

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Dunton Technologies Limited
Ellesmere Port Waste Treatment Facility
North Road
Ellesmere Port
CH65 1BL

Permit number

EPR/HP3403BL

Ellesmere Port Waste Treatment Facility

Permit number EPR/HP3403BL

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The environment permit allows Dunton Technologies Limited to operate a Hazardous Waste Treatment Facility for the following installation activities at the Ellesmere Port Waste Treatment Facility:

- Section 5.3 Part A (1) (a) (i) - Biological treatment of hazardous waste soils by bioremediation;
- Section 5.3 Part A (1) (a) (vi) - Physico-chemical treatment of hazardous waste soils (asbestos picking); and
- Section 5.6 Part A (1) (a) – Temporary storage of hazardous waste pending treatment.

In addition, the following Directly Associated Activities will be undertaken:-

- Screening of waste in a box screener prior to treatment;
- Storage of wastes after treatment;
- Collection and storage of process wastewater prior to dispatch for treatment off-site;
- Collection and storage of clean uncontaminated water prior to discharge or re-use on site; and
- On-site storage of fuel and raw materials.

The Ellesmere Port Waste Treatment Facility is located approximately 11.5 km North of Chester and within the Ellesmere Port area. The site is approximately 1,000 m North-North-East of the Ellesmere Golf Course and is centred on National Grid Reference (NGR) SJ 38346 79020. Access for staff and visitors to the site is achieved via an unnamed access road off North Street to the south of the site. Heavy Goods Vehicles (HGVs) access is via the M53, which is also to the south of the site. The immediate surroundings of the site largely comprise an industrial setting with the nearest residential dwelling located approximately 1,000m south of the site, off Carlton Crescent.

A Nature and Heritage Conservation Screening shows that there are designated habitat sites around the permitted facility within the relevant screening distances. The operator has proposed control measures which are compliant with the Best Available Techniques (BAT) as specified in the Waste Treatment BAT Conclusions.

Wastes are brought to the site in covered HGVs and are subjected to acceptance checks in line with the site's pre-acceptance, acceptance and rejection procedures. Once accepted, the wastes are moved to the reception area from where they are sorted (depending on composition and destined treatment process) into bioremediation or asbestos picking treatment process.

Wastes that are designated for bioremediation are prepared and conditioned with nutrient and bacteria (if required) at the reception area. Once conditioned, the waste is moved to the pre-assigned engineered biopile on the same day that it was received. The biopiles are fully covered with HDPE materials and are aerated through a network of perforated pipes installed beneath and within the biopiles. The aeration pipes are linked to a high-performance pump/blower that allows air to be drawn through the biopile. The operation of the blower ensures that there is effective control of the oxygen levels and moisture content in the waste in order to maintain aerobic conditions. By drawing air from the biopiles, the air extraction systems help to maintain the biopiles under negative pressure. The extracted air is treated prior to release to atmosphere in abatement systems, these consist of two carbon absorption units that are fitted in series with bag and HEPA filters. The contaminated soil will remain fully enclosed within the biopiles until the treatment process is complete.

All wastes containing asbestos will be brought onto site in enclosed/sheeted vehicles. Asbestos wastes from single source will not be mixed with asbestos contaminated wastes from other sites. Once asbestos contaminated soils have been accepted, the materials will be unloaded into specially designed storage bays from where they will be moved to the treatment facility. The facility consists of a purpose-built picking station comprising an enclosed conveyor belt that transfers waste from the hopper to the enclosed airtight cabin. The wastes are wetted down prior to removal from the asbestos storage bays and are loaded onto a hopper which is equipped with spray bars for additional dust and asbestos fibre control. The storage bays for incoming wastes, the asbestos picking cabin and storage area treated soils are all enclosed and fitted with abatement equipment consisting of carbon filter (for VOCs control), bag and HEPA filters (for dust and fibre control).

All waste at the site will be stored and treated on impermeable concrete surfaces with sealed drainage. The impermeable surfaces are designed with kerbing or edge bunds to retain all rainfall and prevent discharges of process effluent to the wider area of the site or beyond. Rainwater and leachate from the waste handling areas will pass into the drain at the lowest point of the concrete pad and is transferred to the integrated wastewater tanks for storage prior to offsite removal for treatment at a third-party facility.

The operator has an Environmental Management System (EMS) in place which includes procedures and check sheets for the recording of accidents and incidents, maintenance of the site infrastructure, plant and equipment, as well as staff training, technical competence and health and safety.

