

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Ingrebourne Valley Limited
Wennington Quarry Inert Landfill
Land Adjacent to Wennington Hall Farm
New Road
Wennington
Rainham
RM13 9EE

Permit number

EPR/FB3507SP

Wennington Quarry Inert Landfill

Permit number EPR/FB3507SP

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

This is a bespoke permit which will cover two activities on site, inert landfilling and a physical treatment activity. The site is currently being operated as a quarry and will be restored through landfilling suitable inert waste to return the land to agricultural use. Some wastes will be treated at the physical treatment facility before being deposited into the landfill. Treatment on site will mainly consist of screening with some oversize material being crushed before screening. Landfilling will be completed in 10 phases with no physical treatment of waste in phases 9 and 10 when the area used for physical treatment is restored. A total of 1,400,000m³ or 2,500,000 tonnes of waste will be deposited. The annual throughput for the physical treatment facility will be 220,000 tonnes.

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/FB3507SP/A001	Duly made 08/03/18	Application for landfill for inert waste and physical treatment facility.
Response to Schedule 5 notice dated 24/05/18	29/06/18	Hydrogeological Risk Assessment, rogue load assessment and details of in-waste landfill gas monitoring.
Additional information received	27/07/18	Revised site boundary plan.
Response to Schedule 5 notice dated 13/08/18	13/09/18	Revised Waste Acceptance Procedure, details of surface water management, revised Hydrogeological Risk Assessment, revised Monitoring Plan, details of proposed gas monitoring, Dust Emissions Management Plan, revised site plans and details of discharge consent application.
Response to Schedule 5 notice dated 20/12/18	15/03/19	Details of the attenuation pond, revised Monitoring Plan, clarification of groundwater compliance limits and revised Environmental Setting and Site Design report.
Response to Schedule 5 notice dated 11/01/19	15/03/19	Revised Waste Acceptance Procedures, Noise Impact Assessment, Noise Management Plan and revised Dust Emissions Management Plan.
Response to Schedule 5 notice dated 30/04/19	10/06/19	Borehole log, revised Noise Impact Assessment, revised Dust Emissions Management Plan, details of Waste Treatment Activity, Site Condition Report, revised Monitoring Plan, risk assessment for the discharge activity, revised Hydrogeological Risk Assessment and Stability Risk Assessment.
Response to Schedule 5 notice dated 30/04/19	15/07/19	Revised information regarding the waste treatment activity.
Response to Schedule 5 notices dated 20/12/18 and 11/01/19	24/07/19	Revised Environmental Setting and Site Design report, additional information regarding the attenuation pond, further information regarding

Status log of the permit		
Description	Date	Comments
		groundwater monitoring and compliance limits, revised Monitoring Plan, revised Waste Acceptance Procedures, revised Noise Management Plan and Noise Impact Assessment and revised Dust Emissions Management Plan.
Response to Schedule 5 notice dated 11/01/19	04/11/19	Noise modelling files, revised Noise Impact Assessment and revised Noise Management Plan.
Response to Schedule 5 notices dated 20/12/18, 11/01/19 and 30/04/19	02/07/20	Confirmation that the discharge has been removed from the permit, revised Waste Acceptance Procedures, revised Site Operating Plan, revised site plans, Site Condition Report, Waste Treatment Activity report, revised Noise Management Plan, revised Dust Emissions Management Plan, revised Stability Risk Assessment, revised Monitoring Plan, revised Hydrogeological Risk Assessment, revised Environmental Setting and Site Design report and revised Non-Technical Summary.
Response to Schedule 5 notices dated 20/12/18, 11/01/19 and 30/04/19	09/10/20	Revised Waste Treatment Activity report, revised Noise Management Plan, revised Dust Emissions Management Plan, revised Hydrogeological Risk Assessment and revised Environmental Setting and Site Design report.
Response to Schedule 5 notice dated 11/01/19	04/12/20	Revised Dust Emissions Management Plan and Noise Management Plan.
Response to Schedule 5 notice dated 11/01/19	29/01/20	Confirmation that the bunds surrounding the site will be raised to 5.5m.
Permit determined EPR/FB3507SP	22/04/21	Permit issued to Ingrebourne Valley Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/FB3507SP

