



CHARNWOOD BOROUGH COUNCIL

**POLLUTION PREVENTION AND CONTROL ACT 1999
ENVIRONMENTAL PERMITTING (ENGLAND AND WALES)
REGULATIONS 2016**

PERMIT REF. NO. 132

Charnwood Borough Council hereby permits, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

Preci-Spark Ltd,

whose registered office is:

Preci-spark Ltd, Chapel Street, Syston, Leicestershire

To operate a surface cleaning activity at:

**Preci-Spark Ltd,
Falcon Street Loughborough, LE11 1EH**

subject to the conditions outlined in this document. The conditions contained herein shall apply from the date of the Permit unless otherwise stated.

Name	Date
Ann Green	13/03/17

Authorised on behalf of Charnwood Borough Council

Permit issued by:
Regulatory Services, Environmental Protection Southfields, Southfields Road, Loughborough,
Leicestershire LE11 2TX

Introductory note**This introductory note does not form a part of the permit**

The permit is issued under the Environmental Permitting (England and Wales) Regulations 2016 (SI2016/1154) as amended, ("the EP Regulations"), to operate an installation carrying out activities covered by the description in Annex vii, Part 1, 2 and 3 of the Industrial Emissions Directive, namely any surface cleaning using 1 tonne or more of designated hazard statement volatile organic solvents (hereinafter referred to as the 'Activity').

Status Log

The status log of the permit sets out the permitting history, including any variations issued.

<i>Detail</i>	<i>Date</i>	<i>Comment</i>
Application 132	Received 31 August 2007	Duley Made 6 Sept 2007
Permit determined	October 2007	Further discussions needed on control of Trike
Permit issued	26 February 2008	
Variation Notice	22 December 2008	Revised Permit Issued
Variation Notice	31 March 2011	Revised Permit issued
Variation Notice	13 March 2014	Varied permit issued
Variation Notice	13 March 2017	Varied permit issued

Superseded Licences/Authorisations/Consents relating to this installation

Holder	Reference Number	Surrender date
Preci-Spark Ltd	135	31 March 2011

Origins of the conditions contained in the permit

The Secretary of State has issued various guidance notes to local authorities to assist with determining conditions. The conditions within this permit have been derived from the following guidance note:

PG 6/45 (11) Statutory Guidance for Surface Cleaning (as amended)

Process Description

The activity consists of surface cleaning by immersion of the components into hot vapours of Perchloroethylene in two fully enclosed automated machines, as detailed in table 1 below.

The installation boundary and key items of equipment mentioned in permit conditions are shown in the Appendices attached to this permit.

End of Introductory Note.

The above named company is permitted to operate a surface cleaning installation containing the surface cleaning machines listed below:

Plan Ref	Model Serial Number	Load Capacity	Refilling	Extraction
D1 Morley St	Layton Technologies - Bluestone low emission fully enclosed tank.	25Kg	Pump	External
D2 Falcon St	Layton Technologies - Bluestone low emission fully enclosed tank with carbon abatement system.	100 Kg	Pump	Carbon abatement system

subject to compliance with the following conditions:

Residual BAT condition

The best available techniques shall be used to prevent, or where that is not practicable, reduce emissions from the installation in relation to any aspect of the operation of the activity which is not specifically regulated by any condition of this permit.

Conditions

1. If the operator proposes to make a change in operation of the installation he shall, at least 14 days before making the change, notify Charnwood Borough Council in writing. The notification must contain a description of the proposed change in operation. It is not necessary to make such a notification if an application to vary this permit has been made and the application contains a description of the proposed change. In this condition 'change of operation' means a change in the nature or functioning, or an extension, of the installation, which may have consequences for the environment.

Emission Limits and Controls

2. The following VOC emission limit shall apply.

VOC in waste gases	Emissions Limit / Requirement	Fugitive Emission Values	Monitoring
1-5 tonnes of designated hazard statement materials	20mg/Nm ³ Expressed as total mass of individual hazard statement materials	15% of solvent input	Bi - annual manual extractive testing.

All pollutant concentrations shall be expressed at reference condition 273k, 101.3kpa without correction for water vapour content.