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

| Status log of the permit | | |
|--|-----------------------|---|
| Description | Date | Comments |
| Application EPR/HP3403BL/A001 | Duly made 29/07/20 | Application for hydrocarbon and asbestos contaminated soils treatment. |
| Response to the Schedule 5 Notice dated 03/11/2020 | 22/01/21 | Response to questions 1 to 22 of the Schedule 5 notice, including revised Site Layout Plan, Application Forms, Non-Technical Summary, Site Condition Report, Waste Acceptance and Treatment Process Flow Diagram, Operating Techniques, BAT document, Environmental Risk Assessment, Odour, Noise and Dust Management Plans, Asbestos Picking Cabin and Abatement Systems Schematics, Raw Materials Safety Datasheets and Asbestos Picking Activity Photos. Non-hazardous waste and soil washing treatment operations were withdrawn from the application proposals. |
| | 29/01/21 | |
| Additional information received in response the Schedule 5 Notice dated 03/11/2020 | 21/05/21 | Emails containing further changes to the Schedule 5 Notice response, including revised Site Layout Plan, Non-Technical Summary, Site Condition Report, Bioremediation Process, Application Forms, Site Condition Report, Operating Techniques, BAT document, Environmental Risk Assessment, Odour, Noise and Dust Management Plans. |
| Additional information received in response the Schedule 5 Notice dated 03/11/2020 | 18/06/21 | Emails containing changes to the Schedule 5 Notice response, including revised Non-Technical Summary, Site Layout Plan, CoTC Award, Operating Techniques, BAT document, Environmental Risk Assessment, Odour, Noise and Dust Management Plans and Site Condition Report as well as additional information including a Waste Acceptance and Treatment Process Flow Diagram, Asbestos Picking Photo, Remediation Works Specification, Bioremediation Process, Safety Datasheet, |

| Status log of the permit | | |
|---|-------------|--|
| Description | Date | Comments |
| | | Abatement Systems Schematics, and Noise Impact Assessment. |
| Additional information received in response to the Schedule 5 Notice dated 03/11/2020 | 29/06/21 | Emails containing final changes to the Schedule 5 Notice response, including revised Non-Technical Summary, Site Layout Plan, CoTC Award, Operating Techniques, BAT document, Environmental Risk Assessment, Odour, Noise and Dust management plans and Site Condition Report as well as additional information including a Waste Acceptance and Treatment Process Flow Diagram, Asbestos Picking Photo, Remediation Works, Bioremediation Process, Safety Datasheet, Abatement Systems Schematics, and Noise Impact Assessment. |
| | 13/07/21 | Amended version of the drawing titled 'Site Boundary and Site Layout', reference IV.306.19 (figures 1 and 2), dated 10/2019. |
| | 23/07/21 | Emails containing final changes to the Schedule 5 Notice response (as amended), including Operating Techniques, BAT document, Odour, Noise and Dust Management Plans. |
| | 29/07/21 | Emails containing final changes to the Schedule 5 Notice response (as amended), including Operating Techniques and BAT document |
| Additional information | 03/08/21 | Email containing amended copy of the Part A Form, and alternative measure proposal for the officer that will supervise the waste acceptance procedure. |
| Permit determined EPR/HP3403BL (Billing ref. HP3403BL). | 05/08/21 | Permit issued to Dunton Technologies Limited. |

End of introductory note.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/HP3403BL

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

Dunton Technologies Limited (“the operator”),

whose registered office is

Soterion House Northgate

Aldridge

Walsall

West Midlands

WS9 8TH

company registration number 09223580

to operate an installation at

Ellesmere Port Waste Treatment Facility

North Road

Ellesmere Port

CH65 1BL

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

| Name | Date |
|------------------|------------|
| Miriam Townshend | 05/08/2021 |

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”).

2.2 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 tables S2.2 and S2.3; 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.

Hazardous waste storage and treatment

- 2.3.7 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.

2.4 Improvement programme

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

2.5 Pre-operational conditions

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

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 table S3.1.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

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

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

3.4 Noise and vibration

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

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
 - (a) point source emissions specified in tables S3.1 and S3.2;
 - (b) process monitoring specified in table S3.3; and
 - (c) ambient air monitoring specified in table S3.4.
- 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, S3.2, S3.3 and S3.4 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) 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 | S5.3 A1(a)(i) Disposal of hazardous waste with a capacity exceeding 10 tonnes per day involving biological treatment | Biological treatment of hazardous waste for recovery (R5) | <p>From storage of wastes and receipt of raw materials, to treatment via bioremediation and despatch of waste off-site.</p> <p>Treatment in HDPE enclosed biopiles.</p> <p>Treatment limited to the addition of non-waste additives to the biopiles and the use of forced aeration of the biopiles through perforated pipes.</p> <p>Only hydrocarbon contamination shall be treated under this activity.</p> <p>All storage and treatment shall take place on an impermeable surface with a sealed drainage.</p> <p>This activity shall not include treatment of wastes containing hazardous levels of fibrous asbestos.</p> <p>Waste types and quantities as specified in Table S2.2.</p> |
| AR2 | S5.3 A1(a)(vi) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment. | Asbestos removal from wastes (R5) | <p>From storage of wastes to treatment via hand picking and despatch of waste off-site.</p> <p>Treatment in a dedicated enclosed and abated picking cabin.</p> <p>The air extraction system must be operational during picking operations.</p> <p>Wastes containing asbestos shall not be subject to mechanical screening and/or sorting.</p> <p>All storage and treatment shall take place on an impermeable surface with a sealed drainage system and dust/fibre abatement and suppression systems.</p> <p>Asbestos removed from the waste shall be double-bagged and stored in a sealed locked skip.</p> <p>Waste types and quantities as specified in Table S2.3.</p> |
| AR3 | S5.6 A1(a) Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes. | Storage of hazardous waste prior to on-site treatment for the purpose of recovery (R13) | <p>From receipt of waste to its treatment.</p> <p>All storage shall take place on an impermeable surface with a sealed drainage system.</p> <p>All incoming wastes shall be stored under cover within a designated reception/ treatment areas.</p> |

