

Permit Variation

EPR/EB3005KB

Bridgenorth Recycling Facility

Non Technical Summary

Veolia ES (UK) Limited
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1. Non-technical summary

1.1. The Facility

The Bridgnorth Recycling Facility 'BRF' currently accepts mainly flat screen display units which are processed by a series of mechanical and manual dismantling stages to generate high quality material streams suitable for reprocessing in secondary plastics or metal sectors. The facility also processes smaller volumes of other electrical items such as small WEEE. The facility also has the necessary security protocols and infrastructure to undertake secure destruction of pre and post consumer items, preventing unsuitable material entering the grey market and ensuring efficient compliant recycling. The facility is an Approved Authorised Treatment Facility 'AATF' and an Approved Exporter 'AE'.

1.2. Permitting history

The facility was permitted in July 2016 under a standard rules permit for processing up to 75kte of WEEE (authorised treatment facility excluding ozone depleting substances - SR2015No15). The standard rules set was updated by the Environment Agency in 2019 and as a result some activities carried out at the site were no longer in scope. A bespoke Installation permit was issued in 2020 with the scope of incoming wastes restricted to two EWC codes assigned to hazardous WEEE (16 02 13* and 20 01 35*).

2. Location

The facility is located at:

Faraday Drive
Bridgnorth
Shropshire
WV15 5BA

Grid reference: SO 72860 92219

3. Scope of Variation

3.1. Summary of required permit changes

This variation is principally to broaden the waste types that can be accepted at the facility. Currently the facility is licensed to accept hazardous WEEE which is principally in the form of flat screen display units. The facility also accepts lesser volumes of small WEEE.

The combination of skilled technicians and automated processing capability on site mean the facility is adaptable and readily capable of treating a broader portfolio of waste types to produce high quality recyclable material streams. As well as the hazardous WEEE already treated this capability includes non hazardous waste and non WEEE.

The list of wastes 'LOW' is divided by sector and as such, waste items / material could therefore be of a similar composition with different origin. The additional proposed codes will allow the facility to respond to requests for material recycling and secure destruction services across a wide spectrum of industrial and commercial sectors. The waste types accepted will be those those which the existing facilities on site are already capable of treating and pollution risk is not being increased. This would include wastes in a variety of formats from a range of sectors that are usually whole units or components composed principally of metal and plastic although we have allowed for other material types such as textiles and wood / furniture. Any WEEE inputs into the site will continue to be treated in accordance with BATRRT. EWC ending in '99' are designated to capture material which does not easily fit into the other available categories. As it is not possible to anticipate every enquiry into the BRF we propose adding the available '99' codes either with a pre-approval cycle which will need to be agreed in advance of acceptance or restrictions in the code descriptions. The overall risk is confined by the small waste storage volumes linked to this activity.

Waste types will not include whole end of life vehicles, those which are dusty or odorous, radioactive wastes or those containing ozone depleting substances or PCB's. There will be no changes to the core processes on site and these will include a mixture of manual and mechanical dismantling techniques.

This variation also captures some minor changes which have occurred to the external storage facility which includes the recent construction of a covered Legioblock storage area. The facility's operating procedures have been updated to include future installation of an additional mini shredder for secure destruction purposes.

3.2. Technical changes to the permit

Change	Description
Hazardous waste codes added to S5.3 A(1) (a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physicochemical treatment	<ul style="list-style-type: none"> • Addition of new EWC • Updated operating procedure
Add a new non hazardous waste treatment (manual and mechanical) activity and accompanying suite of non hazardous waste codes	<ul style="list-style-type: none"> • Add a non hazardous waste treatment activity • Updated operating procedure
Revision to the Fire Prevention Plan to include changes to external storage area and waste types	<ul style="list-style-type: none"> • Updated FPP
Addition of 'manual' treatment to the S5.3 A(1) (a) (ii) activity	<ul style="list-style-type: none"> • Updating of the wording of the permit to include manual treatment

