

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Veolia ES (UK) Limited
Garston Distillation Services
King Street
Garston
Liverpool
L19 8EG

Variation application number

EPR/FP3133GL/V006

Permit number

EPR/FP3133GL

Garston Distillation Services

Permit number EPR/FP3133GL

Introductory note

This introductory note does not form a part of the notice.

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

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made.

Only the variations specified in schedule 1 are subject to a right of appeal. All the conditions of the permit have been varied and are subject to the right of appeal.

The schedules specify the changes made to the permit.

Main features of the installation:

The installation consists of a solvent distillation facility. The distillation facility has numerous distillation columns fed from bulk tanks and a smaller system fed from drums. The processes can run independently or concurrently depending on the material being processed. The systems operate with a variety of columns, packing, condenser systems and vacuum ability to allow a wide range of materials to be processed efficiently. Non-recyclable solvent residues are despatched from site and processed with additional material at another Veolia facility.

There are emissions to air from the distillation processes and storage vessels of Volatile Organic Compounds (VOCs). Emissions from columns D100, D200, D300, D400 and storage vessels are abated via a wet scrubbing system and two carbon filters, and vent to atmosphere via a common release point (A1). Alternatively, the vents from D200 and D300 may be set to pass directly through the carbon filters, by-passing the wet scrubbing system, but vent to the same common release point (A1). The vents from storage tanks, thin film evaporators and vents emit, via wet scrubber and carbon filters, to release point A7. There is a 6 MW existing dual-fuel gas boiler exhausting through its own stack, release point (A5). Additional emissions monitoring points A8a, A8b (new boilers) and A9 (additional distillation columns scrubber) were added to the monitoring regime as a result of this permit variation, more information on these is provided in the section below.

There are emissions to controlled waters (the River Mersey). Boiler blowdown effluent, cooling water and a minor amount of surface water drainage are discharged through release point W1. Uncontaminated site surface water is discharged through release point W3. Effluent generated by the wet scrubber is disposed of offsite by a contractor.

Feedstock and raw materials arrive by bulk road tanker, IBCs or drums; with recovered materials returned to the customer or sold on to the open market. All wastes generated from the process are sent off site for disposal.

The installation is bordered to the south west by the River Mersey. Other industrial units to the east include Cheshire Chemicals Ltd who operate a regulated process for the recovery of solvents which is not connected in any way to Veolia ES (UK) Ltd. The installation is within 200m of a source protection zone; however, no abstractions are made on or within 1 km of the site. The installation is within 100 m of the Mersey Estuary Special Protection Area, Ramsar site and Site of Special Scientific Interest. There are no Areas of Outstanding Natural Beauty that could be affected by the installation.

Changes introduced by this variation:

This variation is in consequence of an application made by the operator to increase the capacity of the solvent reclamation treatment process by a further 28,000 tonnes per annum to 58,000 tpa. This includes two additional fractionating columns, additional storage tank space on site within the existing site footprint and two additional boiler units to provide heat to the process. The boilers are each 9.925 MWth units and able to operate using light oil, reclaimed solvent fuels from the treatment process or natural gas. The operation mode will only allow for one type of fuel to be used at a time and a recirculation system will enable a reduction in NOx emissions from the process.

Waste residues will be similar to the existing process and will be disposed of as per the existing routes. The proposed changes in operations are reflected by an amendment to the limits of specified activity and the operating techniques.

Emission points A2, A3 and A4 were removed from Table S3.1 in the previous variation as they are no longer operational. However, the original numbering of the remaining emission points has been retained to avoid confusion.

Emissions points A8a, A8b and A9 have all been added as a result of the expansion of the treatment process, with A8a and b being the new boiler emissions points and A9 being the scrubber unit exhaust serving the two new distillation columns and the new tank farm infrastructure. Additional conditions related to Medium Combustion Plant, including monitoring and reporting requirements have therefore been added to the permit.