3. All designated materials must be either replaced, or controlled, contained and limited as set out below.

All Industrial Emissions Directive Installations.	
1. Materials designated because of their VOC content:) Hazard statement H340, H350i, H360D or H360F) Until 1 June 2015: risk phrases R45, R46, R49,R60 or R61	
Requirements: Replace as far as possible (Taking into account guidance under Article 64 of the Industrial Emissions Directive. See note 3 below and Appendix 1 of PG 6/45(11) by less harmful substances or mixtures	Timescales: Within the shortest possible time.
Control under contained conditions as far as technically and economically feasible to safeguard public health and the environment.	Immediately (see note 1 below)
Limit – where the sum of the mass flows of all the discharges of all the compounds causing the designated labelling is greater or equal to 10g/h, a limit value of 2mg/Nm ³ for the mass sum of the individual compounds must apply	Monitoring: Manual extractive testing
2. Materials designated because of their halogenated voc content:) Hazard statements H341 or h351) Until 1 June 2015: risk phrases R40 , or R68	
Control under contained conditions as far as technically and economically feasible to safeguard public health and the environment.	Immediately (see note 1 below)
Limit – where the sum of the mass flows of all the discharges of all the compounds causing the designated labelling is greater or equal to 100g/h, a limit value of 20mg/Nm ³ for the mass sum of the individual compounds must apply	Monitoring: Manual extractive testing
<p>Note 1 – Substances or mixtures which are classified after the date of publication of this note as designated materials because of their VOC content, must apply the replace, control and limit requirements above within the shortest possible time from the date at which substances or mixtures became/become designated materials.</p> <p>In determining the ‘shortest possible time’ the operator will need to justify their timetables taking account of the guidance in the relevant chapter of the appropriate Guidance Manual.</p> <p>Note 2 – until June 2015 ‘hazard statement’ materials will, broadly, also be know as ‘risk phrase’ materials. After 1st June 2015, only the term ‘hazard statement’ materials will apply.</p> <p>Note 3 – the European Commission have published information on VOC substitution and reduction in activities’ covered by the VOC Solvents Emission Directive.</p>	

VOC Emissions- Solvent Management Plan

4. A Solvent Management Plan (SMP) shall be produced annually by the operator and submitted to Charnwood Borough Council by 31 March each year. This shall be used to determine fugitive emissions from the installation, identify future reduction options and calculate solvent consumption (i.e. a detailed solvent inventory). The SMP shall cover the period of 1 January to 31 December of the previous year. It shall be produced using the definitions and calculations set out in Annex VII, Part 7 of the industrial emissions directive. The SMP shall be forwarded to Charnwood Borough Council annually by the date stated above.

Risk Phrase Materials

5. No designated risk phrase materials with risk phrases R45, R46, R49, R60 and R61 or hazard statement H340, H350, H350i, H360D, or H360F shall be introduced into this process/ activity without the prior notification and permission of an Authorised Officer from Charnwood Borough Council.

Monitoring, investigation and recording

6. The operator shall keep a record (log book) of all inspections, tests, monitoring including all non-continuous monitoring and visual assessments. The log book and any continuous monitor charts or records shall be kept on site, retained by the operator for a minimum of two years and made available for examination by an Authorised Officer of Charnwood Borough Council on request.

Information required by the regulator.

7. The operator shall provide a list of key abatement plant and shall have a written plan for dealing with its failure.
8. The Operator shall notify Charnwood Borough Council at least 7 days in advance of any periodic monitoring exercise to determine compliance with the emission limit values. The Operator shall state the provisional time and date of monitoring, pollutants to be tested and the methods to be used.
9. The results of all non-continuous emission monitoring shall be forwarded to Charnwood Borough Council within 8 weeks of the completion of sampling.
10. In the event of any adverse results from any monitoring activity in relation to the limits specified in condition 2, the Operator shall investigate as soon as the results are obtained/received. The Operator shall:
 -) Identify the cause and take corrective action,
 -) Record (in the log book) as much detail as possible regarding the cause and extent of the problem and the remedial action taken,
 -) Re-test to demonstrate compliance as possible and inform Charnwood Borough Council of the steps taken and the re-test results.

Visible and odorous emissions

11. All release to air, other than condensed water vapour, shall be free from droplets and persistent visible emissions .
12. Visual and olfactory assessments of emissions from the stack serving degreasing machine D1 shall be made at least once per day for a period of at least two minutes when cleaning activities are being carried out. The results of all observations shall be recorded in the log book in accordance with condition 6 of this permit. Observation points must provide an unimpeded view of the emission points and be at appropriate points around the installation boundary. In the event of one or more visible emission being observed, immediate action shall be taken to determine the cause of the emission and action shall be taken to abate the emission.
13. There shall be no offensive odour beyond the site boundary, as perceived by an authorised officer from Charnwood Borough Council (the regulator). Where there are problems that, in the opinion of the regulator may be attributable to the installation the operator shall undertake an inspection and assessment to determine which operation(s) is the cause. Once the source of the emission is known, corrective action shall be taken by the operator to rectify the problem without delay.

