



ENVIRONMENT
AGENCY

Variation Notice with introductory note

The Environmental Permitting (England & Wales) Regulations 2007

Hafod Quarry Landfill

Cory Environmental (Central) Limited
Bangor Road
Johnstown
Wrexham
LL14 6ET

Variation Notice Number

EA/EPR/PP3139GB/V003

Permit number

EPR/PP3139GB

Hafod Quarry Landfill

Permit Number EPR/PP3139GB

Introductory note

This introductory note does not form a part of the permit

The following notice, which is issued pursuant to regulation 20 and Part 1 of Schedule 5 of the Environmental Permitting (England and Wales) Regulations S.I.2007 No. 3538 (the Regulations), gives notice of the variation of an environmental permit to operate a regulated facility/facilities.

The notice comprises schedule 1 containing conditions to be deleted, schedule 2 conditions to be amended and schedule 3 conditions to be added.

This variation reflects the fact that the Operator wishes to extend the types of wastes accepted at the landfill to the full range of European Waste Catalogue (EWC) codes within the Non-Hazardous category.

Status Log of the permit		
Detail	Date	Response Date
Application reference BS8621 (EPR No. EPR/BS8621/A001)	Duly made	26/11/02
Request for further information	01/05/03	29/05/03
Request for further information	25/07/03	08/08/03
Permit determined	08/10/04	
Variation reference TP3032LA (EPR No. EPR/BS8621/V002)	Duly made	09/10/06
Variation reference TP3032LA (EPR No. EPR/BS8621/V002) determined	28/02/07	
Transfer reference PP3139GB (EPR No. EPR/PP3139GB/T001)	Duly made	26/09/08
Transfer reference PP3139GB (EPR No. EPR/PP3139GB/T001) determined	26/11/08	
Agency variation reference EPR/PP3139GB/V002	27/11/08	
Variation application reference GP3034GM (EPR No. EPR/PP3139GB/V003)	Duly Made	13/01/09
Variation application reference GP3034GM (EPR No. EPR/PP3139GB/V003) determined	27/03/09	

Superseded or Partially Superseded Licences/Authorisations/Consents relating to this installation			
Holder	Reference Number	Date of Issue	Fully or Partially Superseded
Shropshire Waste Management Limited	EAWML/ 37201	30/04/1999	Fully
SITA (Hafod Quarries Ltd)	CG0397901	25/05/2002	Fully
Hafod Quarries Ltd	CG0323101	13/06/2000	Fully

End of Introductory Note

Variation Notice

Environmental Permitting
(England and Wales) Regulations 2007

Variation Notice

Permit number
EPR/PP3139GB

Variation number
EA/EPR/PP3139GB/V003

The Environment Agency in exercise of its powers under Regulation 20 of the Environmental Permitting (England and Wales) Regulations 2007 (SI 2000 No 3538) varies the permit as set out below.

Cory Environmental (Central) Limited ("the operator"),

of whose registered office is
2 Coldbath Square
London
EC1R 5HL

company registration number 02772558

to operate an installation at

shall operate a regulated facility at
Hafod Quarry Landfill
Bangor Road
Johnstown
Wrexham
LL14 6ET

to the extent set out in schedules 1 to 3 of this variation notice.

Signed	Date
	27 th March 2009

Ann Weedy – PPC Team Leader

Authorised to sign on behalf of the Agency

SCHEDULE 1 – CONDITIONS TO BE DELETED

1. None.

SCHEDULE 2 – CONDITIONS TO BE AMENDED

2. The following permit conditions and schedules are amended:

Schedule 3 – List of permitted wastes:

Schedule 3 – List of permitted wastes

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 03 wastes from physical and chemical processing of metalliferous minerals

01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05

01 03 08 dusty and powdery wastes other than those mentioned in 01 03 07

01 03 09 red mud from alumina production other than the wastes mentioned in 01 03 07

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 10 dusty and powdery wastes other than those mentioned in 01 04 07

01 04 11 wastes from potash and rock salt processing other than those mentioned in 01 04 07

01 04 12 tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11

01 04 13 wastes from stone cutting and sawing other than those mentioned in 01 04 07

01 05 drilling muds and other drilling wastes

01 05 04 freshwater drilling muds and wastes

01 05 07 barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06

01 05 08 chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06

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 06 animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site