| 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 |
| | | | <p>Maximum quantity of waste stored for treatment by bioremediation is limited to 5216 tonnes at any one time.</p> <p>Maximum quantity of waste stored at the reception area prior to treatment by bioremediation is limited to 800 tonnes at any one time.</p> <p>Maximum quantity of waste stored for treatment by asbestos picking is limited to 2976 tonnes at any one time.</p> <p>Waste types and quantities as specified in Tables S2.2 and S2.3.</p> |
| Directly Associated Activity | | | |
| AR4 | Pre-treatment | Mechanical screening and sorting of waste to remove any materials not suitable for bioremediation and/ or solidification and/or stabilisation | <p>All treatment must take place on an impermeable surface with sealed drainage.</p> <p>No pre-treatment of asbestos containing materials.</p> <p>Separated oversize fractions shall be stored separately prior to removal off site.</p> |
| AR5 | Storage of treated waste. | Storage of treated wastes from asbestos picking and bioremediation treatment activities. | <p>Treated waste to be stored on an area of impermeable surface with sealed drainage.</p> <p>No mixing of waste treated by asbestos picking with waste treated by bioremediation except where the treated asbestos waste is being accepted for bioremediation under activity AR1.</p> <p>Maximum quantity of waste stored after treatment by bioremediation is limited to 1280 tonnes at any one time.</p> <p>Maximum quantity of waste stored after treatment by asbestos picking is limited to 2880 tonnes at any one time.</p> <p>Maximum quantity of oversize fraction stored following pre-treatment operation is limited to 1,080 tonnes</p> |
| AR6 | Storage of raw materials | Fuel storage and non-waste process additives | <p>All fuels shall be stored in tanks with secondary containment at a designated location on an impermeable surface with sealed drainage.</p> <p>Non-waste additives used in the waste treatment process shall be stored under cover on an impermeable surface with sealed drainage.</p> |

| 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 |
| AR7 | Collection and storage of process water prior to offsite removal by road tanker | Collection and storage of contaminated process water | Contaminated surface water runoff and process collected from waste storage and treatment areas shall be stored temporarily in an above-ground tank prior to off-site removal for treatment or disposal. The waste water storage tank shall be contained on an impermeable surface with sealed drainage system. Discharge to surface water and/or sewer is not allowed. |
| AR8 | Abatement systems | Operation of carbon filtration units and particulate filters | All storage and treatment areas to be vented through two activated carbon absorption units fitted in series followed by a HEPA/bag filters. Treated air to be vented via the identified emission points. |

| Table S1.2 Operating techniques | | |
|--|---|----------------------|
| Description | Parts | Date Received |
| Application EPR/HP3403BL/A001 Information received in response to the Schedule 5 Notice dated 03/11/2020 | Response to Section 3a, Part B3 Application Form (as amended) – Technical Standards, including the following documents: <ul style="list-style-type: none"> ▪ Operating Techniques, version 4.0, dated June 2021. ▪ Best Available Techniques, version 2.0, dated June 2021. ▪ Ellesmere Port – Bioremediation Design and Operation, received on the 29/06/2021. ▪ Waste Acceptance and Treatment Process Flow Diagram. ▪ Site Layout drawing number 012102/1001, Rev. A, dated 27/04/21. | 29/06/21 |
| Additional information received in response to the Schedule 5 Notice dated 03/11/2020 | Amended version of the drawing titled 'Site Boundary and Site Layout', reference IV.306.19, dated 10/2019. | 13/07/21 |
| Additional information received in response to the Schedule 5 Notice dated 03/11/2020 | Response to Section 3a, Part B3 Application Form (as amended) – Technical Standards, including the following documents: <ul style="list-style-type: none"> ▪ Odour Management Plan version 4.0, dated June 2021. ▪ Dust Management Plan, version 4.0, dated June 2021. ▪ Noise Management Plan, version 4.0, dated June 2021. | 23/07/21 |

