drains will also be added to the side of the bunded refuelling bay and connected to a new class 1 forecourt separator before discharge to the surface water drainage system. These cut off drains will ensure any spillages within the fuel bay are captured by the forecourt separator.

The proposed drainage plan VES_DTO_STOKE_300_006 is provided in Appendix A.

3.5 Change to fire prevention plan

The site approved Fire Prevention Plan has been revised to consider additional risks introduced by the proposed changes including risk of a fire occurring and environmental risks if a fire occurs. Revision 1.4 of the document is provided in Appendix C.

3.6 Management system

The Veolia Management System is registered and approved to standards ISO 9001, ISO 45001 and ISO 14001. The operational, monitoring and management procedures implemented at the facility are in accordance with the Veolia Management System and have been audited against the requirements of the standards detailed previously.

The site is covered by group level and local procedures which form part of the Company's documented management system. A summary of Veolia's Management System is provided with application FORM C2.

Local procedures will reflect the requirements of the Agency's Non-Hazardous and Inert Waste Appropriate Measures.

3.7 Operational hours

There will be no change to the current operation hours from changes required in this application.

4. Environmental risk assessment

A qualitative environmental risk assessment 'ERA' for the operation has been produced to consider the risks associated with the proposed operations. The ERA is provided in Appendix B.

4.1 Technical standards

Activities at Stoke Transfer Station are covered by corporate and local procedures which form part of the Company's documented management system.

Local procedures reflect amongst other things the requirements of the Appropriate Measures guidance:

- Appropriate measures for permitted facilities that take Non-Hazardous and Inert waste
- Relevant statutory instruments and related or supported technical guidance.

4.2 Technical competence

Technical Competence will be provided under Veolia's Competence Management System (CMS). This has been awarded to all of Veolia's Transfer Station operations.

The CMS certificate, awarded by LRQA, is provided with application FORM B2.

4.3 Site location

The location of the key receptors in relation to the site is set out in Drawing ref: VES_DTO_STOKE_300_008 in Appendix A.

The facility is located within an industrial estate. There are a number of residential properties within 1km of the site however the closest residential dwelling is located more than 400 m north east to the site. The nearest European site is King's and Hargreaves Woods SSSI which is located more than 2.5 km away from the site. The site is not in close proximity to sensitive receptors and doesn't have a history of amenity complaints. The site is not within a groundwater source protection zone 1. There is no history of flooding on the site and the site is not in a flood risk area.

It is predicted that there will be negligible risk resulting from the proposed activities.

Key Considerations:

- Prompt turnaround of waste storage
- Site not in close proximity to sensitive receptors
- No history of amenity complaints
- All reception and bulking of waste, including food waste, will be contained within a building
- Food waste will be removed from the building by the end of the working day
- Only wood and glass stored outside within the confines of dedicated storage bays and scrap metal and food waste within dedicated containers
- Food waste will be stored within an enclosed leakproof container when stored outside
- A dust & odour suppression system is fitted around the key operational areas and used to prevent the build-up of airborne dusts & smells when required
- A pest control contract is in place
- A Fire Prevention Plan is in place and a revision to take into account the proposed operation is submitted with this application
- ISO 140001 accredited management system in place

4.4 Emissions to air

There will be no point source emissions to air from this operation.

4.5 Emissions to sewer

Emissions to sewer from this facility are discharged under a Trade Effluent Consent issued by Severn Trent Water.

Runoff from the new external bays and the transfer station will be directed to the existing trade effluent drainage system. The trade effluent drainage system can be isolated via a penstock valve located at the entrance of the site in the event of a significant spillage or fire.

The new food waste bay within the transfer station will have a dedicated sealed drainage so that leachate from the bay can be periodically collected and disposed off site at a suitably permitted facility.

Refer to Drawing ref: VES_DTO_STOKE_300_006 in Appendix A for the proposed site's drainage layout.

4.6 Emissions to surface water and groundwater

Existing impermeable hardstanding surfaces across the site are used. Clean run-off is collected from the site and diverted to the existing surface water drainage which discharges to surface water sewer.

Run-off from the new refueling station area will be discharged to the surface water drainage system via a new full retention separator.

Both the food waste and scrap metal containers will be stored on the yard's impermeable surface with drainage discharging to the surface water collection system. The containers will be enclosed and leakproof. They will be checked for leaks regularly and repaired/taken out of service if leaking/broken. In the event of spillage, the spill response procedure will be followed.

The surface waster drainage can be isolated via a penstock valve located at the entrance of the site in the event of a significant spillage or fire.

The site drainage is set out in Drawing ref: VES_DTO_STOKE_300_006 in Appendix A.

4.7 Emissions to land

There will be no emissions to land resulting from the proposed changes.

4.8 Dust and Fugitive Emissions

The issues of odour, dust and windblown litter are frequently the subject of concern in relation to waste management facilities. Consequently, practices have evolved to minimise these potential impacts. The day to day control of these issues would be monitored and enforced by the Environment Agency through the Environmental Permit.

Dust and litter are considered as part of the Environmental Risk Assessment, set out in Appendix B.

The site is not located with a designated Air Quality Management Area for particulate matter.

Vehicles carrying waste material would be securely sheeted or enclosed ensuring that no litter problems would occur on site or within the local highway network. All outside storage would be undertaken fully within the confines of dedicated storage bays or containers.

The site is also fitted with a dust & odour suppression system around the key operational areas used to prevent the build-up of airborne dusts & smells when required.

Effective site management will ensure that any litter would be collected and returned back into the waste transfer building.

Airborne dust is only generated in particularly dry conditions and could only become an issue when the wind is blowing towards any potentially sensitive properties. During periods of dry weather the hardstandings would, if necessary, be dampened to avoid the generation of dust as appropriate.

Good housekeeping standards minimise the potential for nuisance related issues, such as dust and litter.

In the event of adverse weather including high winds or when dust levels become a nuisance the operation will be halted.

HGVs enter the site from the public highway and their chassis and wheels would be clear of significant dust and debris. As there would be no interaction with waste whilst on site the vehicles would similarly leave the site in a clean condition.

4.9 Odour

Odour is considered as part of the Environmental Risk Assessment, set out in Appendix B.

The transfer station is managed and operated so as to minimise the time waste is held either in the transfer station building or the outside storage bays awaiting removal.

Food waste will be removed from the bay located in the transfer station building by the end of the working day and if not transported off site, will be stored on site within the enclosed leakproof container for a maximum of 72 hours.

By limiting the time from deposit prior to removal, the potential for odour is significantly reduced.

The site is also fitted with a dust & odour suppression system around the key operational areas used to prevent the build-up of airborne dusts & smells when required.

Good housekeeping will also be implemented at the site with storage bays cleaned on a regular basis and the yard area swept regularly.

The food waste bay and adjacent reception area will be subject to weekly cleaning and disinfection as a minimum. Vehicles handling or transporting food waste will be regularly cleaned and disinfected. Food waste containers will be cleaned on a regular basis using the existing onsite vehicle wash.

Taking account of the proposed mitigation measures and distance from sensitive receptors the risk of odours is considered to be minimal.

4.10 Monitoring and measurement

The Veolia Management System includes procedures for inspecting the site and its perimeter on a daily basis.

Monitoring of the sewer discharge will be undertaken, when required, in order to determine compliance with the Trade Effluent Consent.