

# Notice of variation and consolidation with introductory note

**The Environmental Permitting (England & Wales) Regulations 2016**

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Sapphire Energy Recovery Limited

Sapphire Specialised Fuel Plant

Tunstead Quarry

Wormhill

Buxton

Derbyshire

SK17 8TG

**Variation application number**

EPR/RP3203PQ/V002

**Permit number**

EPR/RP3203PQ

# Sapphire Specialised Fuel Plant

## Permit number EPR/RP3203PQ

### Introductory note

#### **This introductory note does not form a part of the notice**

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. Only the variations specified in schedule 1 are subject to a right of appeal.

The main features of the permit are as follows.

The Sapphire Specialised Fuel Plant permit controls the operation of part of an installation, whose purpose at this installation is to produce blended solid recovered fuel (SRF) to produce a homogeneous single stream fuel to feed the kilns operated by Tarmac Cement and Lime Works. The Sapphire Specialised Fuel Plant Shredding Facility is designed to blend SRF, carpet and tyres for final processing in the shredder. These streams are delivered to site, pre-processed to remove contamination. Once blended solid recovered fuel is then delivered to Tunstead Cement and Lime Works, operated by Tarmac Cement and Lime Limited.

Sapphire Energy Recovery Ltd, is a wholly owned subsidiary of Tarmac Cement and Lime Limited. The location for the SRF shredding facility is wholly within the current Tunstead Cement and Lime Works permitted area - as a result the permit is a multi-operator installation. A separate EPR permit is issued to Tarmac Cement and Lime Limited (EPR/XP3532DP) and covers the operation of the cement and lime plant. The facility covered by this permit and the cement and lime plant comprise a single installation.

Storage duration is kept to a minimum to help maintain available space for stock rotation of material. With both bays full this will only provide enough material for 65 hours of cement plant usage. They operate a delivery schedule that's kept live and updated as required to meet demand. Sapphire Specialised Fuel Plant has an electronic link providing live kiln operation and the silo level. This enables proactive reaction in cancelling or increasing loads as required.

The main activity taking place at the installation is treatment consisting only of sorting, separation, shredding and blending of non-hazardous waste for the purpose of producing SRF which is a listed activity under 'The Environmental Permitting (England and Wales) Regulations 2016':

S5.4 A1 (b) (ii) Recovery of non-hazardous waste with a capacity exceeding 75 tonnes per day - pre-treatment of waste for incineration.

All operations take place inside a building. The operation does not result in any point source emissions.

There are a number of sensitive ecological receptors close to the installation, with two Special Areas of Conservation (SAC) and one Special Protection Area (SPA) sites within 10km, and 6 Sites of Special Scientific Interest (SSSI) within 2km. The installation overlies a principal aquifer.

The installation operates a documented Business Management System, which is certified as conforming to ISO14001.

The schedules specify the changes made to the permit.

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

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application EPR/RP3203PQ/V002	Duly made 08/04/19	Application for Solid Recovered Fuel Facility
Additional information received	25/01/19	Confirmation of Delegated Authority
Additional information received	08/04/19	Additional Information in support of the application.
Permit determined EPR/RP3203PQ (PAS Billing ref. RP3203PQ).	10/10/19	Permit issued to Sapphire Energy Recovery Limited.
Environment Agency Non-hazardous Waste Sector Review Variation number EPR/RP3203PQ/V002 (variation and consolidation)	05/04/22	Non-hazardous Waste Sector Review – documents received in response to the Regulation 61 Notice dated 08/11/21.
Email received in response to the Request for Further Information (RFI) dated 15/11/23	28/11/23	Response provided to RFI documents include: <ul style="list-style-type: none"> <li>• Working plan</li> <li>• Emergency procedures</li> </ul>
Email received in response to the Request for Further Information (RFI) dated 15/11/23	07/12/23	Response provided to RFI documents include: <ul style="list-style-type: none"> <li>• Decommissioning plan</li> </ul>
Variation determined and consolidation issued EPR/RP3203PQ	12/02/2024	Variation issued

<b>Other Part A installation permits relating to this installation</b>		
<b>Operator</b>	<b>Permit number</b>	<b>Date of issue</b>
Tarmac Cement and Lime Limited – Tunstead Cement and Lime Works	EPR/XP3532DP	28/03/2003

End of introductory note

# Notice of variation and consolidation

## The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

### Permit number

EPR/RP3203PQ

### Issued to

**Sapphire Energy Recovery Limited** (“the operator”)

whose registered office is

**Ground Floor T3 Trinity Park  
Bickenhill Lane  
Birmingham  
United Kingdom  
B37 7ES**

company registration number 4027738

to operate part of a regulated facility at

**Sapphire Specialised Fuel Plant  
Tunstead Quarry  
Wormhill  
Buxton  
Derbyshire  
SK17 8TG**

to the extent set out in the schedules.