| Table S1.2 Operating techniques | | |
|--|--|----------------------|
| Description | Parts | Date Received |
| | <p>Response to Section 3a, Part B3 Application Form (as amended) – Technical Standards, including response to questions 1 to 22 of the Schedule 5 Notice and the following documents:</p> <ul style="list-style-type: none"> ▪ Operating Techniques, version 4.0, dated June 2021. ▪ Best Available Techniques, version 2.0, dated June 2021. | 29/07/21 |
| Additional information | <p>Document titled 'Waste Acceptance Discussion – Ellesmere Port' (excluding the last two paragraphs) that provides information on general management measures (measures 2.2.4 and 2.2.5 of the Chemical Waste Appropriate Measures Guidance) to indicate that the person carrying out relevant waste assessment will have at least a degree in environmental science and experience in waste management as an alternative to a minimum of a HNC in chemistry.</p> | 03/08/21 |

| Table S1.3 Improvement programme requirements | | |
|--|---|--|
| Reference | Requirement | Date |
| IC1 | <p>During commissioning of the installation, the operator shall carry out tests to assess whether the air monitoring location(s) meet the requirements of BS EN 15259 and supporting Method Implementation Document (MID).</p> <p>A written report shall be submitted to the Environment Agency for approval setting out the results and conclusions of the assessment including where necessary proposals for improvements to meet the requirements.</p> <p>Where notified in writing by the Environment Agency that any of the requirements are not being met, the operator shall submit proposals for improvement together with the timescale for implementation.</p> <p>The proposals shall be implemented in accordance with the Environment Agency's written approval.</p> | <p>Within 3 months following commissioning or as otherwise agreed with the Environment Agency.</p> |
| IC2 | <p>The operator shall undertake monitoring of the carbon abatement system emissions in line with the standard in Table S3.1 and submit a report to the Environment Agency for written approval to demonstrate that the abatement systems are treating emissions to meet the BAT-AEL specified in Table S3.1 and to validate the emission level that was used in the H1 assessment for emissions to air.</p> <p>The operator shall submit a revised H1 assessment and proposals to the Environment Agency for written approval along with timescales of implementation on how to improve the efficacy of the abatement system or provide alternative abatement proposals if the emission released from the abatement systems do not achieve the BAT-AELs in Table S3.1 or is above the level used in the H1 assessment.</p> <p>The operator shall implement the proposals within the timescale agreed with the Environment Agency.</p> | <p>Within 9 months following commissioning or as otherwise agreed with the Environment Agency.</p> |
| IC3 | <p>The operator shall submit a report to the Environment Agency for written approval, reviewing the efficacy of the raw materials that are used in the bioremediation.</p> | <p>Within 6 months following commencement</p> |

| Reference | Requirement | Date |
|------------------|---|--|
| | By using mass balance calculations, the operator shall demonstrate in the report that the minimum, necessary and appropriate amounts of raw materials are added to each treatment operation and that the treatment process is working as designed. | of the treatment operations |
| IC4 | <p>The Operator shall undertake noise monitoring in line with BS4142:2014+A1:2019 to validate the data that is used in the Noise Impact Assessment submitted with the application EPR/HP3403BL/A001.</p> <p>Following the review of the noise data, the Operator submit a revised report to the Environment Agency for written approval which reviews the effectiveness of the site's noise management plan.</p> <p>In the event the noise monitoring identifies the need for noise abatement measures the operator shall propose additional measures along with timescales for implementation to the Environment Agency for Written approval.</p> <p>The Operator shall implement any further abatement measures in line with the timescales agreed with the Environment Agency.</p> | Within 9 months following commencement of the treatment operations |

| Reference | Pre-operational measures |
|------------------|--|
| PO1 | <p>Prior to the commencement of any construction activities and/or waste storage and treatment operations authorised in this permit, the operator shall submit a detailed design for impermeable concrete surfacing and associated drainage infrastructure including the above-ground storage tanks, sump, connecting pipelines and secondary containment to the Environment Agency for approval.</p> <p>The construction of the concrete surfacing and associated drainage infrastructure including tanks, pipelines, sump and secondary containment shall meet the requirements of the BAT standards and appropriate measures outlined in the Chemical waste: appropriate measures for permitted facilities and CIRIA report C736.</p> <p>Following construction of the impermeable concrete surfacing and associated drainage infrastructure including tanks, pipelines, sump and secondary containment, the operator shall submit a construction quality assurance (CQA) validation report confirming that the impermeable concrete surfacing and associated infrastructure were constructed in accordance with the detailed design and signed off by an appropriately qualified person.</p> <p>The operator shall not commence waste storage and/or treatment operations at the site until the CQA validation report is approved by the Environment Agency.</p> |
| PO2 | <p>Prior to the commencement of waste acceptance, storage and/or treatment operations authorised in this permit, the operator shall submit a report on the baseline conditions of soil and groundwater to the Environment Agency for approval.</p> <p>The report shall contain the information necessary to determine the state of soil and groundwater contamination so as to make a quantified comparison with the state upon definitive cessation of activities. The report shall contain information, supplementary to that already provided in the application and should be in accordance with the H5 guidance.</p> |

