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Naturiol**
Cymru
**Natural
Resources**
Wales

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Circular Waste Solutions Limited

**Liquid Waste Treatment Facility
Titanium Road
Waunarlwydd
Swansea
SA5 4SF**

Permit number

DB3295CU

Liquid Waste Treatment Facility

Permit number DB3295CU

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The hazardous liquid waste treatment facility will accept, temporarily store, and treat approximately 32,000 tonnes per annum of both hazardous and non-hazardous liquid wastes, such as waste oils, interceptor wastes, and other hazardous liquids. The site will accept bulk transfers of liquids waste and/or packaged waste from several contracted third parties, prior to treatment and transfer of filter cake and other residues offsite to other licensed waste management facilities for further processing or disposal, and effluent discharged to sewer.

The site comprises a reception office, six storage areas for IBCs and package storage, three concrete tanks for final effluent and fire water, and a bunded tank farm area containing dedicated treatment tanks, oil/water separator, aqueous treatment plant, effluent treatment plant, and covered storage for filter cake, as well as bunded good quality hard standing across the site. All storage of waste is external, apart from a covered storage area for oxidising and quarantined waste.

The oil and water treatment plant will utilise particle separation and filtration to remove solids, and gravity, weiring, and a lamella separator to remove hydrocarbons. Oil removed will then be further settled and dewatered prior to dispatch to a specialist oil recycling facility. Solids will be removed off site to receive further treatment. The resulting effluent is non-hazardous and will be processed and discharged via the effluent treatment plant.

The aqueous treatment plant will process waste aqueous chemicals in reactor vessels to treat the material in order to produce a non-hazardous slurry, which will be dewatered through a filter press. The resultant non-hazardous (or hazardous) filter cake will be recovered for onward disposal at an appropriate third-party site, and the non-hazardous effluent will be processed and discharged via effluent treatment plant. The 'effluent treatment plant' refers to various equipment consisting of settling tanks in the oil/water area to blend and settle non-hazardous effluents to increase the removal of solids. The settled effluents are tested and then pumped to a pair of final effluent tanks for further settling and blending and testing prior to discharge. The final effluent phase will be discharged to the Dŵr Cymru Welsh Water (DCWW) foul effluent network and be subject to sampling and analysis in line with the Circular Waste Solutions discharge procedure.

The only point source emissions to air from the Installation relate to fugitive emissions from the storage tank vent points and aqueous treatment plant scrubber stack. The site has a number of control measures in place to mitigate this risk.

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

Status log of the permit		
Description	Date	Comments
Application EPR/DB3295CU/A001	Duly Made 04/08/23	Application for a liquid hazardous and non-hazardous waste storage and treatment facility
Additional information requested	14/11/23	Describe compliance with Waste Treatment BREF conclusions
Additional information received	08/12/23	Description of site with respect to Waste Treatment BRef
Additional information requested	03/01/24	Updated and corrected H1 assessment and details of monitoring of emissions to air and sewer
Additional information received	14/02/24	Additional information on monitoring and H1 assessment
Additional information received	19/02/24	Additional information on monitoring and H1 assessment
Additional information received	22/03/24	Updated and corrected H1 Assessment received
Permit EPR/DB3295CU determined	16/08/24	Permit issued to Circular Waste Solutions Limited

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number
EPR/DB3295CU

The Natural Resources Body for Wales (“Natural Resources Wales”) authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

Circular Waste Solutions Limited (“the operator”),
whose registered office is

10 Meadow Street
Avonmouth
Bristol
BS11 9AR

company registration number 12205708

to operate an installation at

Liquid Waste Treatment Facility
Titanium Road
Wunarlwydd
Swansea
SA5 4SF

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

Signed

Date

Anna Griffiths

16/08/2024

Senior Specialist Advisor, Installations and RSR Permitting Team

Authorised on behalf of Natural Resources Wales

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 For the following activities referenced in schedule 1, table S1.1 (A1 to A3) the operator shall:

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

1.3 Efficient use of raw materials

1.3.1 The operator shall:

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

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

1.4.1 The operator shall take appropriate measures to ensure that:

- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and

- (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

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

2.2 The site

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

2.3 Operating techniques

- 2.3.1 (a) 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 Natural Resources Wales.
- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales 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 Natural Resources Wales.
- 2.3.2 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table(s) S2.1; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.3 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.
- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.
- 2.3.5 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

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 and S3.2.
- 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 Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales 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 Natural Resources Wales.
- 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 Natural Resources Wales, 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.
- 3.3.3 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales 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 Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales 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 Natural Resources Wales.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1 and S3.2
- 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 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.
- 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 and S3.2 unless otherwise agreed in writing by Natural Resources Wales.