The notice shall take effect from 12/02/2024.

Name	Date
Vicky Patchett	12/02/2024

Authorised on behalf of the Environment Agency

## Schedule 1

The following conditions and tables were varied or added as a result of an Environment Agency initiated variation:

Conditions	Amendment
Condition 2.3.4 (a)	Waste Table numbering corrected to S2.2
Condition 2.4	Conditions removed. Pre-operational conditions are not included within the permit.
Conditions 3.1.1-3.1.3	Emissions conditions added in line with template and requirement to monitor surface water emission for oil and grease. Subsequent conditions re-numbered.
Conditions 3.5.1-3.5.4	Monitoring conditions added in line with template and requirement to monitor surface water emission for oil and grease. Subsequent conditions re-numbered.
Condition 3.7.2	Condition removed. FPP added to the operating techniques. Condition no longer required.
Table S1.1 as referenced in condition 2.1.1	Activities updated.
Table S1.2 as referenced in condition 2.3.1	Operating techniques updated.
Table S1.3 as referenced in condition 2.4	Pre-operational conditions removed.
Table S3.1 as referenced in condition 3.1.1	Table added along with monitoring of surface water run off
Table S4.1 as referenced in condition 4.2.3	Reporting parameters updated to include surface water monitoring
Table S4.4 as referenced in condition 4.2.3	Updated reporting forms
Schedule 5	Table (c) added in line with modern template.

## Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

# Permit

## The Environmental Permitting (England and Wales) Regulations 2016

### Permit number

**EPR/RP3203PQ**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/RP3203PQ/V002 authorising,

**Sapphire Energy Recovery Limited** (“the operator”),

whose registered office is

**Ground Floor T3 Trinity Park**

**Bickenhill Lane**

**Birmingham**

**United Kingdom**

**B37 7ES**

company registration number 4027738

to operate part of an installation at

**Sapphire Specialised Fuel Plant**

**Tunstead Quarry**

**Wormhill**

**Buxton**

**Derbyshire**

**SK17 8TG**

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

Name	Date
Vicky Patchett	12/02/2024

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.

## 1.5 Multiple operator installations

For the following activities referenced in schedule 1, table S1.1, AR1 to AR4 where the operator notifies the Environment Agency under condition 4.3.1 (a) or 4.3.1 (c), the operator shall also notify without delay the other operator(s) of the installation of the same information.

## 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”).

### 2.2 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, which is within the area edged in red on the site plan that represents the extent of the installation covered by this permit and that/those of (the) other operator(s) of the installation.

### 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.



## **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.
- 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 Monitoring**

3.5.1 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

3.5.2 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.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.5.4 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 unless otherwise agreed in writing by the Environment Agency.

## **3.6 Pests**

3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

3.6.2 The operator shall:

- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
- (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

## **3.7 Fire prevention**

3.7.1 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.

# **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 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" or "without delay", 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	S5.4 A1 (b) (ii)	<p>Recovery of non-hazardous waste with a capacity exceeding 75 tonnes per day - pre-treatment of waste for incineration.</p> <p>R3 – Recycling/ reclamation of organic substances which are not used as solvents. R5 - Recycling/ reclamation of other inorganic substances</p>	<p>From receipt of waste to storage and despatch for on-site incineration in kilns operated by Tunstead Cement and Lime Works EPR/XP3532DP</p> <p>Pre-treatment of non-hazardous waste to produce Solid Recovered Fuel (SRF) destined for incineration in kilns operated by Tunstead Cement and Lime Works EPR/XP3532DP.</p> <p>Treatment consisting only of sorting, separation, shredding and blending of non-hazardous waste for the purpose of producing SRF.</p> <p>Non-hazardous waste must be treated within a building on an impermeable surface with sealed drainage.</p> <p>Waste types as specified in Table S2.2 1,242 m<sup>3</sup> storage capacity (dry and damp material bays) 62,000 tonnes per year</p>
<b>Directly Associated Activity</b>			
AR2	N/A	<p>Temporary storage of non-hazardous waste prior to treatment.</p> <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>Storage of Non-hazardous waste prior to treatment.</p> <p>Non-hazardous waste must be stored within a building on an impermeable surface with sealed drainage.</p> <p>Waste types as specified in Table S2.2.</p>
AR3	N/A	Storage of processed SRF prior to on-site dispatch to Tunstead Cement and Lime Works EPR/XP3532DP.	<p>Storage of processed SRF prior to dispatch to Tunstead Cement and Lime Works EPR/XP3532DP.</p> <p>Processed SRF must be stored within a building on an impermeable surface with sealed drainage.</p>
AR4	N/A	Collection and storage of uncontaminated roof and site surface water.	From the collection of uncontaminated roof and site surface water to Quarry Process Sump and discharge to on site lagoon.