As part of this variation, the volume of water discharged from point W1 was increased from 35 m³ to 100 m³ per seven days.

Also, as part of this variation, the Operator requested that former Activity AR2, relating to the energy from waste/combustion treatment of solvent wastes, and all related Improvement Conditions and Pre-Operational conditions (previously Table S1.4 POs 1 to 4) be removed from the permit. Consequently, emission point A6, Tables S3.3 and S3.4 along with all related monitoring and reporting requirements have been removed from the permit.

Activity AR1 now has an EWC code list provided within Schedule 2 of the permit where none was present in previous variations. The operator has an agreed protocol with the Environment Agency for the addition of codes to this list via previous agreements and this agreement is still in place for the purposes of this permit.

The permit conditions have been updated and re-numbered where applicable to reflect the modern permit format.

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

Status log of the permit		
Description	Date	Comments
Application received BS5410IG	14/03/2005	-
Request for information	03/08/2005	Response dated 22/11/2005
Request to extend determination	03/08/2005	Response dated 19/08/2005
Request for information	09/11/2005	Response dated 09/11/2005
Request to extend determination	05/01/2006	Response dated 12/01/2006
Request for information	11/04/2006	Response dated 18/04/2006
Request to extend determination	20/04/2006	Response dated 24/04/2006
Permit determined BS5410IG	24/05/2006	Original permit issued
Application EPR/FP3133GL/T001 (full transfer of permit)	Duly made 18/06/2008	-
Request to extend determination	10/09/2008	Response dated 16/09/2008
Additional information received	03/10/2008	-
Agency initiated variation AP3837XZ	07/10/2008	Variation issued
Transfer determined EPR/FP3133GL/T001	09/10/2008	Full permit transfer complete
Application EPR/FP3133GL/V002 (variation)	Duly made 30/06/2009	-
Variation determined EPR/FP3133GL/V002	16/11/2009	Varied permit issued
Application EPR/FP3133GL/V003 (variation)	Duly made 12/10/2011	-
Schedule 5	17/11/2011	Response dated 11/01/2012.
Additional information received	31/01/2012 13/04/2012 25/04/2012 26/04/2012 09/05/2012	Received by email.
Variation determined EPR/FP3133GL/V003	06/07/2012	Varied permit issued.
Application EPR/FP3133GL/V004 (variation and consolidation)	Duly made 30/08/2013	Application to vary and consolidate the previous variations into one permit.
Additional information received	02/10/2013	Revised site plan, dated August 2013, drawing number VES/GARS/SOLREC/002/A3.
Variation determined EPR/FP3133GL/V004	30/10/2013	Varied permit issued which consolidated previous variations.
Application EPR/FP3133GL/V005	Duly made 25/04/2016	-
Varied and consolidated permit issued EPR/FP3133GL/V005	08/07/2016	Varied permit issued.

Status log of the permit		
Description	Date	Comments
Application EPR/FP3133GL/V006 (variation and consolidation)	Duly made 21/12/2021	Application to vary and consolidate the previous variation. Application also includes the removal of the Section 5.1 A (1) (a) Activity (formerly Activity AR2) for the combustion of liquid wastes, this partial surrender was undertaken as part of the variation Application.
Schedule 5 Notice issued 02/03/2022	Response 01/06/2022	-
Additional information received	16/05/2022	Received by email. Information relating to Air Quality Assessments.
Additional information received	01/06/2022	Received by email. Noise Assessment Report.
Additional information received	15/07/2022	Received by email. Scrubber Technical Information.
Varied and consolidated permit issued EPR/FP3133GL/V006 [Billing reference: EP3437QS	14/12/2022	Varied permit issued.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

Permit number

EPR/FP3133GL

Issued to

Veolia ES (UK) Limited (“the operator”)

whose registered office is

**210 Pentonville Road
London
N1 9JY**

company registration number **02481991**

to operate a regulated facility at

**Garston Distillation Services
King Street
Garston
Liverpool
L19 8EG**

to the extent set out in the schedules.