02 01 07 wastes from forestry

02 01 09 agrochemical waste other than those mentioned in 02 01 08

02 01 10 waste metal

02 02 wastes from the preparation and processing of meat, fish and other foods of animal origin

02 02 01 sludges from washing and cleaning

02 02 03 materials unsuitable for consumption or processing

02 02 04 sludges from on-site effluent treatment

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 01 sludges from washing, cleaning, peeling, centrifuging and separation

02 03 02 wastes from preserving agents

02 03 03 wastes from solvent extraction

02 03 04 materials unsuitable for consumption or processing

02 03 05 sludges from on-site effluent treatment

02 04 wastes from sugar processing

02 04 01 soil from cleaning and washing beet
02 04 02 off-specification calcium carbonate
02 04 03 sludges from on-site effluent treatment
02 05 wastes from the dairy products industry
02 05 01 materials unsuitable for consumption or processing
02 05 02 sludges from on-site effluent treatment
02 06 wastes from the baking and confectionery industry
02 06 01 materials unsuitable for consumption or processing
02 06 02 wastes from preserving agents
02 06 03 sludges from on-site effluent treatment
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 03 wastes from chemical treatment
02 07 04 materials unsuitable for consumption or processing
02 07 05 sludges from on-site effluent treatment
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
03 03 02 green liquor sludge (from recovery of cooking liquor)
03 03 05 de-inking sludges from paper recycling
03 03 07 mechanically separated rejects from pulping of waste paper and cardboard
03 03 08 wastes from sorting of paper and cardboard destined for recycling
03 03 09 lime mud waste
03 03 10 fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 11 sludges from on-site effluent treatment other than those mentioned in 03 03 10
04 Wastes from the Leather, Fur and Textile Industries
04 02 wastes from the textile industry
04 02 09 wastes from composite materials (impregnated textile, elastomer, plastomer)
04 02 10 organic matter from natural products (for example grease, wax)
04 02 15 wastes from finishing other than those mentioned in 04 02 14
04 02 17 dyestuffs and pigments other than those mentioned in 04 02 16
04 02 20 sludges from on-site effluent treatment other than those mentioned in 04 02 19
04 02 21 wastes from unprocessed textile fibres
04 02 22 wastes from processed textile fibres
05 Wastes from Petroleum Refining, Natural Gas Purification and Pyrolytic Treatment of Coal
05 01 wastes from petroleum refining
05 01 10 sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 13 boiler feedwater sludges
05 01 14 wastes from cooling columns
05 01 16 sulphur-containing wastes from petroleum desulphurisation
05 01 17 bitumen
05 06 wastes from the pyrolytic treatment of coal
05 06 04 waste from cooling columns
05 07 wastes from natural gas purification and transportation
05 07 02 wastes containing sulphur
06 Wastes from Inorganic Chemical Processes
06 03 wastes from the MFSU of salts and their solutions and metallic oxides
06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 03 16 metallic oxides other than those mentioned in 06 03 15
06 05 sludges from on-site effluent treatment
06 05 03 sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 06 wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes
06 06 03 wastes containing sulphides other than those mentioned in 06 06 02

06 09 wastes from the MFSU of phosphorous chemicals and phosphorous chemical processes

06 09 02 phosphorous slag

06 09 04 calcium-based reaction wastes other than those mentioned in 06 09 03

06 11 wastes from the manufacture of inorganic pigments and opacifiers

06 11 01 calcium-based reaction wastes from titanium dioxide production

06 13 wastes from inorganic chemical processes not otherwise specified

06 13 03 carbon black

07 Wastes from Organic Chemical Processes

07 01 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals

07 01 12 sludges from on-site effluent treatment other than those mentioned in 07 01 11

07 02 wastes from the MFSU of plastics, synthetic rubber and man-made fibres

07 02 12 sludges from on-site effluent treatment other than those mentioned in 07 02 11

07 02 13 waste plastic

07 02 15 wastes from additives other than those mentioned in 07 02 14

07 02 17 wastes containing silicones other than those mentioned in 07 02 16

07 03 wastes from the MFSU of organic dyes and pigments (except 06 11)

07 03 12 sludges from on-site effluent treatment other than those mentioned in 07 03 11

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 12 sludges from on-site effluent treatment other than those mentioned in 07 04 11

07 05 wastes from the MFSU of pharmaceuticals

07 05 12 sludges from on-site effluent treatment other than those mentioned in 07 05 11