Schedule 2 – Waste types, raw materials and fuels

| Raw materials and fuel description | Specification |
|---|---------------|
| Bio-accelerator for the bioremediation process | - |
| Bacteria for the bioremediation process | - |
| Nutrients for the bioremediation process | - |
| Bulking agents for improved biopile aeration | - |
| Flocculant used in the wheel-washing | - |
| Diesel, lubricating grease, hydraulic oil and AdBlue for vehicles and plant on site | - |

| | |
|-------------------------|--|
| Maximum quantity | The total quantity of waste accepted for treatment at the site shall not exceed 33,000 tonnes per year. |
| Exclusions | <p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> ▪ Wastes consisting solely or mainly of dusts, powders or loose fibres; ▪ Wastes containing hazardous levels of asbestos; ▪ Waste liquids/sludge; ▪ Wastes with hazard codes HP1, HP2, HP3, HP9, HP12, HP15; and ▪ Waste containing persistent organic pollutants (POPs). |
| Waste code | Description |
| 13 | OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19) |
| 13 05 | oil/water separator contents |
| 13 05 01* | solids from grit chambers and oil/water separators |
| 13 05 08* | mixtures of wastes from grit chambers and oil/water separators |
| 17 | CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) |
| 17 05 | soil (including excavated soil from contaminated sites), stones and dredging spoil |
| 17 05 03* | soil and stones containing hazardous substances |
| 17 05 05* | dredging spoil containing hazardous substances |
| 17 05 07* | track ballast containing hazardous substances |
| 19 | WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE |
| 19 02 | wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation) |
| 19 02 04* | premixed wastes composed of at least one hazardous waste |
| 19 02 11* | other wastes containing hazardous substances |

| Table S2.2 Permitted waste types and quantities for AR1 Activity - Biological treatment of hazardous waste soils for recovery | |
|--|---|
| Maximum quantity | The total quantity of waste accepted for treatment at the site shall not exceed 33,000 tonnes per year. |
| Exclusions | Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> ▪ Wastes consisting solely or mainly of dusts, powders or loose fibres; ▪ Wastes containing hazardous levels of asbestos; ▪ Waste liquids/sludge; ▪ Wastes with hazard codes HP1, HP2, HP3, HP9, HP12, HP15; and ▪ Waste containing persistent organic pollutants (POPs). |
| Waste code | Description |
| 19 12 | wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified |
| 19 12 11* | other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances |
| 19 13 | wastes from soil and groundwater remediation |
| 19 13 01* | solid wastes from soil remediation containing hazardous substances |

| Table S2.3 Permitted hazardous waste types and quantities for AR2 Activity of Table S1.1 – Manual picking of asbestos waste | |
|--|--|
| Maximum quantity | The total quantity of waste accepted for treatment at the site shall not exceed 67,000 tonnes per year. |
| Exclusions | Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> ▪ Asbestos in unbound fibrous form (free chrysotile fibrous asbestos in the soil must be <0.1% w/w. other forms or mixed forms of asbestos in the soil must be <0.01% w/w); ▪ Waste liquids; ▪ Wastes with hazard codes HP1, HP2, HP3, HP9, HP12, HP15; and ▪ Wastes consisting solely or mainly of dusts, powders or loose fibres. |
| Waste code | Description |
| 17 | CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) |
| 17 05 | soil (including excavated soil from contaminated sites), stones and dredging spoil |
| 17 05 03* | soil and stones containing hazardous substances (contains identifiable pieces of bonded asbestos (any particle of a size that can be identified as potentially being asbestos by a competent person if examined by the naked eye) |
| 17 06 | insulation materials and asbestos-containing construction materials |
| 17 06 05* | construction materials containing asbestos (discrete pieces of bonded asbestos within the soil matrix only) |
| 17 09 | other construction and demolition wastes |
| 17 09 03* | other construction and demolition wastes (including mixed wastes) containing hazardous substances (discrete pieces of bonded asbestos within the soil matrix only) |

Schedule 3 – Emissions and monitoring

| Emission point ref. & location | Source | Parameter | Limit | Reference period | Monitoring frequency | Monitoring standard or method |
|--|--|---|---------------------------------------|----------------------------|-----------------------------|--------------------------------------|
| Emission monitoring points A4 and A5 shown in the drawing number 012102/1001, Rev. A, dated 27/04/21 | Abatement units at the biopad | Dust | 5 mg/Nm ³ | Average over sample period | Once every 6 months | BS EN 13284-1 |
| | | Total Volatile Organic Compounds (VOCs) | 40 mg/Nm ³ | | | BS EN 12619 |
| | | Odour concentration | 1000 ou _E /Nm ³ | | | EN 13725 |
| Emission monitoring points A1, A2, A3, A4 and A5 shown in the drawing number 012102/1001, Rev. A, dated 27/04/21 | Abatement units at the asbestos storage bays and treatment cabin | Dust | 5 mg/Nm ³ | Average over sample period | Once every 6 months | BS EN 13284-1 |
| | | Asbestos fibres | No limit | Average over sample period | Monthly | |