The notice shall take effect from 14/12/2022

Name	Date
Philip Lamb	14/12/2022

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of the application made by the operator.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/FP3133GL

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/FP3133GL/V006 authorising,

Veolia ES (UK) Limited (“the operator”),

whose registered office is

**210 Pentonville Road
London
N1 9JY**

company registration number **02481991**

to operate an installation at

**Garston Distillation Services
King Street
Garston
Liverpool
L19 8EG**

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

Name	Date
Philip Lamb	14/12/2022

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

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

1.2 Energy efficiency

- 1.2.1 The operator shall:
- (a) take appropriate measures to ensure that energy is recovered with a high level of energy efficiency and 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 For the following activities referenced in schedule 1, table S1.1 (AR5) no MCP shall be operated beyond the site of the grid reference specified for it in schedule 1, table S1.1 of the permit.
- 2.1.3 Waste authorised by this permit in condition 2.3.4 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 red on the site plan at schedule 7 to this permit.

2.3 Operating techniques

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

2.4 Improvement programme

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

2.5 Pre-operational conditions

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

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 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 the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

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

- (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

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

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
 - (a) point source emissions specified in tables S3.1 and S3.2.
- 3.5.2 The first monitoring measurements shall be carried out within four months of the issue date of the permit or the date when the MCP is first put into operation, whichever is later.
- 3.5.3 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.
- 3.5.4 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.5 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 the Environment Agency.

3.6 Fire prevention

- 3.6.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
 - (a) be legible;
 - (b) be made as soon as reasonably practicable;

- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the annual production/treatment data set out in schedule 4 table S4.2; and
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

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

4.3 Notifications

4.3.1 In the event:

- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and

- (iii) take the measures necessary to prevent further possible incidents or accidents;
 - (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
 - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- Where the operator is a corporate body other than a registered company:
- (a) any change in the operator's name or address; and
 - (b) any steps taken with a view to the dissolution of the operator.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:
- (a) a decision by the Secretary of State not to re-certify the agreement;
 - (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
 - (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

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	Limits of specified activity
AR1	S5.3 A(1) (a) (v)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day: (v) solvent reclamation or regeneration.	From receipt of feedstock, through pre-treatment (if required), distillation/separation process and transfer of recovered solvents materials to dispatch. Waste types and quantities as specified in Table 2.2 of this permit.
AR2	S5.6 A (1) (a)	Temporary storage of hazardous waste.	Storage of hazardous wastes pending recovery.
Directly Associated Activity			
AR3	Handling and storage of waste	Storage and handling of waste produced by distillation process.	--
AR4	Existing steam boiler	Gas/oil fired 6 MWth input.	Boiler and storage of gas oil standby fuel.
AR5	2 x MCP Boilers. Schedule 25A MCP	9.925 MWth input boilers (2 No.) - Heat generation for the distillation column solvent treatment process	Operation of boilers limited to a single fuel mode at any one time: <ul style="list-style-type: none"> • Use of natural gas. • Use of Gas oil. • Use of solvent derived distillate fuel. Storage of gas oil. Grid Reference of both boilers: 339996, 383613 NGR: SJ 39996 83613