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application	Sections 1.2, 1.4, 1.6 and 1.8 of the application document(s) provided in response to section 3a – technical standards, Part B3 of the application form.	Duly Made 08/04/2019
	Including information submitted with duly made response dated 18/03/19; Decommissioning Report Site Condition Report Version 1	08/04/2019
Response to Schedule 5 Notice dated 25/04/19	Response to question 1 to 6 detailing Fire Prevention Plan and question 7 to 10 detailing operational and technical standards.	23/05/2019
Response to Schedule 5 Notice dated 06/06/19	Response to questions 1 to 15 detailing Fire Prevention Plan.	16/07/2019
Additional information	Site plan (multi-operator)	16/07/2019
Additional information	Approved Fire Prevention Plan Version 2	24/09/2019
Additional information	Site Movement Safety Plan C18041-004 Rev P4	10/09/2019
Additional information	Out of Hours response Plan v2	24/09/2019
Additional information	Appendix 4 Fire water retention capacity calculations and supporting information	11/09/2019 and 24/09/2019
Regulation 61 Notice Response EPR/RP3203PQ/V002	Documents received in response to the Regulation 61 Notice titled ' <i>NHI Installations Reg 61 notice - Annex 1 tranche 2</i> '	05/04/2022
Additional information received in response to the Request for Further Information (RFI) dated 15/11/23	Documents received in response to request for further information: <ul style="list-style-type: none"> <li>• Working plan only sections <ul style="list-style-type: none"> <li>○ 4.6 - Waste Materials Acceptance</li> <li>○ 4.7 - Identification and storage of Waste</li> </ul> </li> <li>• Tunstead Cement Plant – Emergency Response Plan v2.2</li> </ul>	28/11/2023

## Schedule 2 – Waste types, raw materials and fuels

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

Table S2.2 Permitted waste types and quantities for SRF Fuel (Activity A1)	
Maximum quantity	530 tonnes per day, 62,000 tonnes per annum
Waste code	Description
<b>16</b>	<b>Wastes not otherwise specified in the list</b>
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
<b>19</b>	<b>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</b>
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 08	textiles
19 12 10	combustible waste (refuse derived fuel)

## Schedule 3 – Emissions and monitoring

**Table S3.1 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements**

<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (incl. unit)</b>	<b>Reference Period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
Inspection Area's (monitoring points) identified with red circles on Sapphire Specialised Fuel Plant Roof Water Drainage Plan, in schedule 7	Uncontaminated roof and surface water	Oil and Grease	No visible oil or grease	-	Monthly	Visual check



## Schedule 4 – Reporting

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

<b>Table S4.1 Reporting of monitoring data</b>			
<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period</b>	<b>Period begins</b>
Point source emissions to water Parameters as required by condition 3.5.1	Inspection Area's (monitoring points) identified with red circles on Sapphire Specialised Fuel Plant Roof Water Drainage Plan, in schedule 7	Every 12 months	1 January

<b>Table S4.2: Annual production/treatment</b>	
<b>Parameter</b>	<b>Units</b>
Non-hazardous waste treated for SRF production	tonnes
SRF produced	tonnes

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

<b>Table S4.4 Reporting forms</b>		
<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
Point source emissions to water (other than sewer)	Emissions to Water Reporting Form, or other form as agreed in writing by the Environment Agency	08/03/2021
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Waste returns	E-Waste Return Form or other form as agreed in writing by the Environment Agency	-
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	08/03/2021

# 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	

<b>(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</b>	
<b>To be notified within 24 hours of detection</b>	
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>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
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 breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

(d) 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*	
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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.