^[1] The monitoring only applies when the substance concerned is identified as relevant in the waste gas stream based on the inventory.

| Emission point ref. & location | Source | Parameter | Limit (incl. unit) | Reference Period | Monitoring frequency | Monitoring standard or method |
|--|--------------------------------------|------------------|---------------------------|-------------------------|-----------------------------|--------------------------------------|
| W1 shown in the drawing number 012102/1001, Rev. A, dated 27/04/21 | Uncontaminated Water Discharge Point | Oil/grease | No visible oil/grease | None | None | None |

| 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 | Carbon bed temperature – inlet and outlet | Daily | Temperature probe | Carbon filters to be replaced in accordance with manufacturer's recommendations. Equipment shall be calibrated on a 4 monthly basis, or as agreed in writing by the Environment Agency. |
| | Gas flow rate – inlet and outlet | | Gas flow meter | |
| | Moisture or humidity | | Moisture meter | |
| | Back pressure | | Recognised industry method | |
| | Efficiency assessment | Annual | Emission removal efficiency (BS EN 13725 for odour removal) | |
| Soil biopiles | pH Temperature Moisture Oxygen levels Nutrient concentrations | Spot sample | Hand probe | |
| | Total Petroleum Hydrocarbons (TPH) Polycyclic Aromatic Hydrocarbons (PAHs) VOCs Phenols | Each completed batch of treated soil shall be subject to representative sampling | | Laboratory must be accredited to EN ISO/IEC ISO17025:2000 for the analysis specified Samples to be obtained using standard sampling procedures as per BS 812. |

| Table S3.4 Ambient air monitoring requirements | | | | |
|---|------------------|---|--------------------------------------|--|
| Location or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
| Downwind of the asbestos treatment area | Asbestos fibres | An hour sampling per month when asbestos handling and picking is in operation | In line with M17 monitoring guidance | The monitoring shall be carried out to the following specifications: <ul style="list-style-type: none"> • 1m above ground level • Flow rate = 8 litres/minute • Minimum sample volume = 480 litres • Filter pore size = 1.2µm • Asbestos fibre limit of detection = 0.01 fibres/ ml |
| At the fugitive Emissions Monitoring Stations shown on the drawing number 012102/1001, Rev. A, dated 27/04/21 | Odour | Daily unless otherwise agreed in writing with the Environment Agency | BS EN 13725 | |
| | Dust | Continuous | In line with M17 monitoring guidance | 200 mg/m ² /day applicable over monthly average |

Schedule 4 – Reporting

| Parameter | Emission or monitoring point/reference | Reporting period | Period begins |
|---|---|------------------|-------------------|
| Emissions to air (from gas abatement plant) Parameters as required by condition 3.5.1. | A1, A2, A3, A4 and A5 shown on the drawing number 012102/1001, Rev. A, dated 27/04/21 | Every 6 months | 1 January, 1 July |
| Process monitoring Parameters as required by condition 3.5.1 | Carbon filters and soil biopiles | Every 12 months | 1 January |
| Ambient air monitoring Parameters as required by condition 3.5.1 | Downwind of the asbestos treatment area and at the fugitive Emissions Monitoring Stations shown on the drawing number 012102/1001, Rev. A, dated 27/04/21 | Every 3 months | 1 January, 1 July |

| Parameter | Units |
|----------------------------|--------|
| Bioremediation treatment | tonnes |
| Asbestos picking treatment | tonnes |
| Waste soils treated | tonnes |
| Hazardous waste recovered | tonnes |

| Parameter | Frequency of assessment | Units |
|-------------------------|-------------------------|--------|
| Water usage | Annually | tonnes |
| Energy usage | Annually | MWh |
| Total raw material used | Annually | tonnes |

| Media/parameter | Reporting format | Date of form |
|------------------------|--|-----------------------|
| Emissions to Air | Emissions to Air Reporting Form or other form as agreed in writing by the Environment Agency | Version 1, 08/03/2021 |
| Ambient air monitoring | Ambient Air Monitoring Form, or other form as agreed in writing by the Environment Agency | Version 1, 08/03/2021 |
| Process monitoring | Process Monitoring Form, or other form as agreed in writing by the Environment Agency | Version 1, 08/03/2021 |

| Table S4.4 Reporting forms | | |
|-----------------------------------|--|-----------------------|
| Media/parameter | Reporting format | Date of form |
| Water usage | Water Usage Reporting Form or other form as agreed in writing by the Environment Agency | Version 1, 08/03/2021 |
| Energy usage | Energy Usage Reporting Form or other form as agreed in writing by the Environment Agency | Version 1, 08/03/2021 |
| Other performance indicators | Other Performance Parameters Reporting Form or other form as agreed in writing by the Environment Agency | 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 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

“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.

“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 limit.

“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.

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

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

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

“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.

“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.

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

“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 non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content “year” means calendar year ending 31 December.