07 05 14 solid wastes other than those mentioned in 07 05 13

07 06 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics

07 06 12 sludges from on-site effluent treatment other than those mentioned in 07 06 11

07 07 wastes from the MFSU of fine chemicals and chemical products not otherwise specified

07 07 12 sludges from on-site effluent treatment other than those mentioned in 07 07 11

08 Wastes from Manufacture, Formulation, Supply and Use (MFSU) of Coatings (Paints, Varnishes and Vitreous Enamels), Adhesives, Sealants and Printing Inks

08 01 wastes from MFSU and removal of paint and varnish

08 01 12 waste paint and varnish other than those mentioned in 08 01 11

08 01 14 sludges from paint or varnish other than those mentioned in 08 01 13

08 01 16 aqueous sludges containing paint or varnish other than those mentioned in 08 01 15

08 02 wastes from MFSU of other coatings (including ceramic materials)

08 02 01 waste coating powders

08 02 02 aqueous sludges containing ceramic materials

08 03 wastes from MFSU of printing inks

08 03 07 aqueous sludges containing ink

08 03 13 waste ink other than those mentioned in 08 03 12

08 03 15 ink sludges other than those mentioned in 08 03 14

08 03 18 waste printing toner other than those mentioned in 08 03 17

08 04 wastes from MFSU of adhesives and sealants (including waterproofing products)

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11

08 04 14 aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13

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

10 Wastes from Thermal Processes

10 01 wastes from power stations and other combustion plants (except 19)

10 01 01 bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)

10 01 02 coal fly ash

10 01 03 fly ash from peat and untreated wood

10 01 05 calcium-based reaction wastes from flue-gas desulphurisation in solid form

10 01 07 calcium-based reaction wastes from flue-gas desulphurisation in sludge form

10 01 15 bottom ash, slag and boiler dust from co-incineration other than those

mentioned in 10 01 14

10 01 17 fly ash from co-incineration other than those mentioned in 10 01 16

10 01 19 wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18

10 01 21 sludges from on-site effluent treatment other than those mentioned in 10 01 20

10 01 23 aqueous sludges from boiler cleansing other than those mentioned in 10 01 22

10 01 24 sands from fluidised beds

10 01 25 wastes from fuel storage and preparation of coal-fired power plants

10 01 26 wastes from cooling-water treatment

10 02 wastes from the iron and steel industry

10 02 01 wastes from the processing of slag

10 02 02 unprocessed slag

10 02 08 solid wastes from gas treatment other than those mentioned in 10 02 07

10 02 10 mill scales

10 02 12 wastes from cooling-water treatment other than those mentioned in 10 02 11

10 02 14 sludges and filter cakes from gas treatment other than those mentioned in 10 02 13

10 02 15 other sludges and filter cakes

10 03 wastes from aluminium thermal metallurgy

10 03 02 anode scraps

10 03 05 waste alumina

10 03 16 skimmings other than those mentioned in 10 03 15

10 03 18 carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17

10 03 20 flue-gas dust other than those mentioned in 10 03 19

10 03 22 other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21

10 03 24 solid wastes from gas treatment other than those mentioned in 10 03 23

10 03 26 sludges and filter cakes from gas treatment other than those mentioned in 10 03 25

10 03 28 wastes from cooling-water treatment other than those mentioned in 10 03 27

10 03 30 wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29

10 04 wastes from lead thermal metallurgy

10 04 10 wastes from cooling-water treatment other than those mentioned in 10 04 09

10 05 wastes from zinc thermal metallurgy

10 05 01 slags from primary and secondary production

10 05 04 other particulates and dust

10 05 09 wastes from cooling-water treatment other than those mentioned in 10 05 08

10 05 11 dross and skimmings other than those mentioned in 10 05 10

10 06 wastes from copper thermal metallurgy

10 06 01 slags from primary and secondary production

10 06 02 dross and skimmings from primary and secondary production

10 06 04 other particulates and dust

10 06 10 wastes from cooling-water treatment other than those mentioned in 10 06 09

10 07 wastes from silver, gold and platinum thermal metallurgy

10 07 01 slags from primary and secondary production

10 07 02 dross and skimmings from primary and secondary production

10 07 03 solid wastes from gas treatment

10 07 04 other particulates and dust

10 07 05 sludges and filter cakes from gas treatment

10 07 08 wastes from cooling-water treatment other than those mentioned in 10 07 07