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

Ingrebourne Valley Limited ("the operator"),

whose registered office is

**Cecil House
Foster Street
Harlow Common
Harlow
Essex
CM17 9HY**

company registration number 02848746

to operate waste operations at

**Wennington Quarry Inert Landfill
Land Adjacent to Wennington Hall Farm
New Road
Wennington
Rainham
RM13 9EE**

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

Name	Date
Vicky Patchett	22/04/2021

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 Finance

- 1.2.1 The financial provision for meeting the obligations under this permit set out in the agreement made between the operator and the Environment Agency dated 22/04/21 shall be maintained by the operator throughout the subsistence of this permit and the operator shall produce evidence of such provision whenever required by the Environment Agency.
- 1.2.2 The operator shall ensure that the charges it makes for the disposal of waste in the landfill cover all of the following:
- (a) the costs of setting up and operating the landfill;
 - (b) the costs of the financial provision required by condition 1.2.1; and
 - (c) the estimated costs for the closure and aftercare of the landfill.

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

- 1.3.1 The operator shall:
- (a) take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;
 - (b) review and record at least every four years whether changes to those measures should be made; and
 - (c) take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1, table S1.1 (the “activities”).

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in red on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 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.

2.4 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 S1.4A have been completed.

2.6 Landfill Engineering

- 2.6.1 No construction of any new cell or development area shall commence until the operator has submitted construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.
- 2.6.2 The construction of a new cell or development area shall take place only in accordance with the approved construction proposals unless:
- (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
 - (b) a change has otherwise been agreed in writing by the Environment Agency.
- 2.6.3 The operator shall submit a CQA Validation Report to the Environment Agency within 4 weeks following the construction of the new cell.
- 2.6.4 No disposal of waste shall take place in a new cell or development area until the operator has submitted a CQA Validation Report and the Environment Agency has confirmed that it is satisfied with the CQA Validation Report.
- 2.6.5 No construction of landfill infrastructure shall commence until the operator has submitted relevant construction proposals or a written request to use previous construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.
- 2.6.6 The construction of the landfill infrastructure shall take place only in accordance with the approved construction proposals unless:

- (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
 - (b) a change has otherwise been agreed in writing by the Environment Agency.
- 2.6.7 The operator shall submit a CQA Validation Report within 4 weeks of the completion of the landfill infrastructure.
- 2.6.8 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.6.1 and 2.6.5 do not apply and the relevant landfill infrastructure may be constructed, provided that the construction proposals are submitted to the Environment Agency as soon as practicable.
- 2.6.9 For the purposes of conditions 2.6.1, 2.6.4 and 2.6.5 the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the relevant construction proposals or CQA Validation Report, either:
 - (a) confirmed whether or not it is satisfied; or
 - (b) informed the operator that it requires further information.
- 2.6.10 Where the Environment Agency has required further information under condition 2.6.9(b), the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:
 - (a) confirmed whether or not it is satisfied; or
 - (b) informed the operator that it requires further information.

2.7 Waste acceptance

- 2.7.1 For the following activities referenced in schedule 1, table S1.1 (A1), wastes shall only be accepted for disposal if:
 - (a) they are listed in schedule 2, table S2.1; and
 - (b) they are inert waste; and
 - (c) they are not liquid waste (including waste waters but excluding sludge); and
 - (d) all the relevant waste acceptance procedures have been completed; and
 - (e) they fulfil the relevant waste acceptance criteria; and
 - (f) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria; and
 - (g) they are wastes which have been treated, except for wastes for which treatment is not technically feasible.
- 2.7.2 The operator shall:
 - (a) visually inspect without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the landfill and waste at the point of deposit; and
 - (b) be satisfied that the waste conforms to the requirements of condition 2.7.1.
- 2.7.3 For the following activities referenced in schedule 1, table S1.1 (A2), waste shall only be accepted if:
 - (a) it is of a type and quantity listed in schedule 2 table S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.7.4 Where the operator has taken samples to establish that the waste is in conformity with the documentation submitted by the holder then the samples taken shall be retained for at least one month and results of any analysis for at least two years.
- 2.7.5 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.