When the following terms appear in the waste code list in Schedule 2, table 2.2, S2.3, for that table/those tables, they have the meaning given below:

'hazardous substance' means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008

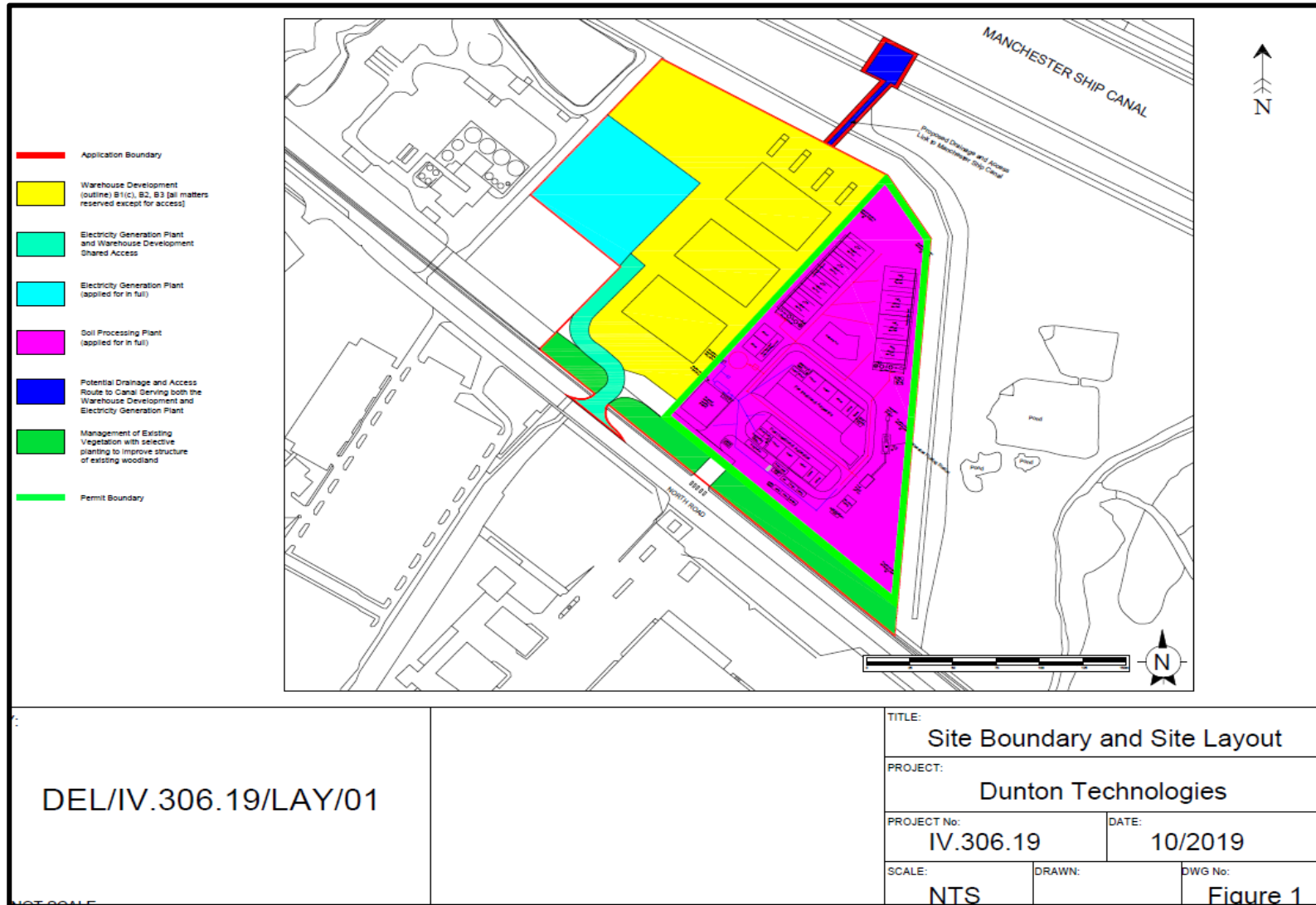
'heavy metal' means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances

'stabilisation' means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste

'solidification' means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste

'partly stabilised wastes' means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term

Schedule 7 – Site plan



END OF PERMIT

Emissions to Air Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]

Emissions to Air Reporting Form: version 1, 08/03/2021

Reporting of emissions to air for the period from [DD/MM/YY] to [DD/MM/YY]

| Emission point | Substance / parameter | Emission Limit Value | Reference period | Test method ¹ | Result ² | Sample dates and times ³ | Uncertainty ⁴ |
|----------------|--|-------------------------------|----------------------|--------------------------|---------------------|---|--|
| [e.g. A1] | [e.g. Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)] | [e.g. 200 mg/m ³] | [e.g. daily average] | [e.g. BS EN 14181] | [State result] | [State relevant dates and time periods] | [State uncertainty if not 95% confidence interval] |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Signed: [Name]

