

Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2016

Llantrisant Recycling Centre Limited

Llantrisant Recycling
Pantybrad Lane
Llantrisant
Pontyclun
CF72 8YY

Variation application number
EPR/AB3092FR/V004

Permit number
EPR/AB3092FR

Llantrisant Recycling

Permit number EPR/AB3092FR

Introductory note

This introductory note does not form a part of the notice

The following notice gives notice of the variation of an environmental permit.

This variation is to allow Open Windrow composting and treatment of street sweepings. The organic fraction from the street sweepings is permitted to be used in the composting process to produce CLO (Compost like output) and the remaining separated fractions will be screened and separated to produce a product (aggregates) or sent for disposal.

All waste will be stored and treated on an impermeable surface with sealed drainage. The run off will be collected within a storage lagoon and removed from site for disposal at a suitable location.

Bioaerosol monitoring is required under the conditions of this permit; however, the bioaerosol monitoring frequency given in Table S3.2 may be reduced to twice a year after the first year of operation if agreed in writing by Natural Resources Wales.

The maximum quantity of waste accepted and processed through the open windrow activity shall not exceed 7,500 tonnes per year.

Relevant storage and treatment capacity thresholds have been included in the permit to reflect the legal waste facility operational limits; above which, the site would be operating as an Industrial Emissions Directive installation. (See Table S1.1 for relevant limits.)

The schedules specify the changes made to the original permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

| Status log of the permit | | |
|---|-------------|--|
| Description | Date | Comments |
| Permit determined EPR/XB3093HJ/A001 | 17/11/15 | Permit issued to Llantrisant Recycling Centre Limited for inert waste and non-hazardous waste transfer station with treatment. |
| Variation determined EPR/AB3092FR/V002 (formerly EPR/XB3093HJ) | 26/02/16 | Administrative variation to include additional waste codes and Regulator led variation to include additional treatment methods issued to Llantrisant Recycling Centre Limited. |

| | | |
|---|-----------------------|---|
| Variation determined EPR/AB3092FR/V003 | 16/05/16 | Administrative variation to include additional waste codes issued to Llantrisant Recycling Centre Limited. |
| Application EPR/AB3092FR/V004 | Duly made 18/04/17 | Application to vary permit to include open windrow composting and the treatment and processing of street sweepings. |
| Variation determined EPR/AB3092FR | 29/08/17 | Varied permit issued. |

End of introductory note

Notice of variation

Environmental Permitting (England and Wales) Regulations 2016

The Natural Resources Body for Wales ("Natural Resources Wales") in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

Permit number
EPR/AB3092FR


issued to:
Llantrisant Recycling Centre Limited ("the operator")

whose registered office is
Earthmover's House
Unit 16
Llantrisant Business Park
Llantrisant
Pontyclun
CF72 8LF

company registration number **09386912**

to operate a regulated facility at
Llantrisant Recycling
Pantybrad Lane
Llantrisant
Pontyclun
CF72 8YY

to the extent set out in the schedules
The notice shall take effect from 29/08/2017

| Name | Date |
|---|-------------------|
|  | 29/08/2017 |

Authorised on behalf of Natural Resources Wales

Schedule 1 – conditions to be deleted

None

Schedule 2 – conditions to be amended

The following conditions are amended as a result of the application made by the operator

Schedule 1 - Operations

Table S1.1 activities

| Activity reference | Description of activities for waste operations | Limits of activities |
|---|--|--|
| A1 – Inert and non-hazardous household, commercial and industrial waste transfer station with treatment | <p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents</p> <p>R5: Recycling/reclamation of other inorganic compounds</p> | <p>All non-hazardous waste must be stored and treated on an impermeable surface with sealed drainage.</p> <p>All inert waste must be stored and treated on hardstanding or on an impermeable surface with sealed drainage.</p> <p>Treatment operations shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> – sorting and/or separation – screening – bulking-up; and – crushing; <p>of permitted waste for the purpose of recovery.</p> <p>There shall be no treatment of used disposable nappies (20 01 99) other than bulking up for onward transfer.</p> <p>Waste types as specified in Table S2.1</p> |