- 2.7.6 The total quantity of waste that shall be disposed of in the landfill shall be limited by the levels shown on drawing 1308/W/R/2.
- 2.7.7 The quantity of waste that is disposed of at the regulated facility in any year shall not exceed the limits in schedule 1, table S1.5.
- 2.7.8 The operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery and, where practicable, origin of any waste that is received for disposal or restoration and of the identity of the producer, or in the case of municipal waste and multiple collection vehicles, of the collector of such waste. Any information regarded by the operator as commercially confidential shall be clearly identified in the record.

2.8 Closure and aftercare

- 2.8.1 The operator shall maintain a closure and aftercare management plan.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 The limits in schedule 3 shall not be exceeded.
- 3.1.2 The operator shall prevent the input of any hazardous substances from the activities into groundwater.
- 3.1.3 The operator shall submit to the Environment Agency a review of the Hydrogeological Risk Assessment:
- (a) between nine and six months prior to the sixth anniversary of the granting of the permit; and
 - (b) between nine and six months prior to every subsequent six years after the sixth anniversary of the granting of the permit.

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.

3.3 Noise and vibration

- 3.3.1 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 Monitoring

- 3.4.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring and any other actions specified in the following tables in schedule 3 to this permit:
- (a) Groundwater specified in tables S3.1 and S3.3;
 - (b) Landfill gas specified in table S3.2;
 - (c) Surface water specified in table S3.4; and

- 3.4.2 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.
- 3.4.3 A topographical survey of the site referenced to ordnance datum shall be carried out and shall be used to produce a plan of a scale adequate to show the surveyed features of the site:
- (a) annually; and
 - (b) prior to the disposal of waste in any new cell or new development area of the landfill; and
 - (c) following closure of the landfill or part of the landfill

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) the results of groundwater monitoring;
 - (ii) landfill gas monitoring;
 - (iii) waste types and quantities;
- 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 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 ('the annual report') shall be submitted to the Environment Agency by 31st January each year or such other date as may be agreed in writing by the Agency. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this activity and any agreed amendments thereto. The review will include written descriptions of the improvements made to operational performance during the year, action plans developed and planned improvements for the coming year;
 - (b) the topographical surveys required by condition 3.4.3 other than those submitted as part of a CQA validation report;
 - (c) the volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;

- (d) an assessment of the settlement behaviour of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;
 - (e) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey; and
- 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 S4.2 or other reporting format as agreed in writing with the Environment Agency; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 Within one 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.
- 4.2.5 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.

4.3 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 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

4.3.4 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.

4.4 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	
Specified activity and WFD Annex I and II operations	Activity description and limits of specified activity
(A1) Inert Landfill: D1: Deposit into or on to land	The disposal of inert waste into or onto land. Waste types as specified in Table S2.1
(A2) Physical Treatment Facility: R3: Recycling/reclamation of organic substances which are not used as solvents R5: Recycling/reclamation of other inorganic materials R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced) D9: Physico-chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced)	Physical treatment including manual and mechanical sorting/separation, screening and crushing of non-hazardous waste for disposal (no more than 50 tonnes per day) or recovery. Subject to any other requirements of this permit wastes shall be stored for no longer than 1 year prior to disposal or 3 years prior to recovery. No more than 50 tonnes per day of non-hazardous waste to be treated at the site under a D9 activity. Waste types as specified in Table S2.2