Date: [DD/MM/YY]

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

- ¹ Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
- ² Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.
- ³ For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- ⁴ Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

- ¹ Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
- ² Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.
- ³ For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- ⁴ Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Process Monitoring Form

Permit number: *[EPR/AB1234CB]*

Operator: *[A Company Name Limited]*

Facility name: *[Unit A, Anytown]*

Process Monitoring Form: version 1, 08/03/2021

Reporting of process monitoring for the period from *[DD/MM/YY]* to *[DD/MM/YY]*

| Monitoring point description or source | Parameter | Reference period | Test method ¹ | Result ² | Sample dates and times ³ | Uncertainty ⁴ |
|--|--|-----------------------------|--------------------------|-----------------------|--|--------------------------|
| <i>[e.g. Condenser V 2345]</i> | <i>[e.g. cooling water outlet temperature]</i> | <i>[e.g. instantaneous]</i> | <i>[if applicable]</i> | <i>[State result]</i> | <i>[State relevant dates and time periods]</i> | <i>[if applicable]</i> |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Operator's comments

| |
|--|
| |
|--|

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

- ¹ Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
- ² Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.
- ³ For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- ⁴ Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Water Usage Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]

Water Usage Reporting Form: version 1, 08/03/2021

Reporting of water usage for the year [YYYY]

| Water source | Water usage (m ³) | Specific water usage (m ³ /unit) ² |
|--|--|--|
| Mains water | [insert annual usage in m ³ where mains water is used] | [insert annual usage in m ³ /unit where mains water is used] |
| Site borehole | [insert annual usage in m ³ where water is used from a site borehole] | [insert annual usage in m ³ /unit where water is used from a site borehole] |
| River abstraction | [insert annual usage in m ³ where abstracted river water is used] | [insert annual usage in m ³ /unit where abstracted river water is used] |
| Other – [specify other water source where applicable. Add extra rows where needed] | [insert annual usage in m ³ where applicable] | [insert annual usage in m ³ /unit where applicable] |
| Total water usage | [insert total annual water usage in m ³] | [insert total annual water usage in m ³ /unit] |

| Operator's comments |
|--|
| |

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual water usage.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

Energy Usage Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]

Energy Usage Reporting Form: version 1, 08/03/2021

Reporting of energy usage for the year [YYYY]

| Energy source | Energy consumption / production (MWh) | Specific energy consumption (MWh/unit) ² |
|---|---|--|
| Electricity imported as delivered - source [specify source, e.g. supplied from the national grid] | <i>[insert annual consumption in MWh where electricity is imported]</i> | <i>[insert annual consumption in MWh/unit where electricity is imported]</i> |
| Electricity imported as primary energy 1 – conversion factor of [specify conversion factor used to convert electricity delivered to primary energy] | <i>[insert annual consumption in MWh where electricity is imported]</i> | <i>[insert annual consumption in MWh/unit where electricity is imported]</i> |
| Natural gas | <i>[insert annual consumption in MWh where natural gas is used]</i> | <i>[insert annual consumption in MWh/unit where natural gas is used]</i> |
| Gas oil – conversion factor of [specify conversion factor used to convert tonnes to MWh] | <i>[insert annual consumption in MWh where gas oil is used]</i> | <i>[insert annual consumption in MWh/unit where gas oil is used]</i> |
| Imported heat | <i>[insert annual consumption in MWh where heat is imported]</i> | <i>[insert annual consumption in MWh/unit where heat is imported]</i> |
| Other – <i>[specify other energy source and conversion factors where applicable, e.g. renewable fuel. Add extra rows where needed]</i> | <i>[insert annual consumption in MWh where applicable]</i> | <i>[insert annual consumption in MWh/unit where applicable]</i> |
| Electricity exported | <i>[insert annual production in MWh where electricity is exported]</i> | Not applicable |
| Heat exported | <i>[insert annual production in MWh where heat is exported]</i> | Not applicable |

| |
|----------------------------|
| Operator's comments |
| |

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual energy usage.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

¹ Multiply delivered electricity by 2.4 to convert to primary energy where the electricity is supplied from the national grid. If the electricity is supplied from another source, specify the conversion factor used. Add additional rows as needed if electricity is imported from multiple sources.

² Divide energy consumption by an appropriate unit of raw material processed or product output.

Other Performance Parameters Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]

Other Performance Parameters Reporting Form: version 1, 08/03/2021

Reporting of other performance parameters for the period from [DD/MM/YY] to [DD/MM/YY]

| Parameter | Units |
|--|--|
| <i>[e.g. Total raw material usage]</i> | <i>[e.g. tonnes per production unit]</i> |
| | |
| | |
| | |
| | |
| | |
| | |

| |
|----------------------------|
| Operator's comments |
| |

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report the performance parameters (other than water and energy) required by your permit. Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. The parameters to report and units to be used can be found in the 'Performance parameters' table in schedule 4 of your permit. Add additional rows as necessary.