

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Northumberland County Council

Powburn Depot
Powburn
Northumberland
NE66 4HY

Variation application number

EPR/PP3898EW/V002

Permit number

EPR/PP3898EW

Powburn Depot

Permit number EPR/PP3898EW

Introductory note

This introductory note does not form a part of the notice

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

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

Powburn Depot is situated approximately 400 metres West of Powburn village at national grid reference NU0545316914. The village represents the closest residential receptor, the River Tweed Special Area of Conservation (SAC) and Tweed catchment Site of Special Scientific Interest (SSSI) lie within 50 metres of the northern boundary of the permitted site.

This variation is for the addition of an asphalt waste containing coal tar (AWCCT) hazardous treatment installation to the waste aggregate treatment facility that is already permitted on site. The new activity represents a listed installation activity and is therefore now the primary activity undertaken at the site.

The listed activities undertaken at this installation are now:

- Section 5.3 Part A(1)(a)(vi) – Recovery of hazardous waste involving recycling or reclamation of inorganic materials (encapsulation); and
- Section 5.6 Part A(1)(a) – Temporary storage of hazardous waste pending any of the activities listed in Section 5.3.

The new AWCCT activity is an expansion of the current waste treatment activities on the site. Removal of road structures during road refurbishment or repair can generate asphalt waste. Some of these wastes contain a coal tar binder which makes them a hazardous waste. This variation to a hazardous waste treatment installation allows for the treatment of this specific waste only by crushing and then encapsulation of the material in a bitumen foam within a treatment vessel. Raw materials also used for this process include cement, pulverised fuel ash, bitumen and water. The final product will meet the Specification for Highways, Series 900 standards and be suitable for reuse in the repair or construction of road structures. The plant is powered by a 0.52 MWth diesel generator. This site is permitted for the treatment of 20,000 tonnes of hazardous waste annually with a maximum storage capacity of 4,000 tonnes to be on site at any one time.

The treatment and transfer of non-hazardous waste will continue as previously permitted. The site will accept road planings, topsoil, bitmac, concrete, clay/subsoil for treatment consisting of sorting, separation, screening and crushing. This treated waste is then used as an aggregate in the construction and maintenance of infrastructure. Annual throughput for the non-hazardous activities is up to 25,000 tonnes with a maximum of 14,000 tonnes of waste stored on site at any one time.

Safety measures will include impermeable surfacing over the whole site, the area where hazardous waste is stored and treated will have a sealed drainage system and surface run off will drain to a sump before being tankered off-site. The non-hazardous area is separate and drains to an interceptor and then a soak away. Spill kits will be available to deal with spillages of raw materials or unexpected leachate from non-compliant wastes.

The schedules specify the changes made to the permit.

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

| Status log of the permit | | |
|--|-------------------------|---|
| Description | Date | Comments |
| Permit determined EAWML 100224 | 21/07/2008 | Permit for a non-hazardous waste treatment facility issued to Northumberland County Council. |
| Application EPR/PP3898EW/V002 (variation and consolidation) | Duly made 08/10/2021 | Application to vary permit to an installation adding treatment of AWCCT. |
| Additional information received | 27/01/2022 | Updated risk assessments provided. |
| Additional information received | 17/03/2022 | Air quality modelling report provided. |
| Additional information received | 22/03/2022 | Data files of air quality modelling provided. |
| Additional information received | 28/04/2022 | Site condition report provided as well as updated operating techniques, BAT assessment, non-technical summary, dust management plan, and odour management plan. |
| Variation determined and consolidation issued EPR/PP3898EW PAS Billing ref. PP3898EW, EAWML Billing ref. 100224 | 01/09/2022 | Varied and consolidated permit issued in modern format |

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/PP3898EW

Issued to

Northumberland County Council ("the operator")

of

County Hall

Morpeth

NE61 2EF

to operate a regulated facility at

Powburn Depot

Powburn

Northumberland

NE66 4HY

to the extent set out in the schedules.

