



Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

ProAmpac Grimsby Ltd

Pegasus Way

Europarc

Grimsby

North East Lincolnshire

DN37 9TS

Variation application number

VAR/EP/200200062/V2

Permit number

EP/200200062/V2

ProAmpac Grimsby Ltd

Permit number EP/200200062/V2

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 2 of the notice 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.

Article 21(3) of the Industrial Emissions Directive (IED) requires the Regulator 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. We have reviewed the permit for this installation against the revised BAT Conclusions for surface treatment using organic solvents including preservation of wood and wood products with chemicals published on 9th December 2020. Only activities covered by this BAT Reference Document have been reviewed and assessed.

A change of company name from Ultimate Packaging Ltd to ProAmpac Grimsby Ltd is also required.

This variation varies the Permit in its entirety following the review under Article 21(3) of the IED and the consolidation of the Environmental Permitting Regulations that came into force on the 4 January 2017:

The operator has elected to meet BAT AELs in Tables 29 & 30.

Revised emission limits and monitoring requirements for emissions to air applicable from 9th December 2024 have been included in table S3.1 and S3.3

Brief description of the process

ProAmpac Grimsby Ltd carry out a surface treating substances, objects or products using organic solvents, in particular flexographic printing in plant with a consumption capacity of more than 150kg or more per hour than 200 tonnes per year as prescribed under Schedule 1, part 2 Section 6.4, Part A(2) or the Environmental Permitting (England and Wales) Regulations 2016.

ProAmpac Grimsby Ltd undertake flexographic and digital printing, lamination and conversion of flexible plastic packaging in reel and bag form, primarily for the food industry.

Ink is mixed with solvents via a computerised dispensing system that sends the mixture directly to the printers. All contaminated inks and solvents are processed through the solvent recovery system. Recovered solvent is reused in the processing.

The company currently has a throughput of VOC of over 500 tonnes per annum.

The principal releases from the site includes VOC, NO and CO which are emitted via a stack from a Donau Carbon Regenerative Thermal Oxidiser. The Donau Carbon abatement plant is a 3-tower regenerative thermal oxidiser (RTO) rated at 35,000Nm³/h airflow capacity. Other releases include fugitive VOC and energy usage.

The installation is within a mixed industrial and commercial area with the nearest sensitive receptor being approximately 900m away. The nearest Sites of Special Scientific interest is approximately 1.2km away.

An EMS is in place, the EMS is certified to ISO 14001:2015.

ProAmpac Grimsby Ltd (the Installation) is operated by ProAmpac Grimsby Ltd and is located in Grimsby, North East Lincolnshire, England.

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 for an A2 solvent coating activity namely flexographic printing	Duly made 08/12/2006	
Permit determined EP/200200062	31/03/2006	A2 Permit issued to Ultimate Packaging Ltd.
Variation Notice Issued and consolidated permit REF: EP/200200062/V1	15/01/2019	Variation to Permit conditions
Regulation 61 Notice sent to the Operator	01/03/2022	Issue of a Notice under Regulation 61(1) of the EPR. North East Lincolnshire Council initiated review and variation to vary the permit under IED to implement Chapter II following the publication of the revised Best Available Techniques (BAT) Reference Document for surface treatment using organic solvents including preservation of wood and wood products with chemicals.
Regulation 61 Notice response.	14/07/2022	Response received from the Operator.
Variation determined	16/01/2023	Statutory review of permit – surface treatment using organic solvents including preservation of wood and wood products with chemicals BAT Conclusions published 9/12/2020 Change of company name from Ultimate Packaging Ltd to ProAmpac Grimsby Ltd Varied and consolidated permit issued. Effective from 20/01/2023

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

North East Lincolnshire Council (the Regulator) in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

Permit number

EP/200200062/V2

Issued to

ProAmpac Grimsby Ltd (“the operator”)

whose registered office is

Pegasus Way

Europarc

Grimsby

North East Lincolnshire

DN37 9TS

Company registration number **01625575**

to operate a regulated facility at

ProAmpac Grimsby Ltd

Pegasus Way

Europarc


Grimsby

North East Lincolnshire

DN37 9TS

to the extent set out in the schedules.

