Environmental Permit

Environment Protection Act (CAP. 435)

Permit number
EP 00045/09/A

The Malta Environment and Planning Authority (hereinafter the Authority; the Competent Authority or MEPA) in exercise of its powers under the Environment Protection Act (CAP. 435), hereby authorises:

Simonds Farsons Cisk p.l.c. (hereinafter "the Operator" or "the Permit Holder"),
Of / Whose Registered Office (or principal place of business) is at

Simonds Farsons Cisk p.l.c.
The Brewery,
Notabile Road,
Mriehel, BKR3000
(Company registration number: **C 113**)

to operate an installation at
Simonds Farsons Cisk p.l.c.
The Brewery,
Notabile Road,
Mriehel, BKR3000

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

This permit is valid for four years from the date below. An application for renewal of this permit is to be submitted at least six months prior to expiry of this permit.

Signed	Date
Mr. Martin Seychell Director of Environment	

Authorised to sign on behalf of the Competent Authority

Conditions

1 General

The Permitted Installation shall, subject to the conditions of this Permit, be managed, controlled and operated as described in the Application, or as otherwise previously agreed in writing by the Authority.

1.1 Permitted Activities

1.1.1 The Operator is authorised to carry out the activities and the associated activities specified in Table 1.1.1.

Table 1.1.1

Activity	Description of specified activity	Limits of specified activity
Production of beverages.	Production, importation, stock holding and distribution of beverages. Installation, servicing and maintenance of cold drink equipment.	From receipt of raw materials and chemicals to packaging and dispatch of finished product
Associated activity of utilities	Light Fuel Oil boilers to produce steam and hot water.	From receipt of fuel to delivery of utility.
	Diesel generators used to produce energy for refrigeration needs during power failure	From receipt of fuel to delivery of energy.
	Reverse Osmosis plant	From receipt of water and electricity to delivery of utility
	Ammonia Refrigeration system	From receipt of electricity to delivery of utility
Associated activity of storage, treatment and disposal/recycling of waste materials	Handling, storage, treatment and disposal/recovery of wastes from installation.	From generation of waste to recovery off site or disposal or recycling off site.
Associated activity of maintenance	Maintenance and repairs which may be carried out in the repair shop in the installation	From maintenance/repair activity to appropriate recovery/disposal of any waste created.

1.2 Site

1.2.1 The activities authorised under condition 1.1.1 shall not extend beyond the Site, as shown on the Site Map in Schedule 2 to this Permit.

1.3 General Conditions

1.3.1 All businesses have a duty of care to protect the environment. The operator shall become familiar with his legal obligations and good environmental practice.

1.3.2 The site shall be maintained in a tidy condition, free from litter and waste (whether arising from own activities or external sources).

1.3.3 Any significant incident (including accidental release of liquid, solid or gaseous materials from the site that could reasonably be regarded as causing environmental damage, or as posing a threat of environmental damage), shall be reported within 24 hours to the Civil Protection Department.

1.3.4 The site must be well secured to minimise the opportunity for unauthorised entry.

1.3.5 The company shall maintain a register of third party complaints. The register shall record the name and address of the complainant(s), the date, location, source and nature of the complaint and the corrective action undertaken, where such action proves necessary.

1.3.6 In the event of cessation of business activity on the site, all wastes (including machinery, tanks, equipment) and hazardous materials (including chemicals) must be removed from the site such that any pollution risk is avoided and the site is returned to a satisfactory state. The Operator shall notify the Authority immediately upon a decision being taken to cease business activity, and shall submit a decommissioning plan to the Authority for approval.

1.3.7 A Site Notice shall be erected and displayed in a prominent position such as to be readily visible by the public. The notice shall contain the following information:

1.3.7.1 State that the site operates under an Environmental Permit issued by MEPA.

1.3.7.2 Provide the Permit Number and the name of the Permit holder.

1.3.7.3 Provide a 24-hour emergency contact name and telephone number for the Permit holder.

1.3.8 All plant, equipment and technical means used in operating the Permitted Installation shall be maintained in good operating condition. The operator shall keep maintenance records.

1.3.9 The Permitted Installation shall be managed, controlled, supervised and operated by staff who are aware of the importance of environmental protection and suitably trained on the requirements of this Permit, in particular on those permit conditions relevant to their duties. All staff shall be provided with adequate training and written operating instructions to enable them to effectively carry out their duties. Such training shall be recorded.

