Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Midland Oil Refinery Limited

Midland Oil Refinery
Shelah Road
Halesowen
West Midlands
B63 3PN

Variation application number

EPR/GP3135SD/V008

Permit number

EPR/GP3135SD

Midland Oil Refinery
Permit number EPR/GP3135SD

Introductory note

This introductory note does not form a part of the permit

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. All the conditions of the permit have been varied and are subject to the right of appeal.

This permit variation has been issued to implement guidance “Chemical waste: appropriate measures for permitted facilities”.

Changes introduced by this variation notice/statutory review

The Industrial Emissions Directive (IED) came into force on 7 January 2014 with the requirement to implement all relevant Best Available Techniques (BAT) Conclusions as described in the Commission Implementing Decision. Article 21(3) of the IED requires the Environment Agency to review conditions in permits that it has issued and to ensure that the permit delivers compliance with relevant standards, within four years of the publication of updated decisions on Best Available Techniques (BAT) Conclusions. The BAT Conclusions for Waste Treatment (the BREF) was published on 17 August 2018 following a European Union wide review of BAT, implementing decision (EU) 2018/1147 of 10 August 2018.

On 18 November 2020, Chemical waste: appropriate measures for permitted facilities guidance was published on gov.uk. The guidance explains the standards that are relevant to regulated facilities with an environmental permit to treat or transfer chemical waste, providing indicative BAT for those sites.

This permit variation has been issued to update some of the conditions following a statutory review of the permits in the chemical waste treatment and transfer sector and to implement the appropriate measures guidance. The opportunity has also been taken to consolidate the original permit and subsequent variations where appropriate. The permit has been reviewed against the requirements of the Medium Combustion Plant Directive for 2025 and 2030 and relevant conditions and monitoring requirements have been added.

Brief description of the process

The regulated facility comprises:

- treatment of hazardous waste;
- repackaging of hazardous waste;
- temporary storage of hazardous waste;

Treatment of waste includes:

- recovery of oils by blending or mixing, dewatering, phase separation, gravity settlement, filter press, heating and centrifugation.
- recycling of solvents/organics by distillation, vacuum distillation and the LUWA process*
- recovery of solvents by blending or mixing, dewatering and phase separation*
- recovery of fuels by vacuum distillation, distillation and the LUWA process*

*Activity AR2, involving recovery of organic wastes by distillation, vacuum distillation and the LUWA process, which is subject to Chemical Waste: appropriate measures guidance is non-operational and could not be assessed. The activity has been suspended pending issue of a permit variation as required by pre-operational condition PO1.

Midland Oil Refinery is located on an industrial estate in Halesowen. The installation re-refines waste oils by heating, dehydration (including use of de-emulsifiers), and filtration with the intention of recovering the oils for their previously intended purpose. A smaller quantity of oils are accepted for storage and onward transfer. Historically, the site has also accepted and redistilled solvents for re-use using a distillation procedure and thin-film evaporator solvent recovery system (LUWA). Some fuels were also distilled. A 3MWth boiler fuelled on gas oil, which is an existing medium combustion plant, is used to raise steam.

Emissions to air from the facility are composed of emissions from the combustion plant and emissions of VOCs/odour from the treatment of oils (and solvents). Emissions from treatment vessels used in the oil re-refining process are channelled to a wet scrubber. Emissions from heated tanks are abated using carbon filters.

Waste water from the oil re-refining process and scrubber liquor is collected and sent to collection tanks for transfer off-site. Surface water run-off is collected and discharged to sewer via a tilting plate separator and oil skimmer used to prevent oil contamination. The site is bunded and there are no direct discharges to receiving waters or discharges to land.

There is a geological SSSI within 2km (Bromsgrove Road Cutting) and a Natura site within 10 km (Fens Pools). The River Stour runs close to the site. The Operator has an environmental management system which is accredited to ISO14001 and ISO9001.

The schedules specify the changes made to the permit.

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

Status log of the permit		
Description	**Date**	**Comments**
Application GP3135SD (EPR/GP3135SD/A001) received	31/03/2005	--
Additional information received	09/05/2005 & 12/07/2005	--
Permit GP3135SD (EPR/GP3135SD/A001) determined	17/08/2005	Original permit issued to Midlands Oil Refinery Limited
Variation application WP3533GM (EPR/GP3135SD/V002) received	--	--
Variation WP3533GM (EPR/GP3135SD/V002) determined	30/11/2008	Varied permit issued
Variation application EPR/GP3135SD/V003 received	23/12/2011 & 06/01/2012	Variation application to add waste storage and transfer activity.
Variation EPR/GP3135SD/V003 determined	02/04/2012	
Variation application EPR/GP3135SD/V004	Duly made 30/04/2012	Application to vary permit
Variation determined EPR/GP3135SD/V004	21/05/2012	Varied permit issued
Agency variation determined EPR/GP3135SD/V005	07/01/2014	Agency variation to implement the changes introduced by IED
Application (variation) EPR/GP3135SD/V007	Duly made 30/11/2015	Variation application to add a hazardous waste code and relocate A2 within the installation boundary.

Status log of the permit		
Description	**Date**	**Comments**
Variation determined EPR/GP3135SD/V007 (PAS billing ref ZP3638RX)	05/01/2016	Varied permit issued.
Permit review- Regulation 61 Notice sent to Operator	18/11/2021	Regulation 61 Notice requiring information for statutory review of permit.
Permit review - Regulation 61 Notice response	29/06/2022	Response received from the operator.
Permit Review - Application (variation and consolidation) EPR/GP3135SD/V008	Environment Agency Initiated Variation	Statutory review of permit occasioned by Waste Treatment BAT Conclusions published on 17 August 2018 and Chemical waste: appropriate measures for permitted facilities published 18 November 2020 and
Additional information received in response to Request for information (RFI) dated 03/04/2024	30/05/2024	Further information relating to compliance with the appropriate measures, waste codes, activity flow charts and treatment capacities.
Additional information received in response to Request for information (RFI) dated 05/07/2024	08/08/2024	Further information relating to emissions and abatement, waste codes, MCPs, raw materials, site plans and tank inventory.
Additional information received in response to Request for information (RFI) dated 25/03/2025	06/05/2025	Further information relating to discharge of process effluent and surface water run-off
Environment Agency Waste Treatment Sector Review Permit reviewed Variation determined EPR/GP3135SD/V008	30/07/2025	Varied and consolidated permit issued.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/GP3135SD