The notice shall take effect from 20/01/2023

	Date
Signed	16/01/2023
Name	Date
Mr Adrian Moody Licensing & Environmental Protection Manager	16/01/2023

Authorised on behalf of North East Lincolnshire Council

Schedule 1

All conditions have been varied by the consolidated permit as a result of a Regulator initiated variation

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EP/200200062/V2

This is the consolidated permit referred to in the variation and consolidation notice for application EP/200200062/V2 authorising,

ProAmpac Grimsby Ltd (“the operator”),

whose registered office is

ProAmpac Grimsby Ltd

Pegasus Way

Europarc

Grimsby

North East Lincolnshire

DN37 9TS

Company registration number **01625575**

to operate an installation at

ProAmpac Grimsby Ltd

Pegasus Way


Europarc

Grimsby

North East Lincolnshire

DN37 9TS

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

	Date
Signed	16/01/2023
Name	Date
Mr Adrian Moody Licensing & Environmental Protection Manager	16/01/2023

Authorised on behalf of North East Lincolnshire Council

ACTIVITY DESCRIPTION

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The principal releases from the site includes VOC, NO and CO which are emitted via a stack from a Donau Carbon Regenerative Thermal Oxidiser. The Donau Carbon abatement plant is a 3-tower regenerative thermal oxidiser (RTO) rated at 35,000Nm³/h airflow capacity. Other releases include fugitive VOC and energy usage.

Printing presses

There are 6 printing presses at the site as follows:

- F&K 4
- F&K 5
- F&K 6
- F&K 7
- F&K 8
- The 6th press (SOMA) that only runs if one or more of the other presses are out of production

The Abatement plant

The Donau Carbon RTO is located externally to the main building; this is to permit ease of access for maintenance and periodic monitoring.

The process exhaust passes through the oxidiser via a hot ceramic bed where it absorbs stored heat raising the temperature to near combustion temperature. The hot gases pass through the bed where they are oxidised at around 800-820°C. The solvents from the presses in the airstream add thermal energy to the oxidization process enabling an exothermic reaction. If there is sufficient combined energy from the internal heat recovery and solvent, then the burner will switch off. This is known as an autothermal or self-sustaining condition where the combustion chamber temperature is maintained without the burner.

The air is held at the controlled temperature in the bed for the required residence time. The air path cycles up or down through a bed of ceramic media where it is heated then gives up its heat for recovery during the next cycle, leaving the oxidiser around 40-500°C hotter than it entered. At the end of this cycle the outlet bed is hot, and the inlet bed is now cooler. The cycle is therefore reversed periodically (around 2 – 2½ minutes) in order to maintain equilibrium and to keep the regenerated heat within the oxidiser plant.

The RTO fan speed varies depending on the loading from the printing presses. With low loading, the energy efficiency and oxidization efficiency increase accordingly.

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.

1.2 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”).

2.2 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 For the activities referenced in schedule 1, table S1.1 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 Regulator.
- 2.3.2 If notified by the Regulator that the activities are giving rise to pollution, the operator shall submit to the Regulator 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 Regulator.
- 2.3.3 The operator shall
- (a) identify the process areas, sections or steps that make the greatest contribution to VOC emissions and energy consumption, which have the greatest potential for improvement;
 - (b) identify and implement actions to minimise VOC emissions and energy consumption;
 - (c) review progress and update actions on an annual basis.
- 2.3.4 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.
- 2.3.5 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.

2.4 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 Regulator.

- 2.4.2 Except in the case of an improvement which consists only of a submission to the Regulator, the operator shall notify the Regulator within 14 days of completion of each improvement.

