



Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

SUEZ Recycling and Recovery UK Ltd

Albury Landfill Site
Shere Road
Albury
Nr Guildford
Surrey
GU5 9BW

Variation application number

EPR/BV1020IS/V011

Permit number

EPR/BV1020IS

Albury Landfill Site

Permit number EPR/BV1020IS

Introductory note

This introductory note does not form a part of the notice.

The following gives notice of the variation and consolidation of this environmental permit. We have issued this variation to consolidate the original permit and subsequent variations and to update some of the conditions following a statutory review of permits in the landfill sector. We have also converted the permit into the current EPR permit format using modern conditions.

The installation is operated as follows:

The installation comprises a landfill for non-hazardous waste and associated activities including treatment and discharge of leachate and flaring and utilisation of landfill gas. Albury Landfill site is located approximately 115m from the A25 at Shere Road, Albury, Guildford, Surrey, at National Grid Reference (NGR) TQ0550048400). Albury Landfill is situated in a large void area created by sand extraction from an area known as 'Weston Wood' that has been progressively restored by landfilling with non-hazardous wastes since 1992. Sand extraction works ceased on the south eastern edge of the quarry during November 2008. The site is fully contained and operated in a series of cells A to J. The site has a total capacity of 3.4 million tonnes. All cells have been constructed on the basis of containment using a lining system comprising an artificially established mineral barrier of clay overlain by an artificially established geosynthetic liner. The associated leachate drainage system was completed in accordance with a Construction Quality Assurance Plan to prevent landfill gas and leachate generated at the site escaping. The site has ceased to accept waste and is restored.

Ground levels in the area of the site fall from the North Downs southwards to the Tilling Bourne watercourse. Tilling Bourne is the most significant watercourse in the area around the site and flows in an approximately east to west direction along the valley bottom. This water course is located circa 105m from the landfill. South of the landfill the ground falls over approximately 150m down to the valley bottom which has an elevation of approximately 60mAOD. A tributary of the Tilling Bourne flows south to south west approximately 100m to the east of the landfill. This tributary reaches its confluence with the Tilling Bourne to the south east of the site. Water is diverted from this stream into 3 fishing ponds which lie north of the Tilling Bourne, the closest pond is 50m from the site boundary. Water flows westwards from pond to pond and then into the Tilling Bourne.

Schedule 1 to this notice summarises the changes we have made to this permit.

Table S3.1 of the permit includes a compliance limit for leachate level elevation of 82.3 metres Above Ordnance Datum (mAOD) (located 0.6 m above the lowest intercell bund located between Cell 1 (eastern) and Cell 2 (western)). This has been shown through risk assessment to provide protection to the groundwater system that the site lies within. However, the site is operated by SUEZ for leachate management to ensure that there are two hydraulically separate cells and the Site Monitoring Management Plan (July 2023) commits to a leachate elevation action level of 81.7 mAOD (at the top of the intercell bund). The Monitoring and Management Plan is referred to in the operating techniques table of this permit.

The Environment Agency has also issued an advisory letter to SUEZ on 21/12/2023 explaining what the Environment Agency expects SUEZ to provide to satisfy the IC1 requirements for the method of pump suspension recovery tests of the leachate level compliance monitoring wells, the data those tests provide, and analysis of the data SUEZ collect during the pump suspension testing of the site's leachate level monitoring wells.

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

Status log of the permit		
Description	Date	Comments
Application BV1020IS/A001	Received 07/10/03	Application for non-hazardous waste landfill.
Additional information received	13/04/04, 27/04/04 by email; 05/05/04 by letter; 02/06/04 by report	Request for technical information.
Further request	28/01/05	
Additional information received	05/05/04; and 18/11/04	Request for financial provision details.
Permit BV1020IS (EPR/ BV1020IS)	Issued 16/03/05	Original permit issued to SITA UK Limited.
Variation QP3336SC (EPR/BV1020IS/V002)	Issued 28/07/05	Reference EPR/BV1020IS/V002.
Variation AP3336LZ (EPR/BV1020IS/V003)	Issued 22/08/07	Reference EPR/BV1020IS/V003.
Variation RP3634UW (EPR/BV1020IS/V004)	Issued 23/08/07	Addition of biomethane liquefaction plant
Application EPR/BV1020IS/T001	Duly Made 04/04/12	Application to transfer the biomethane liquefaction plant to Gasrec Limited.
Partial Transfer determined EPR/BV1020IS/T001	Issued 11/07/12	
Application EPR/BV1020IS/V006	Duly made 28/05/13	Application to vary and replace carbon dioxide (CO ₂) compliance limits with Action Levels, amend mecoprop compliance limit, remove Improvement Condition IC11 and update operating techniques table.
Additional information received	01/07/13	Email received regarding the compliance limits for the boreholes that are close to sensitive receptors.
Variation determined EPR/BV1020IS/V006	21/08/13	Varied permit issued
Environment Agency Landfill Sector Review 2013 / 2014 Permit reviewed Variation determined EPR/BV1020IS/V007	25/03/15	Varied and consolidated permit issued in modern condition format.

Notified change of company name and address EPR/BV1020IS/V008	07/04/16	Request from operator to update the company name from SITA UK Limited to SUEZ Recycling and Recovery UK Ltd and the first line of their registered office address from SITA House to SUEZ House.
Application EPR/BP3439YF/T001	Duly made 22/12/16	Application to transfer part of permit EPR/JP3339CR from Gasrec Ltd to SUEZ Recycling and Recovery UK Ltd.
Application EPR/BV1020IS/V009	Duly made 22/12/16	Application to consolidate the transferred activities from application EPR/BP3439YF/T001 into permit EPR/BV1020IS.
Partial transfer determined EPR/BP3439YF/T001	13/06/17	Partial transfer complete. Consolidated permit issued in modern condition format.
Variation determined EPR/BV1020IS/V009	14/06/17	
Application EPR/BV1020IS/V010	Duly made 23/08/17	Application to add compliance boreholes for groundwater, change compliance limits for groundwater and consolidate and update the permit.
Response to schedule 5 notice	10/05/18	Revised groundwater compliance limits review
Response to schedule 5 notice	10/08/18	Revised compliance limits, control limits and contingency action plan.
Additional information	16/10/18	Discussion regarding mecoprop.
Variation determined EPR/BV1020IS/V010	26/11/18	Varied, consolidated and updated permit issued.
Application EPR/BV1020IS/V011	Duly made 31/03/2021	Application to vary leachate management and the monitoring programme.
Response schedule 5 notice	26/07/2022	Information on leachate management, perimeter gas and HRA.
Additional information received	23/05/2023	Letter received in response to leachate, groundwater, and gas proposals, and an improvement condition.
Additional information received	28/06/2023	E-mail received timed at 15:45 providing revision to: <ul style="list-style-type: none"> • Table 6 – Leachate Level Compliance Locations of proposed Leachate Management Plan and the proposed Monitoring and Management Plan, • Document 'Albury landfill site- Monitoring Management Plan- July 2023'
Additional information received	19/07/2023	E-mail received in response to perimeter gas contingency actions, proposed groundwater quality limits for chloride, and provision of a revised document 'Albury landfill site- Monitoring Management Plan- July 2023'.
Application determined EPR/BV1020IS/V011	21/12/2023	

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/BV1020IS

Issued to

SUEZ Recycling and Recovery UK Ltd (“the operator”)

whose registered office is

**SUEZ House
Grenfell Road
Maidenhead
Berkshire
SL6 1ES**

company registration number 02291198

to operate a regulated facility at

**Albury Landfill Site
Shere Road
Albury
Nr Guildford
Surrey
GU5 9BW**

to the extent set out in the schedules.