Table S1.2 Operating techniques		
Description	Parts	Date Received
Reponse to Schedule 5 notice dated 11/01/19	Waste Acceptance Procedures – Materials Acceptance Procedure – Waste Types and Quality Considerations February 2019	02/07/20
Response to Schedule 5 notice dated 11/01/19	Approved Dust Emissions Management Plan document reference 66250R7REV6, December 2020	04/12/20

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to Schedule 5 notice dated 11/01/19	Approved Noise Management Plan consisting of the following documents: Wennington Quarry: Noise Management Plan document reference 66250R8REV4 December 2020	04/12/20
	Email titled 'RE: Ingrebourne Valley - Wennington Quarry - EPR/FB3507SP/A001 (EAWML 404328)	29/01/21

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
1	The operator shall progressively install in-waste gas monitoring points at a minimum density of 2 points per hectare as part of the restoration of each phase and commence routine in waste gas monitoring unless otherwise agreed by the Environment Agency. The landfill gas monitoring boreholes shall be constructed and recorded in accordance with a Construction Quality Assurance (CQA) Plan covering all elements of the landfill gas monitoring system. The proposal shall be in accordance with the Environment Agency Guidance: LFTGN03 'Management of Landfill Gas'.	Within 6 months of the restoration of each phase

Table S1.4A Pre-operational measures	
Reference	Pre-operational Measures
1	Propose changes to the nickel compliance limits for the groundwater monitoring boreholes once 12 months of monitoring data is available and obtain the Environment Agency's written approval to them.

Table S1.5 Annual waste input limits	
Category	Limit Tonnes/ Year
Inert Waste for disposal	300,000

Schedule 2 – List of permitted waste

Table S2.1 Permitted waste types for disposal at a landfill for inert waste	
Waste code	Description
01	Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals
01 01	wastes from mineral excavation
01 01 02	wastes from mineral non-metalliferous excavation
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
01 04 12	tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
01 05	drilling muds and other drilling wastes
01 05 04	freshwater drilling muds and wastes
10	Wastes from thermal processes
10 11	wastes from manufacture of glass and glass products
10 11 03	waste glass-based fibrous materials – without organic binders only
10 11 12	waste glass other than those mentioned in 10 11 11
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 07	glass packaging
16	Wastes not otherwise specified in the list
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 20	glass
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 01	concrete, bricks, tiles and ceramics
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	wood, glass and plastic
17 02 02	glass
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
17 05 06	dredging spoil other than those mentioned in 17 05 05

Table S2.1 Permitted waste types for disposal at a landfill for inert waste	
Waste code	Description
17 05 08	track ballast other than those mentioned in 17 05 07
17 09	other construction and demolition wastes
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
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 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 05	glass
19 12 09	minerals (for example sand, stones)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 02	glass – separately collected glass only
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones – excluding topsoil and peat

Table S2.2 Permitted waste types and quantities for physical treatment facility	
Maximum quantity	The total quantity of waste accepted at the site for the above activity shall be less than 220,000 tonnes a year.
Waste code	Description
01	Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals
01 01	wastes from mineral excavation
01 01 02	wastes from mineral non-metalliferous excavation
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
01 04 12	tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
01 05	drilling muds and other drilling wastes
01 05 04	freshwater drilling muds and wastes
10	Wastes from thermal processes
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
17	Construction and demolition wastes (including excavated soil from contaminated sites)

Table S2.2 Permitted waste types and quantities for physical treatment facility	
Maximum quantity	The total quantity of waste accepted at the site for the above activity shall be less than 220,000 tonnes a year.
Waste code	Description
17 01	concrete, bricks, tiles and ceramics
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
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
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 08	track ballast other than those mentioned in 17 05 07
17 09	other construction and demolition wastes
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones

Schedule 3 – Emissions and monitoring

Table S3.1 Groundwater – emission limits and monitoring requirements					
Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
WEN02	Ammoniacal Nitrogen	0.13mg/l	Spot Sample	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk assessments for your environmental permit (www.gov.uk)</u> , or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Chloride	128mg/l			
	Sulphate	258mg/l			
	Arsenic	0.002mg/l			
	Nickel	0.012mg/l*			
WEN03	Ammoniacal Nitrogen	0.13mg/l	Spot Sample	Quarterly	
	Chloride	111mg/l			
	Sulphate	174mg/l			
	Arsenic	0.005mg/l			
	Nickel	0.01mg/l*			
WEN07	Ammoniacal Nitrogen	0.13mg/l	Spot Sample	Quarterly	
	Chloride	111mg/l			
	Sulphate	174mg/l			
	Arsenic	0.002mg/l			
	Nickel	0.01mg/l*			
*The nickel compliance limits may be adjusted upon agreement from the Environment Agency through completion of pre-operational condition 1.					

Table S3.2 Landfill gas: in-waste monitoring – Action level and monitoring requirements				
Monitoring point Ref. /description	Parameter	Action level (including units)	Monitoring frequency	Monitoring standard, specifications and other actions
All in-waste landfill gas monitoring points to be installed as part of improvement condition 1	Methane	1% v/v	Monthly	As per LFTGN03 or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Carbon Dioxide	[no limit]		Where the concentration of methane at any in-waste monitoring location exceeds the specified action level, the operator shall investigate the root cause in accordance with their gas action plan and waste acceptance procedures.
	Oxygen	[no limit]		
	Atmospheric Pressure	[no limit]		Record whether the ground is: waterlogged
	Differential Pressure	[no limit]		frozen snow covered

Table S3.3 Groundwater – other monitoring requirements			
Monitoring Point Ref./Description	Parameter	Monitoring frequency	Monitoring standard or method
Up gradient – WEN01, WEN04, WEN05 As Site Monitoring Plan	Water Level, Electrical Conductivity, Chloride, Ammoniacal Nitrogen, pH	Monthly for first 12 months reducing to Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) , or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Total Alkalinity, Magnesium, Potassium, Sulphate, Calcium, Sodium, Chromium (VI), Copper, Iron, Lead, Nickel, Zinc, Manganese, Selenium, Cyanide, Arsenic, Barium, Cadmium, Total Phenols, Total Organic Carbon (TOC), Total Oxidised Nitrogen (TON, Mineral Oils (C10-C40)	Annually	
	Hazardous substances Mercury, Benzene, Toluene, Ethyl Benzene, Xylene, Benzo(a)pyrene, Poly Chlorinated Biphenyls (PCB), Polycyclic Aromatic Hydrocarbons (PAHs)	Annually for first six years of operation then every two years	PAH analysis must include all the substances listed in EPR 2016, schedule 10, paragraph 2(d)
Down or cross gradient WEN02, WEN03, WEN06 (until removed by works), WEN07, WEN08, WEN09 As Site Monitoring Plan	Water Level, Electrical Conductivity, Chloride, Ammoniacal Nitrogen, pH, Arsenic, Chloride, Sulphate, Nickel	Monthly for first 12 months reducing to Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) , or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Total Alkalinity, Magnesium, Potassium, Calcium, Sodium, Chromium (VI), Copper, Iron, Lead, Zinc, Manganese, Selenium, Cyanide, Cadmium, Barium, Total Phenols, Total	Annually	PAH analysis must include all the substances listed in EPR 2016, schedule 10, paragraph 2(d)

Table S3.3 Groundwater – other monitoring requirements			
Monitoring Point Ref./Description	Parameter	Monitoring frequency	Monitoring standard or method
	Organic Carbon (TOC), Total Oxidised Nitrogen (TON), Mineral Oils (C10-C40)		
	Hazardous substances Mercury, Benzene, Toluene, Ethyl Benzene, Xylene, Benzo(a)pyrene, Poly Chlorinated Biphenyls (PCB), Polycyclic Aromatic Hydrocarbons (PAHs)	Annually for first six years of operation then every two years	
All monitoring boreholes as Site Monitoring Plan	Base of monitoring point (mAOD)	Annually	

Table S3.4 Surface water – other monitoring requirements				
Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
SW06, WENSWA2	Ammoniacal Nitrogen Chloride Suspended Solids Visual Oil and Grease pH Electrical Conductivity	Quarterly	Spot sample	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk assessments for your environmental permit (www.gov.uk)</u> or such other subsequent guidance as may be agreed in writing with the Environment Agency.