Limitations

- Treatment of waste will remain as physico-chemical only (i.e. the site will remain a S5.3 A(1) (a) (ii) activity) with the addition of a non hazardous waste activity.
- Treatment of waste will continue to be principally for recovery (i.e. the site will not be a S5.4(A)(ii) activity)
- The amount of hazardous waste stored at the site will be below 50 tonnes at any one time (i.e. below the threshold of a S5.6A(1)(a)(i) activity).
- Shredding of non hazardous waste for recovery or disposal will be below 75 tonnes per day (i.e. below the threshold of a S5.4A(1)(a)(iv) activity).
- There will be no treatment of combustible wastes for incineration or co-incineration (i.e. it will not be a S5.4A(1)(a)(iii) or S5.4A(1)(b)(ii) activity).
- The facility will not accept hazardous wood waste and there will be no shredding of wood.
- Waste treatment methods will remain as manual and mechanical treatment consisting of sorting, separation, shredding, screening, grading, baling, shearing, compacting, crushing, granulation or cutting for the purpose of recovery. The operation of the hazardous and non hazardous activities are not isolated, effectively they will be used for the same purpose to treat the same broad types of wastes, which will principally be whole items or components of metal and plastic construction with the option for some additional items such as textiles, furniture etc which the site may be capable of treating.
- The site will not accept wastes which are dusts, liquids or odourous, the inputs will principally be pre or post consumer whole items or components which require recycling and recovery or plastics, metals, and WEEE subcomponents like PCB boards.

3.3. Operating procedures

The operating procedures have been updated and refreshed to cover a broader range of waste inputs. The document provides an overview of the activities carried out at the facility including process flow diagrams.

Change	Description
Fire prevention Plan – Bridgnorth Flatscreen Recovery, August 2020	202404_BRIDGNORTH_FPP_V2
202403_EB3005KB_Site specific recycling operating procedure	202403_EB3005KB_Site specific recycling operating procedure
General Arrangement Drawing VES_TD_BRGN_200_021, Rev D, 20/05/20	General Arrangement Drawing VES_TD_BRGN_200_021, Rev E, 2024

3.4. List of wastes

The following lists of wastes are required (waste highlighted are already included on the permit). Further restrictions, where applicable, are square bracketed in red text. Wastes indicated with a ‘ * ’ will be subject to enhanced approval. Wastes not otherwise specified can be restricted to “waste equipment / items made of mixed materials”. Radioactive material will not be accepted other than low risk items such as smoke alarms. Dusty and odourous wastes will not be accepted.

Non hazardous waste codes

Waste code	Description of waste	*
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, PHYSICAL AND CHEMICAL TREATMENT OF MINERALS	
01 03	wastes from physical and chemical processing of metalliferous minerals	
01 03 99	wastes not otherwise specified	*
01 04	wastes from physical and chemical processing of non-metalliferous minerals	
01 04 99	wastes not otherwise specified	*
01 05	drilling muds and other drilling wastes	
01 05 99	wastes not otherwise specified	*
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING	
02 01	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing	
02 01 04	waste plastics (except packaging)	

02 01 10	waste metal	
02 01 99	wastes not otherwise specified	*
02 02	wastes from the preparation and processing of meat. Fish and other foods of animal origin	
02 02 99	wastes not otherwise specified	*
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, teas and tobacco preparation and processing, conserve production, yeast and yeast extraction production, molasses preparation and fermentation	
02 03 99	wastes not otherwise specified	*
02 04	wastes from sugar processing	
02 04 99	wastes not otherwise specified	*
02 05	wastes from the dairy products industry	
02 05 99	wastes not otherwise specified	*
02 06	wastes from the baking and confectionery industry	
02 06 99	wastes not otherwise specified	*
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)	
02 07 99	wastes not otherwise specified	*
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD	
03 01	wastes from wood processing and the production of panels and furniture	
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04	
03 01 99	wastes not otherwise specified	*
03 03	wastes from pulp, paper and cardboard production and processing	
03 03 99	wastes not otherwise specified	*
04	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES	
04 01	wastes from the leather and fur industry	
04 01 99	wastes not otherwise specified	*
04 02	wastes from the textile industry	
04 02 09	Wastes from composite materials (impregnated textile, elastomer, plastomer)	
04 02 15	Wastes from finishing other than those mentioned in 14 02 14	
04 02 21	Wastes from unprocessed textile fibres	
04 02 22	Wastes from processed textile fibres	
04 02 99	wastes not otherwise specified	*