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 Total and fugitive annual emissions from the emission point set out in schedule 3 table S3.1, of a substance-listed in schedule 3 table S3.3 shall not exceed the relevant limit in table S3.3.
- 3.1.4 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.
- 3.1.5 The operator shall
- (a) maximise the availability and performance of equipment critical to the protection of the environment;
 - (b) record all periods of other than normal operation, their cause and duration and where possible their effect on emissions.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances and mixtures 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 Regulator that the activities are giving rise to pollution, submit to the Regulator 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 Regulator.
- 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 Monitoring

- 3.3.1 The operator shall, unless otherwise agreed in writing by the Regulator, monitor total and fugitive VOC emissions by compiling, at least on an annual basis, a solvent mass balance of the solvent inputs and outputs of the plant, as defined in Part 7(2) of Annex VII to Directive 2010/75/EU.

The solvent mass balance shall include:

- identification and documentation of solvent inputs and outputs, (e.g. emissions in waste gases, emissions from each fugitive emission source, solvent output in waste);

- substantiated quantification of each relevant solvent input and output and recording of the methodology used (e.g. measurement, calculation using emission factors, estimation based on operational parameters);
- identification of the main sources of uncertainty of the aforementioned quantification, and implementation of corrective actions to reduce the uncertainty;
- regular update of solvent input and output data.

The solvent mass balance calculation methodology shall be agreed in writing by the Regulator.

3.3.2 The operator shall, unless otherwise agreed in writing by the Regulator, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in tables S3.1.
- (b) surface water or groundwater specified in table S3.4
- (c) process monitoring specified in table S3.5;
- (d) land monitoring specified in table S3.6

3.3.3 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.

3.3.4 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.2 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Regulator.

3.3.5 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 table S3.1 unless otherwise agreed in writing by the Regulator.

3.4 Odour

3.4.1 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 Regulator, 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.

3.4.2 The operator shall:

- (a) if notified by the Regulator that the activities are giving rise to pollution outside the site due to odour, submit to the Regulator 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 Regulator.

3.5 Noise and vibration

3.5.1 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 Regulator, 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.

3.5.2 The operator shall:

- (a) if notified by the Regulator that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Regulator 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 Regulator.

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 Regulator, 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 Regulator.

4.2 Reporting

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

4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Regulator, 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.

4.2.3 A report or reports on the performance of the activities over the previous year shall be submitted to the Regulator by 31 January (or other date agreed in writing by the Regulator) 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.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Regulator, 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 The operator shall submit an annual solvent management plan in order to demonstrate compliance with the requirements of the Industrial Emissions Directive, by 31 January each year in respect of the previous year.

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 Regulator,
 - (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 Regulator, 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 Regulator 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 Regulator when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Regulator at least 14 days before the date the monitoring is to be undertaken.

- 4.3.4 The Regulator 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:

- (c) any change in the operator's name or address; and
- (d) 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 Regulator 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 Regulator 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 Regulator 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 listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
S6.4 A(2) (a)	Surface treating substances, objects or products using organic solvents, in particular for dressing, printing, coating, degreasing, waterproofing, sizing, painting, cleaning or impregnating, in plant with a consumption capacity of more than 150kg or more per hour than 200 tonnes per year.	Receipt of raw materials to application of solvents and adhesives onto substrates to produce final composite product
Directly Associated Activities		
Storage and handling of raw materials	Storage of solid and liquid materials in bulk storage tanks, drums, IBCs, bags and other containers	Receipt and storage of raw materials to transfer to process areas
Storage, handling and dispatch of intermediates, finished products, waste & other materials	Storage of intermediates and finished products. Process waste segregation and storage	Internal & external storage of finished products, storage of waste in designated areas and loading for transit off site
Control & abatement systems for emissions to air	Abatement of releases to air	Extraction and collection of waste gases and treatment in a thermal oxidiser
Cleaning	Cleaning using solvents or solvent contaminated parts	Storage and application of cleaning solvents
Ink recovery unit	Conversion of waste solvents into usable print wash grade solvent.	Only solvents used in process

