WILLIAMS PLANT HIRE LTD

ABERBECHAN WHARF

NEWTOWN

POWYS

SY16 3AW

OPERATIONAL TECHNIQUES

CEC/WPH/App/002/V2.0

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1.1 Specified Waste Management Operations

Following a meeting with the local NRW officer Liz Parks, this application is primarily to increase the permitted area of the site to allow more storage and processing of inert (specified) wastes. The site is currently operated under an environmental permit No EAWML47128. This application is to extend the permitted area and as the permit is an old style with an associated working plan it is requested that the current conditions are all deleted, and a new consolidated modern style permit issued to cover the slightly varied waste types listed below and modern style conditions to cover the following specified activities. The working plan is being replaced with an Environmental Management System (EMS).

In addition to the mechanical treatment currently permitted the variation is to allow for baling of paper and cardboard and the chipping and shredding of wood and green waste and the use of compaction to reduce the volume of waste in containers. Once bales are produced they will be stored in containers prior to being sent off site for further processing.

The variation is also to include the addition of the R5 recycling code as shown in the table below.

The variation will allow the storage of combustible wastes on the site in accordance with the Fire prevention and Mitigation Plan. Waste specified in Table 2 will be processed and stored outside on the hardstanding area.

Description of Activites	**Limits of Activities**
Description of activities Limits of activities D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced) R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) D14: Repackaging prior to submission to any of the operations numbered D1 to 13 D9: Physico-chemical treatment not specified elsewhere in Annex IIA which results in final compounds or	Treatment consisting only of manual sorting, mechanical sorting, separation, screening, baling, shredding, crushing or compaction of waste into different components for disposal, (no more than 50 tonnes per day) or recovery. No more than a total of 50 tonnes of intact and shredded waste vehicle tyres (waste codes 16 01 03 and 19 12 04) shall be stored on the site.

mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12 R3: Recycling/reclamation of organic substances which are not used as solvents R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	

Waste Types Table 1

Maximum quantities
the total quantity of waste accepted at the site shall be less than 24,999 tonnes a year.

Exclusions
wastes having any of the following characteristics shall not be accepted:

- consisting solely or mainly of dusts, powders or loose fibres
- wastes that are in a form which is either sludge or liquid

Waste code	Description
Table 1. waste types and quantities	
01	**WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS**
01 01	**wastes from mineral excavation**
01 01 01	wastes from mineral metalliferous excavation
01 01 02	wastes from mineral non-metalliferous excavation
01 04	**wastes from physical and chemical processing of non-metalliferous minerals**
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
01 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07
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 03	plant-tissue waste
02 01 04	waste plastics (except packaging)
02 01 07	wastes from forestry
02 01 10	waste metal
02 03	**wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation**
02 03 04	materials unsuitable for consumption or processing
02 05	**wastes from the dairy products industry**
02 05 01	materials unsuitable for consumption or processing
02 06	**wastes from the baking and confectionery industry**
02 06 01	materials unsuitable for consumption or processing

02 07	**wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)**
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 04	materials unsuitable for consumption or processing
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 01	waste bark and cork
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	**wastes from pulp, paper and cardboard production and processing**
03 03 01	waste bark and wood
04	**WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES**
04 02	**wastes from the textile industry**
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres
07	**WASTES FROM ORGANIC CHEMICAL PROCESSES**
07 02	**wastes from the mfsu of plastics, synthetic rubber and man-made fibres**
07 02 13	waste plastic
09	**WASTES FROM THE PHOTOGRAPHIC INDUSTRY**
09 01	**wastes from the photographic industry**
09 01 10	single-use cameras without batteries
09 01 12	single-use cameras containing batteries other than those mentioned in 09 01 11
10	**WASTES FROM THERMAL PROCESSES**
10 03	**wastes from aluminium thermal metallurgy**
10 03 02	anode scraps
10 04	**wastes from lead thermal metallurgy**
10 04 10	wastes from cooling-water treatment other than those mentioned in 10 04 09
10 09	**wastes from casting of ferrous pieces**
10 09 03	furnace slag
10 09 06	casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
10 09 08	casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 16	waste crack-indicating agent other than those mentioned in 10 09 15
10 10	**wastes from casting of non-ferrous pieces**
10 10 06	casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05
10 10 08	casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
10 10 16	waste crack-indicating agent other than those mentioned in 10 10 15
10 11	**wastes from manufacture of glass and glass products**
10 11 03	waste glass-based fibrous materials
10 11 10	waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
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 01	waste preparation mixture before thermal processing
10 12 05	sludges and filter cakes from gas treatment (consisting of filter cakes only)
10 12 06	discarded moulds
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
10 13	**wastes from manufacture of cement, lime and plaster and articles and products made from them**
10 13 01	waste preparation mixture before thermal processing
10 13 04	wastes from calcination and hydration of lime
10 13 07	sludges and filter cakes from gas treatment (consisting of filter cakes only)
10 13 10	wastes from asbestos-cement manufacture other than those mentioned in 10 13 09