1.3.10 In case of any monitoring requirements specified in this permit, there shall be provided safe means of access to enable sampling/monitoring to be carried out by the Authority if necessary.

1.4 Improvement Programme

1.4.1 The Operator shall complete the improvements specified in Table 1.4.1 by the date specified in that table, and shall send written notification of the date of completion of each requirement to the Authority within 10 working days of the completion of each such requirement.

Table 1.4.1: Improvement programme

Reference	Requirement	Deadline
1	With regards to the reduction of the liquid content of the spent Kieselguhr which has been achieved, the operator is to inform Wasteserv Malta Ltd. of the	Within 2 months of issue of the permit.

	intention to dispose of this waste at landfill. Wasteserv Malta Ltd. is to immediately apply with MEPA for specific authorisation.	
2	Submission of certification by an independent warranted engineer confirming that all tanks and pipe work related to the Ammonia cooling system are maintained to good industry practice.	Within 6 months of issue of the permit.
3	Commissioning of the Ammonia cooling system in the new brewhouse and decommissioning of the last system.	Within 36 months of issue of the permit.
4	Submission of a certification by an independent warranted engineer showing that the bund capacity of the fuel tank area is 110% of the largest tank within the bund or 25% of the total volumes of all tanks.	Within 3 months of issue of the permit.
5	Submission of the Environment Management System (EMS) document number 2240A_0301.	Within 6 months of issue of the permit.
6	Submission of the CPD approved Emergency response plan.	Within 3 months of issue of the permit.
7	Copy of the certification obtained from a competent fire protection consultancy that the relevant fire safety procedures and equipment are in place.	Within 6 months of issue of the permit.
8	To take all the necessary steps to ensure that the sewer discharge permit from the Water Services Corporation taking into account the liquid which will be removed from the Kieselguhr mixture and redirected to the sewer.	Within 6 months of issue of the permit.
9	Fitting of a concrete lip as containment around the fuel filling and off-take points.	Within 12 months issue of the permit.

1.5 Operational Changes

1.5.1 The Operator shall seek the Authority's written agreement prior to any operational changes which could cause substantial impact on the environment, by sending to the Authority: written notice of the details of the proposed change, including an assessment of its possible effects (including changes in emissions and waste production) on the environment from the Permitted Installation; any relevant supporting assessments and drawings; and the proposed implementation date.

1.5.2 Any such change shall not be implemented until agreed to in writing by the Authority. As from the agreed implementation date, the Operator shall operate the Permitted Installation in accordance with that change, and relevant provisions in the Application shall be deemed to be amended.

1.6 Off-site Conditions

1.6.1 The Permit holder shall ensure that no chemicals or waste escape to the environment especially when transporting such materials off site or on site.

2 Operating Conditions

2.1 Emissions

2.1.1 Emissions to Air

2.1.1.1 All processes which generate significant levels of airborne contaminants (such as dusts, toxic gases, odorous chemicals) shall have effective local collection and shall

discharge (after treatment where necessary) through a stack or vent located and/or designed in such a way as to avoid local nuisance.

2.1.1.2 Emissions to air shall only arise from the emission points specified in Table 2.1.1, as per description in the submitted Application.

Table 2.1.1: Emission points to air	
PS1	Boiler
PS2	Boiler
PS3	Boiler

2.1.1.3 Diesel (gas oil) used for generator and boilers shall have a Sulphur content not greater than 01%.

2.1.1.4 The operator shall submit an annual certification for each boiler referred to in Table 2.1.1 from an independent warranted engineer or an accredited laboratory. The certification shall be submitted as part of the Annual Environmental Report.

2.1.1.5 The certification shall include measurement of Carbon monoxide and Oxides of Nitrogen. Measurements shall be carried out when the boilers are in operation.

2.1.1.6 Monitoring for total particulate matter shall be carried out when indicated by the Authority.

2.1.1.7 The limits for emissions to air for the parameters and emission points set out in Table 2.1.2 shall not be exceeded. These limits relate to dry gas at 3% O_2 content.

Table 2.1.2 : Emission limits to air and monitoring

Emission point reference	Parameter	Limit
PS1, PS2, PS3	Carbon Monoxide	Mass concentration of 80 mg/m^3
PS1, PS2, PS3	Total Particulate Matter	50 mg/m^3
PS1, PS2, PS3	Oxides of Nitrogen	200 mg/m^3

2.1.1.8 Under abnormal operating conditions such as in the case of breakdown, the Operator shall reduce or close operations as soon as practical until normal operation can be restored.