05	WASTES FROM THE PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLITIC TREATMENT OF COAL	
05 01	wastes from petroleum refining	
05 01 99	wastes not otherwise specified	*
05 06	wastes from the pyrolitic treatment of coal	
05 06 99	wastes not otherwise specified	*
05 07	wastes from natural gas purification and transportation	
05 07 99	wastes not otherwise specified	*
05 07	05 07 wastes from natural gas purification and transportation	
06	WASTES FROM INORGANIC CHEMICAL PROCESSES	
06 01	waste from the manufacture, formulation, supply and use (MFSU) of acids	
06 01 99	wastes not otherwise specified	*
06 02	wastes from the MFSU of bases	
06 02 99	wastes not otherwise specified	*
06 03	wastes from the MFSU of salts and their solutions and metallic oxides	
06 03 99	wastes not otherwise specified	*
06 04	metal-containing wastes other than those mentioned in 06 03	
06 04 99	wastes not otherwise specified	*
06 06	wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes	
06 06 99	wastes not otherwise specified	*
06 07	wastes from the MFSU of halogens and halogen chemical processes	
06 07 99	wastes not otherwise specified	*
06 08	wastes from the MFSU of silicon and silicon derivatives	
06 08 99	wastes not otherwise specified	*
06 09	wastes from the MFSU of phosphorous chemicals and phosphorous chemical processes	
06 09 99	wastes not otherwise specified	*
06 10	wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture	
06 10 99	wastes not otherwise specified	*
06 11	waste from the manufacture of inorganic pigments and opacifiers	
06 11 99	wastes not otherwise specified	*
06 13	wastes from inorganic chemical processes not otherwise specified	

06 13 99	wastes not otherwise specified	*
07	WASTES FROM ORGANIC CHEMICAL PROCESSES	
07 01	wastes from the MFSU of basic organic chemicals	
07 01 99	wastes not otherwise specified	*
07 02	wastes from the MFSU of plastics, synthetic rubber and manmade fibres	
07 02 13	waste plastic	
07 02 99	wastes not otherwise specified	*
07 03	wastes from the MFSU of organic dyes and pigments (except 06 11)	
07 03 99	wastes not otherwise specified	*
07 04	wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09) , wood preserving agents (except 03 02) and other biocides	
07 04 99	wastes not otherwise specified	*
07 05	wastes from the MFSU of pharmaceuticals	
07 05 99	wastes not otherwise specified	*
07 06	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics	
07 06 99	wastes not otherwise specified	*
07 07	wastes from the MFSU of fine chemicals and chemical products not otherwise specified	
07 07 99	wastes not otherwise specified	*
08	WASTES FROM THE MFSU OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS	
08 02	wastes from MFSU of other coatings (including ceramic materials)	
08 02 99	wastes not otherwise specified	*
08 03	wastes from MFSU of printing inks	
08 03 99	wastes not otherwise specified	*
08 04	wastes from MFSU of adhesives and sealants (including waterproofing products)	
08 04 99	wastes not otherwise specified	*
08 04	wastes from MFSU of adhesives and sealants (including waterproofing products)	
08 04 99	wastes not otherwise specified	*
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY	
09 01	Wastes from the photographic industry	
09 01 07	photographic film and paper containing silver or silver compounds	
09 01 08	photographic film and paper free of silver or silver compounds	