10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12
10 13 14	waste concrete and concrete sludge (consisting of waste concrete only)
11	**WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND**
Table 2.2. waste types and quantities	
	OTHER MATERIALS; NON-FERROUS HYDRO METALLURGY
11 05	**wastes from hot galvanising processes**
11 05 01	hard zinc
11 05 02	zinc ash
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	plastics shavings and turnings
12 01 13	welding wastes
12 01 17	waste blasting material other than those mentioned in 12 01 16
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
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 off-road machinery] and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)**
16 01 03	end-of-life-tyres
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 06	**batteries and accumulators**
16 06 04	alkaline batteries (except 16 06 03)
16 06 05	other batteries and accumulators
16 11	**waste linings and refractories**
16 11 02	carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
16 11 06	linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
17 01	**concrete, bricks, tiles and ceramics**

17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	**wood, glass and plastic**
17 02 01	wood
17 02 02	glass
17 02 03	plastic
17 03	**bituminous mixtures, coal tar and tarred products**
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
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
17 05	**soil (including excavated soil from contaminated sites), stones and dredging spoil**
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 08	track ballast other than those mentioned in 17 05 07
17 06	**insulation materials and asbestos-containing construction materials**
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 08	**gypsum-based construction material**
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01
17 09	**other construction and demolition wastes**
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
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 12	bottom ash and slag other than those mentioned in 19 01 11
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17
19 01 19	sands from fluidised beds
19 02	**wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 04	**vitrified waste and wastes from vitrification**
19 04 01	vitrified waste
19 05	**wastes from aerobic treatment of solid wastes**
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost
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 07	wood other than that mentioned in 19 12 06
19 12 08	textiles
19 12 09	minerals (for example sand, stones)

19 13	**wastes from soil and groundwater remediation**
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
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 01	paper and cardboard
20 01 02	glass
20 01 08	biodegradable kitchen and canteen waste
20 01 10	clothes
20 01 11	textiles
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
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 38	wood other than that mentioned in.20 01.37
20 01 39	plastics
20 01 40	metals
20 01 41	wastes from chimney sweeping
20 02	**garden and park wastes (including cemetery waste)**
20 02 01	biodegradable waste
20 02 02	soil and stones
20 03	**other municipal wastes**
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 07	bulky waste

Table 2 Specified Wastes which can be treated and stored on hardstanding or on an impermeable surface with sealed drainage system

Waste code	Description
01	**WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS**
01 01	**wastes from mineral excavation**
01 01 01	wastes from mineral metalliferous excavation
01 01 02	wastes from mineral non-metalliferous excavation
01 04	**wastes from physical and chemical processing of non-metalliferous minerals**
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
01 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07
02	**WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING**
02 04	**wastes from sugar processing**
02 04 01	soil from cleaning and washing beet
10	**WASTES FROM THERMAL PROCESSES**
10 11 12	waste glass other than those mentioned in 10 11 11 (consisting of clean glass only)
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 13	**wastes from manufacture of cement, lime and plaster and articles and products made from them**
10 13 14	waste concrete and concrete sludge (consisting of waste concrete only)
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 07	glass packaging (consisting of clean glass only)

17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
17 01	**concrete, bricks, tiles and ceramics**
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	**wood, glass and plastic**
17 02 02	Glass (consisting of clean glass only)
17 03	**bituminous mixtures, coal tar and tarred products**
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
17 05	**soil (including excavated soil from contaminated sites), stones and dredging spoil**
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 08	track ballast other than those mentioned in 17 05 07
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION/INDUSTRIAL USE**
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 05	Glass (consisting of clean glass only)
19 12 09	minerals (for example sand, stones)
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 02	**garden and park wastes (including cemetery waste)**
20 02 02	soil and stones

2.0 Site Location and Setting

The site is in close proximity to the River Severn and the Montgomery Canal (which is a SSSI and SPA). Risk assessments, including potential impacts on the River Severn and the Montgomery Canal are included in the variation application.

The increased permit area has been determined by looking at the levels on the site and ensuring that the permitted area will be outside of the Flood Zone 3, as shown on the Flood Risk Map in Appendix 2. The existing and increased permitted areas are within Flood Zone 2 and this is defined as a 1 in 1000 event. During the years of operation this area has never flooded.

A search for Groundwater Protection Zones has been carried out and none are present at the site or in the surrounding area. There are no known private water supplies within 0.5km.

An EMS has been developed for the site to replace the existing working plan.

A new plan CEC/WPH/01 to show the new area is included along with a layout plan CEC/WPH/02 in Appendix 1.

2.1 Operational Areas

Other than specified wastes, as detailed in Table 2 of this document all waste processing shall be carried out within the building and wastes shall be stored within the bays or in secure containers, or within the building. All secure containers stored outside on the hardstanding shall be sheeted to prevent rain entering the container.

Specified wastes (Table 2) shall be stored and processed on the hardstanding area.

