

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Thermal Recycling (UK) Limited

Thermal Recycling (UK) Limited Unit 5A and 5B Sprint Industrial Estate Four Ashes Staffordshire WV10 7DA

Permit number

EPR/BP3136WY

Thermal Recycling (UK) Limited

Permit number EPR/BP3136WY

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The facility is an installation with the following Schedule 1 activity: S5.3 A(1)(a) Disposal or recovery of hazardous waste with capacity exceeding 10 tonnes per day involving one or more of the following activities: (vi) recycling or reclamation of inorganic materials other than metal or metal compounds.

The facility is for the thermal treatment of waste cement bonded asbestos sheets and pipes. The maximum waste tonnage will be 29,500 tonnes per year. Subject to pre-acceptance testing for suitability, waste asbestos will arrive at the facility wrapped or bagged to prevent the escape of fibres, and will be unloaded within the site building. The building will be kept under negative pressure and extracted air will discharge via a HEPA filter to ensure that any fugitive emissions of fibres are not released to the atmosphere.

The waste will be loaded into a kiln and heated to a temperature high enough to denature the asbestos, removing the hazards posed by the fibres. Two kilns are proposed, each will be heated using natural gas. Emissions will pass through an afterburner and a ceramic HEPA filter prior to discharge to air via a 25 m tall stack.

Once treated, the waste will be tested to ensure all asbestos in the waste is destroyed. If this is confirmed, the waste will be processed by crushing, with a view to reusing the resulting material as a secondary aggregate (subject to End of Waste criteria).

The site is located on the Sprint Industrial Estate. The nearest residential receptors are 170 m Southwest of the site, across the nearby railway line. One site of special scientific interest (SSSI), Four Ashes Pit, is located 300 m Southwest of the site. Two European sites (Cannock Chase and Mottey Meadows) are located within 10 km, and several Local Wildlife Sites are within 2 km.

Status log of the permit					
Description	Date	Comments			
Application EPR/BP3136WY/A001	Duly made 27/10/2015	-			
Response to Schedule 5 Notice dated 22/12/2015	29/01/2016	-			
Response to Schedule 5 Notice dated 03/03/2016	01/04/2016, 07/04/2016	-			
Response to request for information dated 24/12/2016	17/01/2017	-			
Permit determined EPR/BP3136WY (PAS Billing ref. BP3136WY)	28/04/2017	Permit issued to Thermal Recycling (UK) Limited.			

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

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/BP3136WY

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

Thermal Recycling (UK) Limited ("the operator"),

whose registered office is

Four Ashes House Four Ashes Business Park Station Road Four Ashes Wolverhampton Staffordshire WV10 7DB

company registration number 08250394

to operate an installation at

Thermal Recycling (UK) Limited Unit 5A and 5B Sprint Industrial Estate Four Ashes Staffordshire WV10 7DA

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Philip Lamb	28/04/2017

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
 - (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

- 1.2.1 The operator shall:
 - (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 The operator shall:
 - (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

- 1.4.1 The operator shall take appropriate measures to ensure that:
 - (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 **Operations**

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").
- 2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
 - (a) it is of a type and quantity listed in schedule 2 table S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
 - (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.
- 2.3.7 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.5 Pre-operational conditions

2.5.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.4 have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 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.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

- 3.3.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Fire prevention

- 3.5.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.
- 3.5.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;
 - (b) implement the fire prevention plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.6 Monitoring

- 3.6.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
 - (a) point source emissions specified in tables S3.1 and S3.2;
 - (b) ambient air monitoring specified in table S3.3;
 - (c) process monitoring specified in table S3.4;
- 3.6.2 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.
- 3.6.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.6.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.6.4 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 unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
 - (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
 - (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
 - (b) the annual production/treatment data set out in schedule 4 table S4.2; and
 - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, 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 S4.4; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