2.1.1.9 The last Ammonia cooling system shall be decommissioned once the brewhouse is in operation.

2.1.1.10 The ammonia leak detection equipment and the emergency evacuation site shall be tested and recorded on an annual basis.

2.1.1.11 The operator shall submit certifications from an independent engineer to certify that all tanks and pipes work related to the Ammonia cooling system are leak proof. The certification shall be submitted as part of the AER.

2.1.1.12 Extracted fumes and gases (including boilers, generators, etc.) shall vent through stacks extending at least 3 metres above roof level and in a manner that optimises dispersion of the emission.

2.1.1.13 The exhaust from general building ventilation (e.g. extractors or fans in walls or roofs) shall be vented in such a way as to avoid local nuisance.

2.1.1.14 For those activities, where it can be shown to the satisfaction of MEPA that the above venting requirements are not practical, sensible or necessary, stacks and vents shall be located and designed so as to minimise local nuisance.

2.1.1.15 In the event of a local nuisance from emissions to air, the operator must, at the written request of MEPA and within 10 working days, identify the specific cause of the nuisance and examine means for its elimination or minimisation including:

- Relocating / redesigning the stack(s) or vent(s) to a point where nuisance is minimised.
- Replacement of fuel.
- Preventative measures such as replacement of process materials by more environmentally sensitive compounds.
- Improved storage of materials.
- Use of additional abatement measures.

2.1.1.16 All abatement equipment and ducting shall be cleaned and maintained according to product specifications in a way so as to ensure proper functioning of the equipment. This is to be carried out on a regular basis.

2.1.1.17 The Operator shall prevent or where that is not practicable, reduce fugitive emissions of substances to air from the Permitted Installation.

2.1.2 Effluent discharges

2.1.2.1 No discharges to surface waters groundwater shall take place at the installation.

2.1.2.2 Rainwater shall not be discharged into the sewer. Foul sewer drains must be strictly segregated from storm water drains. The operator shall endeavour to collect rainwater in a suitable reservoir or cistern.

2.1.2.3 Rainwater shall be segregated from all process areas that are potentially contaminated with raw materials, intermediates and/or products. If this is not possible, rainwater from areas where contamination by oil or chemicals is likely (such as loading/unloading and bunded areas) shall pass through an adequately sized interceptor.

2.1.2.4 All discharges to the foul sewer (other than from domestic sewage or equivalent), including reverse osmosis reject water, shall comply with the requirements of the Water Services Corporation Sewer Discharge Permit.

2.1.2.5 Process effluents shall not be diluted prior to discharge to sewer.

2.1.2.6 The Operator shall undertake all necessary measures and precautions to prevent spillage of raw materials, intermediates, products, waste and any other materials.

2.1.2.7 All process and storage areas must be appropriately contained. Any accidental release of substances shall be duly treated prior to discharge into the sewers, or disposed/recovered to the satisfaction of the Authority if treatment does not enable compliance with emission limit values in the Sewer Discharge Permit.

2.1.2.8 The Operator shall ensure the Sewer Discharge Permit from the Water Services Corporation is updated every year and submit a copy of the permit to the Authority. The Operator shall abide to the provisions indicated in the Sewer Discharge Permit.

2.1.3 Emissions to Land

2.1.3.1 No emissions from the Permitted Installation shall be made to land.

2.1.4 Odour

2.1.4.1 Emissions form the activities shall be free from odour at levels likely to cause pollution and/or nuisance outside the site and at sensitive receptors, as perceived by the Authority.

2.1.4.2 The Operator shall prevent or where that is not practicable, reduce odorous emissions from the Permitted Installation, in particular by:

- limiting the use of odorous materials;
- restricting odorous activities;
- controlling the storage conditions of odorous materials;
- controlling processing parameters to minimise the generation of odour;
- optimising the performance of abatement systems;
- timely monitoring, inspection and maintenance;
- employing, if required by the Authority, an approved odour management plan.

2.1.5 Noise and Vibration

2.1.5.1 The Operator shall prevent or where that is not practicable reduce emissions of noise and vibration from the Permitted Installation.

2.1.5.2 Emergency generators/alarms/sirens/release valves shall only be tested between the hours of 10.00 and 17.00 Monday to Friday and not on any Public Holiday.

2.1.5.3 Noise monitoring shall be carried out, at the expense of the Permit Holder, as deemed appropriate by the Authority. In this regard, the locations, measurements and assessment must be made according to BS 4142:1997.