The notice shall take effect from 01/09/2022

| Name | Date |
|----------------|------------|
| Rebecca Warren | 01/09/2022 |

Authorised on behalf of the Environment Agency

Schedule 1

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

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/PP3898EW

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/PP3898EW/V002 authorising,

Northumberland County Council (“the operator”),

of

County Hall

Morpeth

NE61 2EF

to operate an installation/part of an installation at

Powburn Depot

Powburn

Northumberland

NE66 4HY

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

| Name | Date |
|-----------------------|-------------------|
| Rebecca Warren | 01/09/2022 |

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

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

1.2 Energy efficiency

- 1.2.1 For the following activities in schedule 1, table S1.1, referenced AR1 to AR5, 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 For the following activities in schedule 1, table S1.1, referenced AR1 to AR5, 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 operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

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

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any

approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

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

- (a) point source emissions specified in tables S3.1 and S3.2;

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

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

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

3.6 Pests

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

3.6.2 The operator shall:

- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
- (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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 For the following activities in schedule 1, table S1.1, referenced AR1-AR5, 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 | Section 5.3 Part A(1)(a)(vi) – Recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving recycling or reclamation of inorganic materials | Treatment of AWCCT and hazardous aggregate. R5: Recycling/reclamation of other inorganic materials. | <p>Treatment operations shall be limited to:</p> <ul style="list-style-type: none"> • crushing and screening; and • full encapsulation using a cold foam mix in an enclosed treatment plant. <p>Treatment of hazardous waste shall be carried out on an impermeable surface with sealed drainage.</p> <p>Waste types as specified in Table S2.2.</p> |
| AR2 | Section 5.6 A(1)(a)(i) Temporary storage of hazardous waste in a facility with a total capacity exceeding 50 tonnes pending any of the activities listed in Section 5.1, 5.2 and 5.3. | Storage of hazardous waste. R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced). | <p>Storage of hazardous asphalt waste containing coal tar.</p> <p>Storage of hazardous waste shall be carried out on an impermeable surface with sealed drainage.</p> <p>Storage of hazardous waste shall not exceed 4,000 tonnes at any one time.</p> <p>Hazardous waste shall be stored for a maximum of 6 months at the site.</p> <p>Waste types and quantities as specified in Table S2.2.</p> |
| Directly Associated Activity | | | |
| AR3 | Electrical power supply. | Operation of diesel generator for powering main site plant (Crusher and cold foam treatment plant). | Fuel specification must comply with requirements of table S2.1. |
| AR4 | Discharge to soak away. | Discharge of site surface run off at emission point SW1 to soak away. | From collection of site run off to discharge to ground via interceptor. |

| 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 |
| AR5 | Raw material storage. | Storage of raw materials for use in waste treatment, the operation of plant and equipment. | Materials to be stored in dedicated sealed tanks or containers located on impermeable surface with a sealed drainage system. |
| Activity reference | Description of activities for waste operations | | Limits of activities |
| AR6 | <p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p> <p>R5: Recycling/reclamation of other inorganic compounds.</p> | | <p>Treatment consisting only of manual sorting, separation, screening, or crushing of waste into different components for disposal, (no more than 50 tonnes per day) or recovery.</p> <p>Inert wastes must be stored and treated on hard standing or on an impermeable surface with sealed drainage.</p> <p>Storage of non-hazardous waste shall not exceed 14,000 tonnes at any one time.</p> <p>Waste types as specified in Table 2.3</p> |

| Table S1.2 Operating techniques | | |
|--|---|----------------------|
| Description | Parts | Date Received |
| Application | Document entitled 'Waste minimisation' V0.1 dated 28/09/21 provided as a supporting document with the application. | Duly made 08/10/2021 |
| Response to Schedule 5 Notice dated 02/12/2021 | Amenity and accident risk assessment V2 dated January 2022 provided in response to schedule 5. Responses to questions 3, 8, 13, 14, 16 and 17 in schedule 5 response letter referenced AC/KH/RG/NT14520/LET-05 dated 27/01/2022. | 27/01/2022 |
| | Air Quality Assessment V1.0 dated 17/03/2022 provided in response to schedule 5. | 17/03/2022 |
| Response to Schedule 5 Notice dated 12/04/2022 | <p>Dust management plan V2 dated April 2022 provided in response to schedule 5.</p> <p>Assessment of Best Available Techniques (BAT) V2 dated April 2022 provided in response to schedule 5.</p> <p>Odour management plan dated April 2022 provided in response to schedule 5.</p> <p>Operating techniques V2 dated April 2022 provided in response to schedule 5.</p> <p>Responses to questions 3, 4, 5 and 6 in schedule 5 response letter referenced AC/NT14520/LET005 dated 25/04/2022.</p> | 28/04/2022 |