The notice shall take effect from 21/12/2023.

Name	Date
Louise Hann	21/12/2023

Authorised on behalf of the Environment Agency

Schedule 1

As a result of the variation application made by the operator the following changes have been made:

Table S1.2 to include new operating techniques and old ones have been removed.

Table S1.4 has been updated to add improvements conditions determined as being required by this permit variation and to remove completed improvement conditions.

Tables S3.1, S3.3 and S3.5 have been updated.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/BV1020IS

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BV1020IS/V011 authorising,

SUEZ Recycling and Recovery UK Ltd (“the operator”),

whose registered office is

**SUEZ House
Grenfell Road
Maidenhead
Berkshire
SL6 1ES**

company registration number 02291198

to operate an installation at

**Albury Landfill Site
Shere Road
Albury
Nr Guildford
Surrey
GU5 9BW**

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

Name	Date
Louise Hann	21/12/2023

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 16/03/2005 as varied on 21/08/2013 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 Energy efficiency

- 1.3.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) Review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) Implement any appropriate measures identified by a review.

1.4 Efficient use of raw materials

- 1.4.1 The operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and

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

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

- 1.5.1 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 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.

2.4 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 Landfill engineering

- 2.5.1 No construction of any new cell of the landfill shall commence until the operator has submitted construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.
- 2.5.2 Where the operator proposes to construct any new cell other than the first cell, but proposes no change from the design of the most recently approved cell which could have any impact on the performance of any element of the design, no construction of the new cell shall commence until the operator has submitted a cell layout drawing and the Environment Agency has confirmed that it is satisfied with the cell layout drawing.
- 2.5.3 The construction of a new cell 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.
- 2.5.4 No disposal of waste shall take place in a new cell until the operator has submitted a CQA Validation Report and the Environment Agency has confirmed that it is satisfied with the CQA Validation Report.
- 2.5.5 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.
- 2.5.6 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.
- 2.5.7 The operator shall submit a CQA Validation Report within four weeks of the completion of the construction of the relevant landfill infrastructure, or other time period agreed in writing with the Environment Agency.
- 2.5.8 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.5.5 and 2.5.6 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.
- 2.5.9 For the purposes of conditions 2.5.1, 2.5.2, 2.5.4 and 2.5.5, 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.
- 2.5.10 Where the Environment Agency has required further information under condition 2.5.9(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.

2.6 Waste acceptance

2.6.1 Wastes shall only be accepted for disposal if:

- (a) they are listed in schedule 2, table S2.1; and
- (b) they are non- hazardous waste; and
- (c) they are not whole used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400mm); and
- (d) they are not shredded used tyres; and
- (e) they are not liquid waste; and
- (f) they are not chemical substances from research and development or teaching activities, for example laboratory residues, which are unidentified and/or which are new and whose effects on man and/or the environment are unknown; and
- (g) all the relevant waste acceptance procedures have been completed; and
- (h) they fulfil the relevant waste acceptance criteria; and
- (i) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria; and
- (j) they are wastes which have been treated, except for: inert wastes for which treatment is not technically feasible; or it is waste other than inert waste and treatment would not reduce its quantity or the hazards which it poses to human health or the environment, [or liquid waste accepted for treatment at a permitted leachate treatment activity]; and
- (k) they are wastes with a code beginning with 07 05 and 16 03, they shall exclude waste medicinal products and pharmaceutically active waste materials arising from their manufacture.
- (l) they are not waste paper, metal, plastic or glass if that waste has been separately collected for the purpose of preparing for re-use or recycling

2.6.2 Wastes shall only be accepted for restoration where:

- (a) they are listed in schedule 2, table S2.2; and
- (b) they are accepted in accordance with a restoration plan approved in writing by the Environment Agency.

2.6.3 Gypsum-based and other high sulphate bearing waste shall not be deposited in cells used or intended to be used for the disposal of biodegradable non-hazardous waste. Wastes disposed of in a cell with gypsum-based and other high sulphate bearing wastes must meet the relevant waste acceptance criteria.

2.6.4 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 2.6.1.

2.6.5 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.

2.6.6 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.

2.6.7 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing Alb-PPCB-0203-09.

2.6.8 The quantity of waste that is disposed of or recovered at the regulated facility in any year shall not exceed the limits in schedule 1, table S1.4.

2.6.9 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 recovery 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.

2.7 Leachate levels

2.7.1 The limits for the level of leachate listed in schedule 3, table S3.1 shall not be exceeded.

2.8 Closure and aftercare

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

2.9 Landfill gas management

2.9.1 The operator shall take appropriate measures, including, but not limited to, those specified in any approved landfill gas management plan, to:

- (a) collect landfill gas; and
- (b) control the migration of landfill gas.

2.9.2 The operator shall use the collected landfill gas to produce energy. If the collected landfill gas cannot be used to produce energy, the operator shall use appropriate measures to flare or treat the gas in accordance with an approved landfill gas management plan.

2.9.3 The operator shall:

- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a revised landfill gas management plan;
- (b) implement the revised landfill gas management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3, tables S3.2 and S3.5.
- 3.1.3 The limits given in schedule 3, table S3.2 shall not be exceeded, save that compliance with the emission limits in that table shall include incorporation of the uncertainty allowance stated in guidance;
- (a) for engine 1, LFTGN08,
 - (b) for all flares, LFTGN05.
- 3.1.4 The operator shall prevent the input of any hazardous substances from the activities into groundwater.
- 3.1.5 The operator shall submit to the Environment Agency a review of the Hydrogeological Risk Assessment:
- (a) between nine and six months prior to the fourth anniversary of the granting of the permit; and
 - (b) between nine and six months prior to every subsequent six years after the fourth 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.
- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

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

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

3.4 Noise and vibration

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

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring and any other actions specified in the following tables in schedule 3 to this permit:
 - (a) Leachate specified in tables S3.1 and S3.9;
 - (b) Point source emissions specified in tables S3.2 and S3.5;
 - (c) Groundwater specified in tables S3.3 and S3.7;
 - (d) Landfill gas specified in tables S3.4, S3.6 and S3.8;
 - (e) Surface water specified in table S3.10.
- 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 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.

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 hazard or annoyance 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) the results of groundwater monitoring;
 - (ii) sub-surface landfill gas monitoring;
 - (iii) leachate levels, quality and quantities;
 - (iv) landfill gas generation and collection;
 - (v) waste types and quantities;
 - (vi) the specification and as built drawings of the basal, sidewall and capping engineering systems.