Table continued overleaf

Table S1.1 activities

| | | |
|---------------------------------|---|--|
| A2 – Open windrow composting | <p>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)</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents</p> | <p>All waste must be stored and treated on an impermeable surface with sealed drainage.</p> <p>Physical treatment, composting and maturation of the types of waste listed in table S2.2.</p> <p>Physical treatment consisting only of:</p> <ul style="list-style-type: none"> – composting – maturation – manual separation – sorting – shredding – screening – bagging <p>of the types of waste for the purpose of recovery.</p> <p>The storage, physical treatment and composting of wastes under anaerobic conditions shall be prevented.</p> <p>Each composting batch shall undergo an identifiable sanitisation and stabilisation stage.</p> <p>The total quantities of wastes undergoing biological treatment at the whole site shall not exceed 75 tonnes per day.</p> |
| A3 – Street sweeping processing | <p>D9 Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (e.g. evaporation, drying, calcination, etc.)</p> <p>D15 Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced)</p> | <p>All waste must be stored and treated on an impermeable surface with sealed drainage.</p> <p>Treatment operations shall be limited to:</p> <ul style="list-style-type: none"> - de-watering of street cleaning residues via gravity - screening of dewatered residues only - separating of dewatered residues only <p>Wastes from EWC code 20 03 03 may only be included in the composting process that produces Compost Like Output (CLO) and must not be included in any other composted material.</p> <p>Compost Like Output (CLO) must be subject to aerobic composting.</p> <p>Waste types as specified in Table S2.3</p> |

Table continued overleaf

Table S1.1 activities

| | |
|--|---|
| <p>Discharge of site drainage from hardstanding areas of the site, to:</p> <ul style="list-style-type: none"> - ground/surface water via soakaway, and - Nant Muchydd River via French drain and settlement pond at the location shown in the plan in S1.2 (document reference 697-61D). | <p>Drainage consisting solely of clean, rainfall dependant drainage from hardstanding areas of the site used in connection with the storage and/or treatment of permitted waste only</p> <p>Discharge of site drainage shall be controlled though condition 3.5 and the provision of appropriate measures as set out in relevant management plans.</p> <p>No visible oil, grease or suspended solids shall be present in the discharge.</p> |
| <p>Discharge of site drainage from areas of impermeable surface with sealed drainage to storage lagoon prior to being tankered off site for disposal</p> | <p>Drainage consisting solely of clean, rainfall dependant drainage from impermeable surface with sealed drainage areas of the site used in connection with the storage and/or treatment of permitted waste only.</p> |

Table S1.2 Operating techniques

| Description | Parts | Date Received |
|--|--|---------------|
| Technical guidance note 'How to comply with your environmental permit'. | All | N/A |
| Sector Guidance Note IPPC S5.06: Guidance for the Recovery and Disposal of Hazardous and Non-Hazardous Waste | All sections relating to the storage and treatment of non-hazardous waste. | N/A |
| Additional information | Incident response plan (document reference 697_15, dated 28 June 2015) | 27/07/15 |
| | Environmental Permitting Site Area of Inert Recycling Facility (document reference 697-61D) | 15/09/15 |
| | Revised environment management system (dated 01 November 2015, document reference 697_12_D), sections: <ul style="list-style-type: none"> - 2.3 Site engineering - 2.4. Waste acceptance, quantities and storage - 4 Fire prevention plan - 4.1 Introduction - 4.2 Fire risk assessment - 4.3 Preventing fires - 4.4 Self combustion - 4.5 Turning of stacks - 4.6 Detecting and suppressing fires - 5.1 Breakdowns and spillages - 5.2 Drums and other containers - 11 Emissions and monitoring - 11.1 General measures - 11.2 Odour - 11.3 Noise and vibration - 11.7 Control and monitoring of dust | 04/11/15 |
| | All | N/A |
| The Composting Industry Code of Practice (AfOR) | All | N/A |