3.6 Fire

- 3.6.1 The operator shall manage and operate the activities in accordance with a written fire prevention plan using the current, relevant fire prevention plan guidance.
- 3.6.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities could cause a fire risk, submit to Natural Resources Wales a fire prevention plan which identifies and minimises the risks of fire;
 - (b) Operate the activity in accordance with the fire prevention plan, from the date of submission, unless otherwise agreed in writing by Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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 Natural Resources Wales, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; 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 Natural Resources Wales, 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 Natural Resources Wales 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 (a) In the event 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 Natural Resources Wales,
 - (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) in the event of a breach of any permit condition the operator must immediately—
- (i) inform Natural Resources Wales, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) in the event 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 Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales 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) Natural Resources Wales 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 Natural Resources Wales shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately" in which case it may be provided by telephone.

Schedule 1 - Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A1	S5.3 Part A(1)(a)(ii) and (iii)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving mixing, blending, bulking and physico-chemical treatment of hazardous waste	Up to 32,000 tonnes per year (this limit is a total for this activity and activity A4) Only waste types specified in table S2.1
A2	S5.6 Part A(1)(a)	Temporary Storage of Hazardous Waste	Only waste types specified in table S2.1
Directly Associated Activity			
A4	Effluent treatment plant	Treatment of non-hazardous effluents via filtering and blending before discharge to sewer	Non-hazardous wastes in Table S2.2 from receipt to dispatch, and OWP and ATP effluent
Waste Activities			
Activity reference	Description of activities for waste operations		Limits of activities
A4 Disposal or recovery of Non-Hazardous wastes	<p>R3: Recycling/reclamation of organic substances which are not used as solvents</p> <p>R4: Recycling/reclamation of metals and metal compounds</p> <p>R5: Recycling/reclamation of other inorganic compounds</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>D9: Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (e.g. evaporation, drying, calcination, etc.)</p> <p>D14: Repackaging prior to submission to any of operations numbered D1 to D13</p> <p>D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced)</p>		<p>Operations shall be limited to:</p> <ol style="list-style-type: none"> Up to 32,000 tonnes per year (this limit is a total for this activity and activity A1) Waste types as specified in Table S2.1 Treatment activities limited to mixing, blending, bulking and physico-chemical treatment of non-hazardous waste

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	Application with supporting documents received	04/08/23
Additional Information	Description of site in respect to Waste Treatment BREF	08/12/23
Additional Information	Information on monitoring of emissions to sewer and air	19/02/24
Additional Information	H1 Assessment	22/03/24

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities	
Maximum quantity	32,000 tonnes per year
Waste code	Description
05	WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL
05 01	Wastes from Petroleum Refining
05 01 05*	oil spills
05 01 09*	sludges from on-site effluent treatment containing hazardous substances
05 01 11*	wastes from cleaning of fuels with bases
05 01 12*	oil containing acids
05 01 14	wastes from cooling columns
05 01 16	sulphur-containing wastes from petroleum desulphurisation
06	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 01	Wastes from The Manufacture, Formulation, Supply and Use (MFSU) of Acids
06 01 01*	sulphuric acid and sulphurous acid
06 01 02*	hydrochloric acid
06 01 03*	hydrofluoric acid
06 01 04*	phosphoric and phosphorous acid
06 01 05*	nitric acid and nitrous acid
06 01 06*	other acids
06 02	Wastes from The MFSU of Bases
06 02 01*	calcium hydroxide
06 02 04*	sodium and potassium hydroxide
06 02 05*	other bases
06 03	Wastes from The MFSU of Salts and Their Solutions and Metallic Oxides
06 03 13*	solid salts and solutions containing heavy metals
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 03 16	metallic oxides other than those mentioned in 06 03 15
06 05	Sludges from On-Site Effluent Treatment
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02
07	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01	Wastes from The Manufacture, Formulation, Supply and Use (MFSU) Of Basic Organic Chemicals
07 01 01*	aqueous washing liquids and mother liquors
07 01 11*	sludges from on-site effluent treatment containing hazardous substances
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02	Wastes from The MFSU of Plastics, Synthetic Rubber and Man-Made Fibres
07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 02 15	wastes from additives other than those mentioned in 07 02 14
07 02 17	wastes containing silicones other than those mentioned in 07 02 16
07 03	Wastes from The MFSU of Organic Dyes and Pigments (Except 06 11)
07 03 12	sludges from on-site effluent treatment other than those mentioned in 07 03 11