- 4.3.1 In the event:
 - (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
 - (b) of a breach of any permit condition the operator must immediately-
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
 - (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 The Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1	activities					
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types			
AR1	S5.3 A(1)(a) Disposal or recovery of hazardous waste with capacity exceeding 10 tonnes per day involving one or more of the following activities:	 (vi) recycling or reclamation of inorganic materials other than metal or metal compounds. R5 thermal treatment of cement bonded asbestos. 	Two individual treatment kilns. All activities shall be undertaken within a building that is maintained under negative pressure. Waste types as specified in Table 2.2.			
	Directly Associated Activity					
AR2	Storage of hazardous wastes.	R13 storage pending treatment on site.	Maximum quantity of waste stored <50 tonnes. All activities shall be undertaken within a building that is maintained under negative pressure. Unless being sampled, asbestos waste must be bagged or wrapped and stored securely. Waste types as specified in Table 2.2.			
AR3	Treatment of processed waste.	R5 physical treatment of treated waste for reuse.	Treatment of thermally treated wastes from activity AR1 containing no asbestos only. All activities shall be undertaken within a building that is maintained under negative pressure.			

Table S1.2 Operating techniques					
Description	Date Received				
Application	Responses provided in Parts B2 and B3 of the application and supporting additional information submitted	Duly Made 27/10/2015			
Response to Schedule 5 Notice dated 22/12/2015	Responses to questions 1 – 10.	29/01/2016			
Response to Schedule 5 Notice dated 03/03/2016					
Response to request for information dated 24/01/2016 Clarification of waste acceptance procedures.		17/01/2017			

Table S1.3 Improvement programme requirements					
Reference	Requirement	Date			
IC1	The Operator shall submit a written report to the Environment Agency on the commissioning of the installation. The report shall summarise the environmental performance of the plant as installed against the design parameters set out in the Application. The report shall also include a review of the performance of the facility against the conditions of this permit and details of procedures developed during commissioning for achieving and demonstrating compliance with permit conditions.	Within 4 months of the completion of commissioning.			

Table S1.4	Pre-operational measures					
Reference	Pre-operational measures					
PO1	 At least three months prior to commissioning of the installation (or any other date as agreed with the Environment Agency), the Operator shall submit a written report to the Environment Agency specifying arrangements for monitoring of emissions to air to comply with Environment Agency guidance notes M1 and M2. The report shall include the following: Plant and equipment details, including accreditation to MCERTS; Methods and standards for sampling and analysis; Details of monitoring locations, access and working platforms. 					
500						
PO2	At least 8 weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning of the installation, the operator shall provide a written commissioning plan (including timescales for completion) for approval by the Environment Agency. The commissioning plan shall include the expected emissions to the environment during the different stages of commissioning, the expected durations of commissioning activities and the measures to be taken to protect the environment and report to the Environment Agency in the event that actual emissions exceed expected emissions. Commissioning shall be carried out in accordance with the commissioning plan as approved by the Environment Agency. No site operations shall commence or waste accepted at the installation unless the Environment Agency has given prior written permission under this condition.					
PO3	At least 4 weeks (or any other date as agreed with the Environment Agency) prior to commissioning of the installation, the operator shall provide a written report on the air extraction system for the installation for approval by the Environment Agency. The report shall include the following:					
	 An assessment of the building fabric for potential fugitive emission routes to air, and any actions taken to rectify the potential routes. 					
	 An assessment of the air extraction system demonstrating that the building is under effective negative pressure and that all air extracted is emitted via the air filtration system. 					
	No site operations shall commence or waste accepted at the installation unless the Environment Agency has given prior written permission under this condition.					
PO4	At least 4 weeks (or any other date as agreed with the Environment Agency) prior to the commencement of operation of the installation, the operator shall provide a revised sampling plan for the treated waste. The sampling plan shall:					
	 detail the method(s) to be used to sample and analyse the treated wastes for asbestos fibres; 					
	 demonstrate a high percentile level of confidence in the treatment process taking account of the amount of waste treated per batch and the number of samples required to adequately sample each batch, both and initially and on an ongoing basis. 					
	No site operations shall commence or waste accepted at the installation unless the Environment Agency has given prior written permission under this condition.					