The site drainage consists of a sealed sump in the buildings with a drain to an external underground tank. The hardstanding area shall have a small bund constructed along the boundary adjacent to the River Severn to prevent any direct runoff reaching the river.

2.2 Waste Treatment

The current permit allows for mechanical segregation using the grab/ excavator to separate wastes into material for disposal, inerts and material to be processed in the trommel and associated picking Line. The variation is to include additional treatment in the form of compaction, baling, chipping and shredding to reduce material volumes and to reduce the transport costs.
The wastes suitable for baling are – 15 01 01, 19 12 01 and 20 01 01
The wastes suitable for chipping and shredding are 15 01 03, 17 02 01
19 12 07, 20 01 38 and 20 02 01.

Chipping and shredding shall only be carried out on an intermittent basis when required and when the conditions are suitable. As chipping plant is available from the plant hire business there are no set dates for equipment hire, which can lead to the plant being used when weather conditions are less favorable.

3.0 Environmental Management System (EMS)

An in house Environmental Management System (EMS) has been developed for the operations at the site to detail how pollution control measures are to be applied and monitored. As the site develops the EMS will be reviewed and amended as necessary.

The EMS has comprehensive procedures to ensure that the mitigation measures identified in the Environmental Risk Assessment are in place so that the site does not pose a threat to the environment. The techniques to control the hazards identified in the risk assessment can be summarised as follows

3.1 Control of Dust and Particulates

The following prevention and control measures will be implemented to ensure that the emission of dust and particulates are minimized at the site boundary. The additional chipping and shredding activities are only carried out occasionally and the volumes of chipped/ shredded materials are low with 1 x 40cu/yd container being specified in the FPMP. The impacts from dust will be managed by damping the materials prior to processing if required.

Measures	**Specification**
Physical containment and Controls	• 5mph speed limit set on site roads • Sorted materials stored in 3 sided bays, within the building or in sealed containers • Ensuring that the roads are kept clean • Chipping and shredding only undertaken infrequently and not during conditions likely to cause dust emissions. Suppression by damping down the waste if required.
Monitoring	• Visual monitoring by the operator through the comprehensive inspection regime included in the EMS
Actions	• Implementing road cleaning and additional damping down. Recording of any dust issues which arise and reviewing the dust control measures to ensure compliance

3.2 Control of Mud and Debris

Mud on the highways may result from vehicles leaving the site. Generally vehicles entering the site will be clean and not deposit mud on the internal roads. The systems of waste segregation will also reduce the chances of the surfaces becoming muddy. Site staff monitor these areas and when necessary a roadsweeper will be used to clean the roads of any mud, which has been deposited on the highway. The EMS contains a comprehensive inspection and recording regime.

3.3 Control of Noise

The following prevention and control measures will be implemented to ensure that the noise is minimised at the site boundary:

Measures	Specification
Operational procedures	• Use silencers on vehicles and plant • Site opening hours restrict noisy operations • Reduce drop heights for waste • Auditory monitoring of noise levels at different places and times • Maintain equipment • Enclose or abatement eg acoustic screens if needed • Switch noisy plant off when not in use
Monitoring	• Any complaints regarding noise will be investigated by site operator
Actions	• Implement prevention and control measures such as extra plant maintenance, maintenance of yard area to avoid ruts, reducing or stopping noisy activities • Any changes to ongoing operations will be implemented as necessary and EMS amended

3.4 Surface Water

The drainage system at the site will be inspected on a regular basis as defined in the EMS. Sealed sumps will be emptied when required and kept in a fully maintained state. The bund protecting the River Severn shall be inspected and repaired if necessary.

3.5 Control of Odours

No wastes consisting of substances with significant offensive odour are permitted on site in any significant quantities or frequencies. Putrescible wastes are not accepted in significant quantities. In the event of wastes becoming odourous then the material will be removed to landfill as soon as practicable. The monitoring of odours is part of the EMS requirements.

3.6 Waste Acceptance and Control Procedures

The aim is to process waste coming into the site is segregated and then sent off for further processing by specialist waste firms. In order to achieve this and reduce the quantity of materials sent to landfill there are efficient systems to segregate the

incoming wastes including the use of a trommel and final hand picking to produce a high quality hardcore material. During the process other wastes are removed and either sent for disposal or stockpiled for further re processing.

When waste arrives at the site the Waste Acceptance procedures in the EMS will ensure compliance. Waste leaving the facility will also be subjected to scrutiny to ensure that it is being sent to the correct facility in accordance with the Waste Duty of Care. This is also covered by procedures in the EMS.

In the unlikely event that any unauthorised waste or potentially contaminated waste is identified once a vehicle has entered the site the unauthorised waste will be segregated and the source of the waste investigated. If necessary samples will be taken and analysed for an appropriate suite of determinands before the waste is processed.

If the material proves not to be suitable for reprocessing it will be removed to a suitably permitted facility as soon as is practicable. This is covered by procedures in the EMS.

APPENDIX 1
Permitted Area Plan

APPENDIX 2
Nature and Heritage Conservation and Flooding Maps