Table S2.1 Permitted waste types and quantities

Maximum quantity	32,000 tonnes per year
Waste code	Description
07 04	Wastes from The MFSU Of Organic Plant Protection Products (Except 02 01 08 and 02 01 09), Wood Preserving Agents (Except 03 02) and Other Biocides
07 04 12	sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 05	Wastes from The MFSU of Pharmaceuticals
07 05 12	sludges from on-site effluent treatment other than those mentioned in 07 05 11
07 05 14	solid wastes other than those mentioned in 07 05 13
07 06	Wastes from The MFSU of Fats, Grease, Soaps, Detergents, Disinfectants and Cosmetics
07 06 01*	aqueous washing liquids and mother liquors
07 06 11*	sludges from on-site effluent treatment containing hazardous substances
07 06 12	
07 07	Wastes from The MFSU of Fine Chemicals and Chemical Products Not Otherwise Specified
07 07 01*	aqueous washing liquids and mother liquors
07 07 11*	sludges from on-site effluent treatment containing hazardous substances
07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 06 11
08	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01	Wastes from MFSU and Removal of Paint and Varnish
08 01 16	aqueous sludges containing paint or varnish other than those mentioned in 08 01 15
08 02	wastes from MFSU of other coatings (including ceramic materials)
08 02 02	aqueous sludges containing ceramic materials
08 02 03	aqueous suspensions containing ceramic materials
08 03	Wastes from MFSU of Printing Inks
08 03 07	aqueous sludges containing ink
08 03 08	aqueous liquid waste containing ink
08 03 13	waste ink other than those mentioned in 08 03 12
08 03 15	ink sludges other than those mentioned in 08 03 14
08 03 18	waste printing toner other than those mentioned in 08 03 17
08 04	Wastes from MFSU of Adhesives and Sealants (Including Waterproofing Products)
08 04 12	adhesive and sealant sludges other than those mentioned in 08 04 11
08 04 14	aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13
08 04 16	aqueous liquid waste containing adhesives or sealants other than those mentioned in 08 04 15
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDROMETALLURGY
11 01	Wastes from Chemical Surface Treatment and Coating of Metals and Other Materials (For Example Galvanic Processes, Zinc Coating Processes, Pickling Processes, Etching, Phosphating, Alkaline Degreasing, Anodising)
11 01 05*	pickling acids