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to questions 2.1 and 2.2 given in pages 22 to 37 of the application	14/03/2005
Response to Request for further information dated 11/04/06	The responses provided in sections 2.1, 2.2, 2.3, 2.4 and 3.2.3 of the technical report and section 3.2 of Appendix 2 of the technical report. The limits on the uncontaminated surface water run-off discharged from W3 as described in Section 3.2.2 of the technical report are excluded.	30/06/2009
Application Variation (EPR/FP3133GL/V003)	The response to questions 3 and 4 of the application form Part C3, given in pages 1 to 74 of the Technical Report in the application, as amended by the responses to the Sch-5 notice dated 16/11/11 and the additional information provided by e-mail.	12/10/2011
Response to Schedule 5 Notice dated 16/11/11	Change to steam turbine and electrical generation system. Change to NOx abatement system from SCR to SNCR. Arrangements for offsite blending of solvent waste. Verification of residence time in oxidiser chamber. Details of auxiliary burner arranger.	Received by email by 11/01/2012
Additional information received by e-mail	Justification for change of NOx abatement system from SCR to SNCR.	31/01/2012
Additional information received by e-mail	Addition of activated carbon injection to air emissions abatement system	13/04/2012
Application EPR/FP3133GL/V004	Response to form C3 Question 3	09/08/2013
Revised site plan	Dated August 2013, drawing number VES/GARS/SOLREC/002/A3	02/10/2013
Application EPR/FP3133GL/V005	Response to Q2b in Part C2 – Changes or additions to existing activities. Response to Q3a in Part C3 – Technical Standards & Operating Techniques. All of the 'Request for change to agreed operating techniques' document Rev 14 dated June 2016.	Duly made 25/04/2016
Application EPR/FP3133GL/V006	All Parts - Application Forms A, C2, C2.5, C3 Includes Supporting Statement document, with operational details and specifications for solvent distillate fuel and its storage.	Duly Made 21/12/2021
Schedule 5 Notice Response received by email	<ul style="list-style-type: none"> ● Response Letter Veolia Garston Schedule 5 Response FINAL ● H1 Assessment Tool v3 	16/05/2022
Schedule 5 Notice Response received by email	Noise Assessment Report LD10440/0001/V1.0 written by Wardell Armstrong LLP and dated May 2022	01/06/2022
Request for further Information Response	Scrubber Specification Documents referenced: <ul style="list-style-type: none"> ● VEO-21-282-4002-P7; ● VEO-21-282-4002-P8; and ● VEO-21-282-PRO-URS-01 P1. 	Received by email 15/07/2022

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC 1 – IC 7	Removed by Variation EPR/FP3133GL/V006	Not Required

Table S1.4 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
PO1 – PO4		Removed by Variation EPR/FP3133GL/V006
PO5	Activity AR5 – use of solvent distillate derived fuel to power two MCP Boilers.	<p>The Operator shall:</p> <ol style="list-style-type: none"> 1. Obtain confirmation in writing from the Environment Agency, an agreement in principle with the Environment Agency that the Solvent Distillate Fuel can achieve End of Waste status. 2. Submit a Commissioning Plan to the Environment Agency in writing and obtain written approval for it. 3. Commissioning shall be carried out in accordance with the Commissioning Plan, as approved. 4. Submit a written assessment of the Commissioning Phase and obtain the Environment Agency's written approval to using the Solvent Distillate Fuel.

Schedule 2 – Waste types, raw materials and fuels

Raw materials and fuel description	Specification
Fuel Oil	Less than 0.1% sulphur content.
Solvent Distillate Fuel	Less than 0.1% sulphur content. As agreed in writing with the Environment Agency as per PO5 in Table S1.4.

Maximum quantity	58,000 tonnes/annum
Waste code	Description
07	Wastes from organic chemical processes
07 01	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 04*	other organic solvents, washing liquids and mother liquors
07 01 08*	other still bottoms and reaction residues
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 04*	other organic solvents, washing liquids and mother liquors
07 02 08*	other still bottoms and reaction residues
07 03	wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 04*	other organic solvents, washing liquids and mother liquors
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 01*	aqueous washing liquids and mother liquors
07 04 04*	other organic solvents, washing liquids and mother liquors
07 05	wastes from the MFSU of pharmaceuticals
07 05 01*	aqueous washing liquids and mother liquors
07 05 03*	organic halogenated solvents, washing liquids and mother liquors
07 05 04*	other organic solvents, washing liquids and mother liquors
07 06	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 04*	other organic solvents, washing liquids and mother liquors
07 07	wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 03*	organic halogenated solvents, washing liquids and mother liquors
07 07 04*	other organic solvents, washing liquids and mother liquors
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