| | | |
|--|---|----------|
| Industry guide for prevention and control of odours at biowaste processing facilities (AfOR) | All | N/A |
| Quality Protocol for Composting (WRAP & Environment Agency) | All | N/A |
| Site specific Bioaerosol Risk Assessment February 2017 | All | 23/05/17 |
| Background bioaerosol data to support site specific bioaerosol risk assessment February 2017 | All | 23/05/17 |
| M9- Environmental monitoring of bioaerosols at regulated facilities January 2017 – Version 1 | All | N/A |
| Odour management plan (OMP) | <ul style="list-style-type: none"> - Waste inputs - Odour emissions monitoring - Managing and mitigation of odour - Stock monitoring - Additional measures - Corrective actions from confirmed odour identification - Odour prevention and dispersal | 23/05/17 |
| Fire prevention and mitigation plan (FPMP) | All | 28/06/17 |
| Fire prevention and mitigation plan guidance | All | N/A |
| EMS – new activities | <ul style="list-style-type: none"> - IED requirements - Site Infrastructure - Operational Procedures - Addition of new EWC codes | 23/05/17 |

Schedule 2 - Waste types, raw materials and fuels

| Table S2.2 Permitted waste types and quantities for open windrow composting | |
|--|---|
| Maximum quantity | The maximum quantity of waste to be accepted at the whole site shall not exceed 350,000 tonnes per year. |
| Exclusions | Notwithstanding the waste types set out in this table, wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Catering waste and other wastes containing animal by products covered by the Animal By-Products Regulations; • Wastes consisting solely or mainly of dusts (except sawdust), powders or loose fibres • Hazardous wastes • Wastes containing treated wood • Wastes containing wood-preserving agents or other biocides • Wastes containing persistent organic pollutants • Wastes containing Japanese Knotweed • Wastes that are in a form of liquid |
| Waste code | Description |
| 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 07 | wastes from forestry (comprising wood and plant tissue) |
| 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 |
| 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 03 | wooden packaging (untreated) |
| 17 | CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) |
| 17 02 | wood, glass and plastic |
| 17 02 01 | Wood (untreated) |
| 17 05 | soil (including excavated soil from contaminated sites), stones and dredging spoil |
| 17 05 06 | dredging spoil other than those mentioned in 17 05 05 |
| 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 (biodegradable green waste only) |
| 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 05 | wastes from aerobic treatment of solid wastes |
| 19 05 03 | off-specification compost |
| 19 05 99 | wastes not otherwise specified – (compost leachate only) |
| 20 | MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS |
| 20 01 | separately collected fractions (except 15 01) |

Table S2.2 Permitted waste types and quantities for open windrow composting

| | |
|-------------------------|---|
| Maximum quantity | The maximum quantity of waste to be accepted at the whole site shall not exceed 350,000 tonnes per year. |
| Exclusions | Notwithstanding the waste types set out in this table, wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Catering waste and other wastes containing animal by products covered by the Animal By-Products Regulations; • Wastes consisting solely or mainly of dusts (except sawdust), powders or loose fibres • Hazardous wastes • Wastes containing treated wood • Wastes containing wood-preserving agents or other biocides • Wastes containing persistent organic pollutants • Wastes containing Japanese Knotweed • Wastes that are in a form of liquid |
| Waste code | Description |
| 20 01 01 | paper and cardboard |
| 20 01 38 | wood other than that mentioned in 20 01 37 (untreated) |
| 20 02 | garden and park wastes (including cemetery waste) |
| 20 02 01 | biodegradable waste (green waste only) |
| 20 03 | other municipal wastes |
| 20 03 01 | mixed municipal waste – (green waste only) |
| 20 03 03 | street-cleaning residues (post treatment organic fraction only) |

Table S2.3 Permitted waste types and quantities for street sweeping

| | |
|-------------------------|--|
| Maximum quantity | The maximum quantity of waste to be accepted at the whole site shall not exceed 350,000 tonnes per year. |
| Exclusions | Notwithstanding the waste types set out in this table, wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Hazardous wastes • Wastes that are in a form of liquid |
| Waste code | Description |
| 20 | MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS |
| 20 03 | other municipal wastes |
| 20 03 03 | street-cleaning residues |

Schedule 3 – conditions to be added

The following conditions are added as a result of the application made by the operator

3.5 Emissions to water, air or land

- 3.5.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.2 and S3.3.
- 3.5.2 The limits given in schedule 3 shall not be exceeded.