Issued to

Midland Oil Refinery Limited ("the operator")

whose registered office is

Shelah Road
Halesowen
West Midlands
B63 3PN

company registration number 04832747.

to operate a regulated facility at

Midland Oil Refinery
Shelah Road
Halesowen
West Midlands
B63 3PN

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

Name	Date
Anne Lloyd	**30/07/2025**

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/GP3135SD

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/GP3135SD/V008 authorising,

Midland Oil Refinery Limited ("the operator"),

whose registered office is

Shelah Road
Halesowen
West Midlands
B63 3PN

company registration number 04832747

to operate an installation at

Midland Oil Refinery
Shelah Road
Halesowen
West Midlands
B63 3PN

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

Name	Date
Anne Lloyd	**30/07/2025**

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

(a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and

(b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

1.2.1 The operator shall:

(a) take appropriate measures to ensure that energy is used efficiently in the activities;

(b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and

(c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

1.3.1 The operator shall:

(a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;

(b) maintain records of raw materials and water used in the activities;

(c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and

(d) take any further appropriate measures identified by a review.

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

1.4.1 The operator shall take appropriate measures to ensure that:

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

(b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

(c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

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 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(s) S2.2, S2.3, S2.4, S2.5; 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 For the following activities referenced in Schedule 1 Table S1.1 (AR5):

(a) the operator must keep periods of start-up and shut down of the combustion plant as short as possible.

(b) there shall be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993.

2.4 Hazardous waste storage and treatment

2.4.1 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.

2.5 Improvement programme

2.5.1 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.

2.5.2 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.

2.6 Pre-operational conditions

2.6.1 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 3.2.

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 3.2;

(b) process monitoring specified in table S3.3.

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

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

3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

3.5.5 For the following activities referenced in schedule 1, table S1.1 (AR5):

(a) For existing MCPs monitoring measurements shall be carried out before the relevant compliance date or within four months of the issue date of the permit whichever is the later.

3.5.6 Monitoring of MCP shall not take place during periods of start-up or shut down.

3.6 Pests

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

3.6.2 The operator shall:

(a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;

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

3.7 Fire prevention

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

3.7.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;

(b) implement the fire prevention plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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) a record of the type and quantity of fuel used and the total annual operating hours for each MCP; and

(d) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

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

(a) in respect of the parameters and emission points specified in schedule 4 table S4.1;

(b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and

(c) giving the information from such results and assessments as may be required by the forms specified in those tables.

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

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

4.3 Notifications

4.3.1 In the event:

(a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—

(i) inform the Environment Agency,

(ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and

(iii) take the measures necessary to prevent further possible incidents or accidents;

(b) of a breach of any permit condition the operator must immediately—

(i) inform the Environment Agency, and

(ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

(c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

(a) any change in the operator's trading name, registered name or registered office address; and

(b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

(a) any change in the operator's name or address; and

(b) any steps taken with a view to the dissolution of the operator.

In any other case:

(a) the death of any of the named operators (where the operator consists of more than one named individual);

(b) any change in the operator's name(s) or address(es); and

(c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

(a) the Environment Agency shall be notified at least 14 days before making the change; and

(b) the notification shall contain a description of the proposed change in operation.

4.3.6 The Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.

4.4 Interpretation

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

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

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
AR1	Section 5.3 Part A (1)(a)(x) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day by oil re-refining or other reuses of oil	Recovery of oils by heating, filtration, centrifugation and phase separation. R9: Oil refining or other re-uses of oil.	From treatment of oils to storage of product oils (end of waste) or waste oils pending further treatment in bulk storage tanks or IBCs/drums in the areas shown in Figures 2a and 2b in Schedule 7 prior to transfer off site. Treatment involves heating of oils in heated tanks and vessels (Pot 1-3, RD 1-10, C4, C6, C9, D21-D25, D38-41, D46), gravity separation in tanks and vessels, clarifying of oil using bentonite and use of de-emulsifiers, filtration and centrifugation in the oil processing building. The following wastes shall not be blended or mixed: • wastes which react with one another • wastes which could be recovered with other wastes if this means that the waste must now be sent for disposal or a lower form of recovery • oils where this could negatively affect their regeneration or recycling • waste to deliberately dilute it Treatment processes shall take place in the dedicated areas specified above on an impermeable surface with sealed drainage. No waste containing CMRs shall be accepted on to site for treatment under this activity. Treated waste and end of waste (product oils and waste oils) shall be stored in bulk storage tanks or IBCs on an impermeable surface with sealed drainage for no longer than 6 months. No more than 50 tonnes of waste oil shall be treated per day through this activity.

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**
			No more than 2,400 tonnes of waste shall be stored on site at any one time. No waste types shall be submitted to this activity other than those hazardous wastes specified in Schedule 2, Table S2.2
AR2	Section 5.3 Part A (1)(a)(v) Disposal or recovery of hazardous waste in a facility with a capacity exceeding 10 tonnes per day by solvent reclamation or regeneration	Recovery of solvents through distillation techniques. R2: Solvent reclamation/regeneration and phase separation.	This activity shall not commence until pre-operational condition PO1 has been completed. From treatment of solvent containing wastes by heating, gravity separation in tanks and vessels, distillation, vacuum distillation, thin-film evaporation (LUWA process) on Site B (Figure 2b in the site plan shown in Schedule 7) to storage of recovered solvents in the tank farm on Site B pending transfer off site. No more than 30 tonnes of hazardous waste shall be treated per day through this activity. The following wastes shall not be blended or mixed: • wastes which react with one another • wastes which could be recovered with other wastes if this means that the waste must now be sent for disposal or a lower form of recovery • oils where this could negatively affect their regeneration or recycling • waste to deliberately dilute it No waste types shall be submitted to this activity other than those wastes specified in Schedule 2, Table 2.3
AR3	Section 5.3 Part A (1)(a)(iv) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day	Repackaging of hazardous waste. R12 Exchange of waste for submission to any of the operations numbered R1 to R11 (repackaging). D14 Repackaging prior to submission to any of the	Repackaging is limited to: • Bulking from one tank to another e.g. drum to tank, drum to IBC. • taking a waste package (for example a bag, jar, drum or box) out of one cart or bulk container (for example a skip) and placing it into another cart