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, with the exception of 4.2.2(c) that must be provided by the end of February 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 this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this installation 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 energy consumed at the site, reported in the format set out in schedule 4 table S4.3
- (c) the annual production/treatment set out in schedule 4, table S4.2;
- (d) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;
- (e) 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;
- (f) 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;

- (g) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey;
 - (h) a plan(s) ('the monitoring and extraction point plan – MEPP') showing the locations of existing and any new leachate and landfill gas extraction and monitoring points.
- 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) using the forms specified in schedule 4, table S4.4 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:

- (c) the death of any of the named operators (where the operator consists of more than one named individual);
- (d) any change in the operator's name(s) or address(es); and
- (e) 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				
Activity reference	WFD Annex I and II operations (where applicable)	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR1	D5 –Specially engineered landfill	Section 5.2 Part A(1)(a), The disposal of waste in a landfill.	Landfill for non-hazardous waste	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in conditions 2.7, as an integral part of landfilling.
Directly Associated Activities				
AR2	D8 – Biological treatment of waste	-	Treatment of leachate in a facility with a capacity of <50t/day	Leachate arising from the landfill
AR3	N/A	-	Discharge of leachate from the landfill to foul sewer	From the leachate management system to point of entry to sewer, including tankering off-site
AR4	R1 – use principally as a fuel to generate energy	-	Pre-treatment and utilisation of landfill gas for energy recovery in an appliance with a rated thermal input <50MW	Treatment and utilisation of landfill gas arising from the landfill (rated thermal input 4.5MW)
AR5	N/A	-	Flaring of landfill gas for disposal in an appliance	Landfill gas arising from the landfill
AR6	N/A	-	Condensate management from the gas utilisation operations	Return of condensate from the processing and disposal of gas arising from the landfill
AR7	D6 – release to water body except seas/ oceans	-	Discharges of uncontaminated site drainage from the landfill	From surface water management system to point of entry to controlled waters

Table S1.1 activities				
Activity reference	WFD Annex I and II operations (where applicable)	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR8	N/A	-	Storage of fuel and new and used lubricating oil for operation of plant and equipment	Fuel storage to use in the operation of plant and equipment
AR9	N/A	-	Storage of other raw materials including lubricating oils and antifreeze	Storage in suitable bulk storage tanks. From receipt of raw materials to their use within the installation
AR10	N/A	-	Production and storage of waste oils. From the production of the waste to storage at the installation prior to removal by a third party	Production of waste oil during the operation of the listed activity and subsequent storage in suitable containers
AR11	N/A	-	Temporary storage of waste (leachate)	Leachate arising from the landfill
AR12	R10: Land treatment resulting in benefit to agriculture or ecological improvement	-	Recovery of waste for restoration	The use of wastes in table S2.2 only to provide restoration material for the permitted landfill.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to questions 1.2, 2.1, 2.2, 2.3, 2.4 and 2.5 in part B of the Application Form;	07/10/03
	Report entitled "Amendments in line with queries received from the Environment Agency dated 5 April 2004" excluding sections entitled "Air Dispersion Modelling" and "Assessment of Monitoring Data";	05/05/04

Table S1.2 Operating techniques		
Description	Parts	Date Received
	Report entitled Albury Landfill Site Landfill Gas Risk Assessment version 2 dated May 2004;	02/06/04
	Letter from SITA (reference 04/11/04/MG/AL) entitled "Albury Landfill Site (WML83031) – Gas Management" excluding points 1, 2, 4, 8, 9 and 10;	05/11/04
Application	Report entitled "Specification for an extension to the Gas Control System" dated October 2004;	27/10/04
	Letter dated 28 January 2005 and the report therein;	28/01/05
Post Permit Issue	Report on retro drilling of leachate wells;	18/01/06
	Letter from SITA to Area regarding proposals for capping tanks under improvement condition 6a;	03/02/06
	Letter on update of stability risk assessment;	21/05/06
	Report on review of landfill gas risk assessment.	22/03/06
	Plan Alb-PPCB-0203-02a Dated February 2003 - New Cell J and K reference	10/08/07
	Gas migration action plan v15	15/06/09
Transfer application EPR/JP3339CR/T001	Revised Part D: sections 3 and 4 of the application form.	03/04/12
	Revised installation boundary Alb-Gas-0312-02a dated May 2012 submitted	23/05/12
	Revised transfer and variation details submitted	01/05/12
Variation application EPR/BV1020IS/V007	Update to Surface Water Management Plan (AL/06), February 2013 in response to Improvement Condition 11.	28/02/13
	Further information received by email in response to queries on sections 6.3 and 7.1, table 3 of the Update to Surface Water Management Plan	18/03/13
	The agreed carbon dioxide Action Levels detailed in the 'Monitoring Management Plan (AL/07) Version 5.1 May 2013' and 'The Perimeter Borehole Carbon Dioxide Trigger Level Review, Report No. 1745/R/001/1, March 2013'.	20/05/13
Partial transfer application EPR/BP3439YF/T001	Gas Management Plan v3.0 October 2016 section 5	22/12/16
	Section 4e of Part D2	22/12/16
	Schedule 5 notice response regarding the supply of landfill gas to engine, storage of oils and uncontaminated drainage arrangements.	29/03/17

Table S1.2 Operating techniques		
Description	Parts	Date Received
	Monitoring Management Plan v9.1	07/06/17
Application variation EPR/BV1020IS/V010	Response to question 3a of the Part C3 application form: Technical standards	23/08/17
Response to schedule 5 notice dated 11/07/18	Response to question 1: Groundwater control limits for Chloride (excluding compliance limit for Chloride) Response to question 2: Groundwater control and compliance limits for Ammoniacal Nitrogen, Cadmium, Mecoprop, Nickel, Phenol and Toluene Response to question 3: Groundwater Contingency Actions	10/08/18
Application EPR/BV1020IS/V011	App C3 ICoP Appendix Fv1 This file replaces the file Application Variation App_C3_ICoP_Appendix_Fv1 11778028 included with the original permit variation application EPR/BV1020IS/V011.	
Response to schedule 5 notice dated 15/03/2022	Albury Landfill – Schedule 5 response Leachate Management Plan Aspects – report No. No 10481-R02 – September 2020– Revision 00 (LMPS2020) Excluding: <ul style="list-style-type: none"> • reference 'it is proposed to revise the Permit Limit the base of the site to a standard elevation of 83mAOD, supported by an 82.5mAOD Action Level' present on page 25 of LMPS2020'. • reference to '82.5mAOD Action Level' present on page 26 of LMP S2020. • reference to 'a control level of 82.5mAOD will be applied to all pumped leachate wells' on page 28 of LMPS2020. • Table 6 Leachate Level Compliance Locations of LMP S2020. • Table 7 Leachate Level Action Levels Secondary Wells of LMP S2020. • reference to 'It is possible to manage the site as a single hydraulic cell for leachate elevations above 82mAOD' on page 32 of LMP S2020. • Action Limit 82.5mAOD referred to for 'All Primary Leachate Wells' and 'All secondary Leachate Wells' in 'Monitoring point' column of Table in Appendix D Leachate Monitoring Schedule of LMP S2020. • reference to '83mAOD' in the section of text 'For Albury, this redefinition of the site's leachate management strategy is to move from a fixed head at individual locations to one 	26/07/22

Table S1.2 Operating techniques		
Description	Parts	Date Received
	<p>of a maximum elevation-controlled leachate surface at up to 83mAOD' located on Page 7 of LMP S2020</p> <ul style="list-style-type: none"> reference to '83mAOD' in the section of text 'As set out in the 2020 HRA and this LMP, it is proposed to revise the Permit Limit the base of the site to a standard elevation of 83mAOD' on page 26 of the LMP S2020. reference to the value 82.5mAOD and 83mAOD in the section of text 'As a secondary control mechanism, leachate levels are to be maintained at ≤83mAOD adopted for the site for the locations presented as per Table 6. A control level of 82.5mAOD will be applied to all pumped leachate wells on page 28 of LMP S2020. Reference to SUEZ's 'Landfill Gas Compliance Limit Review March 2021'. Reference to SUEZ's Albury landfill site- Monitoring Management Plan- May 2023 <p>'Albury Landfill Site Improvement Condition 3 Landfill Gas Compliance Limit Review November 2019' (IC3 LFGCLR N2019)</p>	
Response to request for information	<p>Revised 'Table 6 Leachate Level Compliance Locations' of SUEZ document 'Albury Landfill – Schedule 5 response Leachate Management Plan Aspects – report No. No 10481-R02 – September 2020– Revision 00'.</p> <p>Excluding 'Albury landfill site- Monitoring Management Plan – October 2023' provided with this information.</p>	Provided in SUEZ email to Environment Agency 28/06/2023 timed at 15:45
Response to request for information	Albury landfill site- Monitoring Management Plan – October 2023	October 2023