09 01 10	single use cameras without batteries	
09 01 12	Single-use cameras containing batteries other than those mentioned in 09 01 11	
09 01 99	wastes not otherwise specified	*
10	WASTE FROM THERMAL PROCESSES	
10 01	wastes from power stations and other combustion plants (except 19)	
10 01 99	wastes not otherwise specified	*
10 02	wastes from the iron and steel industry	
10 02 99	wastes not otherwise specified	*
10 03	wastes from aluminium thermal metallurgy	
10 03 02	anode scraps	
10 03 05	waste alumina	
10 08	wastes from other non-ferrous thermal metallurgy	
10 08 14	anode scrap	
10 03 99	wastes not otherwise specified	*
10 04	wastes from lead thermal metallurgy	
10 04 99	wastes not otherwise specified	*
10 05	wastes from zinc thermal metallurgy	
10 05 99	wastes not otherwise specified	*
10 06	wastes from copper thermal metallurgy	
10 06 99	wastes not otherwise specified	*
10 07	wastes from silver, gold and platinum thermal metallurgy	
10 07 99	wastes not otherwise specified	*
10 08	wastes from other non-ferrous thermal metallurgy	
10 08 14	anode scrap	
10 08 99	wastes not otherwise specified	*
10 09	wastes from casting of ferrous pieces	
10 09 99	waste not otherwise specified	*
10 10	wastes from casting of non-ferrous pieces	
10 10 99	wastes not otherwise specified	*
10 11	wastes from manufacture of glass and glass products	
10 11 99	wastes not otherwise specified	*

10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products	
10 12 99	wastes not otherwise specified	*
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them	
10 13 99	wastes not otherwise specified	*
10 11	wastes from manufacture of glass and glass products	
10 11 03	waste glass-based fibrous materials	
10 11 12	waste glass other than those mentioned in 10 11 11	
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products	
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)	
10 12 12	wastes from glazing other than those mentioned in 10 12 11	
11 Wastes from Chemical Surface Treatment and Coating of Metals and Other Materials, Non-Ferrous HydroMetallurgy		
11 01	wastes from chemical surface treatment and coating of metals and other materials (e.g. galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)	
11 01 99	waste not otherwise specified	*
11 02	wastes from non-ferrous hydrometallurgical processes	
11 02 99	wastes not otherwise specified	*
11 05	wastes from hot galvanising processes	
11 05 99	wastes not otherwise specified	*
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS	
12 01	Wastes from shaping and physical and mechanical surface treatment of metals and plastics	
12 01 01	Ferrous metal filings and turnings	
12 01 03	Non-ferrous metal filings and turnings	
12 01 05	plastic shavings and turnings	
12 01 99	wastes not otherwise specified	*
13 Oil Wastes and Wastes of Liquid Fuels (except edible oils and those in chapters 05,12 and 19)		
13 08	oil wastes not otherwise specified	
13 08 99	wastes not otherwise specified	*
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	
15 01	Packaging (including separately collected municipal packaging waste)	

15 01 01	paper and cardboard packaging	
15 01 02	plastic packaging	
15 01 03	wooden packaging	
15 01 04	Metallic packaging	
15 01 05	composite packaging	
15 01 06	Mixed packaging	
15 01 07	glass packaging	
15 01 09	textile packaging	
15 02	absorbents, filter materials, wiping cloths and protective clothing	
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST	
16 01	End-of-life vehicles from different means of transport [including offroad machinery] and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13,14, 16 06 and 16 08)	
16 01 17	Ferrous metal	
16 01 18	Non-ferrous metal	
16 01 19	plastic	
16 01 20	glass	
16 01 22	Discarded components not otherwise specified	
16 01 99	wastes not otherwise specified	*
16 02	Wastes from electrical and electronic equipment	
16 02 14	Discarded equipment other than those mentioned in 16 02 09 to 16 02 13	
16.02 16	Components removed from discarded equipment other than those mentioned in 16 02 15	
16 03	Off-specification batches and unused products	
16 03 04	inorganic wastes other than those mentioned in 16 03 03	
16 03 06	organic wastes other than those mentioned in 16 03 05	
16 07	wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)	
16 07 99	wastes not otherwise specified	*
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	
17 02	wood, glass and plastic	
17 02 02	glass	
17 02 03	plastic	