Table S2.2 Permitted waste types and quantities for Solvent Distillation Treatment (AR1) and storage on site (AR2)	
Maximum quantity	58,000 tonnes/annum
Waste code	Description
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
08 01 13*	sludges from paint or varnish containing organic solvents or other hazardous substances
08 01 17*	wastes from paint or varnish removal containing organic solvents or other hazardous substances
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17
08 01 19*	aqueous suspensions containing paint or varnish containing organic solvents or other hazardous substances
08 01 21*	waste paint or varnish remover
08 04	wastes from MFSU of adhesives and sealants (including water proofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
14	Waste organic solvents, refrigerants and propellants (except 07 and 08)
14 06	waste organic solvents, refrigerants and foam/aerosol propellants
14 06 02*	other halogenated solvents and solvent mixtures
14 06 03*	other solvents and solvent mixtures
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by hazardous substances ^{Note1}
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-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 14*	antifreeze fluids containing hazardous substances
16 03	off-specification batches and unused products
16 03 05*	organic wastes containing hazardous substances
16 07	wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)
16 07 09*	wastes containing other hazardous substances
16 10	aqueous liquid wastes destined for off-site treatment
16 10 01*	aqueous liquid wastes containing hazardous substances
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 08*	liquid combustible wastes containing hazardous substances
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified

Table S2.2 Permitted waste types and quantities for Solvent Distillation Treatment (AR1) and storage on site (AR2)	
Maximum quantity	58,000 tonnes/annum
Waste code	Description
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances (liquid fraction only)
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 13*	solvents
Note: ¹ These waste codes being packaged wastes, are for storage only and not inclusion in the treatment process.	

Schedule 3 – Emissions and monitoring

Emission point ref. & location (as shown on Drawing reference VEO-20-113-1005)	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1	Special Volatile Organic Compounds	Distillation columns D100, D200, D300, D400, storage tanks R111, R211, R311, F1, road barrel back vent and tank farm, road tanker back venting and 10 x 100 m ³ tanks within the new tank farm via wet scrubber and two carbon filters. Alternatively the vents from D200 and D300 may be set to pass directly to the carbon filters by-passing the wet scrubbing systems.	5 mg/m ³ [Note 2]	--	Annual	BS EN 13649
A1	Class A Volatile Organic Compounds	As above	20 mg/m ³ [Note 3]	--	Annual	BS EN 13526:2001
A1	Class B Volatile Organic Compounds	As above	75 mg/m ³ [Note 4]	--	Annual	BS EN 13526:2001
A1	Special Volatile Organic Compounds	As above	5 mg/m ³ [Note 2]	Monthly average	Daily	PID
A1	Class A Volatile Organic Compounds	As above	20 mg/m ³ [Note 3]	Monthly average	Daily	PID
A1	Class B Volatile Organic Compounds	As above	75 mg/m ³ [Note 4]	Monthly average	Daily	PID
A1	Ammonia	As above	10 mg/m ³	--	Annual	Non-isokinetic sampling and impingement into dilute H ₂ SO ₄ . Analysis by IC.
A5	No parameters	Stack on existing 6 MW boiler.	--	--	--	--
A7	Special Volatile Organic Compounds	Vents from storage tanks, thin film evaporators	5 mg/m ³ [Note 2]	--	Annual	BS EN 13649