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The operator shall:	
	a) submit a written testing schedule and assessment methodology scope for leachate well recovery tests to the Environment Agency for technical assessment and approval for the leachate monitoring wells specified in 'Table S3.1 Leachate level limits and monitoring requirements' of permit variation EPR/BV1020IS/V011 which must include as a minimum the leachate monitoring wells A/STD1, A/STK2, A/MG2, A/MF2R, A/STFR2, A/STER2, A/MJ1R, A/MD3, A/MD1, A/MB1R2, and A/MB2R.	Within 6 months from the permit variation dated 21/12/2023, or such other date as may be agreed in advance in writing by the Environment Agency.
	b) undertake and complete leachate well recovery tests in accordance with the testing schedule and assessment methodology approved through completion of IC1 part (a).	Within 6 months from Environment Agency approval of IC1 part (a) or such other date as may be agreed in advance in writing by the Environment Agency.
	c) technically assess the data obtained through completion of IC1 part (b) using methods approved through completion of IC1 part (a).	Both IC1 part (c) and part (d) to be completed within 4 months from completion of IC1 part (b) or such other date as may be agreed in advance in writing by the Environment Agency.
	d) use the data and outcome of the technical assessment completed for IC1 part (c) to propose to the Environment Agency for its approval an assigned 'recovery time' for the operator to use in determining the timing of all future leachate level measurements in each of the tested leachate monitoring wells.	Both IC1 part (c) and part (d) to be completed within 4 months from completion of IC1 part (b) or such other date as may be agreed in advance in writing by the Environment Agency.
e) submit a written report of the outcomes of IC1 Parts (b), (c) and (d) to the Environment Agency for technical assessment and approval including, but not limited to:	Within 2 months from Environment Agency approval completion of IC1 part (d) or such other date as may be agreed in advance in writing by the Environment Agency.	
	i. the technical assessment of the data collected through completion of IC1 parts (b) and (c).	
	ii. a table specifying each Leachate Well identification number and the corresponding 'recovery time', as approved under IC1 part (d), for the timing of all future leachate level measurements in the Leachate level monitoring Wells tested.	

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<ul style="list-style-type: none"> iii. an explanation of how and when the operator shall conduct annual checks of the leachate level recovery times approved under IC1 part (d) for the leachate monitoring wells tested under this IC1 iv. confirmation of when the results of the annual leachate level recovery time checks will be reported to the Environment Agency together with the actions the operator will take should their annual leachate level recovery time check show a variation to that previously approved. 	
IC2	<p>The operator shall submit an updated Leachate Management Plan in writing to the Environment Agency for the Environment Agency's written approval.</p> <p>As a minimum, the plan and supporting documentation shall:</p> <ul style="list-style-type: none"> • Present the current and an updated conceptualisation of the site's leachate production and management strategy in aftercare to support any increase in the storage of leachate in the base of the site, including calibration of production rates across each phase against retained data sets for at least 6 years back from the year 2023 to reflect the impact of the transitional period of the site post capping towards a long-term steady state in stabilised aftercare conditions. • Provide details of all the wells and the leachate controlling assets that will be used to control leachate levels in the period from the year 2024 onwards, including details of the pumping performance for each pump and its effectiveness at reducing and maintaining leachate levels within the site. • Confirm whether leachate extraction is occurring from basal drainage blankets or from saturated waste via the local retro-drilled well points using data analysis and/or pumping trials. • Include the outcomes obtained and approved through completion of IC1. • Specify the proposed approach(es) to future collection and assessment of leachate level data across the site, in accordance with the outcomes of pump suspension trials to be carried out at the site. • Provide a contemporary plan detailing the monitoring locations to be used from the year 2024 onwards to measure leachate levels within the site, leachate quality within the site and key leachate quality and flow measurements through the site's Leachate Treatment Plant (LTP). • Provide evidence to confirm that the proposed leachate infrastructure can maintain and monitor the current and also proposed leachate level(s) with enough 'freeboard' to prevent any impact on groundwater. 	<p>18 months from the permit variation dated 21/12/2023, or other date agreed in writing with the Environment Agency.</p>

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<ul style="list-style-type: none"> • Specify a maintenance and monitoring programme for all the leachate assets (well, pumps, lines, storage tanks) deployed at the site. • Specify updated quality assurance procedures in relation to field data obtained at the site relating to leachate levels, quality and volume to ensure that the data reported to the Environment Agency is reliable for compliance purposes and to support technical assessment. • Set out a timescale and programme of works for the development and delivery of the identified works. • Specify a programme of review of progress on the management of leachate to comply with the approved leachate limits. <p>Upon the Environment Agency's written approval of the updated Leachate Management Plan, the Operator shall operate the site in accordance with the revised / updated Leachate Management Plan, as approved.</p>	
IC3	<p>The operator shall:</p> <p>a) Collect 12 monthly cycles. A cycle equates to at least one monthly monitoring for a period of 12 consecutive months of groundwater quality data from the following monitoring locations:</p> <ul style="list-style-type: none"> • A/BH03A, • A/BH05A, • A/BH08, • A/BH09, • A/BH10, • A/BH12, • A/BH13 • A/BH14, • A/BH4R, • A/BH15R and • A/BH18 	<p>13 months from the permit variation dated 21/12/2023.</p>

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<p>as shown on drawing reference as shown on Drawing Alb-P4-0623 – Environmental Monitoring Locations dated June 2023.</p> <p>The groundwater quality monitoring shall be obtained using a suitable Limit of Detection (“LOD”) and include as a minimum the parameters for:</p> <ul style="list-style-type: none"> • Lead <p>The groundwater quality samples shall be taken following the monitoring locations using a suitable well volume purging practice which is consistent with the standard approved for sampling the groundwater quality monitoring parameters the permit requires.</p>	
	<p>b) Analyse the data obtained through completion of IC3 part (a) using a suitable hydrogeological assessment method and statistical analytical technique(s) referred to in the Environment Agency’s Guidance located at www.gov.uk</p>	6 months from completion of IC 3 part (a)
	<p>c) Use the analysis from IC3 part b to propose:</p> <p>i) For groundwater monitoring boreholes:</p> <ul style="list-style-type: none"> • A/BH03A, • A/BH05A, • A/BH08, • A/BH09, • A/BH10, • A/BH12, • A/BH13 • A/BH14, • A/BH4R, • A/BH15R and • A/BH18 <p>ii) Groundwater quality compliance limits which can show there are no discernible inputs of the hazardous substance to groundwater:</p> <p>iii) for the parameter:</p> <ul style="list-style-type: none"> • Lead 	