Table S2.1 Permitted waste types and quantities

Maximum quantity	32,000 tonnes per year
Waste code	Description
11 01 06*	acids not otherwise specified
11 01 07*	pickling bases
11 01 09*	sludges and filter cakes containing dangerous substances
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
11 01 11*	aqueous rinsing liquids containing dangerous substances
11 01 12	aqueous rinsing liquids other than those mentioned in 11 01 11
11 01 14	degreasing wastes other than those mentioned in 11 01 13
11 01 98*	other wastes containing dangerous substances
11 02	Wastes from Non-Ferrous Hydrometallurgical Processes
11 02 02*	sludges from zinc hydrometallurgy (including jarosite, goethite)
11 02 05*	wastes from copper hydrometallurgical processes containing dangerous substances
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 02 07*	other wastes containing dangerous substances
11 03	Sludges and Solids from Tempering Processes
11 03 01*	wastes containing cyanide permitted
11 05	Wastes from Hot Galvanising Processes
11 05 03*	solid wastes from gas treatment
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 03	Wastes from Water and Steam Degreasing Processes (Except 11)
12 03 01*	aqueous washing liquids
13	OIL WASTE AND WASTES OF LIQUID FUELS (except edible oils and those found in chapters 05,12 and 19)
13 01	Waste Hydraulic oils
13 01 05*	non-chlorinated emulsions
13 01 10*	mineral based non-chlorinated hydraulic oils
13 01 11*	synthetic hydraulic oils
13 01 12*	readily biodegradable hydraulic oils
13 01 13*	other hydraulic oils
13 02	Waste Engine, Gear and Lubricating Oils
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils
13 02 06*	synthetic engine, gear and lubricating oils
13 02 07*	readily biodegradable engine, gear and lubricating oils
13 02 08*	other engine, gear and lubricating oils
13 03	Waste Insulating and Heat Transmission Oil
13 03 07*	mineral-based non-chlorinated insulating and heat transmission oils
13 03 08*	synthetic insulating and heat transmission oils
13 03 09*	readily biodegradable insulating and heat transmission oils
13 03 10*	other insulating and heat transmission oils
13 04	Bilge Oils
13 04 01*	bilge oils from inland navigation
13 04 02*	bilge oils from jetty sewers
13 04 03*	bilge oils from other navigation
13 05	Oil/Water Separator Contents
13 05 01*	solids from grit chambers and oil/water separators
13 05 02*	sludges from oil/water separators

Table S2.1 Permitted waste types and quantities

Maximum quantity	32,000 tonnes per year
Waste code	Description
13 05 03*	interceptor sludges
13 05 06*	oil from oil/water separators
13 05 07*	oily water from oil/water separators
13 05 08*	mixtures of wastes from grit chambers and oil/water separators
13 07	Wastes of Liquid Fuels
13 07 01*	fuel oil and diesel
13 07 03*	other fuels (including mixtures)
13 08	Oil Wastes Not Otherwise specified
13 08 01*	desalter sludges or emulsions
13 08 02*	other emulsions
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	End of Life Vehicles from Different Means of Transport (Including Off-Road Machinery) and Wastes from Dismantling of End Life Vehicles and Vehicle Maintenance (Except 13, 14, 16 06 And 16 08)
16 01 14*	antifreeze fluids containing dangerous substances
16 01 15	antifreeze fluids other than those mentioned in 16 01 14
16 03	Off-Specification Batches and Unused Products
16 03 03*	inorganic wastes containing dangerous substances
16 03 05*	organic wastes containing dangerous substances
16 06	Batteries and Accumulators
16 06 06*	separately collected electrolyte from batteries and accumulators
16 07	Wastes from Transport Tank, Storage Tank and Barrel Cleaning (Except 05 And 13)
16 07 08*	wastes containing oil
16 07 09*	wastes containing other dangerous substances
16 09	Oxidising Substances
16 09 01*	permanganates, for example potassium substances
16 09 02*	chromates, for example potassium chromate, potassium or sodium dichromate
16 09 03*	peroxides, for example hydrogen peroxide
16 09 04*	oxidising substances, not otherwise specified
16 10	Aqueous Liquid Wastes Destined for Off-Site Treatment
16 10 01*	aqueous liquid wastes containing dangerous substances
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01
16 10 03*	aqueous concentrates containing dangerous substances
16 10 04	aqueous concentrates other than those mentioned in 16 10 03
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTEWATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 01	Wastes from Incineration or Pyrolysis of Waste
19 01 06*	aqueous liquid wastes from gas treatment and other aqueous liquid wastes
19 02	Wastes from Physio/Chemical Treatments of Waste (Including Dechromatation, Decyanidation, Neutralisation)
19 02 04*	premixed wastes composed of at least one hazardous waste
19 07	Landfill Leachate
19 07 02*	landfill leachate containing dangerous substances
19 07 03	landfill leachate other than those mentioned in 19 07 02
19 08	Wastes from Wastewater Treatment Plants Not Otherwise Specified