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**
	involving repackaging.	operations numbered D1 to D13.	or bulk container (for example, a skip) • taking a waste package from a cart or bulk container (for example, skip) and placing it onto a pallet or vehicle • taking a waste package from a pallet and placing it into a cart or bulk container (for example, skip) Wastes that are combined together during repackaging activities shall be materially the same and not change the waste's chemical composition or characteristics. Repackaging shall take place in a dedicated area on impermeable surfacing with sealed drainage. Repackaging of waste shall not change either the maximum storage times for waste on site or the amount that can be stored at any one time. No waste types shall be submitted to this activity other than those hazardous wastes specified in Schedule 2, Table S2.4
AR4	Section 5.6 Part A(1)(a) Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes	Temporary storage of hazardous waste 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).	From receipt and storage of hazardous waste on site to its treatment or repackaging on site; or its transfer off-site. The amount of hazardous waste stored on site at any one time shall not exceed 2,400 tonnes in bulk storage tanks and 1,000 tonnes in packaged waste. Waste oils shall be stored in bulk storage tanks or the bays as shown on Figures 2a and 2b in schedule 7. Waste shall be stored on an impermeable surface with sealed drainage. All hazardous wastes shall be stored on site for no longer than 6 months. No waste types shall be submitted to this activity other than those hazardous

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**
			wastes specified in Schedule 2, Table S2.5
Directly Associated Activity			
AR5	Steam from operation of a Schedule 25A Medium Combustion Plant	Use of 3MWth boiler which is an existing MCP fired on gas oil to provide steam.	From receipt and storage of raw materials to use of steam. Limits to the use of raw materials are specified in Table S2.1.
AR6	Collection and discharge of wastewater	Collection of process effluent to transfer off-site.	From generation of process effluent, including scrubber liquor, to collection in tanks D17 and D30 prior to transfer off-site.
		Collection of surface water run-off prior to discharge to sewer via plate separator and oil skimmer.	From collection of surface water run-off in tanks D12, D15, and D18 to discharge to foul sewer via abatement through plate separator and oil skimmer.
AR7	Transfer of re-refining oil	Transfer of re-refining oil (finished product) via pipeline to a neighbouring premises.	From entry of oil into pipeline to point at which pipes leave the installation. Transfer is limited to end of waste oil pending resale as product.
AR8	Container storage	Storage of product oil containers pending re-use.	From the acceptance of returned oil containers originating on site containing minimal oil residues to washing and storage pending re-use (or recycling where re-use is not possible).
AR9	Abatement	Abatement of air emissions using wet scrubbers and carbon filters.	From the input of air to the abatement system to emission to air.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application	The response to questions 2.1 and 2.2 given in documents B2.1 and B2.2 in the application.	31/03/2005
Variation Application EPR/GP3135SD/V003	All Parts	23/12/2011 & 06/01/2012
Variation Application EPR/GP3135SD/V004	Document 1 containing non-technical summary, environmental aspects and risk, new site layout.	27/03/2012
Chemical waste: appropriate measures for permitted facilities	All parts of the appropriate measures guidance shall apply other than:	29/06/2022

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Version published 18 November 2020	• those parts to which an improvement programme requirement applies in Table S1.3 (and only until the date that the improvement has been or must be met, whichever is the earlier)	
Response to RFI dated 03/04/2024	*'Process Flowchart 3 – oil re-refining'* (dated 07/05/2024), *'Activity Code Flow chart 1'* (dated 07/05/2024), '*EA Notice Response V5'* Responses to parts 1,4-8 relating to activities and compliance with the appropriate measures guidance (dated 07/05/2024), *'Process Flowchart 2 – Solvent Processing'* (dated 30/05/2024).	30/05/2024
Response to RFI dated 05/07/2024	'*Tank Capacities MOR'* (dated 08/08/2024), *'MOR action planner'* Responses to parts 1,2,4 and 5 relating to emissions, raw materials and MCP (dated 08/08/24)	08/08/2024
Response to query regarding process effluent discharge dated 25/03/2025	*'site run-off and process effluent email'* (dated 01/04/25), *'PFC 012 Process Flowchart Bulk Feedstock* – Transfer to storage pending disposal (received 01/04/25), P&ID describing route of process effluent to sewer *'20250506144313960'* (received 06/05/25).	06/05/2025

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1 Waste acceptance for CMRs.	The operator shall submit a written procedure to the Environment Agency for assessment and written approval. The procedure must detail the proposed waste acceptance/pre-acceptance criteria that shall be used to prevent the acceptance of waste containing CMRs (as defined in Schedule 6), or acceptance of waste that could result in release of CMRs from treatment, under activity AR1 – oil re-refining. The operator must implement the proposals as agreed with the Environment Agency's written approval.	30/10/2025

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC2 Emissions control procedures for cold storage tanks	The operator shall submit a plan for approval as required by sections 4 and 6.1 of Chemical waste: appropriate measures for permitted facilities (e.g. *6.1.1 You must contain storage tanks, silos and waste treatment plant (including shredders) to make sure you collect, extract and direct all process emissions to an appropriate abatement system for treatment before release)* for the enclosure, extraction and collection installation and maintenance and operation of an abatement system for the reduction of VOCs from the solvent/oil storage tanks on site. The plan shall detail: • the design of the abatement system. • the monitoring measures in place for: - optimising and maintaining the operation. - optimising performance of the abatement system. - identifying optimal regeneration or replacement. • The timescale for implementation. Where an alternative measure is proposed, the plan must contain: • detailed justification, including a risk assessment and cost/benefit analysis as per our guidance Best available techniques: environmental permits - GOV.UK. The plan shall be implemented in accordance with the Environment Agency's written approval.	30/10/2025
IC3 Maintaining carbon filter abatement systems	The operator shall review and update their emissions control measures to ensure that they meet the requirements of the Environment Agency's guidance Chemical waste: appropriate measures for permitted facilities referred to in Table S1.2. Specifically, the operator must demonstrate that the following appropriate measures of the guidance will be met: • 6.1.6 Your procedures must make sure you correctly install, operate, monitor and maintain abatement equipment. For example, this includes monitoring and maintaining: - appropriate flow and chemical concentration of scrubber liquor - the handling and disposal or regeneration of spent scrubber or filter medium The operator shall submit a written procedure for the maintenance of carbon filters used on site to abate emissions of volatile organic compounds. The procedure must contain suitable measures to monitor and maintain the carbon filters such as those referenced in the BAT Reference Document for Common Waste Water and Waste Gas Treatment/Management Systems in the Chemical Sector page 357 as referenced in BAT Reference Document for Waste Treatment. The operator must implement the proposals in the procedure with the Environment Agency's written approval.	30/10/2025