Abnormal events

14. When any visible airborne emission is observed or when any abnormal emission, malfunction or breakdown leading to a significant escape of odour or fume occurs, the operator shall:-
 - i. Investigate and undertake remedial action immediately
 - ii. Adjust the process or activity to minimise the emissions, **and**
 - iii. Promptly record the events and actions taken in the log required by condition 6 within 1 working day.
15. All malfunctions or breakdowns leading to an abnormal emission likely to have an effect on the local community or failure of key arrestment plant shall be notified to Charnwood Borough Council immediately by telephone. A record shall be made of the incident within the logbook required by condition 6.
16. In cases where non-compliance is likely to cause an immediate danger to human health or threatens to cause an immediate significant adverse affect upon the environment, the operation of the activity must be suspended.

Continuous monitoring VOC abated releases

17. The operator shall devise and implement a procedure of assessing the performance of the Layton Technologies - Bluestone carbon abatement system fitted to degreasing machine D2. Any continuous monitoring device fitted shall be capable of identifying trends in emissions. The monitor shall be set up to provide a baseline output when the plant is known to be operating under the best possible conditions i.e. when emissions are fully compliant with

the limit specified in condition 2 above. An alarm shall activate in response to any significant increase above this level.

18. The operator shall clearly demonstrate that all vapour degreasing machines comply with the emission requirements of condition 2 above. The frequency of start up and shut down of the degreasing machine shall be minimised to restrict the amount of organic solvent emissions.

VOC and odour control - storage

19. The receipt, handling and storage of organic solvents shall be carried out so as to minimise the emission of volatile organic compounds to air.

VOC Control - handling

20. All vessels or containers containing materials with an organic solvent content shall be lidded or enclosed when not in use.
21. All emptying and transfer of materials containing VOC's shall be undertaken by use of a closed transfer system so as to minimise the emissions of VOC's.

VOC Control – equipment, location and design

22. All degreasing operations using chlorinated organic solvent shall be carried out in a fully enclosed degreasing machine, designed and operated to meet the emission limit requirements as stipulated in condition 2.
23. Where practicable cleaning fluids which do not contain organic solvent or cleaning fluids with significantly less volatile organic solvent shall be used. The operator shall periodically review (at least once every 2 years) surface cleaning operations at the installation to identify opportunities for reducing VOC emissions. The results of this review, justification for the choices made together with timescales to implement any changes identified, shall be submitted to Charnwood Borough Council.
24. The degreasing machines shall be fitted with an energy control system to sense the solvent temperature and control heat input to meet the requirements of the degreasing process and minimise emissions during none-process period.
25. The automated work-handling equipment for transporting the product into the degreasing chamber shall be integral to the machine. The equipment shall provide the appropriate speed of travel and process dwell times and provide a ventilation system to minimise disturbance of vapours within the degreasing chamber during degreasing and transportation of loads. The loading and unloading equipment shall be used for all loads.
26. The baskets used for loading the degreasing machines shall be designed to enhance the cleaning efficiency, whilst also minimising the retention of organic solvent and vapours with each load cleaned.

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27. The programming, loading of work into and use of the vapour degreasing machine, shall be controlled, monitored and reviewed to minimise the number of surface cleaning operations. The basket shall be loaded to its maximum capacity whilst ensuring that the orientation and packing of the components is optimised to reduce possible retention and drag of organic solvents.

VOC Control – cleaning

28. The charging and emptying of the degreasing machines shall only be undertaken by a totally contained transfer system. Condensing and ventilation systems shall be in operation when transferring organic solvent.
29. Solvent heating and degreasing operations shall not be undertaken without the extraction systems fitted and working.
30. When removing work pieces from the degreasing unit the jig shall be held as much within the freeboard as possible to allow evaporation of residual organic solvents.
31. After degreasing activities have been completed the heaters within the degreasing vessel shall be switched off, whilst the cooling coils and ventilation system is left running for a further 30 minutes.

VOC Control - Operational

32. A programme to monitor and record the consumption of organic solvents against product cleaned shall be used to minimise the amount of excess organic solvent used.