17 04	metals (including their alloys)	
17 04 01	Copper, bronze, brass	
17 04 02	Aluminium	
17 04 03	Lead	
17 04 04	Zinc	
17 04 05	Iron and steel	
17 04 06	Tin	
17 04 07	Mixed metals	
17 04 11	Cables other than those mentioned in 17 04 10	
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION/INDUSTRIAL USE	
19 01	Wastes from incineration or pyrolysis of waste	
19 01 02	Ferrous materials removed from bottom ash	
19 01 99	wastes not otherwise specified	*
19 02	wastes from physico/chemical treatment of waste (including dechromatation, decyanidation, neutralisation)	
19 02 99	wastes not otherwise mentioned	*
19 05	wastes from aerobic treatment of solid wastes	
19 05 99	wastes not otherwise specified	*
19 06	wastes from anaerobic treatment of waste	
19 06 99	wastes not otherwise specified	*
19 08	wastes from waste water treatment plants not otherwise specified	
19 08 99	wastes not otherwise specified	*
19 09	wastes from the preparation of water intended for human consumption or water for industrial use	
19 09 99	wastes not otherwise specified	*
19 11	wastes from oil regeneration	
19 11 99	wastes not otherwise specified	*
19 10	Wastes from shredding of metal-containing wastes	
19 10 01	Iron and steel waste	
19 10 02	Non-ferrous waste	
19 12	Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified	
19 12 01	paper and cardboard	

19 12 02	Ferrous metal	
19 12 03	Non-ferrous metal	
19 12 04	plastic and rubber	
19 12 05	glass	
19 12 08	textiles	
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	
20 01	Separately collected fractions (except 15 01)	
20 01 02	Glass	
20 01 10	Clothes	
20 01 11	Textiles	
20 01 36	Discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	
20 01 39	Plastics	
20 01 40	Metals	
20 01 99	other fractions not otherwise specified	*
20 03	other municipal wastes	
20 03 07	Bulky waste	
20 03 99	municipal wastes not otherwise specified	*

Hazardous waste codes

Waste code	Description of waste	*
05	WASTES FROM THE PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLITIC TREATMENT OF COAL	
05 07	05 07 wastes from natural gas purification and transportation	
05 07 01*	Wastes containing mercury	
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY	
09 01	Wastes from the photographic industry	
09 01 11*	Single-use cameras containing batteries included in 16 06 01, 16 06 02 or 16 06 03	
10 11	wastes from manufacture of glass and glass products	
10 11 11*	waste glass in small particles and glass powder containing metals (e.g cathode ray tubes)	
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products	

10 12 11*	wastes from glazing containing heavy metals	
11 Wastes from Chemical Surface Treatment and Coating of Metals and Other Materials, Non-Ferrous HydroMetallurgy		
11 01	wastes from chemical surface treatment and coating of metals and other materials (e.g. galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)	
11 01 99*	waste not otherwise specified	*
13 Oil Wastes and Wastes of Liquid Fuels (except edible oils and those in chapters 05,12 and 19)		
13 08	oil wastes not otherwise specified	
13 08 99*	wastes not otherwise specified	*
15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED		
15 01	Packaging (including separately collected municipal packaging waste)	
15 01 10*	packaging containing residues of or contaminated by hazardous substances	
16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST		
16 01	End-of-life vehicles from different means of transport [including offroad machinery] and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13,14, 16 06 and 16 08)	
16 01 08*	components containing mercury	
16 01 21*	hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14	
16 02	Wastes from electrical and electronic equipment	
16 02 13*	Discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12	
16 02 15*	Hazardous components removed from removed from discarded equipment	
16 03	Off-specification batches and unused products	
16 03 03*	inorganic wastes containing hazardous substances	
16 03 05*	organic wastes containing hazardous substances	
16 04	waste explosives	
16 04 01*	waste ammunition [where explosives and powders have been removed]	
16 04 02*	fireworks wastes [where explosives and powders have been removed]	
16 04 03*	other waste explosives [where explosives and powders have been removed]	
17 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)		
17 02	wood, glass and plastic	
17 02 04*	glass, plastic and wood containing or contaminated with substances	

17 04	metals (including their alloys)	
17 04 09*	Metal waste contaminated with dangerous substances	
17 04 10*	Cables containing oil, coal tar and other dangerous substances	
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	
20 01	Separately collected fractions (except 15 01)	
20 01 21*	Fluorescent tubes and other mercury-containing waste	
20 01 35*	Discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	