2.2 Waste

2.2.1 Waste storage and handling

2.2.1.1 The Operator shall use BAT in the design, maintenance and operation of all facilities for the storage and handling of waste on site such that there are no releases to water or land during normal operation and that emissions to air and risk of accidental release to water or land are minimised.

2.2.1.2. All wastes shall be stored within a designated and controlled storage area(s) prior to ultimate disposal. Wastes to be recycled shall be stored in a designated container or area and shall not be mixed with other wastes.

2.2.1.3 The storage of Hazardous Waste should comply with the requirements of the Waste Management (Activity Registration) Regulations, 2007.

2.2.1.4 Liquid and hazardous wastes shall be stored in a labelled, closed container(s) within a designated and controlled storage area(s) prior to ultimate disposal. Wastes of different natures shall not be mixed in the same container.

2.2.1.5 Packaging and containers containing significant residual quantities of chemicals shall be regarded as hazardous waste and shall be disposed of in an appropriate manner.

2.2.1.6 No storage of waste (other than own-site inert waste) is permitted for a period exceeding 12 months.

2.2.2 Waste recovery or disposal

2.2.2.1 The Operator shall be committed to reduce waste generation where possible.

2.2.2.2 Waste produced at the Permitted Installation shall be recycled, reused or recovered unless technically and/or economically un feasible. When practical, recyclable wastes shall be segregated to facilitate recycling.

2.2.2.3 Records shall be maintained for the disposal/recovery of all hazardous waste, including EWC Code, description, quantities, date of removal, contractor name (including for transport), consignment note number and manner and place of disposal/recovery, including any pre-treatment. The records shall be maintained for a period of 3 years and be made available, upon request, to the authority.

2.2.2.4 Disposal of wastes (including rejects, expired products and other wastes) shall be managed in accordance with the legal obligations of the Waste Management (Permit and Control) Regulations 2001, as published per Legal Notice 337 of 2001 for appropriate management.

2.2.2.5 Off-site disposal or recovery of wastes may only take place at a facility licensed for that purpose.

2.2.2.6 On-site disposal of wastes by any means including burning, disposal to drain or surface water, burying or deposition on land is prohibited, unless specifically approved through a Variation of this Permit.

2.2.2.7 Movement of hazardous waste to authorised facilities shall be covered by a valid consignment permit obtainable from the Competent Authority. Each movement shall also be covered by a consignment note obtainable from the Authority.

2.2.2.8 Disposal certificates shall be kept on record and made available for inspection for a period of at least 3 years from date of their issue.

2.2.2.9 Shipment of hazardous waste abroad is to follow the obligations listed in Council Regulation (EC) 1013/2006 of the European Parliament and of The Council of 14 June 2006 on shipments of waste.

2.2.2.10 The Operator shall make use of the services of a registered waste carrier for the transport of waste from the site in accordance with LN 106/2007. Where the company removes wastes using its own transport the vehicle(s) must also be registered as a waste carrier in accordance with LN 106/2007.

2.2.2.11 The operator shall register with MEPA as a producer of packaging and provide the required information, as well as achieve the targets as set out in the relevant legislation. Documentation as evidence of such should be maintained for a period of 3 years and be made available, upon request by MEPA.

2.3 Storage

2.3.1 No storage of waste, equipment or materials is permitted on property outside the site premises. However, non-hazardous waste awaiting collection may be placed outside the site premises for a period not exceeding 6 hours.

2.3.2 All bulk oil storage tanks shall be provided with an adequately designed bund system with an impermeable base and walls. The capacity of the bund shall be a minimum of

110% of the largest tank within the bund or 25% of the total capacity of all the tanks within the bund. Filling and off-take points shall be located within the bund.

2.3.3 Containers for bulk storage of liquids shall be properly designed, located, labelled, bunded and maintained so as to prevent accidental spillage. Incompatible chemicals shall not be stored within the same bund.

2.3.4 Bulk storage tanks for liquids and associated bunding and pipe work shall be visually inspected at least twice a month.

2.3.5 Drums and containers of solvents, oils or any other chemicals shall be stored in designated and secure storage areas. Storage areas shall be bunded or otherwise designed so that surface and ground waters cannot be contaminated by spillages.

2.3.6 Spillages of oil or other hazardous material shall receive immediate attention to prevent escape to drain, surface water or land. Spilled material shall be disposed of in an appropriate manner. Kits for the collection of liquid and powder spills shall be available on site at sensitive locations.