| Table S1.3 Improvement programme requirements | | |
|---|--|------------|
| Reference | Requirement | Date |
| IC1 | <p>The Operator shall carry out an audit of the adequacy and suitability of the existing site drainage and discharge to soak away within the installation, with reference to the 'Control and monitor emissions for your environmental permit¹' and 'Non-Hazardous and inert waste: appropriate measures for permitting facilities²' online guidance. A written report shall be provided to the Environment Agency for technical assessment and approval. It should include details of discharge quality, compliance with the above-mentioned guidance, any deficiencies identified in the site containment or surfacing, a plan of the improvements proposed and the time scale for implementation. Once approved in writing and from the date stipulated by the Environment Agency, the improvement plan shall be delivered in accordance with the agreed timescales, subject to such amendments or additions as notified by the Environment Agency</p> <p>References: ¹https://www.gov.uk/guidance/control-and-monitor-emissions-for-your-environmental-permit ²Non-hazardous and inert waste: appropriate measures for permitted facilities - Guidance - GOV.UK (www.gov.uk)</p> | 01/03/2023 |
| IC2 | The Operator shall submit an energy efficiency plan for Environment Agency review and approval demonstrating proposals for compliance with BAT 23 of the best available techniques (BAT) conclusions for waste treatment. | 01/03/2023 |

| Table S1.4 Pre-operational measures for future development | | |
|--|---|--|
| Reference | Operation | Pre-operational measures |
| PO1 | Acceptance of hazardous waste and operation of the AWCCT encapsulation treatment plant (AR1 and AR2). | <p>The operator shall submit a Baseline Report (as defined within the Industrial Emissions Directive (IED)) detailing the condition of the land for technical assessment and approval by the Environment Agency. The Baseline Report (as defined within the IED) shall include but not be limited to:</p> <ol style="list-style-type: none"> Historical Ordnance Survey plans to confirm the sites historical land uses prior to the permitted works. Sufficient details and interpretation of the hydrogeological regime present beneath the site. This would include confirmation of the strata that the underlying groundwaters are present within, monitored groundwater levels, hydraulic gradient, and interpretation of any connectivity to other groundwaters and off-site surface water receptors. Sufficient details and interpretation of the ground conditions present beneath the site. This would include providing exploratory borehole logs, descriptions and depths of the made ground, alluvium, river terrace deposits and bedrock encountered as part of the previous investigation works. Groundwater environmental baseline conditions demonstrated with groundwater sampling, monitoring and testing. Surface water environmental baseline conditions demonstrated with surface water sampling or testing for the off-site surface water receptors. Soil environmental baseline conditions. Soil leachate environmental baseline conditions. If historical pollution caused by the operation of this site is identified by the investigations associated with PO1 a) to PO1 g) a written report will be submitted to the Environment Agency for approval that includes: |

| Table S1.4 Pre-operational measures for future development | | |
|---|---|--|
| Reference | Operation | Pre-operational measures |
| | | <ul style="list-style-type: none"> i. a proposal for the remediation of any contamination detected by the investigation including remediation methods and timescales for implementation. ii. details of any proposed changes to equipment, infrastructure, procedures and techniques applied in order to prevent further emissions in line with BAT. <p>The operator shall not accept any waste or carry out any permitted activities associated with AR1 and AR2 at the site unless the Environment Agency has given prior written permission under this condition.</p> |
| PO2 | Acceptance of hazardous waste and operation of the AWCCT encapsulation treatment plant (AR1 and AR2). | <p>The operator shall submit a report for approval by the Environment Agency demonstrating that an integrity test has been carried out on the 10,000 litre run off storage tank in the hazardous asphalt waste containing coal tar treatment area at least 4 weeks before the start of operations.</p> <p>The operator must also submit a proposal to the Environment Agency for approval for the future frequency of integrity tests on this storage tank.</p> |