Drafting note: only use above definition for chapter 5 installations

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 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.

“Pests” means Birds, Vermin and Insects.

“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

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.

“year” means calendar year ending 31 December.

When the following terms appear in the waste code list in Schedule 2, table 2.1, for that table, they have the meaning given below:

‘hazardous substance’ means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008

‘heavy metal’ means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances

‘PCBs’ means

- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromodiphenyl methane
- any mixture containing any of the above mentioned substances in a total of more than 0,005 %by weight

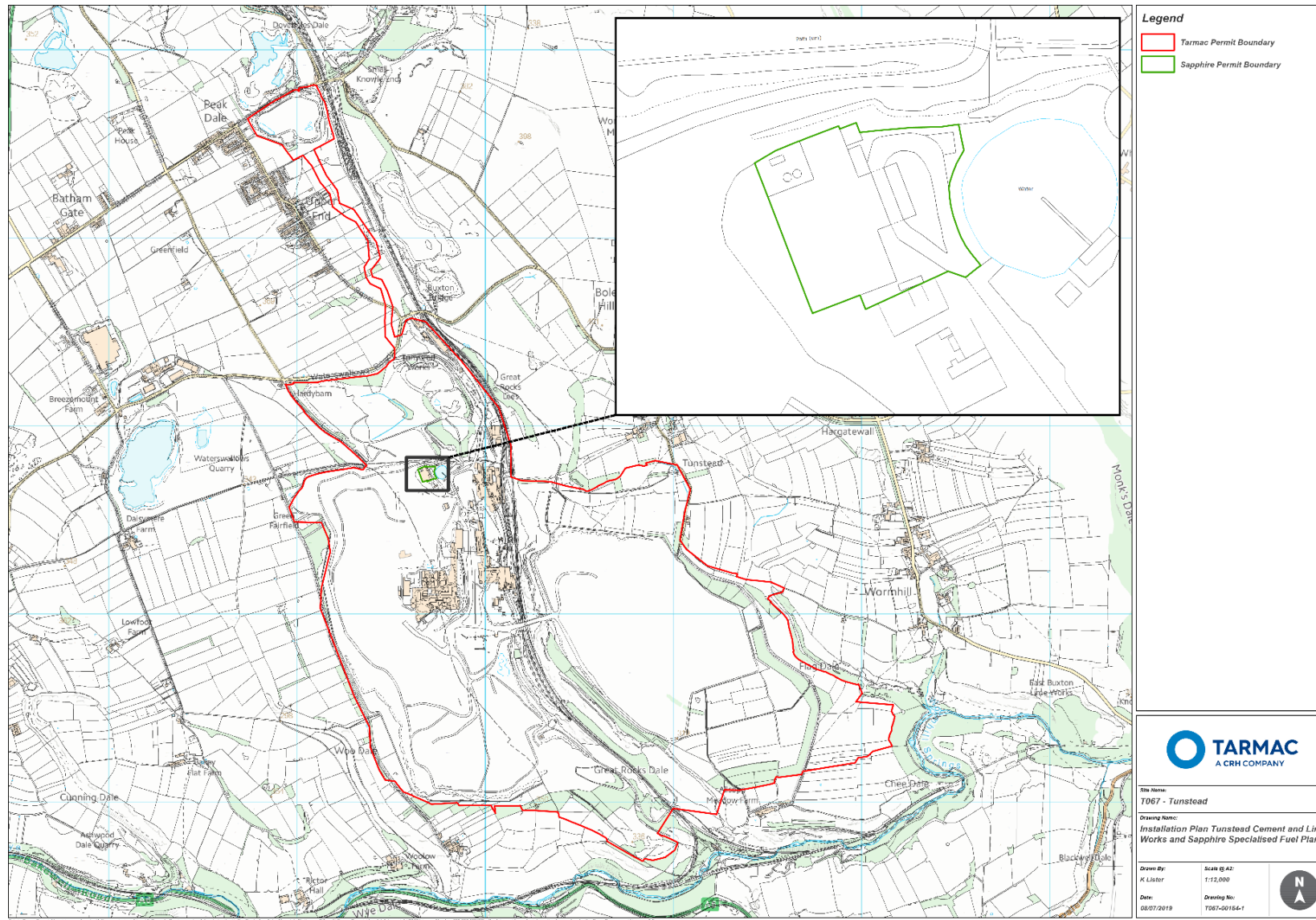
‘transition metals’ means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances

‘stabilisation’ means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste

‘solidification’ means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste

‘partly stabilised wastes’ means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term.