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC4 Waste handling procedures for pipes and transfer lines.	The operator shall review and update their waste storage, segregation and handling procedures to ensure that they meet the requirements of the Environment Agency's guidance Chemical waste: appropriate measures for permitted facilities referred to in Table S1.2. Specifically, the operator must demonstrate that the following appropriate measure of the guidance will be met: • 4.53 *All pipes, hoses, connections, couplings and transfer lines must be fit for purpose and resistant to the wastes being stored. You must use a suitable pipework coding system (for example, RAL European standard colour coding).* A copy of the updated procedure(s) shall be submitted to the Environment Agency for approval.	30/09/2025
IC5 Waste tracking procedures	The operator shall review and update their waste tracking procedures to ensure that they meet the requirements of the Environment Agency's guidance Chemical waste: appropriate measures for permitted facilities referred to in Table S1.2. Specifically, the operator must demonstrate that the following appropriate measures of the guidance will be met: • 3.3.1 *You must use a computerised tracking system to hold up-to-date information about the available capacity of the waste quarantine, reception, general and bulk storage areas of your facility, including treatment residues and end-of-waste product materials.* • 3.3.5 *You must store back-up copies of computer records off site. Records must be easily accessible in an emergency.* A copy of the updated procedure(s) shall be submitted to the Environment Agency for assessment and approval.	30/09/2025

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC6 risk assessment for emissions to air	The operator shall submit a written report to the Environment Agency for assessment and written approval as required by section 6.1 and 7 of Chemical waste: appropriate measures for permitted facilities (e.g. 6.1.3 You must assess the fate and impact of the substances emitted to air, following the Environment Agency's risk assessment methodology). The report must include: a) the results and conclusions from an assessment of the environmental impact of the emissions to air from the emission points listed in Table S3.1 and be carried out using the Environment Agency's 'H1 Environmental Risk Assessment' tool (or equivalent as agreed with the Environment Agency) and/or modelling as required following our guidance: Air emissions risk assessment for your environmental permit - GOV.UK and using the limits stated in Table S3.1 where applicable or the expected 'worst case' emission. Where it is concluded that the impact of the emission may be significant or is exceeding an environment standard, the operator shall: b) Review the limits listed in Table S3.1 and determine whether there is a requirement for emissions limits to be lower in order to prevent exceedance of environmental standards. c) Propose revised emission limits. Where the proposed limits or limits listed in Table S3.1 for any parameter could be exceeded, the report must also include: d) Proposals for measures to mitigate the emission to meet the relevant emission limit such as (additional) abatement and timescales for the implementation of the measures. The proposals shall be implemented within 6 months of approval of the report or as agreed in writing by the Environment Agency	30/01/2026

Table S1.4 Pre-operational measures for future development		
Reference	**Operation**	**Pre-operational measures**
PO1	Recommencement of activity AR2 (solvent recovery) in table S1.1	Prior to the recommencement of activity AR2 authorised by table S1.1, the operator shall apply to the Environment Agency to vary the permit and provide supporting documents in accordance with the requirements of Waste Treatment BAT conclusions and Chemical Wastes: appropriate measures for permitted facilities and other appropriate measures guidance as applicable. The activity will only recommence once the permit variation has been issued by the Environment Agency.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
Gas oil or an equivalent substitute to be agreed in writing by the Environment Agency.	Less than 0.1% sulphur content.

Table S2.2 Permitted waste types and quantities for treatment of hazardous waste by oil re-refining or other re-uses of oil (AR1)	
Maximum quantity	The total quantity of hazardous wastes accepted at this site under this activity shall not exceed 5,000 tonnes per year.
Exclusions	Wastes having any of the following characteristics shall not be accepted: Wastes containing CMRs.
05	**WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL**
05 01	**WASTES FROM PETROLEUM REFINING**
05 01 05*	Oil spills
12	**WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS**
12 01	**WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS**
12 01 06*	Mineral-based machining oils containing halogens (except emulsions and solutions)
12 01 07*	Mineral-based machining oils free of halogens (except emulsions and solutions)
12 01 10*	Synthetic machining oils
12 01 19*	Readily biodegradable machining oil
13	**OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)**
13 01	**WASTE HYDRAULIC OILS**
13 01 09*	Mineral-based chlorinated hydraulic oils
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

Table S2.2 Permitted waste types and quantities for treatment of hazardous waste by oil re-refining or other re-uses of oil (AR1)	
Maximum quantity	The total quantity of hazardous wastes accepted at this site under this activity shall not exceed 5,000 tonnes per year.
Exclusions	Wastes having any of the following characteristics shall not be accepted: Wastes containing CMRs.
13 03	**WASTE INSULATING AND HEAT TRANSMISSION OILS**
13 03 06*	Mineral-based chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01
13 03 07*	Mineral based non-chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01
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 05	**OIL/WATER SEPARATOR CONTENTS**
13 05 06*	Oil from oil/water separators
13 07	**WASTES OF LIQUID FUELS**
13 07 01*	Fuel oil and diesel
13 07 03*	Other fuels (including mixtures)
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 07	**WASTES FROM TRANSPORT TANK, STORAGE TANK AND BARREL CLEANING (EXCEPT 05 AND 13)**
16 07 08*	Wastes containing oil

Table S2.3 Permitted waste types and quantities for treatment of hazardous waste by solvent reclamation or regeneration (AR2).	
Maximum quantity	The total quantity of hazardous wastes accepted at this site under this activity shall not exceed 2,000 tonnes per year.
13 07	**WASTES OF LIQUID FUELS**
13 07 01*	Fuel oil and diesel
13 07 03*	Other fuels (including mixtures)
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**
16 01 13*	Brake fluids
16 01 14*	Antifreeze fluids containing dangerous substances
16 01 15	Antifreeze fluids other than those mentioned in 16 01 14