Schedule 2 – Waste types, raw materials and fuels

| Table S2.1 Raw materials and fuels | |
|------------------------------------|---------------------------------|
| Raw materials and fuel description | Specification |
| Fuel Oil | Less than 0.1% sulphur content. |

| Table S2.2 Permitted waste types and quantities for treatment of AWCCT (AR1) | |
|--|--|
| Maximum quantity | The annual throughput of hazardous wastes for this activity shall not exceed 20,000 tonnes. |
| Waste code | Description |
| 17 | Construction and demolition wastes (including excavated soil from contaminated sites) |
| 17 03 | bituminous mixtures, coal tar and tarred products |
| 17 03 01* | bituminous mixtures containing coal tar |
| 17 03 03* | coal tar and tarred products |

| Table S2.3 Permitted waste types and quantities for treatment of non-hazardous waste aggregates (AR6) | |
|---|---|
| Maximum quantity | The annual throughput of non-hazardous wastes for this activity shall not exceed 25,000 tonnes. |
| Waste code | Description |
| 17 | Construction and demolition wastes (including excavated soil from contaminated sites) |
| 17 01 | concrete, bricks, tiles and ceramics |
| 17 01 07 | mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06 |
| 17 03 | bituminous mixtures, coal tar and tarred products |
| 17 03 02 | bituminous mixtures other than those mentioned in 17 03 01 |
| 17 05 | soil (including excavated soil from contaminated sites), stones and dredging spoil |
| 17 05 04 | soil and stones other than those mentioned in 17 05 03 |

Schedule 3 – Emissions and monitoring

| Emission point ref. & location | Source | Parameter | Limit (including unit) | Reference period | Monitoring frequency | Monitoring standard or method |
|---|-------------------------------------|--------------------|-------------------------------|-------------------------|-----------------------------|---|
| A1 on site plan, as shown in Schedule 7 | Exhaust from diesel generator. | No parameter set | No limit set | -- | -- | -- |
| A2 on site plan, as shown in Schedule 7 | Vent from cement silo. | Particulate matter | No visible dust emissions | -- | Daily | Visual observation or as agreed in writing with the Environment Agency. |
| A3 on site plan, as shown in Schedule 7 | Vent from pulverised fuel ash silo. | Particulate matter | No visible dust emissions | -- | Daily | Visual observation or as agreed in writing with the Environment Agency. |

| Emission point ref. & location | Source | Parameter | Limit (incl. unit) | Reference Period | Monitoring frequency | Monitoring standard or method |
|--|--|------------------|---------------------------|-------------------------|-----------------------------|--|
| SW1 on site plan in schedule 7 emission to soak away in hydraulic continuity with the river Tweed. | Site surface waters from the yard areas and non-hazardous waste storage and treatment areas via interceptor. | Oil or grease | No visible trace | Visual | Monthly | - |
| | | Suspended solids | No limit set | Spot sample | Monthly | In accordance with TGN M18 – Monitoring of discharges to water and sewer |

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 water Parameters as required by condition 3.5.1 | SW1 | Every 6 months | 1 January, 1 July |

| Table S4.2 Annual production/treatment | |
|---|--------------|
| Parameter | Units |
| Treated AWCCT material | tonnes |
| Treated non-hazardous material | tonnes |

| Table S4.3 Performance parameters | | |
|--|--------------------------------|--------------------------|
| Parameter | Frequency of assessment | Units |
| Water usage | Annually | m ³ |
| Energy usage | Annually | MWh |
| Total raw material used | Annually | tonnes or m ³ |