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location (as shown on Drawing reference VEO-20-113-1005)	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A7	Class A Volatile Organic Compounds	Vents from storage tanks, thin film evaporators	20 mg/m ³ [Note 3]	--	Annual	BS EN 13526:2001
A7	Class B Volatile Organic Compounds	Vents from storage tanks, thin film evaporators	75 mg/m ³ [Note 4]	--	Annual	BS EN 13526:2001
A7	Special Volatile Organic Compounds	Vents from storage tanks, thin film evaporators	5 mg/m ³ [Note 2]	Monthly average	Daily	PID
A7	Class A Volatile Organic Compounds	Vents from storage tanks, thin film evaporators	20 mg/m ³ [Note 3]	Monthly average	Daily	PID
A7	Class B Volatile Organic Compounds	Vents from storage tanks, thin film evaporators	75 mg/m ³ [Note 4]	Monthly average	Daily	PID
A7	Ammonia	Vents from storage tanks, thin film evaporators	10 mg/m ³	--	Annual	Non-isokinetic sampling and impingement into dilute H ₂ SO ₄ . Analysis by IC.
A8a and A8b	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	New medium combustion plant (9.9MW boilers) which are not engines or turbines fuelled on Natural Gas	100 mg/m ³	Periodic	Every 3 years	MCERTS BS EN 14792 *Note 5
	Carbon monoxide	New medium combustion plant (9.9MW boilers) which are not engines or turbines fuelled on Natural Gas	No limit set	Periodic	Every 3 years	MCERTS BS EN 15058 *Note 5
A8a and A8b	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	New medium combustion plant (9.9MW boilers) which are not engines or turbines fuelled on Gas Oil	200 mg/m ³	Periodic	Every 3 years	MCERTS BS EN 14792 *Note 5

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location (as shown on Drawing reference VEO-20-113-1005)	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
	Carbon monoxide	New medium combustion plant (9.9MW boilers) which are not engines or turbines fuelled on Gas Oil	No limit set	Periodic	Every 3 years	MCERTS BS EN 15058 *Note 5
A8a and A8b (upon completion of Pre-Operational Condition PO5, in Table S1.4 of this permit)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	New medium combustion plant (9.9MW boilers) which are not engines or turbines fuelled on Solvent Distillate Fuel	300 mg/m ³	Periodic	Every 3 years	MCERTS BS EN 14792 *Note 5
	Sulphur dioxide	New medium combustion plant (9.9MW boilers) which are not engines or turbines fuelled on Solvent Distillate Fuel	350 mg/m ³	Periodic	Every 3 years	MCERTS BS EN 14791 *Note 5
	Dust	New medium combustion plant (9.9MW boilers) which are not engines or turbines fuelled on Solvent Distillate Fuel	20 mg/m ³	Periodic	Every 3 years	MCERTS BS EN 13284-1 *Note 5
	Carbon monoxide	New medium combustion plant (9.9MW boilers) which are not engines or turbines fuelled on Solvent Distillate Fuel	No limit set	Periodic	Every 3 years	MCERTS BS EN 15058 *Note 5
A9	TVOC	Scrubber Unit emission point from distillation columns (as shown on drawing VEO-20-113-1000) and tanks within the new tank farm via scrubber unit and carbon filters.	30 mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months	BS EN 12619

Note 1: See Schedule 6 for reference conditions.

Note 2: The total concentration of speciated special Volatile Organic Compounds shall not exceed 5mg/m³

Note 3: As specified in Annex 1 of TGN EPR 4.02. This limit shall apply where the mass limit of 100g/hr is exceeded.

Note 4: As specified in Annex 1 of TGN EPR 4.02. This limit shall apply where the mass limit of 5 tonnes/yr or 2 kg/hr, whichever is the lower, is exceeded.

Note 5: Monitoring requirements are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O₂ content of 6% for solid fuels, 15% for engines and gas turbines and 3% all other MCPs