Table S1.2 Operating techniques

Description	Parts	Date Received
Review of Environmental Management System	QSE&P Manual	28/09/22
	Summary of BAT review (BAT 1, 2, and 13)	14/07/22
	Section 20 Environmental Aspects & Control	15/07/22
BAT Reviews	Summary of BAT review (BAT 3, 4 and 5)	14/07//2022
	Summary of BAT review (BAT 6 to 9)	14/07/2022
	Summary of the BAT review (BAT 14 to 17) and Section 12 Table 29 and Table 30.	14/07/2022
Energy Efficiency	Energy Efficiency Plan (BAT 19a) Summary of BAT review & submitted additional documents	14/07/2022
Waste Management	Summary of the BAT review (BAT 22)	14/07/2022

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IP1	The operator will review their Environmental Management System (EMS) against the requirements of BAT 1 of the STS BAT Conclusions. The operator will produce and implement an action plan to address those improvements required as a result of the review.	09/12/2024
IP2	The operator shall submit for approval a management plan for the prevention and control of leaks and spillages, which meets the requirements of BAT 5 of the STS BAT conclusions.	09/12/2024
IP3	The operator will carry out a review of energy efficiency (as described in condition 1.2.1 (b)), taking account of BAT 19 and Table 18.3 of the STS BAT conclusions.	09/12/2024
IP4	The operator will carry out a review of the avoidance, recovery and disposal of wastes (as described in condition 1.4.1 & 1.4.2), taking account of BAT 22 of the STS BAT conclusions.	09/12/2024
IP5	Within 6 months from the date of this Permit, and in accordance with Condition 3.1.4, The operator of the installation shall devise and submit a detailed groundwater monitoring plan. The monitoring plan shall be devised at least three months in advance of carrying out the monitoring and shall include locations at which monitoring is to be carried out and the methodology which shall be used. This exercise shall be repeated at least once every 5 years. This is a requirement of Article 16 of the Industrial Emissions Directive 2010/75/EU	Within 6 months of the date of this Permit
IP6	Once the plan required in IP5 is approved by the Regulator, the operator shall instigate the monitoring plan and report the results to the council. <ul style="list-style-type: none"> • interpretation of the results with reference to previous monitoring undertaking (including the site and where applicable baseline reports) and operations at the permitted installation; • details of corrective actions that are required to protect groundwater and remedy any contamination that has occurred as a result of permitted activities. <p>This exercise shall be repeated at least once every 5 years in accordance with Condition 3.1.4</p>	6 months after approval of plan detailed in IP5
IP7	Within 6 months from the date of this Permit, the operator of the installation shall devise and submit a detailed soil monitoring plan. The monitoring plan shall be devised at least three months in advance of carrying out the monitoring and shall include locations at which monitoring is to be carried out and the methodology which shall be used.	Within 6 months of issued permit.
IP8	The monitoring plan required by Condition IP7 shall detail chemicals used at the installation over the previous 10 years, identifying the substances hazardous to the environment and the analysis proposed to be undertaken. It shall also contain details and locations of where it is proposed to undertake the monitoring.	Within 6 months of issued permit.
IP9	Once the plans required by IP7 and IP8 are approved by Regulator the operator shall instigate the monitoring plan and report the results to the	Within 6 months of issued permit and at least once

Reference	Requirement	Date
	<p>Regulator no later than 8 weeks after the monitoring has been undertaken. The report shall include:</p> <ul style="list-style-type: none"> • interpretation of the results with reference to previous monitoring undertaken (including the site and where applicable baseline reports) and operations at the permitted installation; • details of corrective actions that are required to protect groundwater and remedy any contamination that has occurred as a result of permitted activities. • This exercise shall be repeated at least once every 10 years. 	every 10 years thereafter.
IP10	<p>The operator shall submit for approval a baseline report to both assess the current state of the site of the installation and propose a satisfactory programme of monitoring and risk management where the process involves the use, production or release of hazardous substances as defined by Article 3(18) of the Industrial Emissions Directive. The report shall follow both the revised H5 guidance on Site Condition reports and the Defra guidance baseline report- Defra guidance – Industrial emissions Directive EPR guidance on Part A installations (section 5.10-5.15, pages 28-29)</p>	Within 6 months of issued permit.
IP11	<p>The operator shall submit, for approval within 6 months, a report setting out progress to achieving the BAT conclusion AELs where BAT is currently not achieved, but will be achieved before 9/12/2024. The report shall include, but not be limited to, the following:</p> <ol style="list-style-type: none"> 1. Current performance against BATc AEL 2. Methodology for reaching the AELs 3. Associated targets/ timelines for reaching compliance by 9/12/2024 4. Any alterations to the initial plan 	Within 6 months of issued permit