VOC Control -Waste

33. All potentially odorous waste materials shall be handled in accordance with a written procedure a copy of which shall be made available to a duly authorised officer of Charnwood Borough Council upon request.
34. All potentially odorous waste materials shall be stored in closed containers
35. Prior to disposal empty/nominally empty containers and drums shall be closed to minimise emissions. These containers shall be labelled, so that all that handle them are aware of their contents and hazardous properties.
36. The location of open air storage areas for nominally empty drums and containers shall be carefully selected to meet the requirement of condition 13 and shall include being:
-) sited on a suitably impervious floor
 -) away from any drains which may become contaminated with residues as a result of spillage or leakage.
 -) away from sources of heat

) with access restricted to only appropriately trained staff

Dust and spillage control

37. Organic solvent containment and spillage equipment shall be readily available in all organic solvent handling areas. All spillages and leaks of VOC shall be cleaned up immediately and the collected material held in an enclosed container pending removal from site.

Dispersion and dilution from stacks

38. The minimum height for process vents serving local exhaust ventilation from plant or areas associated with the permitted process shall be 3m above the roof ridge height
39. Process vents shall not be fitted with any restriction at the final opening, for example, a plate, cap or cowl. All discharge points shall be vertically upwards.

Training

40. The operator shall maintain a statement of training requirements for each operational post and keep a record of the training received by each person. These documents shall be made available for inspection to an authorised officer of Charnwood Borough Council on request.

Maintenance

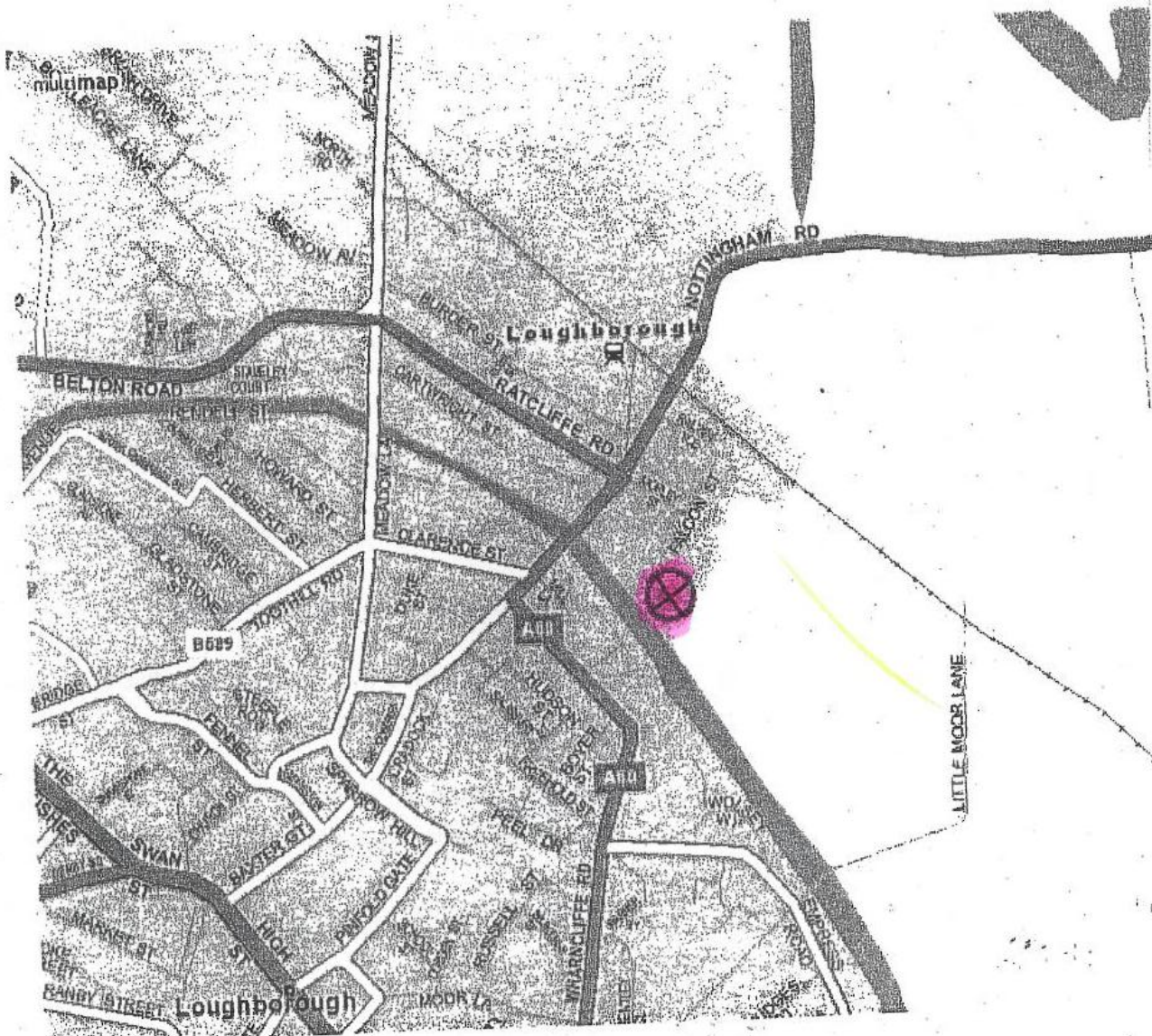
41. The operator shall have available for inspection by an authorised officer from Charnwood Borough Council:
-) A Written maintenance and inspection programme for all pollution control equipment; **and**
 -) A record of all maintenance that has been undertaken.
42. Essential spares and consumables for all arrestment plant shall be held on site when the supplier is not able to provide items from stock within one working day, so that plant breakdowns can be rectified rapidly.