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 Effluent pit	Biochemical oxygen demand	Boiler blowdown effluent, cooling water and a minor amount of surface water drainage	60 mg/l	--	Every batch released	UKAS approved method or as agreed in writing with the Environment Agency
W1 As above	Suspended solids	As above	60 mg/l	--	As above	As above
W1 As above	Total solvents	As above	5 mg/l	--	As above	As above
W1 As above	Any individual solvent	As above	1 mg/l	--	As above	As above
W1 As above	Maximum pH	As above	9	--	As above	As above
W1 As above	Minimum pH	As above	5	--	As above	As above
W1 As above	Ammonia	As above	5 mg/l	--	As above	As above
W1 As above	Volume of effluent discharged to controlled waters	As above	100 m ³ every 7 days	--	As above	As above
W1 As above	Arsenic	As above	0.05 mg/l	--	Monthly	As above
	Cadmium		0.05 mg/l			
	Chromium		0.05 mg/l			
	Copper		0.5 mg/l			
	Lead		0.1 mg/l			
	Nickel		0.5 mg/l			
	Mercury		5 µg/l			
	Zinc		1mg/l			
W3 Outfall to receiving watercourse	TOC	Surface water run off	50 mg/l	--	Every batch released	As above
W3 Outfall to receiving watercourse	Maximum pH	As above	8	--	As above	As above
W3 Outfall to receiving watercourse	Minimum pH	As above	6	--	As above	As above
W3 Outfall to receiving watercourse	Ammonia	As above	3 mg/l	--	As above	As above

Schedule 4 – Reporting

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

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1	A1, A7 and A9	Annually	1 Jan
		Quarterly	1 Jan, 1 Apr, 1 Jul and 1 Oct
Emissions to air Parameters as required by condition 3.5.1	A8a and A8b	3 yearly	1 Jan, 1 Apr, 1 Jul and 1 Oct
Emissions to water Parameters as required by condition 3.5.1	W1, W3	Quarterly	1 Jan, 1 Apr, 1 Jul and 1 Oct

Parameter	Units
Total Waste Solvent Received	Tonnes
Total Solvent Recovered	Tonnes
Total Solvent Distillate Fuel used	Tonnes

Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Energy usage	Annually	MWh
Other performance parameters	Annually	tonnes per production unit

Media/parameter	Reporting format	Date of form
Air	Form air 1 and 2 or other form as agreed in writing by the Environment Agency	24/05/2012
Water	Form water 1 or other form as agreed in writing by the Environment Agency	24/05/2012
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	24/05/2012
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	24/05/2012

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

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

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

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

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

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	

The dates of any unauthorised emissions from the facility in the preceding 24 months.	
---	--

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“abatement equipment” means that equipment dedicated to the removal of polluting substances from releases from the installation to air or water media.

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

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

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

“bi-annual” means twice per year with at least five months between tests;

“boiler ash” means ash collected in the heat recovery boiler;

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

“emissions to land” includes emissions to groundwater.

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

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

“first put into operation” means that the plant must have been fired with its design fuel up to its full load. This can be, but does not have to be, during commissioning.

“gas oil” includes diesel and is defined in Article 3(19) of the MCPD.

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

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

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

“ISO” means International Standards Organisation.

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

“medium combustion plant” or “MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“new MCP” means an MCP first put into operation on or after 20/12/2018.

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

“quarterly” for reporting/sampling means after/during each 3 month period, January to March; April to June; July to September and October to December and, when sampling, with at least 2 months between each sampling date.

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

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

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“year” means calendar year ending 31 December.