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<p>Note: A substance is discernible if its concentration at a defined point is greater than either:</p> <ul style="list-style-type: none"> that found naturally in groundwater (known as the natural background quality) or a minimum reporting value (MRV), usually the limit of quantification or other value set out in legislation which for the groundwater quality parameter 'lead' is UKTAG 2016 (limit of quantification) of 0.2µg/l (0.0002 mg/l). <p>Whichever of the two has the highest concentration will be the discernible concentration.</p> <p>d) Submit the conclusions taken from IC3 parts (a) through to (c) in a written report to the Environment Agency for the Environment Agency's written approval. Once written approval from the Environment Agency for the Lead compliance levels has been given, these will apply to Table S3.3 Groundwater – emission limits and monitoring requirements for the lead parameter for the corresponding monitoring point. Thereafter from that point, the limit for cadmium shall be disregarded.</p>	
IC4	<p>The operator shall:</p> <p>a) provide as part of their annual Monitoring Report for the year 2024 a hydrogeological technical interpretive review of the site's full time series groundwater quality monitoring data for groundwater monitoring boreholes BH's 4R, 07, 06, 2A, 17, 16A, 16B, 15R and 18 which follows the Guidance located at www.gov.uk; and in:</p> <ol style="list-style-type: none"> Hydrogeological Risk Assessment for Landfills and the Derivation of Control and Trigger Levels (LFTGN01)' Environment Agency 2003: and Techniques for the Interpretation of Landfill Monitoring Data Guidance notes Final Technical Report P1-471. <p>b) use the outcome of IC4 part (a) to show the interim groundwater action levels and compliance limits for the groundwater quality parameter chloride in groundwater monitoring points BH4R, BH15R and BH18 in permit 'Table S3.3 Groundwater – emission limits and monitoring requirements'</p> <ol style="list-style-type: none"> remain appropriate for groundwater quality compliance monitoring for groundwater monitoring points BH4R, BH15R and BH18, or need to be revised for the groundwater quality parameter chloride including providing the proposed revised action levels and compliance limits. <p>c) Submit the outcome of IC4 to the Environment Agency for the Environment Agency's written approval. If it is necessary to revise the chloride compliance limit, then once written approval has been given by the Environment</p>	<p>The first date the requirements of permit condition 3.1.5 need to be satisfied following determination of permit variation EPR/BV1020IS/V011, or as otherwise agreed in writing with the Environment Agency.</p>

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<p>Agency, that approved chloride compliance level will apply to Table S3.3 Groundwater – emission limits and monitoring requirements for that parameter at the corresponding monitoring point from that point onwards.</p> <p>Note: the boreholes referenced in this improvement programme requirement are shown on drawing reference as shown on Drawing Alb-P4-0623 – Environmental Monitoring Locations dated June 2023.</p>	

Table S1.4 Annual waste input limits	
Category	Limit tonnes/year
Non-hazardous waste	0
Waste for restoration	350,000
Total	350,000

Schedule 2 – List of permitted wastes

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous 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 01	wastes from mineral metalliferous excavation
01 01 02	wastes from mineral non-metalliferous excavation
01 03	wastes from physical and chemical processing of metalliferous minerals
01 03 06	tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 08	dusty and powdery wastes other than those mentioned in 01 03 07
01 03 09	red mud from alumina production other than the wastes mentioned in 01 03 10
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 10	dusty and powdery wastes other than those mentioned in 01 04 07
01 04 11	wastes from potash and rock salt processing other than those mentioned in 01 04 07
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 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07
01 05	drilling muds and other drilling wastes
01 05 04	freshwater drilling muds and wastes
01 05 07	barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
01 05 08	chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 01	sludges from washing and cleaning
02 01 02	animal-tissue waste
02 01 03	plant-tissue waste
02 01 04	waste plastics (except packaging)
02 01 06	animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site
02 01 07	wastes from forestry
02 01 09	agrochemical waste other than those mentioned in 02 01 08
02 01 10	waste metal

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 01	sludges from washing and cleaning
02 02 02	animal-tissue waste
02 02 03	materials unsuitable for consumption or processing
02 02 04	sludges from on-site effluent treatment
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation
02 03 02	wastes from preserving agents
02 03 03	wastes from solvent extraction
02 03 04	materials unsuitable for consumption or processing
02 03 05	sludges from on-site effluent treatment
02 04	wastes from sugar processing
02 04 01	soil from cleaning and washing beet
02 04 02	off-specification calcium carbonate
02 04 03	sludges from on-site effluent treatment
02 05	wastes from the dairy products industry
02 05 01	materials unsuitable for consumption or processing
02 05 02	sludges from on-site effluent treatment
02 06	wastes from the baking and confectionery industry
02 06 01	materials unsuitable for consumption or processing
02 06 02	wastes from preserving agents
02 06 03	sludges from on-site effluent treatment
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 03	wastes from chemical treatment
02 07 04	materials unsuitable for consumption or processing
02 07 05	sludges from on-site effluent treatment
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
03 03 02	green liquor sludge (from recovery of cooking liquor)
03 03 05	de-inking sludges from paper recycling
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard
03 03 08	wastes from sorting of paper and cardboard destined for recycling
03 03 09	lime mud waste
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10
04	Wastes from the leather, fur and textile industries
04 01	wastes from the leather and fur industry
04 01 01	fleshings and lime split wastes
04 01 02	liming waste
04 01 06	sludges, in particular from on-site effluent treatment containing chromium
04 01 07	sludges, in particular from on-site effluent treatment free of chromium
04 01 08	waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium
04 01 09	wastes from dressing and finishing
04 02	wastes from the textile industry
04 02 09	wastes from composite materials (impregnated textile, elastomer, plastomer)
04 02 10	organic matter from natural products (for example grease, wax)
04 02 15	wastes from finishing other than those mentioned in 04 02 14
04 02 17	dyestuffs and pigments other than those mentioned in 04 02 16
04 02 20	sludges from on-site effluent treatment other than those mentioned in 04 02 19
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres
05	Wastes from petroleum refining, natural gas purification and pyrolytic treatment of coal
05 01	wastes from petroleum refining
05 01 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 13	boiler feedwater sludges
05 01 14	wastes from cooling columns
05 01 17	bitumen
05 06	wastes from the pyrolytic treatment of coal
05 06 04	waste from cooling columns
06	Wastes from inorganic chemical processes
06 03	wastes from the MFSU of salts and their solutions and metallic oxides
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 03 16	metallic oxides other than those mentioned in 06 03 15
06 05	sludges from on-site effluent treatment
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
06 09	wastes from the MFSU of phosphorous chemicals and phosphorous chemical processes
06 09 02	phosphorous slag
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03
06 11	wastes from the manufacture of inorganic pigments and opacifiers
06 11 01	calcium-based reaction wastes from titanium dioxide production
06 13	wastes from inorganic chemical processes not otherwise specified
06 13 03	carbon black
07	Wastes from organic chemical processes
07 01	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 02 13	waste plastic
07 02 15	wastes from additives other than those mentioned in 07 02 14
07 03	wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 12	sludges from on-site effluent treatment other than those mentioned in 07 03 11
07 04	wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides
07 04 12	sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 05	wastes from the MFSU of pharmaceuticals
07 05 12	sludges from on-site effluent treatment other than those mentioned in 07 05 11
07 05 14	solid wastes other than those mentioned in 07 05 13
07 06	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 12	sludges from on-site effluent treatment other than those mentioned in 07 06 11
07 07	wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11
08	Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks
08 01	wastes from MFSU and removal of paint and varnish
08 01 12	waste paint and varnish other than those mentioned in 08 01 11
08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13
08 01 16	aqueous sludges containing paint or varnish other than those mentioned in 08 01 15
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17
08 02	wastes from MFSU of other coatings (including ceramic materials)
08 02 01	waste coating powders
08 02 02	aqueous sludges containing ceramic materials