End of conditions

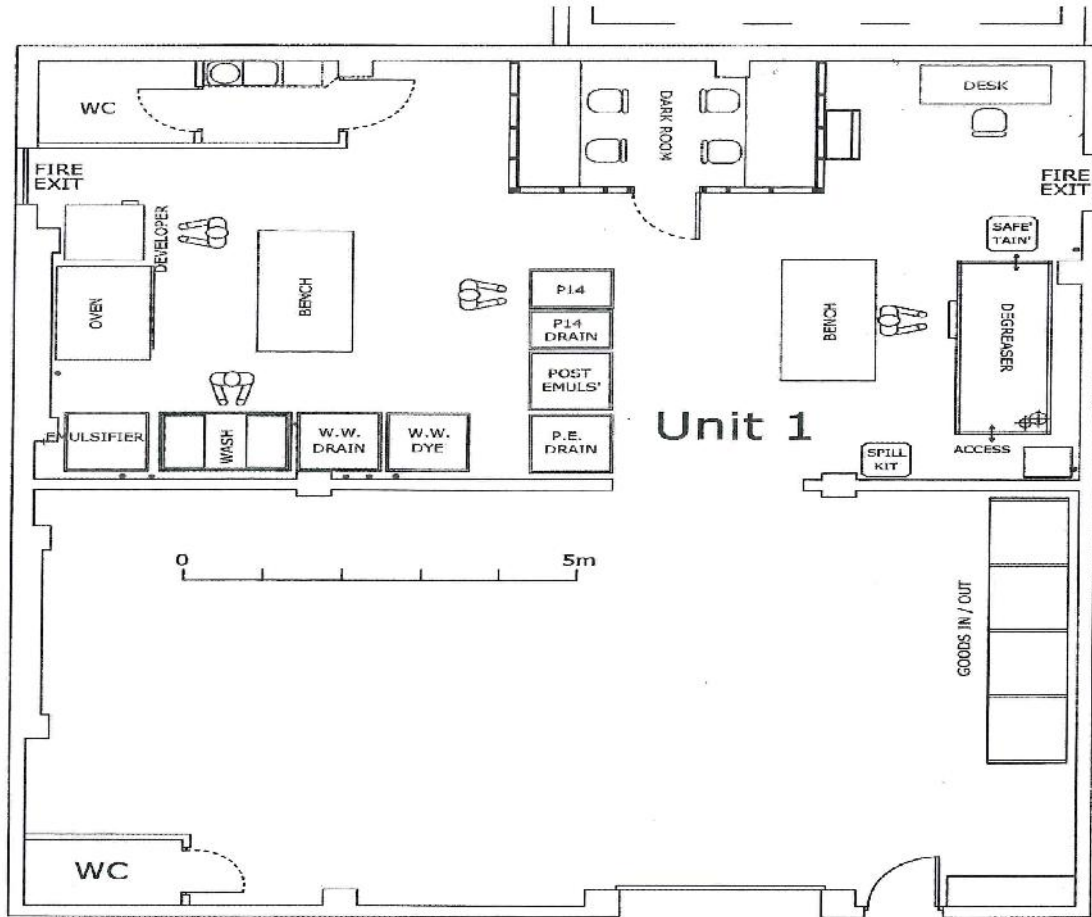
Appendix 1

Site Location Plan (01/132)

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Appendix 2 **Site Layout (2/132)**



Explanatory Notes

These notes do not comprise part of the permit but contain guidance relevant to it.