10 08 wastes from other non-ferrous thermal metallurgy

10 08 04 particulates and dust

10 08 09 other slags

10 08 11 dross and skimmings other than those mentioned in 10 08 10

10 08 13 carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12

10 08 14 anode scrap

10 08 16 flue-gas dust other than those mentioned in 10 08 15

10 08 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17

10 08 20 wastes from cooling-water treatment other than those mentioned in 10 08 19

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 10 flue-gas dust other than those mentioned in 10 09 09

10 09 12 other particulates other than those mentioned in 10 09 11

10 09 14 waste binders other than those mentioned in 10 09 13

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 03 furnace slag

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 10 flue-gas dust other than those mentioned in 10 10 09

10 10 12 other particulates other than those mentioned in 10 10 11

10 10 14 waste binders other than those mentioned in 10 10 13

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 05 particulates and dust

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 11 14 glass-polishing and -grinding sludge other than those mentioned in 10 11 13

10 11 16 solid wastes from flue-gas treatment other than those mentioned in 10 11 15

10 11 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17

10 11 20 solid wastes from on-site effluent treatment other than those mentioned in 10 11 19

10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products

10 12 01 waste preparation mixture before thermal processing

10 12 03 particulates and dust

10 12 05 sludges and filter cakes from gas treatment

10 12 06 discarded moulds

10 12 08 waste ceramics, bricks, tiles and construction products (after thermal processing)

10 12 10 solid wastes from gas treatment other than those mentioned in 10 12 09

10 12 12 wastes from glazing other than those mentioned in 10 12 11

10 12 13 sludge from on-site effluent treatment

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 06 particulates and dust (except 10 13 12 and 10 13 13)

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

11 Wastes from Chemical Surface Treatment and Coating of Metals and other Materials; Non-Ferrous Hydro-Metallurgy

11 01 wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)

11 01 10 sludges and filter cakes other than those mentioned in 11 01 09

11 01 14 degreasing wastes other than those mentioned in 11 01 13

11 02 wastes from non-ferrous hydrometallurgical processes

11 02 03 wastes from the production of anodes for aqueous electrolytical processes

11 02 06 wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05

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 02 ferrous metal dust and particles
- 12 01 03 non-ferrous metal filings and turnings
- 12 01 04 non-ferrous metal dust and particles
- 12 01 05 plastics shavings and turnings
- 12 01 13 welding wastes
- 12 01 15 machining sludges other than those mentioned in 12 01 14
- 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 05 05 gases in pressure containers other than those mentioned in 16 05 04
- 16 01 06 end-of-life vehicles, containing neither liquids nor other hazardous components
- 16 01 12 brake pads other than those mentioned in 16 01 11
- 16 01 16 tanks for liquefied gas
- 16 01 17 ferrous metal
- 16 01 18 non-ferrous metal
- 16 01 19 plastic
- 16 01 20 glass
- 16 01 22 components 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 05 gases in pressure containers and discarded chemicals

- 16 05 05 gases in pressure containers other than those mentioned in 16 05 04
- 16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

16 06 batteries and accumulators

- 16 06 04 alkaline batteries (except 16 06 03)
- 16 06 05 other batteries and accumulators

16 08 spent catalysts

- 16 08 01 spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)
- 16 08 03 spent catalysts containing transition metals or transition metal compounds not otherwise specified

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 06 dredging spoil other than those mentioned in 17 05 05

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 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

18 Wastes from Human and Animal Health Care and/or Related Research

(except kitchen and restaurant wastes not arising from immediate health care)

18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans

18 01 01 sharps (except 18 01 03)

18 01 04 wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)

18 01 07 chemicals other than those mentioned in 18 01 06

18 01 09 medicines other than those mentioned in 18 01 08

18 02 wastes from research, diagnosis, treatment or prevention of disease involving animals

18 02 01 sharps (except 18 02 02)

18 02 03 wastes whose collection and disposal is not subject to special requirements in order to prevent infection

18 02 06 chemicals other than those mentioned in 18 02 05

18 02 08 medicines other than those mentioned in 18 02 07

19 Wastes from Waste Management Facilities, Off-site Waste Water Treatment Plants and the Preparation of Water Intended for Human Consumption and Water for 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 14 fly ash other than those mentioned in 19 01 13

19 01 16 boiler dust other than those mentioned in 19 01 15

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 06 sludges from physico/chemical treatment other than those mentioned in 19 02 05