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
08 03	wastes from MFSU of printing inks
08 03 07	aqueous sludges containing ink
08 03 13	waste ink other than those mentioned in 08 03 12
08 03 15	ink sludges other than those mentioned in 08 03 14
08 03 18	waste printing toner other than those mentioned in 08 03 17
08 04	wastes from MFSU of adhesives and sealants (including water proofing products)
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09
08 04 12	adhesive and sealant sludges other than those mentioned in 08 04 11
08 04 14	aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13
09	Wastes from the photographic industry
09 01	wastes from the photographic industry
09 01 07	photographic film and paper containing silver or silver compounds
09 01 08	photographic film and paper free of silver or silver compounds
09 01 10	single-use cameras without batteries
09 01 12	single-use cameras containing batteries other than those mentioned in 09 01 11
10	Wastes from thermal processes
10 01	wastes from power stations and other combustion plants (except 19)
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 02	coal fly ash
10 01 03	fly ash from peat and untreated wood
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 17	fly ash from co-incineration other than those mentioned in 10 01 16
10 01 19	wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 21	sludges from on-site effluent treatment other than those mentioned in 10 01 20
10 01 23	aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
10 01 24	sands from fluidised beds
10 01 25	wastes from fuel storage and preparation of coal-fired power plants
10 01 26	wastes from cooling-water treatment
10 02	wastes from the iron and steel industry
10 02 01	wastes from the processing of slag
10 02 02	unprocessed slag
10 02 08	solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10	mill scales
10 02 12	wastes from cooling-water treatment other than those mentioned in 10 02 11
10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	other sludges and filter cakes

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
10 03	wastes from aluminium thermal metallurgy
10 03 02	anode scraps
10 03 05	waste alumina
10 03 16	skimmings other than those mentioned in 10 03 15
10 03 18	carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 20	flue-gas dust other than those mentioned in 10 03 19
10 03 22	other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21
10 03 24	solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 28	wastes from cooling-water treatment other than those mentioned in 10 03 27
10 03 30	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04	wastes from lead thermal metallurgy
10 04 10	wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05	wastes from zinc thermal metallurgy
10 05 01	slags from primary and secondary production
10 05 04	other particulates and dust
10 05 09	wastes from cooling-water treatment other than those mentioned in 10 05 08
10 05 11	dross and skimmings other than those mentioned in 10 05 10
10 06	wastes from copper thermal metallurgy
10 06 01	slags from primary and secondary production
10 06 02	dross and skimmings from primary and secondary production
10 06 04	other particulates and dust
10 06 10	wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07	wastes from silver, gold and platinum thermal metallurgy
10 07 01	slags from primary and secondary production
10 07 02	dross and skimmings from primary and secondary production
10 07 03	solid wastes from gas treatment
10 07 04	other particulates and dust
10 07 05	sludges and filter cakes from gas treatment
10 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08	wastes from other non-ferrous thermal metallurgy
10 08 04	particulates and dust
10 08 09	other slags
10 08 11	dross and skimmings other than those mentioned in 10 08 10
10 08 13	carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
10 08 14	anode scrap
10 08 16	flue-gas dust other than those mentioned in 10 08 15
10 08 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 20	wastes from cooling-water treatment other than those mentioned in 10 08 19
10 09	wastes from casting of ferrous pieces
10 09 03	furnace slag
10 09 06	casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
10 09 08	casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 10	flue-gas dust other than those mentioned in 10 09 09
10 09 12	other particulates other than those mentioned in 10 09 11
10 09 14	waste binders other than those mentioned in 10 09 13
10 09 16	waste crack-indicating agent other than those mentioned in 10 09 15
10 10	wastes from casting of non-ferrous pieces
10 10 03	furnace slag
10 10 06	casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05
10 10 08	casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
10 10 10	flue-gas dust other than those mentioned in 10 10 09
10 10 12	other particulates other than those mentioned in 10 10 11
10 10 14	waste binders other than those mentioned in 10 10 13
10 10 16	waste crack-indicating agent other than those mentioned in 10 10 15
10 11	wastes from manufacture of glass and glass products
10 11 03	waste glass-based fibrous materials
10 11 05	particulates and dust
10 11 10	waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
10 11 12	waste glass other than those mentioned in 10 11 11
10 11 14	glass-polishing and -grinding sludge other than those mentioned in 10 11 13
10 11 16	solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 11 20	solid wastes from on-site effluent treatment other than those mentioned in 10 11 19
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 01	waste preparation mixture before thermal processing
10 12 03	particulates and dust
10 12 05	sludges and filter cakes from gas treatment
10 12 06	discarded moulds

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
10 12 10	solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 12	wastes from glazing other than those mentioned in 10 12 11
10 12 13	sludge from on-site effluent treatment
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 01	waste preparation mixture before thermal processing
10 13 04	wastes from calcination and hydration of lime
10 13 06	particulates and dust (except 10 13 12 and 10 13 13)
10 13 07	sludges and filter cakes from gas treatment
10 13 10	wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12
10 13 14	waste concrete and concrete sludge
11	Wastes from chemical surface treatment and coating of metals and other materials; non-ferrous hydro-metallurgy
11 01	wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
11 01 14	degreasing wastes other than those mentioned in 11 01 13
11 02	wastes from non-ferrous hydrometallurgical processes
11 02 03	wastes from the production of anodes for aqueous electrolytical processes
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 05	wastes from hot galvanising processes
11 05 01	hard zinc
11 05 02	zinc ash
12	Wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 01	ferrous metal filings and turnings
12 01 02	ferrous metal dust and particles
12 01 03	non-ferrous metal filings and turnings
12 01 04	non-ferrous metal dust and particles
12 01 05	plastics shavings and turnings
12 01 13	welding wastes
12 01 15	machining sludges other than those mentioned in 12 01 14
12 01 17	waste blasting material other than those mentioned in 12 01 16

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
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 01	paper and cardboard packaging
15 01 02	plastic packaging
15 01 03	wooden packaging
15 01 04	metallic packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 07	glass packaging
15 01 09	textile packaging
15 02	absorbents, filter materials, wiping cloths and protective clothing
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
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 03	end-of-life tyres
16 01 12	brake pads other than those mentioned in 16 01 11
16 01 17	ferrous metal
16 01 18	non-ferrous metal
16 01 19	plastic
16 01 20	glass
16 02	wastes from electrical and electronic equipment
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
16 03	off-specification batches and unused products
16 03 04	inorganic wastes other than those mentioned in 16 03 03
16 03 06	organic wastes other than those mentioned in 16 03 05
16 08	spent catalysts
16 08 01	spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)
16 08 03	spent catalysts containing transition metals or transition metal compounds not otherwise specified
16 11	waste linings and refractories
16 11 02	carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
16 11 06	linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05
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 01	wood
17 02 02	glass
17 02 03	plastic
17 03	bituminous mixtures, coal tar and tarred products
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
17 04	metals (including their alloys)
17 04 01	copper, bronze, brass
17 04 02	aluminium
17 04 03	lead
17 04 04	zinc
17 04 05	iron and steel
17 04 06	tin
17 04 07	mixed metals
17 04 11	cables other than those mentioned in 17 04 10
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 06	insulation materials and asbestos-containing construction materials
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
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
18	Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)
18 01	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
18 02	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 03	wastes whose collection and disposal is not subject to special requirements in order to prevent infection
18 02 06	chemicals other than those mentioned in 18 02 05
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 01	wastes from incineration or pyrolysis of waste
19 01 02	ferrous materials removed from bottom ash
19 01 12	bottom ash and slag other than those mentioned in 19 01 11
19 01 14	fly ash other than those mentioned in 19 01 13
19 01 16	boiler dust other than those mentioned in 19 01 15
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17
19 01 19	sands from fluidised beds
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 03	stabilised/solidified wastes
19 03 05	stabilised wastes other than those mentioned in 19 03 04
19 03 07	solidified wastes other than those mentioned in 19 03 06
19 04	vitrified waste and wastes from vitrification
19 04 01	vitrified waste
19 05	wastes from aerobic treatment of solid wastes
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost
19 06	wastes from anaerobic treatment of waste
19 06 04	digestate from anaerobic treatment of municipal waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 08	wastes from waste water treatment plants not otherwise specified
19 08 01	screenings
19 08 02	waste from desanding
19 08 05	sludges from treatment of urban waste water
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
19 09	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 01	solid waste from primary filtration and screenings
19 09 02	sludges from water clarification
19 09 03	sludges from decarbonation
19 09 04	spent activated carbon
19 09 05	saturated or spent ion exchange resins
19 09 06	solutions and sludges from regeneration of ion exchangers
19 10	wastes from shredding of metal-containing wastes
19 10 01	iron and steel waste
19 10 02	non-ferrous waste
19 10 04	fluff-light fraction and dust other than those mentioned in 19 10 03
19 10 06	other fractions other than those mentioned in 19 10 05
19 11	wastes from oil regeneration
19 11 06	sludges from on-site effluent treatment other than those mentioned in 19 11 05
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper and cardboard
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 05	glass
19 12 07	wood other than that mentioned in 19 12 06
19 12 08	textiles
19 12 09	minerals (for example sand, stones)
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	wastes from soil and groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05
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 01	paper and cardboard
20 01 02	glass
20 01 08	biodegradable kitchen and canteen waste
20 01 10	clothes