2.3.7 The construction of new underground tanks for storage of oils and chemicals is prohibited unless specifically approved by MEPA. The construction of fuel tanks shall comply with relevant MRA standards.

2.3.8 The storage of flammable, toxic and hazardous substances and the maintenance of safety critical equipment should correspond to good international practice.

2.4 Accident prevention and control

2.4.1 An Emergency Response Plan shall be maintained containing details of the location, nature and quantity of chemicals, oils and fuels stored, any special hazards, a drawing showing location of drains and the emergency phone numbers of the operator and relevant authorities. It shall also include actions to be taken in the case of incidents which could affect the environment, such as fires and chemical/fuel spills. The emergency plan shall indicate that accidental releases of chemicals and fires caused by chemicals are to be managed as specified in the respective MSDS sheets.

2.4.2 The emergency procedure shall be updated whenever necessary and the updated version sent to MEPA and the Civil Protection Department.

2.4.3 In the case of an accident, the Operator shall follow the Emergency Response Plan referred to in Condition 2.4.1.

3 Records

3.1 The Operator shall ensure that all records required to be made by this Permit and any other records made by it in relation to the operation of the Permitted Installation shall:

3.1.1 be made available for inspection by the Authority at any reasonable time;
3.1.2 be supplied to the Authority on demand and without charge and in the format requested;
3.1.3 be legible;
3.1.4 be made as soon as reasonably practicable;
3.1.5 indicate any amendments which have been made and shall include the original record wherever possible; and
3.1.6 be retained at the Permitted Installation, or other location agreed by the Authority in writing, for a minimum period of 3 years from the date when the records were made, unless otherwise agreed in writing.

4 Reporting

4.1 All reports and written and/or oral notifications required by this Permit shall be made and sent to the Authority using the contact details notified in writing to the Operator by the Authority.

4.2 The Operator shall submit to the Authority an Annual Environmental Report (AER) of the previous year by not later than 30 March of each year, providing the information listed in Schedule 1 of this Permit and in the format specified therein.

4.3 The Operator shall, within 6 months of receipt of written notice from the Authority, submit to the Authority a report assessing whether all appropriate preventive measures continue to be taken against pollution, in particular through the application of the best available techniques, at the installation. The report shall consider any relevant published technical guidance current at the time of the notice which is either supplied with or referred to in the notice, and shall assess the costs and benefits of applying techniques described in that guidance, or otherwise identified by the Operator, that may provide environmental improvement.

5 Management and Technically Competent Person

5.1 A copy of this Permit shall be available at the place of work, at all times, for reference by all staff carrying out work subject to the requirements of the Permit.

5.2 The permit holder shall submit in writing to the Competent Authority the name and contact details of the technically competent person for the site within 5 days of issue of the permit.

5.3 The Permitted Installation shall be supervised by staff who are suitably trained and fully conversant with the requirements of this Permit.

5.4 All staff shall be fully conversant with those aspects of the Permit conditions which are relevant to their duties and shall be provided with adequate professional technical development and training and written operating instructions to enable them to effectively carry out their duties.

5.5 The Operator shall maintain a record of the skills and training requirements for all staff whose tasks in relation to the Permitted Installation may have an impact on the environment and shall keep records of all relevant training.

Schedule 1
Annual Environmental Report

Important note
By this submission, you confirm that you give your explicit consent for the entire contents of this Annual Environment Report to be made available on the Authority's public website.

S2.1 Introduction

Environmental Permit Number	
Reporting Year (Calendar Year: 1 January to 31 December)	
Name and locality of Site	
Brief description of activities at the site	

S2.2 Fuel Consumption Data

Equipment [1]	Fuel type	Sulphur Content of Fuel [2]	Fuel Consumption	Units
				tonnes
				tonnes

S2.3 Off-site transfers of hazardous waste

Date of transfer	EWC Code[3]	Quantity of waste (in kg)	Consignment note number	Ultimate destination

S2.4 Transport of Waste

Name(s) of registered waste carrier used during reporting year	Waste type(s) transported

1 E.g. Boiler, generator, vehicles, etc.
2 Specify units (e.g. as percentage, or mg/kg)
3 European Waste Catalogue Code (Reference: Schedule 1 of LN 337 of 2001: http://www.mepa.org.mt/environment/legislation/LN_337_2001_E.pdf)