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels

Raw materials and fuel description	Specification
None specified	

Schedule 3 – Emissions and monitoring

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

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 Point A1 on site layout plan in Schedule 7.2	Thermal Oxidiser	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	100mg/Nm ³	Average over the sampling period	Minimum of once per year	BS EN 14792
A1 Point A1 on site layout plan in Schedule 7.2	Thermal Oxidiser	Carbon monoxide	100mg/Nm ³	Average over the sampling period	Minimum of once per year	BS EN 15058
A1 Point A1 on site layout plan in Schedule 7.2	Thermal Oxidiser	TVOC	50 mg/Nm ³ Until 09 December 2022. Then 20mg/Nm ³ there after.	Daily Average	Continuous if mass emission is ≥ 10 kg C/h	BS EN 15267-3 [Note 1]
A1 Point A1 on site layout plan in Schedule 7.2	Thermal Oxidiser	TVOC	50 mg/Nm ³ Until 09 December 2022. Then 20mg/Nm ³ there after.	Average over the sampling period	Minimum of once per year if mass emission is 0.1 to 10 kg C/h	BS EN 12619
A1 Point A1 on site layout plan in Schedule 7.2	Thermal Oxidiser	TVOC	50 mg/Nm ³ Until 09 December 2022. Then 20mg/Nm ³ there after.	Average over the sampling period	Once every 3 years if mass emission is < 0.1 kg C/h	BS EN 12619

Note 1: Certification to the MCERTS performance standards indicates compliance with BS EN 15267-3

Table S3.2 Point source emission to sewer

Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
Discharge point for floor washing	None set	Waste water from floor washing	None	None	None	None

Table S3.3 Annual limits for total and fugitive emissions

Substance	Medium	Limit (including unit)
TVOC	Fugitive	< 12% of the solvent input

Table S3.4 Groundwater monitoring requirements

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
At positions identified from the baseline report – across site boundary	Invertebrate kick sampling	Within 6 months and every 5 years thereafter	Environment Agency Ecology Sampling Manual BT001	

Table S3.5 Process monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Thermal oxidiser	Combustion Temperature	Continuous	800 °C	Automated burner switch on if temperature drops below 795°C. Automatic shut off in event burner fails.

Table S3.6 Land monitoring requirements

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Across site boundary	Contamination to land e.g. Metalloids, Organics, Asbestos, soil organic matter and pH.	Within 6 months and every 10 years thereafter	BS 5930:2015+A1:2020 Monitoring Certification Scheme (MCERTS)	

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.3.2.	A1,	Every 12 months	January
Ground water monitoring Parameters as required by condition 3.3.2	As detailed in the groundwater plan required in accordance with IP5	Every 5 Years	Within 6 months of date of this Permit
Land monitoring Parameters as required by condition 3.3.2	As detailed in the plan required in accordance with IP8	Every 10 years	Within 6 months of the date of this Permit

Table S4.2 Annual production/treatment

Parameter	Units
Solvent Consumption	Tonnes
Solvent Mass Balance (SMB) as required by condition 3.3.1.	As required in SMB.