Table S2.1 Permitted waste types and quantities

Maximum quantity	32,000 tonnes per year
Waste code	Description
19 08 09	grease and oil mixture from oil/water separation containing only edible oil and fats
19 08 10*	grease and oil mixture from oil/water separation other than those mentioned in 19 08 09
19 08 11*	sludges containing dangerous substances from biological treatment of industrial wastewater
19 08 13*	sludges containing dangerous substances from other treatment of industrial wastewater
19 09	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 02	sludges from water clarification
19 13	wastes from soil and groundwater remediation
19 13 03*	sludges from soil remediation containing dangerous substances
19 13 05*	sludges from groundwater remediation containing dangerous substances
19 13 07*	aqueous liquid wastes and aqueous concentrates from groundwater remediation containing hazardous substances
19 13 08	aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	Separately Collected Fractions (Except 15 01)
20 01 14*	acids
20 01 15*	alkalines
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 30	detergents other than those mentioned in 20 01 29
20 03	other municipal wastes
20 03 03	street-cleaningresidues

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference Period	Monitoring frequency <i>footnote 1 may apply</i>	Monitoring standard or method
A1 on site plan in schedule 7	Acid gas scrubber Stack	Hydrogen chloride (HCl) <i>footnote 2 may apply</i>	5 mg/Nm ³		once every six months	EN 1911 or other method agreed in writing with Natural Resources Wales
		TVOC <i>footnote 2 may apply</i>	20 mg/Nm ³		once every six months	EN 12619 or other method agreed in writing with Natural Resources Wales
		NH ₃ <i>footnote 2 may apply</i>	No limit set		once every six months	To be agreed in writing with Natural resources Wales
A2 on site plan in schedule 7	Reactor vessel 1 release valve	None set				
A3 on site plan in schedule 7	Reactor vessel 2 release valve	None set				
A4 on site plan in Schedule 7	Tank 1 carbon abatement outlet	Hydrogen chloride (HCl) <i>footnote 2 may apply</i>	5 mg/m ³		Once every six months	EN 1911 or other method agreed in writing with Natural Resources Wales

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference Period	Monitoring frequency <i>footnote 1 may apply</i>	Monitoring standard or method
		TVOC <i>footnote 2 may apply</i>	20 mg/m ³		Once every six months	EN 12619 or other method agreed in writing with Natural Resources Wales
		NH ₃ <i>footnote 2 may apply</i>	No limit set		Once every six months	To be agreed in writing with Natural resources Wales
A5 on site plan in schedule 7	Tank 2 carbon abatement outlet	Hydrogen chloride (HCl) <i>footnote 2 may apply</i>	5 mg/Nm ³		once every six months	EN 1911 or other method agreed in writing with Natural Resources Wales
		TVOC <i>footnote 2 may apply</i>	20 mg/Nm ³		once every six months	EN 12619 or other method agreed in writing with Natural Resources Wales
		NH ₃ <i>footnote 2 may apply</i>	No limit set		once every six months	To be agreed in writing with Natural resources Wales
A6 on site plan in schedule 7	Tank 5 carbon abatement outlet	Hydrogen chloride (HCl) <i>footnote 2 may apply</i>	5 mg/Nm ³		once every six months	EN 1911 or other method agreed in writing with Natural Resources Wales
		TVOC <i>footnote 2 may apply</i>	20 mg/Nm ³		once every six months	EN 12619 or other method agreed in writing with Natural Resources Wales
		NH ₃ <i>footnote 2 may apply</i>	No limit set		once every six months	To be agreed in writing with Natural resources Wales

(1) Monitoring frequencies may be reduced if the emission levels are proven to be sufficiently stable.

(2) The monitoring only applies when the substance concerned is identified as relevant in the waste gas stream based on the inventory mentioned in BAT 3

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency. footnotes 1 and 2 may apply	Monitoring standard or method		
S1 on site plan in schedule 7 emission to foul sewer	Treated effluent emission to sewer	Adsorbable organically bound halogens (AOX). <i>footnotes 3 and 4 may apply</i>	1 mg/l	None specified	Once every day	EN ISO 9562		
		Benzene, toluene, ethylbenzene, xylene (BTEX). <i>footnotes 4 and 5 may apply</i>	None set				Once every month	EN ISO 15680
		Free cyanide (CN-). <i>footnotes 3 and 4 may apply</i>	0.1 mg/l				Once every day	Various EN standards available (i.e. EN ISO 14403-1 and -2)
		Hydrocarbon oil index (HOI). <i>footnotes 3 and 4 may apply</i>	10 mg/l					EN ISO 9377-2
		Arsenic (As). <i>footnotes 3 and 4 may apply</i>	0.1 mg/l					Various EN standards available (e.g. EN ISO 11885, EN ISO 17294-2, EN ISO 15586)
		Cadmium (Cd). <i>footnotes 3 and 4 may apply</i>	0.1 mg/l					
		Chromium (Cr). <i>footnotes 3 and 4 may apply</i>	0.3 mg/l					
		Copper (Cu). <i>footnotes 3 and 4 may apply</i>	0.5 mg/l					
		Nickel (Ni). <i>footnotes 3 and 4 may apply</i>	1 mg/l					