19 02 10 combustible wastes other than those mentioned in 19 02 08 and 19 02 09

19 03 stabilised/solidified wastes

19 03 05 stabilised wastes other than those mentioned in 19 03 04

19 03 07 solidified wastes other than those mentioned in 19 03 06

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 06 wastes from anaerobic treatment of waste

19 06 04 digestate from anaerobic treatment of municipal waste

19 06 06 digestate from anaerobic treatment of animal and vegetable waste

19 07 landfill leachate

19 07 02* landfill leachate containing dangerous substances M

19 07 03 landfill leachate other than those mentioned in 19 07 02

19 08 wastes from waste water treatment plants not otherwise specified

19 08 01 screenings

19 08 02 waste from desanding

19 08 05 sludges from treatment of urban waste water

19 08 09 grease and oil mixture from oil/water separation containing only edible oil and fats

19 08 12 sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11

19 08 14 sludges from other treatment of industrial waste water other than those mentioned in 19 08 13

19 09 wastes from the preparation of water intended for human consumption or water for industrial use

19 09 01 solid waste from primary filtration and screenings

19 09 02 sludges from water clarification

19 09 03 sludges from decarbonation

19 09 04 spent activated carbon

19 09 05 saturated or spent ion exchange resins

19 09 06 solutions and sludges from regeneration of ion exchangers

19 10 wastes from shredding of metal-containing wastes

19 10 01 iron and steel waste

19 10 02 non-ferrous waste

19 10 04 fluff-light fraction and dust other than those mentioned in 19 10 03

19 10 06 other fractions other than those mentioned in 19 10 05

19 11 wastes from oil regeneration

19 11 06 sludges from on-site effluent treatment other than those mentioned in 19 11 05

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 12 10 combustible waste (refuse derived fuel)

19 12 12 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

19 13 wastes from soil and groundwater remediation

19 13 02 solid wastes from soil remediation other than those mentioned in 19 13 01

19 13 04 sludges from soil remediation other than those mentioned in 19 13 03

19 13 06 sludges from groundwater remediation other than those mentioned in 19 13 05

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 25 edible oil and fat
- 20 01 28 paint, inks, adhesives and resins other than those mentioned in 20 01 27
- 20 01 30 detergents other than those mentioned in 20 01 29
- 20 01 32 medicines other than those mentioned in 20 01 31
- 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 02 03 other non-biodegradable wastes
- 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 04 septic tank sludge
- 20 03 06 waste from sewage cleaning
- 20 03 07 bulky waste

Schedule 4 – Emissions and monitoring:

Schedule 4 – Emissions and monitoring

Table S4.1 Leachate level limits and monitoring requirements

Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring method
Leachate monitoring points shown on drawing reference 2425/2/021	1m	weekly	In accordance with the application

Table S4.2 Point source emissions to air – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
A1 Cell perimeter	NO _x	Mobile landfill gas flare	150 mg/m ³	Hourly mean	Annually	ISO 10849
	CO		50 mg/m ³			ISO 12039
	Total VOCs		10 mg/m ³			BSEN 12619 BSEN 13526
	Non-methane VOCs		5 mg/m ³			BSEN 13649
A2 NGR SJ 330776 345861 As shown on Figure 15	NO _x	Fixed landfill gas flare	150 mg/m ³	Hourly mean	Annually	ISO 10849
	CO		50 mg/m ³			ISO 12039
	Total VOCs		10 mg/m ³			BSEN 12619 BSEN 13526
	Non-methane VOCs		5 mg/m ³			BSEN 13649

Footnote: Annual monitoring is only required when flares operate in excess of 10% of the time, taken on an annual assessment period.

Table S4.3 Point source emissions to water (other than sewer) – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
SW1A , SW2 NGR SJ 3079 4593 and SJ 3117 4565 as shown on Figure 25	Visible oil	Site drainage from the surface water management system	None visible	Spot sample	Daily	In accordance with the application
SW1A , SW2 NGR SJ 3079 4593 and SJ 3117 4565 as shown on Figure 25	Suspended solids	Site drainage from the surface water management system	50 mg/l	Spot sample	Monthly	In accordance with the application
	Ammoniacal nitrogen		1.6 mg/l			
	COD		67.9 mg/l			
	Chloride		62.8 mg/l			
	Electrical conductivity		900 uS/cm			
SW1A , SW2 NGR SJ 3079 4593 and SJ 3117 4565 as shown on Figure 25	Alkalinity	Site drainage from the surface water management system	323 mg/l	Spot sample	Quarterly	In accordance with the application
	BOD		14 mg/l			
	Cadmium		0.01 mg/l			
	Calcium		185 mg/l			
	Chromium		0.02 mg/l			
	Copper		0.13 mg/l			
	Iron		0.17 mg/l			
	Lead		0.06 mg/l			
	Magnesium		31.9 mg/l			
	Manganese		0.86 mg/l			
	Nickel		0.02 mg/l			
	Potassium		10 mg/l			
	Sodium		56.8 mg/l			
	Sulphate		224.3 mg/l			
	TON		2.9 mg/l			
	TDS		822 mg/l			
TOC	4.8 mg/l					
zinc	0.064 mg/l					