Table S1.4	Table S1.4 Pre-operational measures				
Reference	Pre-operational measures				
PO5	At least 2 weeks (or any other date as agreed with the Environment Agency) prior to commissioning of the installation, the operator shall submit a written copy of the site Environmental Management System (EMS) and make available for inspection all documents and procedures which form part of the site EMS.				
	The EMS shall cover all activities at the installation and shall be in accordance with our Environmental management guidance - Develop a management system: environmental permits, and Sector Guidance Note IPPC S5.06 – Guidance for the Recovery and Disposal of Hazardous and Non-Hazardous Waste. The EMS shall include the techniques the operator relies upon to manage the operation, accidents, closure and decommissioning of the site. The documents and procedures set out in the EMS shall form the written management system referenced in condition 1.1.1 (a) of the permit. No site operations shall commence or waste accepted at the installation unless the Environment Agency has given prior written permission under this condition.				

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels				
Raw materials and fuel description	Specification			

Table S2.2 Pe	Table S2.2 Permitted waste types and quantities for storage and treatment				
Maximum quantity	No more than 29,500 tonnes per year. Only cement bonded asbestos containing chrysotile (white) asbestos is permitted.				
Waste code	Description				
10	WASTES FROM THERMAL PROCESSES				
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them				
10 13 09*	wastes from asbestos-cement manufacture containing asbestos				
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)				
17 06	insulation materials and asbestos-containing construction materials				
17 06 05*	construction materials containing asbestos				

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method ^{NOTE2}
A1 [Point A1 on site plan in Schedule 7]	Treatment plant stack	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	400 mg/m ³	Hourly average	Annually	BS EN 14792
		Particulate matter	No limit set	Hourly average	Monthly ^{NOTE1}	BS EN 13284-1
		Asbestos Fibres	0.1 fibre/ml	Hourly average	Monthly ^{NOTE1}	ISO 10397: 1993
A2 [Point A2 on site plan in	Air Extraction	Particulate matter	No limit set	Hourly average	Monthly ^{NOTE1}	BS EN 13284-1
schedule 7]	System stack	Asbestos Fibres	0.1 fibre/ml	Hourly average	Monthly ^{NOTE1}	ISO 10397: 1993
NOTE1: May be reduced to a quarterly frequency after 12 monthly monitoring events with the written agreement of the Environment Agency. NOTE2: Temporary means of access can be provided with the agreement of the Environment Agency.						

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements							
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method	
W1 Point W1 on site plan in schedule 7	Uncontaminated site surface water from external yard and roofed areas.						

Table S3.3 Par	Table S3.3 Particulate matter in ambient air - monitoring requirements							
Monitoring Point Ref. /Description	Parameter	Limit	Reference Period	Monitoring Frequency	Monitoring Standard or Method			
Downwind of treatment plant	Asbestos Fibres	Where total fibre concentration exceeds 0.01 fibres/ml in any sample, that sample must be	2 hours	Twice per year or every 5000 tonnes of asbestos received, whichever is greater.	 While asbestos is being treated. Pumped sampling. 1 m above ground level. Flow rate = 4 litres/minute. Minimum sample volume 			
50 m upwind of treatment plant	Asbestos Fibres	submitted for electron microscopy to confirm the concentration of asbestos fibres present.	2 hours	During all downwind monitoring	= 480 litres. Filter pore size = 1.2 μm. Asbestos fibre limit of detection = 0.001 fibres/ml.			

Table S3.4 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Each kiln during full treatment cycle	Temperature (°C)	Continuous for each treatment cycle	Thermocouple Temperature probes	The minimum treatment temperature and duration for successful asbestos destruction must be met at all probes. A record must be made and kept available for inspection.
Sampling of treated waste post-heat treatment	Presence of asbestos fibres	In accordance with agreed sampling plan	In accordance with agreed sampling plan	Any asbestos detected (i.e. any failure of the treatment process) shall be reported to the Environment Agency in accordance with condition 4.3.1.