Table S2.4 Permitted waste types and quantities for bulking and repackaging (AR3).	
Maximum quantity	The total quantity of hazardous wastes accepted at this site under this activity shall not exceed 2,000 tonnes per year.
05	**WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL**
05 01	**WASTES FROM PETROLEUM REFINING**
05 01 05*	Oil spills
12	**WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS**
12 01	**WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS**
12 01 06*	Mineral-based machining oils containing halogens (except emulsions and solutions)
12 01 07*	Mineral-based machining oils free of halogens (except emulsions and solutions)
12 01 10*	Synthetic machining oils
12 01 19*	Readily biodegradable machining oil
13	**OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)**
13 01	**WASTE HYDRAULIC OILS**
13 01 09*	Mineral-based chlorinated hydraulic oils
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 OILS**
13 03 06*	Mineral-based chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01
13 03 07*	Mineral based non-chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01
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 05	**OIL/WATER SEPARATOR CONTENTS**
13 05 06*	Oil from oil/water separators

Table S2.4 Permitted waste types and quantities for bulking and repackaging (AR3).	
Maximum quantity	The total quantity of hazardous wastes accepted at this site under this activity shall not exceed 2,000 tonnes per year.
13 07	**WASTES OF LIQUID FUELS**
13 07 01*	Fuel oil and diesel
13 07 03*	Other fuels (including mixtures)
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**
16 01 13*	Brake fluids
16 01 14*	Antifreeze fluids containing dangerous substances
16 01 15	Antifreeze fluids other than those mentioned in 16 01 14
16 07	**WASTES FROM TRANSPORT TANK, STORAGE TANK AND BARREL CLEANING (EXCEPT 05 AND 13)**
16 07 08*	Wastes containing oil

Table S2.5 Permitted waste types and quantities for temporary storage of hazardous waste (AR4)	
Maximum quantity	The total quantity of hazardous wastes accepted at this site under this activity shall not exceed 10,000 tonnes per year.
05	**WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL**
05 01	**WASTES FROM PETROLEUM REFINING**
05 01 05*	Oil spills
08	**WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS**
08 03	**WASTES FROM MFSU OF PRINTING INKS**
08 03 12*	Waste ink containing dangerous substances
12	**WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS**
12 01	**WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS**
12 01 06*	Mineral-based machining oils containing halogens (except emulsions and solutions)
12 01 07*	Mineral-based machining oils free of halogens (except emulsions and solutions)
12 01 10*	Synthetic machining oils
12 01 14*	Machining sludges containing dangerous substances
12 01 19*	Readily biodegradable machining oil

Table S2.5 Permitted waste types and quantities for temporary storage of hazardous waste (AR4)	
Maximum quantity	The total quantity of hazardous wastes accepted at this site under this activity shall not exceed 10,000 tonnes per year.
13	**OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)**
13 01	**WASTE HYDRAULIC OILS**
13 01 09*	Mineral-based chlorinated hydraulic oils
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 OILS**
13 03 06*	Mineral-based chlorinated insulating and heat transmission oils other than thos mentioned in 13 03 01
13 03 07*	Mineral based non-chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01
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 05	**OIL/WATER SEPARATOR CONTENTS**
13 05 06*	Oil from oil/water separators
13 07	**WASTES OF LIQUID FUELS**
13 07 01*	Fuel oil and diesel
13 07 03*	Other fuels (including mixtures)
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
14 06 05*	Sludges or solid wastes containing other solvents

Table S2.5 Permitted waste types and quantities for temporary storage of hazardous waste (AR4)	
Maximum quantity	The total quantity of hazardous wastes accepted at this site under this activity shall not exceed 10,000 tonnes per year.
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**
16 01 13*	Brake fluids
16 01 14*	Antifreeze fluids containing dangerous substances
16 03	**OFF-SPECIFICATION BATCHES AND UNUSED PRODUCTS**
16 03 05*	Organic wastes containing dangerous substances
16 03 08*	Discarded organic chemicals consisting of or containing dangerous substances
16 07	**WASTES FROM TRANSPORT TANK, STORAGE TANK AND BARREL CLEANING (EXCEPT 05 AND 13)**
16 07 08*	Wastes containing oil

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter (Note 1)**	**Limit (including unit)**	**Reference Period (Note 2)**	**Monitoring frequency**	**Monitoring standard or method**
A1 ["A2" on site plan in Schedule 7]	Emissions from solvent distillation process - LUWA plant vent - via thermal oxidiser	Total Volatile Organic Compounds (TVOCs)	30 mg/m^3 (Note 3)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 7)	EN 12619
		Speciated Volatile Organic Compounds (Note 5)	No limit set			PD CEN/TS 13649
A2 ["A1" on site plan in Schedule 7]	Emissions from oil re-refining process (process vent) via wet scrubber including vessels Pot 1-3, RD1-10.	Total Volatile Organic Compounds (TVOCs)	30 mg/m^3 (Note 4)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 7)	EN 12619
		Speciated Volatile Organic Compounds (Note 5)	No limit set			PD CEN/TS 13649
A6 ["A3" on site plan in Schedule 7]	Boiler 1 fired on gas oil.	Oxides of nitrogen (NO and NO_2).	200 mg/m^3 limit applies from 01/01/2030 (Note 6)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 3 years from date of acceptance of first monitoring measurements under condition 3.1.4	BS EN 14792
		Carbon monoxide	No limit set			BS EN 15058
A7 ["Carbon Pack A5" on site plan in Schedule 7]	Emissions from heated/ oil storage tanks (C4, C6 and C9) abated via carbon filter	Total Volatile Organic Compounds (TVOCs)	30 mg/m^3 (Note 3)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 7)	EN 12619
		Speciated Volatile Organic Compounds (Note 5)	No limit set			PD CEN/TS 13649
A8 ["Carbon Pack A4" on site plan in Schedule 7]	Emissions from heated/ oil storage tanks(D21-25, D38-41, D46) abated	Total Volatile Organic Compounds (TVOCs) (Note 3)	30 mg/m^3	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 7)	EN 12619