Table S4.4 Trigger levels for emissions into groundwater and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
HA01A(T), HA09A(T), HA11B(T), HA12A(T), HA12A(M), HA01B(B), HA09A(B), HA11A(B), HA12B(B)	Ammoniacal nitrogen	2 mg/l	Spot sample	Monthly	In accordance with the application or otherwise as agreed with the Agency in writing.
	Chromium	0.05 mg/l		Quarterly	
	Copper	1 mg/l		Quarterly	
	Zinc	1 mg/l		Quarterly	
HA01B(M), HA09B(M)	Ammoniacal nitrogen	4 mg/l	Spot sample	Monthly	
	Chloride	200 mg/l		Monthly	
	Chromium	0.05 mg/l		Quarterly	
	Copper	1 mg/l		Quarterly	
	Lead	0.042 mg/l		Quarterly	
	Nickel	0.05 mg/l		Quarterly	
	Zinc	1 mg/l		Quarterly	
HA11B(M)	Ammoniacal nitrogen	4 mg/l	Spot sample	Monthly	
	Chloride	200 mg/l		Monthly	
	Chromium	0.05 mg/l		Quarterly	
	Copper	1 mg/l		Quarterly	
	Zinc	1 mg/l		Quarterly	
HA12A(T), HA12A(M), HA12B(B)	Chloride	350 mg/l	Spot sample	Monthly	
HA01A(T), HA09A(T), HA11B(T), HA01B(B), HA09A(B), HA11A(B)	Chloride	200 mg/l	Spot sample	Monthly	
	Lead	0.042 mg/l		Quarterly	
HA01A(T), HA12A(T), HA12A(M), HA01B(B), HA09A(B), HA11A(B), HA12B(B)	Nickel	0.05 mg/l	Spot sample	Quarterly	
	Lead	0.15 mg/l		Quarterly	
HA09A(T), HA11B(T), HA11B(M)	Lead	0.15 mg/l	Spot sample	Quarterly	
HA09A(T)	Nickel	0.2 mg/l	Spot sample	Quarterly	
HA11B(T)		0.15 mg/l		Quarterly	
HA11B(M)		0.1 mg/l		Quarterly	

Table S4.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements

Monitoring point Ref. /description	Parameter	Limit (including units) *	Monitoring frequency	Monitoring standard or method
HA06A(M), HA06A(B), HA06B(T), HA09A(T), HA09A(B), HA09B(M) (Boreholes shown on drawing reference MWH4557/2/01 Rev B)	Methane	1% vol	weekly	Differential pressure will be monitored only when limit is breached.
	carbon dioxide	1.5% vol		
	oxygen, differential pressure and meteorological data	None specified		Monitoring in accordance with the application.
HA01A(T), HA01B(M), HA01B(B), HA02A(T), HA02A(M), HA02B(B), HA05(T), HA05(B), HA10(T), HA10(M), HA10(B), HA11A(B), HA11B(T), HA11B(M), HA12A(T), HA12A(M), HA12B(B), 1 to 9, G10 to G26 (Boreholes shown on drawing reference MWH4557/2/01 Rev B)	Methane	1% vol	monthly	Differential pressure will be monitored only when limit is breached.
	carbon dioxide	1.5% vol		
	oxygen, differential pressure and meteorological data	None specified		Monitoring in accordance with the application.

* - The limits specified take account of the agreed background concentrations as detailed in the application

Table S4.6 Landfill gas from capped surfaces - monitoring requirements

Monitoring point Ref. /description	Parameter	Monitoring frequency	Other specifications	Monitoring Standard or method
Permanently capped zone	Average Methane flux	Annually	Where a rate of 0.001 mg/m ² /second is exceeded appropriate measures must be taken to reduce the rate.	Flame ionisation detector walkover, flux box or as otherwise agreed in writing by the Agency*.
Temporarily capped zone	Average Methane flux	Annually	Where a rate of 0.1 mg/m ² /second is exceeded appropriate measures must be taken to reduce the rate.	Flame ionisation detector walkover, flux box or as otherwise agreed in writing by the Agency*.