S2.5 Monitoring Data

S2.5.1 Emissions to air

Parameter	Emission point reference	Limit Value	Standard methodology used	Total annual number of exceedances	Concentration (Annual Average)	Unit	Total Annual Load	Unit
Carbon Monoxide	PS1, PS2, PS3	Mass concentration of 80 mg/m^3				mg/m^3		kg
Total Particulate Matter	PS1, PS2, PS3	50				mg/m^3		kg
Oxides of Nitrogen	PS1, PS2, PS3	200				mg/m^3		kg

Schedule 2
Site Map

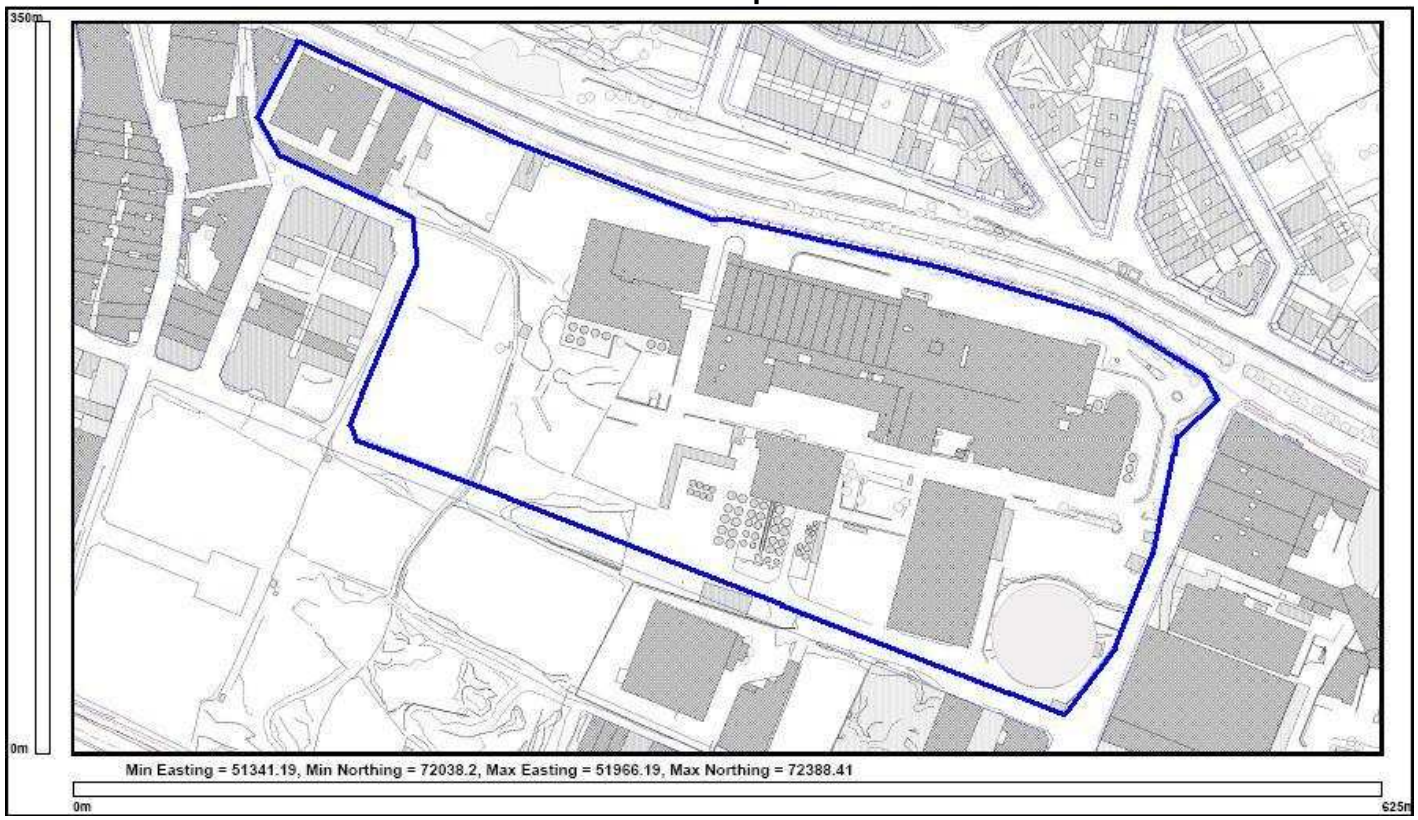

Fig. S3.1: Site of installation, showing extent of area authorised for activity (outlined in blue).

END OF PERMIT