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	Reporting period*	Period ends
Emission to groundwater As specified by schedule 3, table S3.1	Every 3 months	31 March, 30 June, 30 September, 31 December
Landfill gas in monitoring boreholes As specified by schedule 3, table S3.2	Every 3 months	31 March, 30 June, 30 September, 31 December
Other groundwater monitoring As specified by schedule 3, table S3.3	Every 3 months	31 March, 30 June, 30 September, 31 December
Other surface water monitoring As specified by schedule 3, table S3.4	Every 12 months	31 December

* - where the reporting period is 12 months, you may submit this information as part of the 'annual report' required by condition 4.2.2.

Table S4.2 Reporting Forms		
Media/parameter	Reporting Format	Date of Form
Controlled water	Form Water 1, or other reporting format to be agreed in writing with the Environment Agency	22/04/21
Groundwater	Form Groundwater 1, or other reporting format to be agreed in writing with the Environment Agency	22/04/21
Landfill gas	Form LFG 1, or other reporting format to be agreed in writing with the Environment Agency	22/04/21
Waste Return	E-waste Return Form	-
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Environment Agency	-

Schedule 5 – Notification

This page outlines 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 incident or accident which significantly affects or may significantly affect the environment	
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 in the event 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	
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 supplied 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.

“Annex I” means Annex I to the Waste Framework Directive.

“Annex II” means Annex II to the Waste Framework Directive.

“Annually” means once every year.

“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.

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

- For emissions to surface water, the surface water quality up-gradient of the site; or
- For emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge; or
- For emissions of landfill gas, the ground or air outside the site and not attributable to the site.

“Construction Proposals” means written information, at a level of detail appropriate to the complexity and pollution risk, on the design, specifications of materials selected, stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the Landfill Infrastructure.

“CQA Validation Report” means the final “as built” construction and engineering details of the Landfill Infrastructure. It must provide a comprehensive record of the construction and must include, where relevant:

- The results of all testing required by the CQA programme - this must include the records of any failed tests with a written explanation, details of the remedial action taken, referenced to the appropriate secondary testing;
- Plans showing the location of all tests;
- “As-built” plans and sections of the works;
- Copies of the site engineer’s daily records;
- Records of any problems or non-compliances and the solution applied;
- Any other site specific information considered relevant to proving the integrity of the Landfill Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the Construction Proposals.

“D” means a disposal operation provided for in Annex I to the Waste Framework Directive.

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

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations 2016, 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.

“Exceeded” means that a value is above a permitted limit, or where a range of values or a minimum value is set as a permitted limit it means a value outside that range or below the minimum value, whichever is applicable.

“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 substances” as defined by the Environmental Permitting (England and Wales) Regulations 2016, SI 2016 No.1154, schedule 22.

“Inert waste” means waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater.

“Landfill infrastructure” means any specified element of the:

- Artificially established geological barrier;
- surface water drainage systems;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes.

“List of Wastes” means the list of wastes established by Commission Decision 2014/995/EC replacing Decision 1994/3/EC and 2000/532/EC establishing a list of wastes pursuant to Article 7 of Council Directive 2008/98/EC 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.

“Liquids” means any liquid other than leachate.

“MPP” means the monitoring point plan, required to specify routine monitoring locations.

“No impact” means that the change made to the construction process will not affect the agreed design criteria, specification or performance in a way that has a negative effect.