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

Emission point ref. & location	Source	Parameter (Note 1)	Limit (including unit)	Reference Period (Note 2)	Monitoring frequency	Monitoring standard or method
	via carbon filter	Speciated Volatile Organic Compounds (Note 5)	No limit set			PD CEN/TS 13649
A9 [Carbon Pack "A7/A8" on site plan in Schedule 7]	Emissions from heated/ oil storage tank (C405) abated via carbon filter	Total Volatile Organic Compounds (TVOCs) (Note 3)	30 mg/m^3	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 7)	EN 12619
		Speciated Volatile Organic Compounds (Note 5)	No limit set			PD CEN/TS 13649
A10 [Carbon Pack "A10" on site plan in Schedule 7]	Emissions from heated/ oil storage tanks (#B1-B3) abated via carbon filter	Total Volatile Organic Compounds (TVOCs) (Note 3)	30 mg/m^3	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 7)	EN 12619
		Speciated Volatile Organic Compounds (Note 5)	No limit set			PD CEN/TS 13649
A11+ Vents on cold storage tanks labelled on site plan in Schedule 7 and listed in *Tank Capacities MOR.docx* dated 08/08/2024.	Waste oil/product cold storage tank.	No parameter set	No limit set	-	-	-

Note 1: In addition, the operator shall also monitor for relevant waste gas parameters as required: flow, temperature, average concentration/load values of relevant substances (e.g. organic compounds, POPs such as PCBs) flammability, lower and upper explosive limits, reactivity and other substances which may affect gas treatment or plant safety (e.g. oxygen, nitrogen, water vapour, dust).

Note 2: To the extent possible, the measurements shall be carried out at the highest expected emission state under normal operating conditions.

Note 3: This limit does not apply if there are no carcinogenic, mutagenic or toxic for reproduction (CMR) substances present in the emission and the emission load is below 2 kg/h at the emission point.

Note 4: The limit of 50 mg/Nm^3 instead of 30mg/Nm^3 applies if there are no carcinogenic, mutagenic or toxic for reproduction (CMR) substances present in the emission and the emission load is below 2 kg/h at the emission point.

Note 5: All speciated VOCs and their concentrations shall be reported.

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter (Note 1)**	**Limit (including unit)**	**Reference Period (Note 2)**	**Monitoring frequency**	**Monitoring standard or method**
Note 6: Monitoring limits 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 15% for engines and gas turbines and 3% and all other MCPs Note 7: Monitoring frequencies may be reduced with the written agreement of the Environment Agency if emission levels are proven to be sufficiently stable						

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**	**Monitoring standard or method**
S1 [on site plan in schedule 7] Emission to River Stour via Roundhill WasteWater Treatment Works operated by Severn Trent Water Limited	Surface water run-off	Oil and grease	None visible	-	Daily	Visual assessment

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other Specifications**
Carbon filters on emission points A7 – A10 serving heated oil tanks and any additional abatement fitted upon conclusion of IC2.	Efficiency assessment	As specified in the agreed abatement plan.	Carbon filter(s) shall be installed, maintained, operated and replaced in accordance with the manufacturer's recommendations and with the agreed abatement plan outlined in IC3.	-

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**	**First period begins**
Emissions to air Parameters as required by condition 3.5.1.	A1, A2, A7-A10	Every 6 months	1 January
	A6	Every 3 years from date of acceptance of first monitoring measurements under condition 3.1.4	1 January

Table S4.2 Annual production/treatment	
Parameter	**Units**
Hazardous waste treated - Recovery	tonnes
End of waste produced	tonnes

Table S4.3 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Water usage	Annually	cubic metres
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Emissions to air	Emissions to Air Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Emissions to Sewer	Emissions to Sewer Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Water usage	Water Usage Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Energy usage	Energy Usage Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Other performance indicators	Other Performance Parameters Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

(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

Use the following as needed – black is general use, red is potential use (if the site does not do activity then delete)

“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.

“blending or mixing” is the combination of wastes (other than repackaging) of the same general type (for example non-halogenated solvents or acids) having similar characteristics, in a container or bulk vessel or tank, where there is neither reaction of the mixed wastes nor evolution of gas.

“building” is a covered structure enclosed on all vertical sides that provides sheltered cover and contains emissions of, for example, noise, particulate matter, odour and litter.

“CMR” means substances that are carcinogenic, mutagenic or toxic for reproduction in accordance with UK REACH, that is substances with classifications category 1A H340, H350, H360, category 1B H340, H350, H360, category 2 H341, H351, H361.

“compliance date” means 01/01/2025 for existing MCPs with net rated thermal input of greater than 5MWth or 01/01/2030 for existing MCPs with a net rated thermal input of less than or equal to 5MWth.

“container” is a receptacle for waste for example bags, bins, boxes, drums, IBCs and blister packs. Wastes may be packaged in more than one receptacle for example a bag in a box.

“D” means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on Waste.

“disposal” means any of the operations provided for in Annex I to the Waste Framework Directive.

“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 these standard rules or from other localised or diffuse sources, which are not controlled by an emission or background concentration limits.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“existing medium combustion plant” means an MCP in operation before 20 December 2018.

“fugitive emission” means an emission to air, water or land from the activities which is not controlled by an emission limit.

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

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

“impermeable surface” means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

“Leak detection and repair (LDAR) programme’’ means a structured approach to reduce fugitive emissions of organic compounds by detection and subsequent repair or replacement of leaking components. Currently, sniffing (described by EN 15446) and optical gas imaging methods are available for the identification of leaks under BAT 14 and section 6.2 of the Waste Treatment BAT Conclusions, Aug 2018.

“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.

“operating hours” means the time, expressed in hours, during which a combustion plant is operating and discharging emissions into the air, excluding start-up and shut-down periods.

“pests” means birds, vermin and insects.

“pollution” includes pollution of the environment, harm to human health and serious detriment to the amenities of the locality, resulting from the permitted activities.

“POPs” means persistent organic pollutants, which are the substances listed in Annexes I and II of the retained Regulation (EU) 2019/1021 as amended by The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020/1358 and The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2022/1293.

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

“R” means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on Waste.

“recovery” means any of the operations provided for in Annex II to the Waste Framework Directive.

“sealed container” for the purposes of this permit, means a container which is fully enclosed, weather proof, does not allow any solid or liquid content to escape and is lockable.