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

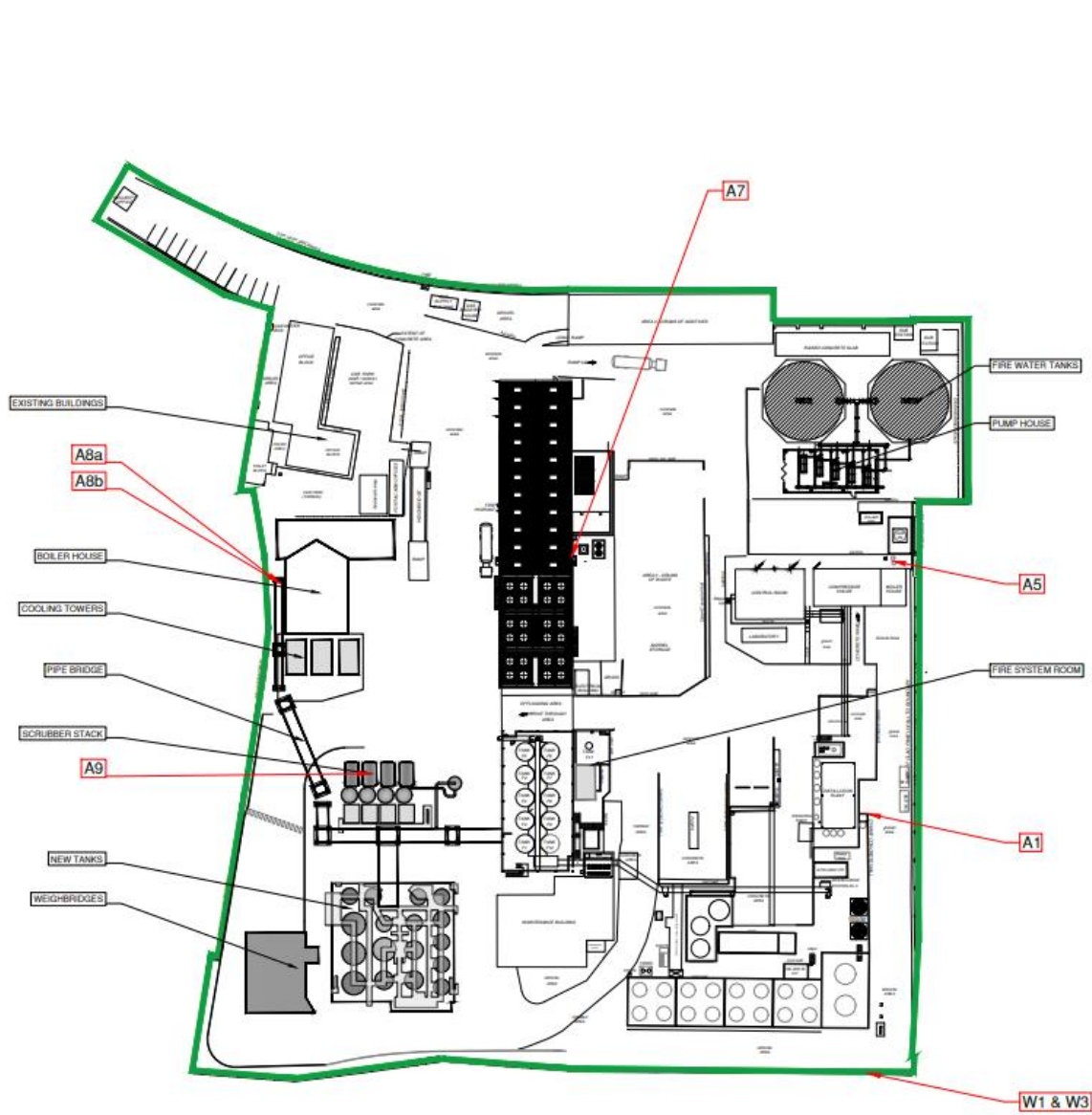
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

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

“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.

Schedule 7 – Site plan



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 6. PLEASE ENSURE DRAWING LICENCE DATE IS STILL VALID. ALL LICENCES ARE 12 MONTH UNLESS OTHERWISE STATED.

PERMIT BOUNDARY

A1	Vent from Scrubber
A5	Boiler Stack
A7	Vent from Scrubber
A8a	Boiler Stack
A8b	Boiler Stack
A9	Vent from Scrubber
W1 & W3	Outfall to receiving watercourse

Rev	Description of revision	Drawn	Chk	App	Date

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Project:
GARSTON DISTILLATION SERVICES

Title:
PERMIT BOUNDARY AND EMISSION POINTS

END OF PERMIT

Permit number
 EPR/FP3133GL