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency. <i>footnotes 1 and 2 may apply</i>	Monitoring standard or method
		Lead (Pb). <i>footnotes 3 and 4 may apply</i>	0.3 mg/l			
		Zinc (Zn). <i>footnotes 3 and 4 may apply</i>	2 mg/l			
		Manganese (Mn). <i>footnotes 4 and 5 may apply</i>	None set			
		Hexavalent chromium (Cr(VI)). <i>footnotes 3 and 4 may apply</i>	None set			Various EN standards available (i.e. EN ISO 10304-3, EN ISO 23913)
		Mercury. (Hg) <i>footnotes 3. 4 and 5 may apply</i>	10 µg/l			Various EN standards available (i.e. EN ISO 17852, EN ISO 12846)
		PFOA. <i>footnote 4 may apply</i>	None set		Once every six months	No EN standard available
		PFOS. <i>footnote 4 may apply</i>				

- 1) *Monitoring frequencies may be reduced if the emission levels are proven to be sufficiently stable.*
- 2) *In the case of batch discharge less frequent than the minimum monitoring frequency, monitoring is carried out once per batch*
- 3) *The BAT-AELs may not apply if the downstream waste water treatment plant abates the pollutants concerned, provided this does not lead to a higher level of pollution in the environment.*
- 4) *The BAT-AELs only apply when the substance concerned is identified as relevant in the waste water inventory mentioned in BAT 3.*
- 5) *In the case of an indirect discharge to a receiving water body, the monitoring frequency may be reduced if the downstream waste water treatment plant abates the pollutants concerned*

Schedule 4 - Reporting

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

Table S4.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1.	A1, A5 and A6	Every 12 months	1 January
Emissions to sewer Parameters as required by condition 3.5.1	S1	Every 12 months	1 January

Table S4.2: Annual production/treatment

Parameter	Units
Hazardous Waste Treatment	tonnes
Non-Hazardous Waste Treatment	tonnes

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Generation of residues	Annually	tonnes
Generation of waste water	Annually	m ³
Total raw material used	Annually	tonnes

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	16/08/24
Sewer	Form sewer 1 or other form as agreed in writing by Natural Resources Wales	16/08/24
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	16/08/24
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	16/08/24
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	16/08/24
Waste Subject to Condition 4.2.5	Waste tonnage return form from Natural Resources Wales website or other form as agreed in writing by Natural Resources Wales	N/A

Schedule 5 - Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
To be notified immediately	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a permit condition	
To be notified immediately	
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) In the event 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:

To be notified immediately

Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B - to be submitted as soon as practicable

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 - Interpretation

“*accident*” means an accident that may result in pollution.

“*Annex I*” means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“*Annex II*” means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“*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 Natural Resources Wales 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.

“*background concentration*” means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.
- “*best available treatment, recovery and recycling techniques*” shall have the meaning given to it in the document published jointly by the Department for Environment, Food and Rural Affairs, the Welsh Assembly Government and the Scottish Executive on 27th November 2006, entitled “Guidance on Best Available Treatment, Recovery and Recycling Techniques (BATRR) and Treatment of Waste Electrical and Electronic Equipment (WEEE).
- “*bioaerosol threshold limits*” means the maximum acceptable bioaerosol concentrations at the nearest sensitive receptor, or at an equivalent distance downwind of the composting operations, which are attributable to the composting operations. The maximum acceptable concentrations are respectively 1000 and 500 CFU m⁻³ for total bacteria and *Aspergillus fumigatus*.