“sealed drainage” in relation to an impermeable surface means a drainage system with impermeable components which does not leak and which will ensure that:

- no liquid will run off the surface otherwise than via the system
- except where they may lawfully be discharged to foul sewer, all liquids entering the system are collected in a sealed sump

“volatile organic compound” (VOC) means any organic compound as well as the fraction of creosote, having at 293.15 K a vapour pressure of 0.01 kPa or more, or having a corresponding volatility under the particular conditions of use.

“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.

Schedule 7 – Site plan

Figure 1: Site location and permit boundary

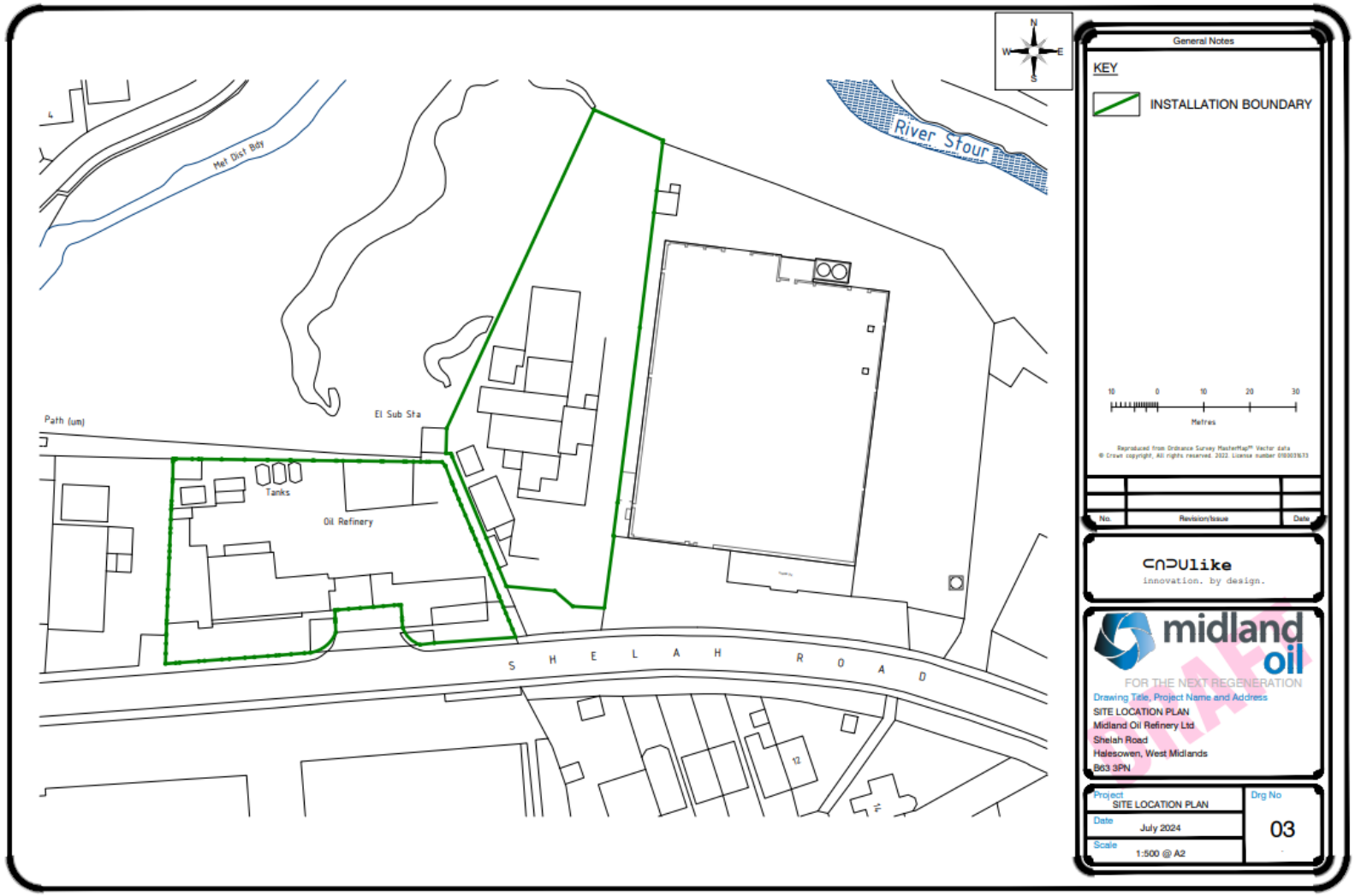


Figure 2a: **Site Layout Plan including emission points (Site A – Midland Oil Refinery)**