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Specific energy consumption 350 Wh/m ² of printed area	Annually	Wh/m ² of printed area

Table S4.4 Reporting forms

Parameter	Reporting form	Form version number and date
Point source emissions to air	Emissions to Air Reporting Form, or other form as agreed in writing by the Regulator	Version 1, 08/03/2021
Surface water and/or groundwater monitoring	Surface Water and/or Groundwater Monitoring Form, or other form as agreed in writing by the Regulator	Version 1, 08/03/2021
Process monitoring	Process Monitoring Form, or other form as agreed in writing by the Regulator	Version 1, 08/03/2021
Water usage	Water Usage Reporting Form, or other form as agreed in writing by the Regulator	Version 1, 08/03/2021
Energy usage	Energy Usage Reporting Form, or other form as agreed in writing by the Regulator	Version 1, 08/03/2021
Other performance parameters	Other Performance Parameters Reporting Form, or other form as agreed in writing by the Regulator	Version 1, 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 or uncertainty	

Date and time of monitoring	
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(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

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 with 24 hours of detection	
Description of where the effect on the environment was detected	
Substance(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 North Lincolnshire Council, the regulator under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

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

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

“calendar monthly mean” means the value across a calendar month of all validated hourly means.

“CEM” Continuous emission monitor

“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.

“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.

“emissions to land” includes emissions to groundwater.

“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 No.894, the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138), the List of Wastes (England) Regulations 2005 No.895 and the List of Wastes (Wales) Regulations 2005 No. 1820 (W.148).

“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.

“ISO” means International Standards Organisation.

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

“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.

“SI” means site inspector.

“Organic Compound” means any compound containing at least the element carbon and one or more of hydrogen, halogens, oxygen, sulphur, phosphorus, silicon or nitrogen, with the exception of carbon oxides and inorganic carbonates and bicarbonates.

“Volatile Organic Compound” (VOC) means any organic compound 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 (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, 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.

“year” means calendar year ending 31 December.

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

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

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

Schedule 7 – Site plan

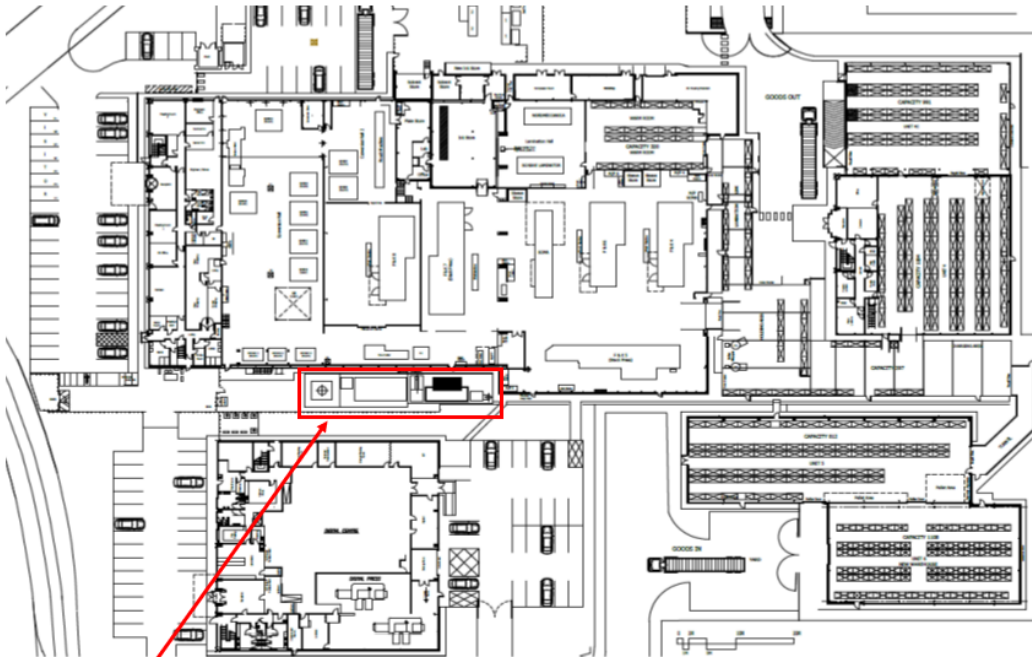
7.1 – Site plan



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7.2 Site layout plan (showing A1 monitoring location)

ProAmpac Grimsby emissions testing locations



Oxidiser site location



Emission monitoring point A1. Post treatment test point



END OF PERMIT