“Previous year” means the 12 month period preceding the month the annual report is submitted in.

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

“R” means a recovery operation provided for in Annex II to the Waste Framework Directive.

“Relevant waste acceptance criteria” means the waste acceptance criteria and the associated sampling and test methods specified in the Council Decision Annex (2003/33/EC, European Council of 19 December 2002).

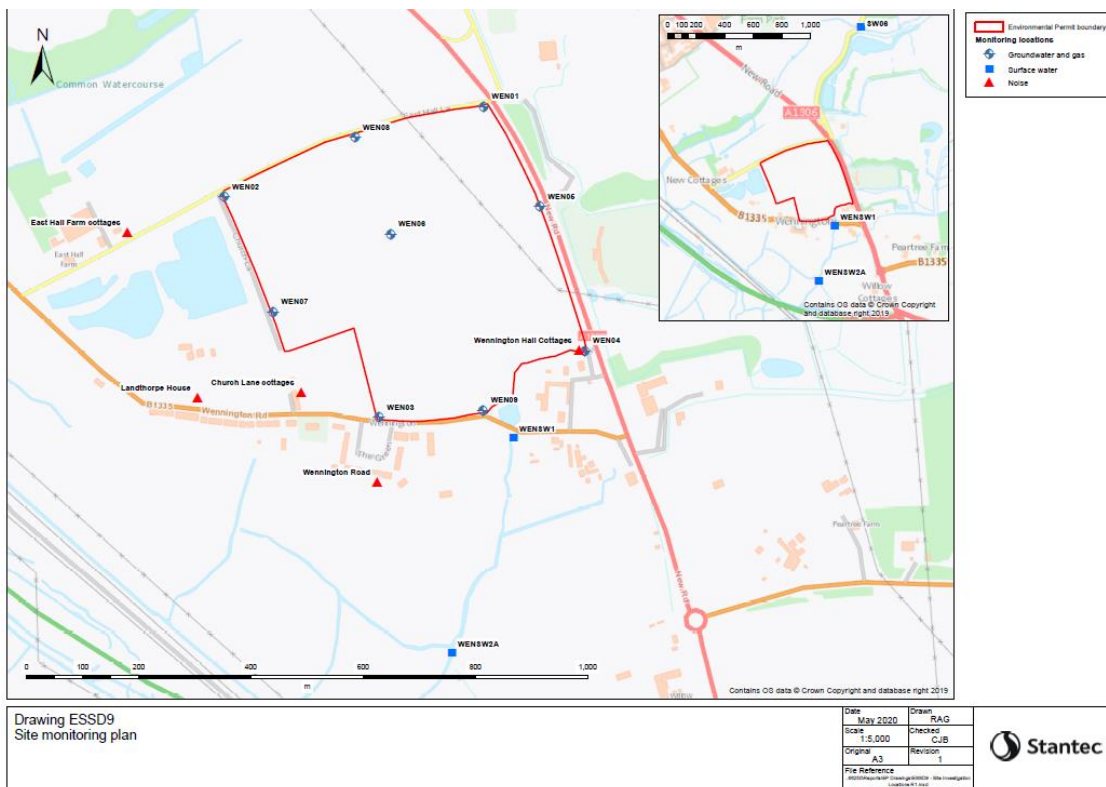
“Relevant waste acceptance procedures” means the procedure for the acceptance of waste at landfills and the associated sampling and test methods specified in the Council Decision Annex (2003/33/EC, European Council of 19 December 2002).

“Review of the Hydrogeological Risk Assessment” means a written review of the hydrogeological risk assessment included in the Application, together with any other parts of the Application that addressed the requirements of the EP Regulations. The review shall assess whether the activities of disposal or tipping for the purpose of disposal of waste authorised by the permit continue to meet the requirements of the EP Regulations.

“Waste code” – See “List of Wastes”.

“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.

Schedule 7 – Site plan



END OF PERMIT