3.6 Fire

- 3.6.1 The operator shall manage and operate the activities in accordance with a written fire prevention plan using the current, relevant fire prevention plan guidance.

3.7 Monitoring

- 3.7.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) process monitoring specified in table S3.1;
 - (b) bioaerosol monitoring specified in table S3.2.
- 3.7.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.7.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.
- 3.7.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2 [,S3.3 etc.] unless otherwise agreed in writing by Natural Resources Wales.

4.2 Reporting

- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by Natural Resources Wales, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.2 ; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

Schedule 3 – Emissions and monitoring

Table S3.1 Process monitoring requirements

| Monitoring point | Substance or parameter | Monitoring frequency | Monitoring method | Other specifications |
|--|------------------------|----------------------|---------------------------------------|--|
| Internal for each windrow and for any sample of waste or compost | Temperature | None specified | Thermocouple probe | Monitoring equipment shall be available on-site and used as required to ensure compliance with this permit. Equipment shall be calibrated on a 4 monthly basis or as agreed in writing by Natural Resources Wales. |
| | Moisture | None specified | Moisture meter or moisture touch test | |

Table S3.2 Bioaerosol monitoring requirements

| Location or description of point of measurement | Parameter | Bioaerosol threshold limits CFU m ³ | Monitoring frequency | Monitoring standard or method | Other specifications |
|--|-----------------------|--|----------------------|---|---|
| Bioaerosols shall be monitored at: - upwind of the site and - downwind of the site; in accordance with" M9 – Technical Guidance Note (Monitoring) – Environmental monitoring of bioaerosols at regulated facilities, 2017 Version 1". | Total bacteria | 1000 | Quarterly | In accordance with "M9 – Technical Guidance Note (Monitoring) – Environmental monitoring of bioaerosols at regulated facilities, 2017 Version 1". | As described in M9 Technical Guidance Note, including all the additional data requirements specified therein. |
| | Aspergillus Fumigatus | 500 | | | |

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data

| Parameter | Reporting period | Period begins |
|---|---|-------------------------------|
| Bioaerosol monitoring as required by condition 3.7.1(b) | Every 4 months or as agreed in writing by Natural Resources Wales | 1 January, 1 May, 1 September |

Table S4.2 Reporting forms

| Media/parameter | Reporting format |
|-----------------------|--|
| Bioaerosol monitoring | As specified in the "M9 – Technical Guidance Note (Monitoring) – Environmental monitoring of bioaerosols at regulated facilities, 2017 Version 1". or other form as agreed in writing by Natural Resources Wales |

Schedule 6 - Interpretation

"bioaerosol threshold limits" means the maximum acceptable bioaerosol concentrations at the nearest sensitive receptor, or at an equivalent distance downwind of the composting operations, which are attributable to the composting operations. The maximum acceptable concentrations are respectively 1000 and 500 CFU m⁻³ for total bacteria and *Aspergillus fumigatus*,

"compost" means solid particulate material that is the result of composting, which has been *sanitised* and *stabilised*, and which confers beneficial effects when added to soil, used as a component of growing media or used in another way in conjunction with plants.

"composting" means the biological decomposition of organic materials, under conditions that are predominantly aerobic and that allow the development of thermophilic temperatures as a result of biologically produced heat.

"maturation" means a stage when by agitating and turning the compost it no longer results in reheating and the monitored temperature falls to ambient without the compost being too dry or anaerobic. Phytotoxins that are formed during the 'active' composting phase are metabolised by micro-organisms, which will result in the final material not being harmful to plants. This usually coincides with drop in pH toward neutral, and the conversion of ammonia into nitrates and recolonisation of beneficial micro-organisms. The maturation phase may need active management by turning to prevent the material becoming anaerobic.

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

"nearest sensitive receptor" means the nearest place to the permitted activities where people are likely to be for prolonged periods. This term would therefore apply to dwellings (including any associated gardens) and to many types of workplace. We would not normally regard a place where people are likely to be present for less than 6 hours at one time as being a sensitive receptor. The term does not apply to those controlling the permitted facility, their staff when they are at work or to visitors to the facility as their health is covered by Health and Safety at Work legislation. NB The term would apply to dwellings occupied by the family of those controlling the permitted facility

Schedule 4 – amended plan