Footnote * If a cap has previously been shown compliant and there have been no significant physical changes in the gas management during the year, a detailed walkover survey with an FID can be used to demonstrate that the surface emissions are under control. If this survey shows no change in the pattern of methane emission, it may be used as the annual survey. The values for flux and total methane emissions measured in the previous year may be reported and a fresh flux box survey is not necessary. If the zone remains stable, the results of a full walkover survey may be accepted as the site report for a period of four years before a further quantitative flux box survey is required.

Table S4.7 Landfill gas – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Leachate monitoring points Shown on drawing reference 2425/2/021	Methane, carbon dioxide, oxygen, temperature, atmospheric pressure	Monthly	In accordance with the application	None
Active gas extraction wells Shown on drawing reference 2425/2/023	Methane, carbon dioxide, oxygen, temperature, flow rate, atmospheric pressure, differential pressure	Monthly	In accordance with the application	None
Representative sample	Trace gases	Annually	In accordance with LFTGN04 Guidance for monitoring trace components in landfill gas, Environment Agency, September 2004	None

Table S4.8 Leachate– other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Leachate monitoring points shown on drawing reference 2425/2/021	pH, temperature, electrical conductivity	Monthly	In accordance with the application	None
Leachate monitoring points shown on drawing reference 2425/2/021	Chloride, ammoniacal nitrogen, sulphate, total alkalinity, sodium, potassium, calcium, magnesium, COD, BOD, TON, TOC	Quarterly	In accordance with the application	None
Leachate monitoring points shown on drawing reference 2425/2/021	Manganese, iron, cadmium, chromium, copper, nickel, lead, zinc, mercury, suspended solids, total dissolved solids, PAH, TPH,	Annually	In accordance with the application	None
Representative sample from each cell	List 1 suite	Annually	In accordance with Appendix 6 of LFTGN01 Hydrogeological Risk Assessments for Landfills, Environment Agency, March 2003	None

Table S4.9 Surface water – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
SW1, SW1A, SW2, SW3, SW4	pH, temperature, electrical conductivity, dissolved oxygen, ammoniacal nitrogen, chloride, COD, suspended solids, turbidity	Monthly	In accordance with the application	None
SW1, SW1A, SW2, SW3, SW4	Sulphate, total alkalinity, TON, TOC, sodium, potassium, calcium, magnesium, iron, manganese, cadmium, chromium, copper, nickel, lead, zinc, mercury, phenols, ionic balance	Quarterly	In accordance with the application	None

Table S4.10 Groundwater – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Drift HA01A(T), HA02A(T), HA02A(M), HA04A(T), HA04A(M), HA05(T), HA06A(M), HA06B(T), HA09A(T), HA11B(T), HA12A(T), HA12A(M)	Water level, pH, temperature, electrical conductivity, dissolved oxygen, ammoniacal nitrogen, chloride	Monthly	In accordance with the application	None
Upper Ruabon Marl HA01B(B), HA02B(B), HA04B(B), HA05(B), HA06A(B), HA09A(B), HA11A(B), HA12B(B) URM Limestone HA01B(M), HA09B(M), HA11B(M)	Suspended solids, TDS, alkalinity, TON, COD, TOC, sulphate, sodium, potassium, calcium, magnesium, iron, manganese, cadmium, chromium, copper, nickel, lead, zinc, mercury, phenols, ionic balance, PAH, TPH	Quarterly	In accordance with the application	None

Table S4.11 Particulate matter in ambient air - limits and monitoring requirements

Monitoring Point Ref. /Description	Parameter	Limit (Including Unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
NW boundary as described in section 2.10.8 of consolidated application	Deposited dust	200 mg/m ² /day	Monthly average	Monthly	In accordance with the application or otherwise as agreed with the Agency in writing.
SE boundary as described in section 2.10.8 of consolidated application	Deposited dust	200 mg/m ² /day	Monthly average	Monthly	In accordance with the application or otherwise as agreed with the Agency in writing.

SCHEDULE 3 – CONDITIONS TO BE ADDED

3. None.