# Schedule 7 – Site plan

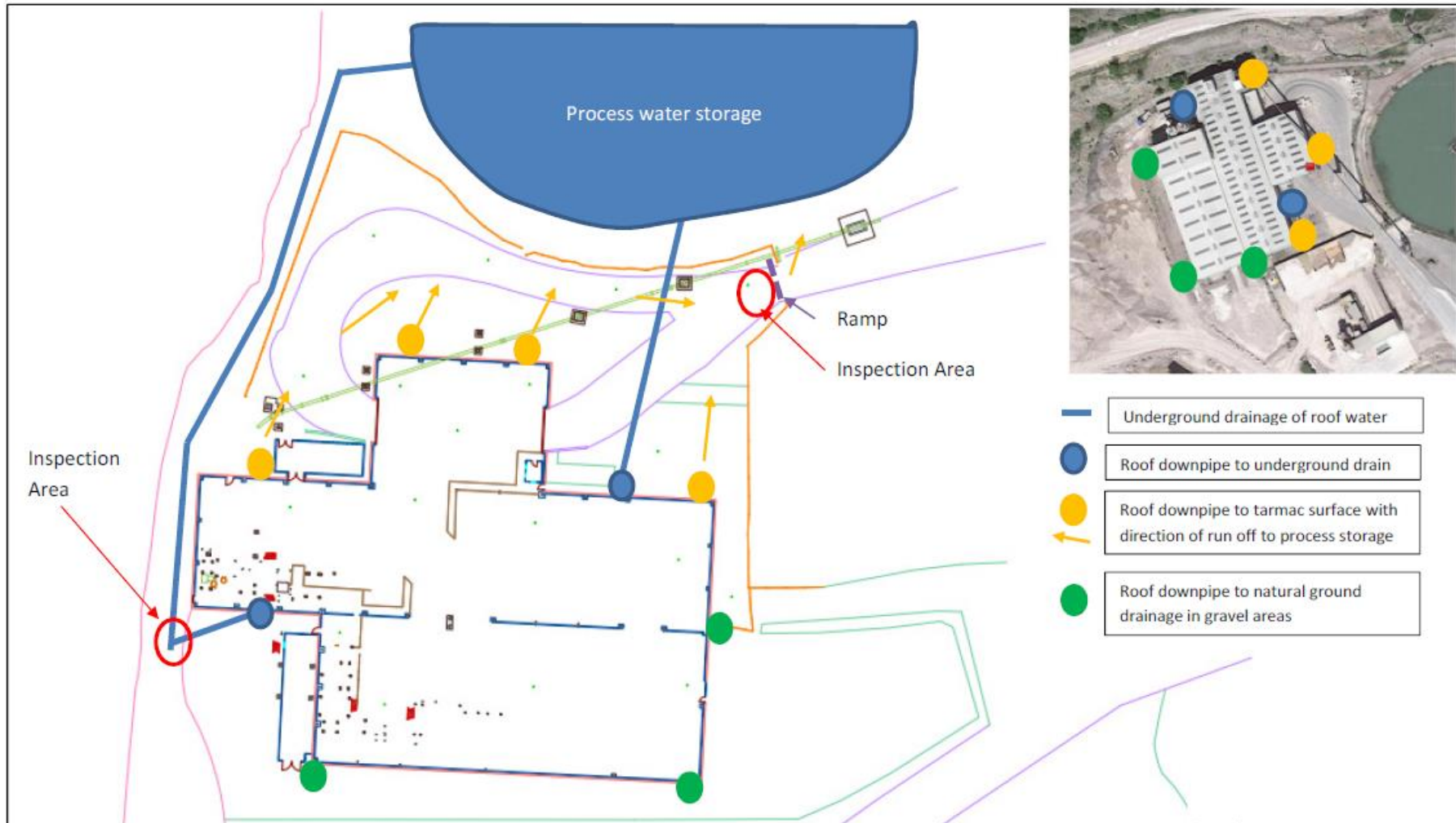


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Permit number  
EPR/RP3203PQ

# Sapphire Specialised Fuel Plant Roof Water Drainage Plan



END OF PERMIT

Permit number  
EPR/RP3203PQ