Inspections

Regular inspections will be made by officers of Charnwood Borough Council (without prior notice), in order to check and ensure full compliance with this permit.

BAT (Best Available Techniques)

The Permit includes conditions that have to be complied with. It should be noted that aspects of the operation of the installation which are not regulated by conditions of the Permit are subject to the implied condition that the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation. Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

Change in Operation of the Installation

If you, the operator proposes to make a change in operation of the installation you must at least 14 days before making the change, notify Charnwood Borough Council in writing. The notification must contain a description of the proposed change in operation. It is not necessary to make such a notification if an application to vary this permit has been made and the application contains a description of the proposed change. A 'change in operation' means a change in the nature or functioning, or an extension, of the installation, which may have consequences for the environment.

Health and Safety at Work and Other Statutory Requirements

The responsibility you have under legislation for Health, Safety and Welfare in the workplace remains in force. In addition, the Permit does not relieve you of your obligations to obtain planning permission, hazardous substances consent, discharge consent from the Environment Agency, Building Regulations approval, or some Waste Disposal Licences.

Submission of Information

Note that the Permit requires the submission of certain information to the Local Authority (LA). In addition, the LA has the power to seek further information at any time under the EP Regulations provided that it acts reasonably.

Public Registers

Considerable information relating to Permits including the Application is available on public registers in accordance with the EP Regulations. Certain information may be withheld from public registers where it is commercially confidential or contrary to national security. The onus is on the Operator to provide a clear justification for each item to be kept from the register. Applications for information to be excluded from the Public Register on grounds of National Security should be made to the Secretary of State.

Variations to the Permit

This Permit may be varied in the future (by the LA serving a Variation Notice on the Operator). If the Operator itself wants any of the Conditions of the Permit to be changed, it must submit a formal Application. The Status Log within the Introduction will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the Permit

Where the Operator intends to cease the operation of an installation (in whole or in part) The LA should be informed in writing, such notification must include the information specified in the EP Regulations.

Transfer of the Permit or part of the Permit

Before the Permit can be wholly or partially transferred to another person, an Application to transfer the Permit has to be made jointly by the existing and proposed holders. A transfer will be allowed unless the LA considers that the proposed holder will not be the person who will have control over the operation of the installation or will not comply with the conditions of the transferred Permit.

Annual Subsistence Fee

Under the EP Regulations the holder of a permit is required to pay a fee for the subsistence of the permit. This fee is payable annually on 1st April. You are advised that under the provisions of the EP Regulations, if you fail to pay the fee due promptly, Charnwood Borough Council may revoke the permit. You will be contacted separately each year in respect to this payment.

Talking to us

Please quote the Permit Number if you contact Charnwood Borough Council about this Permit. To contact Charnwood Borough Council please use the telephone number 01509 634636 or any other number notified in writing to the Operator by Charnwood Borough Council for that purpose.

Right To Appeal

Anyone who is aggrieved by the conditions attached to a Permit can appeal to the Secretary of State. Appeals must be sent within 6 months from the date of the permit (normally the date on the bottom of the permit).

Appeals should be addressed as follows:-

The Planning Inspectorate
Environmental Appeals Administration
Room 4/19 Eagle Wing
Temple Quay House
2 The Square
Temple Quay
Bristol BS1 6PN

An appeal will not suspend the effect of the conditions appealed against; the conditions must still be complied with.

There are no forms or charges for appealing. However for an appeal to be valid, appellants are legally required to provide information detailed below:

- i. A statement of the grounds of appeal
- ii. A copy of any relevant permit
- iii. A copy of any relevant correspondence between the appellant and the regulator
- iv. A statement indicating whether the appellant wishes the appeal to be in the form of a hearing or dealt with by way of written representations.

At the same time, the notice of appeal and documents (i) and (iv) must be sent to the Council.

In determining an appeal against one or more conditions, the Regulations allow the Inspector or Secretary of State to affirm or quash conditions or to add new conditions

You will be liable for prosecution if you fail to comply with the conditions of this permit. If found guilty, the maximum penalty for each offence if prosecuted in a magistrates Court is an unlimited fine and/or 12 months imprisonment. In a Crown Court it is an unlimited fine and/or a 5 years imprisonment.

Our enforcement of your permit will be in accordance with the Regulator's Compliance Code.