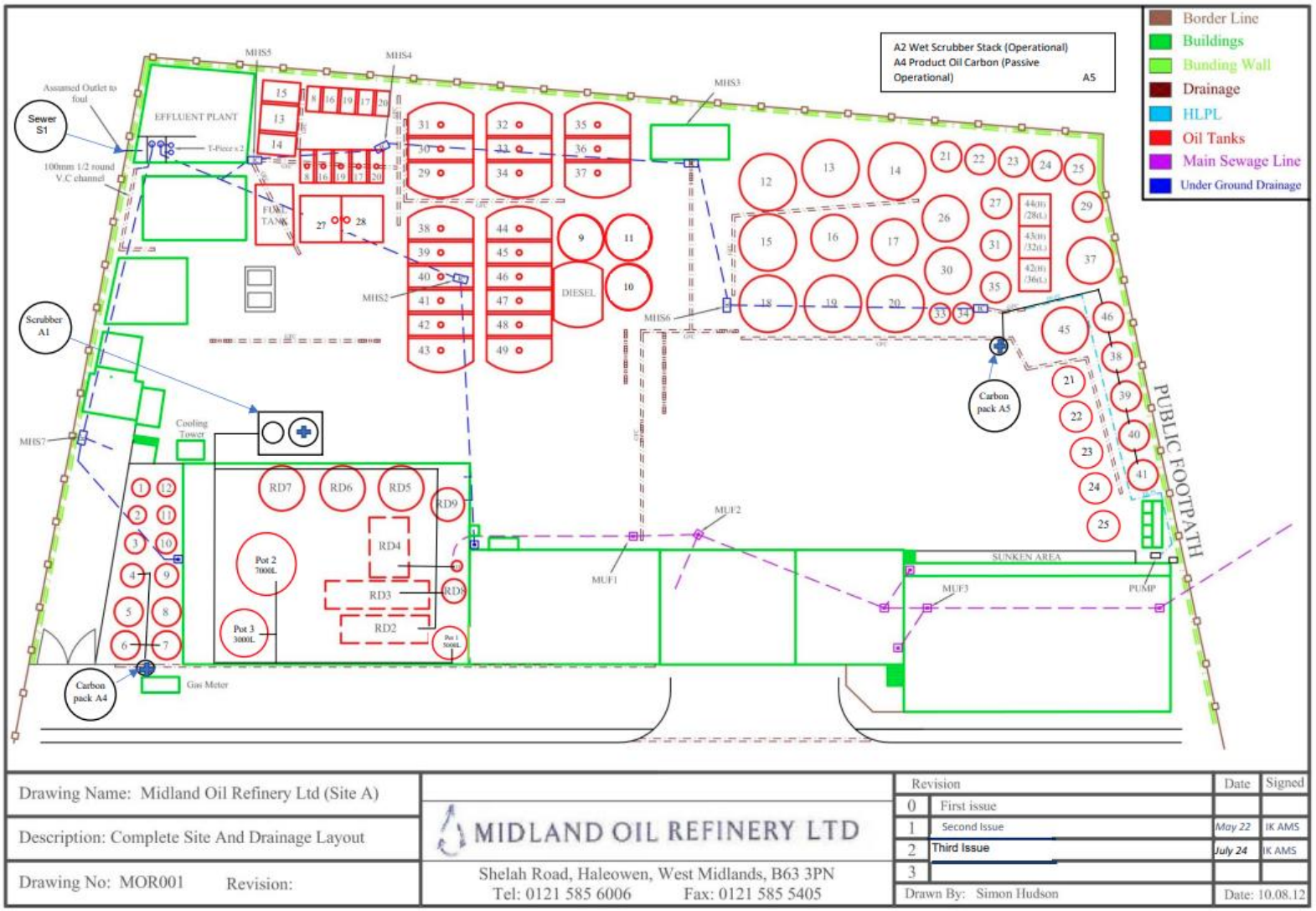
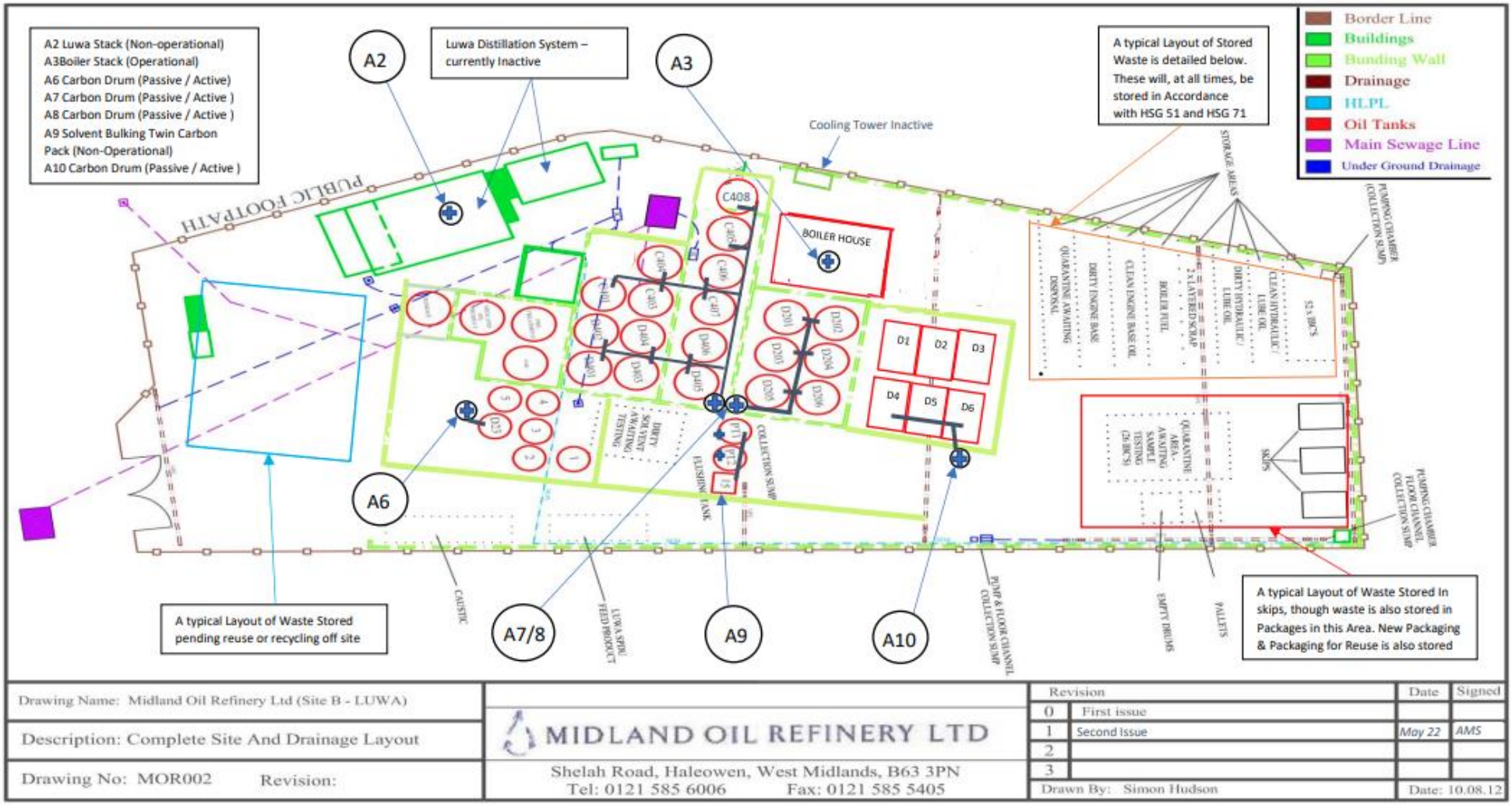


Figure 2b: **Site Layout Plan including emission points (Site B –LUWA)**



END OF PERMIT