Schedule 4 – Reporting

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.6.1	A1, A2	Every 3 months	1 January, 1 April, 1 July, 1 October
Ambient air monitoring Parameters as required by condition 3.6.1	As table S3.3	Every 6 months	1 January, 1 July,

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

Table S4.2 Annual production/treatment	
Parameter	Units
Recovered waste removed from site as product	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	28/04/2017
Ambient air monitoring	Form Particulate 1 or other form as agreed in writing by the Environment Agency	28/04/2017
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	28/04/2017
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	28/04/2017
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	28/04/2017
Waste returns	E-Waste Return Form or other form as agreed in writing by the Environment Agency	

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution		
To be notified within 24 hours of detection		
Date and time of the event		
Reference or description of the location of the event		
Description of where any release into the environment took place		
Substances(s) potentially released		
Best estimate of the quantity or rate of release of substances		
Measures taken, or intended to be taken, to stop any emission		
Description of the failure or accident.		

(b) Notification requirements for the breach of a limit		
To be notified within 24 hours of detection unless otherwise specified below		
Emission point reference/ source		
Parameter(s)		
Limit		
Measured value and uncertainty		
Date and time of monitoring		

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect		
To be notified within 24 hours of detection		
Description of where the effect on the environment was detected		
Substances(s) detected		
Concentrations of substances detected		
Date of monitoring/sampling		

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

"accident" means an accident that may result in pollution.

"application" means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

"authorised officer" means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

"disposal" means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"emissions to land" includes emissions to groundwater.

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations SI 2010 No. 675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"emissions of substances not controlled by emission limits" means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission limit.

"groundwater" means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

"Hazardous property" has the meaning in Annex III of the Waste Framework Directive.

"Hazardous waste" has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 (as amended).

"Industrial Emissions Directive" means Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions.

"List of Wastes" means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

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

"quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"recovery" means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"Waste code" means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

"Waste Framework Directive" or "WFD" means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

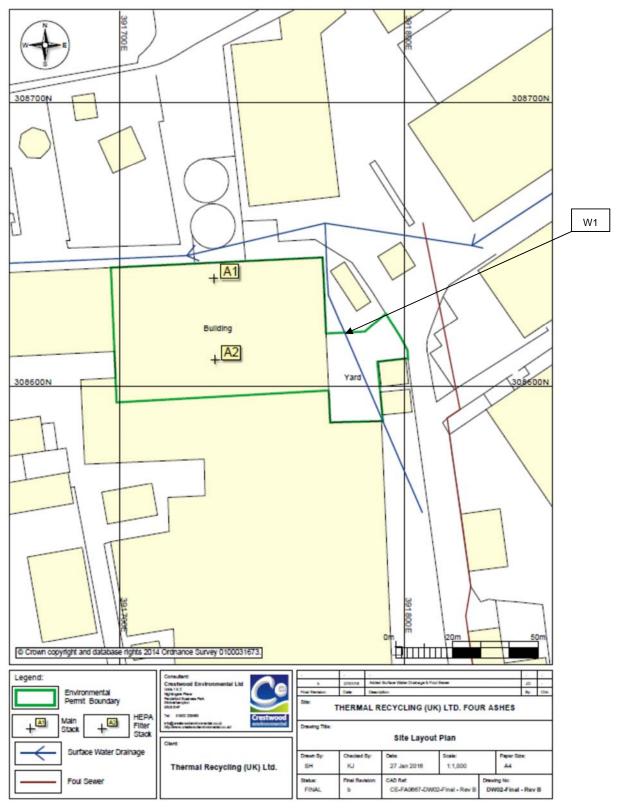
"year" means calendar year ending 31 December.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

Schedule 7 – Site plan



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