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
20 01 11	textiles
20 01 25	edible oil and fat
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 30	detergents other than those mentioned in 20 01 29
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
20 01 40	metals
20 01 41	wastes from chimney sweeping
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste
20 02 02	soil and stones
20 02 03	other non-biodegradable wastes
20 03	other municipal wastes
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 04	septic tank sludge
20 03 06	waste from sewage cleaning
20 03 07	bulky waste

Table S2.2 Permitted waste types for restoration	
Waste code	Description
01	Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals
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
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
02 04	wastes from sugar processing
02 04 01	soil from cleaning and washing beet
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
03 03	wastes from pulp, paper and cardboard production and processing

Table S2.2 Permitted waste types for restoration	
Waste code	Description
03 03 05	de-inking sludges from paper recycling
03 03 09	lime mud waste
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 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
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 05	wastes from aerobic treatment of solid wastes
19 05 03	off-specification compost
19 08	wastes from waste water treatment plants not otherwise specified
19 08 05	sludges from treatment of urban waste water
19 09	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 02	sludges from water clarification
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 09	minerals (for example sand, stones)
19 13	wastes from soil and groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation other than those mentioned in 19 13 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 Leachate level limits and monitoring requirements			
Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring standard and method
Operational Cells or Phases (Any cells or phases that do not have a final engineered cap agreed in accordance with the landfill engineering condition, 2.5)			
-	-	Monthly	As specified in Environment Agency Guidance LFTGN02 (February 2003) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Or as otherwise agreed with the Agency as part of a leachate monitoring plan.
Non Operational Cells or Phases (Any cells or phases that have a final engineered cap agreed in accordance with the landfill engineering condition, 2.5)			
As shown on drawing reference Drawing Alb-P4-0623 – Environmental Monitoring Locations dated June 2023: Landfill Cell1 monitoring points (Eastern) - A/MA1/2, A/STA1R, A/STA2R, A/MB1R2, A/MB2R, A/MD1, A/STD1, A/MD3, A/STD3R2, A/MJ1R, A/STJR, A/STK1R, A/STK2 Landfill Cell 2 monitoring points (Western) - A/MC1R2, A/ME1R2, A/STER2, A/MF2R, A/STFR2, A/MG1R2, A/MG2, A/MH1R, A/STH1R2	82.3 mAOD	Quarterly	As specified in Environment Agency Guidance LFTGN02 (February 2003) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Or as otherwise agreed with the Agency as part of a leachate monitoring plan.

Table S3.2 Point source emissions to air – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
LFGE as shown on drawing Alb-P4-0516a dated May 2016	Oxides of Nitrogen	Gas utilisation plant	500 mg/m ³	Hourly mean	Annually	<p>Monitoring method shall be as per <u>monitoring-stack-emissions-techniques-and-standards-for-periodic-monitoring</u> or such other subsequent guidance as may be agreed in writing with the Environment Agency.</p> <p>Limits shall be based on normal operating conditions and load. Temperature 0°C (273 K); pressure: 101.3 kPa; and oxygen: 5 per cent (dry gas).</p> <p>Uncertainty in limits shall be calculated in accordance with section on data standardisation in LFTGN08.</p>
	CO		1400 mg/m ³			
	Total VOCs		1000 mg/m ³			
Flares 1, 2 and 3 located in the gas flare compound shown on drawing reference Alb-EPR-1116-05 Figure 5 dated November 2016	Oxides of Nitrogen	Landfill Gas Flares	150 mg/m ³	Hourly mean	Annually	<p>Monitoring method shall be as per <u>monitoring-stack-emissions-techniques-and-standards-for-periodic-monitoring</u> or such other subsequent guidance as may be agreed in writing with the Environment Agency</p> <p>Monitoring is unnecessary where the flare is active for <10% of the year.</p> <p>Limits shall be based on normal operating conditions. Temperature: 0°C (273K); pressure: 101.3 kPa and oxygen: 3 percent (dry gas).</p> <p>Uncertainty in limits shall be calculated in accordance with LFTGN05.</p>
	CO		50 mg/m ³			
	Total VOCs		10 mg/m ³			

Table S3.3 Groundwater – emission limits and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
A/BH03A as shown on drawing reference Drawing Alb-P4-0623 – Environmental Monitoring Locations dated June 2023	Ammoniacal Nitrogen	0.4 mg/l	Spot Sample	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
	Cadmium	0.005 mg/l (*1C3)			
	Lead	(*1C3)			
	Chloride	100 mg/l			
	Mecoprop	0.1 µg/l			
	Nickel	0.02 mg/l			
	Xylene	3 µg/l			
A/BH05A as shown on drawing reference Drawing Alb-P4-0623 – Environmental Monitoring Locations dated June 2023	Ammoniacal Nitrogen	0.4 mg/l	Spot Sample	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
	Cadmium	0.005 mg/l (*1C3)			
	Lead	(*1C3)			
	Chloride	100 mg/l			
	Mecoprop	0.1 µg/l			
	Nickel	0.02 mg/l			
	Xylene	3 µg/l			
A/BH08 as shown on drawing reference Drawing Alb-P4-0623 – Environmental	Ammoniacal Nitrogen	0.4 mg/l	Spot Sample	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
	Cadmium	0.005 mg/l (*1C3)			
	Lead	(*1C3)			

Table S3.3 Groundwater – emission limits and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Monitoring Locations dated June 2023	Chloride	100 mg/l			
	Mecoprop	0.1 µg/l			
	Nickel	0.02 mg/l			
	Xylene	3 µg/l			
	Toluene	4 µg/l			
A/BH09 as shown on drawing reference Drawing Alb-P4-0623 – Environmental Monitoring Locations dated June 2023	Ammoniacal Nitrogen	0.4 mg/l			
	Cadmium	0.005 mg/l (*IC3)			
	Lead	(*IC3)			
	Chloride	100 mg/l			
	Mecoprop	0.25 µg/l			
	Nickel	0.02 mg/l			
	Xylene	3 µg/l			
	Toluene	4 µg/l			
A/BH10 as shown on drawing reference Drawing Alb-P4-0623 – Environmental Monitoring Locations dated June 2023	Ammoniacal Nitrogen	0.4 mg/l			
	Cadmium	0.005 mg/l (*IC3)			
	Lead	(*IC3)			
	Chloride	100 mg/l			
	Mecoprop	0.1 µg/l			
	Nickel	0.02 mg/l			
	Xylene	3 µg/l			