“*building*” means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

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

“*emissions to land*” includes emissions to groundwater.

“*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 or background concentration limit.

“*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.

“*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 (Wales) Regulations 2005 (as amended)

“*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

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“Pests” means Birds, Vermin and Insects.

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

“recovery” or *“R”* 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.

“residue” means the solid waste generated by the waste treatment activity and is not directly related to the type of waste treated in the plant

“Solvent Emissions Directive” means Directive 1999/13/EC (as amended by Directive 2004/42/EC) on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations.

“Waste code” means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the ‘List of Wastes Decision’) 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.

“Waste Treatment BAT Conclusions” means the BAT Conclusions for the Waste Treatment sector published as a Commission Implementing Decision EU 2018/1447 in the Official Journal of the EU on 17 August 2018

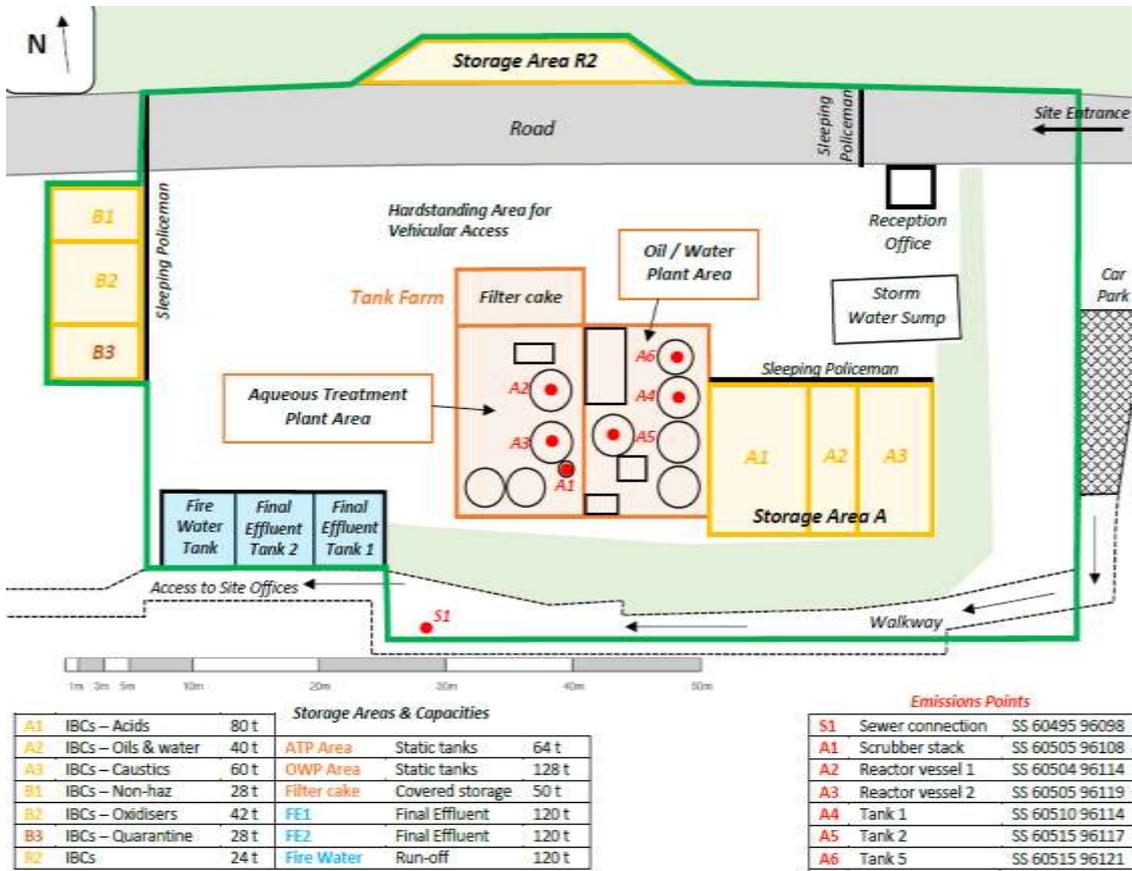
“year” means calendar year ending 31 December.

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

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

- (a) 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
- (b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

Schedule 7 - Site plan



END OF PERMIT