| Table S4.4 Reporting forms | | |
|-----------------------------------|---|---------------------|
| Media/parameter | Reporting format | Date of form |
| Water | Form water 1 or other form as agreed in writing by the Environment Agency | 01/09/2022 |
| Process monitoring | Form process 1 or other form as agreed in writing by the Environment Agency | 01/09/2022 |
| Water usage | Form water usage 1 or other form as agreed in writing by the Environment Agency | 01/09/2022 |
| Energy usage | Form energy 1 or other form as agreed in writing by the Environment Agency | 01/09/2022 |
| Other performance indicators | Form performance 1 or other form as agreed in writing by the Environment Agency | 01/09/2022 |
| Waste returns | E-waste returns or other form as agreed in writing by the Environment Agency | -- |

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 |
| | |
| | |
| | |

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|--|--|
| (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.

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

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 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.

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

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

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

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

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

“Pests” means Birds, Vermin and Insects.

“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 Directive 2008/98/EC of the European Parliament and of the Council on waste.

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

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

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

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

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or

- in relation to emissions from gas engines or gas turbines, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 15% dry for liquid and gaseous fuels ; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

“year” means calendar year ending 31 December.

When the following terms appear in the waste code list in Schedule 2, table 2.2 or 2.3, for 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

Schedule 7 – Site plan



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END OF PERMIT

Emissions to Water Reporting Form

Permit number: EPR/PP3898EW

Operator: Northumberland County Council

Facility name: Powburn Depot

Emissions to Water Reporting Form: version 1, 01/09/2022

Reporting of emissions to water (other than to sewer) 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 |
|-----------------------|--------------------------------------|-----------------------------|---|---------------------------------|----------------------------|--|---|
| <i>[e.g. W1]</i> | <i>[e.g. Total suspended solids]</i> | <i>[e.g. 30 mg/l]</i> | <i>[e.g. For 95% of all measured values of periodic samples taken over one month]</i> | <i>[e.g. BS EN 872:2005]</i> | <i>[State result]</i> | <i>[State relevant dates and time periods]</i> | <i>[State uncertainty if not 95% confidence interval]</i> |
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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/PP3898EW

Operator: Northumberland County Council

Facility name: Powburn Depot

Process Monitoring Form: version 1, 01/09/2022

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 |
|---|------------------|-----------------------------|---------------------------------|----------------------------|--|---------------------------------|
| Treated AWCCT material | Tonnes | <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> |
| Treated non-hazardous material | Tonnes | | | | | |
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|----------------------------|
| 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/PP3898EW

Operator: Northumberland County Council

Facility name: Powburn Depot

Water Usage Reporting Form: version 1, 01/09/2022

Reporting of water usage for the year [YYYY]

| Water source | Water usage (m ³) | Specific water usage (m ³ /unit) ² |
|---|--|---|
| Mains water | <i>[insert annual usage in m³ where mains water is used]</i> | <i>[insert annual usage in m³/unit where mains water is used]</i> |
| Site borehole | <i>[insert annual usage in m³ where water is used from a site borehole]</i> | <i>[insert annual usage in m³/unit where water is used from a site borehole]</i> |
| River abstraction | <i>[insert annual usage in m³ where abstracted river water is used]</i> | <i>[insert annual usage in m³/unit where abstracted river water is used]</i> |
| Other – <i>[specify other water source where applicable. Add extra rows where needed]</i> | <i>[insert annual usage in m³ where applicable]</i> | <i>[insert annual usage in m³/unit where applicable]</i> |
| Total water usage | <i>[insert total annual water usage in m³]</i> | <i>[insert total annual water usage in m³/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 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/PP3898EW

Operator: Northumberland County Council

Facility name: Powburn Depot

Energy Usage Reporting Form: version 1, 01/09/2022

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/PP3898EW

Operator: Northumberland County Council

Facility name: Powburn Depot

Other Performance Parameters Reporting Form: version 1, 01/09/2022

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

| Parameter | Units |
|-------------------------|--------|
| Total Raw material Used | Tonnes |
| | |
| | |
| | |
| | |
| | |
| | |

| |
|----------------------------|
| 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.