Table S3.3 Groundwater – emission limits and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
	Toluene	4 µg/l			
A/BH12 as shown on drawing reference Drawing Alb-P4-0623 – Environmental Monitoring Locations dated June 2023	Ammoniacal Nitrogen	0.4 mg/l			
	Cadmium	0.005 mg/l (*1C3)			
	Lead	(*1C3)			
	Chloride	100 mg/l			
	Mecoprop	1.1 µg/l			
	Nickel	0.02 mg/l			
	Xylene	3 µg/l			
	Toluene	4 µg/l			
A/BH13 as shown on drawing reference Drawing Alb-P4-0623 – Environmental Monitoring Locations dated June 2023	Ammoniacal Nitrogen	0.4 mg/l			
	Cadmium	0.005 mg/l (*1C3)			
	Lead	(*1C3)			
	Chloride	100 mg/l			
	Mecoprop	0.1 µg/l			
	Nickel	0.02 mg/l			
	Xylene	3 µg/l			
	Toluene	4 µg/l			
A/BH14	Ammoniacal Nitrogen	0.4 mg/l			

Table S3.3 Groundwater – emission limits and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
as shown on drawing reference Drawing Alb-P4-0623 – Environmental Monitoring Locations dated June 2023	Cadmium	0.005 mg/l (*1C3)			
	Lead	(*1C3)			
	Chloride	100 mg/l			
	Mecoprop	0.1 µg/l			
	Nickel	0.02 mg/l			
	Xylene	3 µg/l			
	Toluene	4 µg/l			
A/BH04R as shown on drawing reference Drawing Alb-P4-0623 – Environmental Monitoring Locations dated June 2023	Ammoniacal Nitrogen	0.4 mg/l			
	Cadmium	0.005 mg/l (*1C3)			
	Lead	(*1C3)			
	Chloride	150 mg/l ⁽¹⁾			
	Mecoprop	No limit set ⁽²⁾			
	Nickel	0.02 mg/l			
	Xylene	3 µg/l			
	Toluene	4 µg/l			
A/BH15R as shown on drawing reference Drawing Alb-P4-0623 – Environmental	Ammoniacal Nitrogen	0.4 mg/l			
	Cadmium	0.005 mg/l (*1C3)			
	Lead	(*1C3)			
	Chloride	100 mg/l ⁽¹⁾			

Table S3.3 Groundwater – emission limits and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Monitoring Locations dated June 2023	Mecoprop	0.1 µg/l			
	Nickel	0.02 mg/l			
	Xylene	3 µg/l			
	Toluene	4 µg/l			
A/BH18 as shown on drawing reference Drawing Alb-P4-0623 – Environmental Monitoring Locations dated June 2023	Ammoniacal Nitrogen	0.4 mg/l			
	Cadmium	0.005 mg/l (*IC3)			
	Lead	(*IC3)			
	Chloride	100 mg/l ⁽¹⁾			
	Mecoprop	0.1 µg/l			
	Nickel	0.02 mg/l			
	Xylene	3 µg/l			
	Toluene	4 µg/l			

(* IC3) – Interim – Lead compliance limit to be derived through completion of IC3, once Lead compliance limit approved the limit for cadmium to be disregarded.

⁽¹⁾ - Interim – derived through completion of IC4 for technical assessment as part of the Hydrogeological Risk Assessment Review (HRAR) required by permit condition 3.1.5.

⁽²⁾ - Borehole specific contingency action plan located in SUEZ document 'ALBURY LANDFILL SITE – MONITORING MANAGEMENT PLAN - October 2023'

Table S3.4 Landfill gas in external monitoring boreholes – limits and monitoring requirements

Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
A/D1, A/D2, A/D3, A/D4, A/D5, A/G1, A/G1/2, A/G2, A/G2/2, A/G3, A/G3/2, A/G4, A/G4/2, A/G5R, A/G6R, A/G6/2, A/G6/3, A/G7, A/G7/2, A/G8, A/G9, A/G10, A/G10/2, A/G11, A/G11/2, A/G12, A/G12/2, A/G13, A/G13/2, A/G14, A/G14/2, A/G15, A/G15/2, A/G16, A/G16/2, A/G17, A/G17/2, A/G18, A/G18/2, A/G19R, A/G20R, A/G21, A/G22, A/G23, A/G24, A/G25, A/G26, A/G27, A/P1, A/P2, A/T2, and A/T3 As shown on drawing reference Drawing Alb-P4-0623 – Environmental Monitoring Locations dated June 2023.	Methane	1 %v/v	Monthly unless otherwise approved by the Environment Agency in writing.	As per LFTGN03 (September 2004) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Record whether the ground is: <ul style="list-style-type: none"> • waterlogged • frozen • snow covered
	Carbon Dioxide	no limit		
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Differential pressure	no limit		

Table S3.5 Point source emissions to sewer, effluent treatment plant or by tankering or other transfer off-site – emission limits and monitoring requirements

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
At point shown on drawing reference Alb-PPCB-0203-08 dated February 2003	Dissolved methane	Leachate Treatment Plant	-	Spot sample	Monthly	
	Volume		Less than 50 m ³ /day			
	Suspended solids		-			
	pH		-			
	Zinc		-			
	Nickel		-			
	Lead		-			
	Copper		-			
	Chromium		-			
	Sulphate		-			
	Sulphide		-			
	Chemical Oxygen Demand		-			
Ammoniacal Nitrogen	-					

Table S3.6 Landfill gas emissions from capped surfaces for cells that have accepted non hazardous biodegradable waste – monitoring requirements

Monitoring point Ref. /description	Parameter	Monitoring frequency	Monitoring Standard or method
Permanently capped zone	Methane concentration	Every 12 months	As per LFTGN 07 (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
Temporarily capped zone	Methane concentration	Every 12 months	As per LFTGN 07 (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
Whole site	Total Methane emission	As agreed with the Environment Agency	As per LFTGN 07 (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
Uncapped areas	Methane concentration	Every 12 months	As agreed with the Environment Agency based on the wording of revised LFTGN 07 or landfill sector guidance or such other subsequent guidance as may be agreed in writing with the Environment Agency.

Table S3.7 Groundwater – other monitoring requirements

Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method
Up gradient MEPP	Water level, Ammoniacal Nitrogen, Chloride, Electrical Conductivity, pH	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
	Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Sodium, Total Alkalinity, Total Sulphates, Zinc	Annually	
	Hazardous substances	Annually for first six years of operation	
Down or cross gradient MEPP	Water level, Ammoniacal Nitrogen, Chloride, Electrical Conductivity, pH	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
	Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Sodium, Total Alkalinity, Total Sulphates, Zinc	Annually	
	Hazardous substances	Annually for first six years of operation then every two years	After the initial 6 year monitoring period for hazardous substances, if the results of quarterly or annual monitoring suggest an increase in contamination, the operator shall also undertake a full leachate hazardous substances screen.
MEPP	Base of monitoring point (mAoD)	Annually	

Table S3.8 Landfill gas – other monitoring requirements

Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
In waste gas monitoring boreholes or sealed leachate wells or sacrificial gas extraction system [in cells for non-hazardous waste]	Methane Carbon Dioxide Oxygen Carbon Monoxide Differential pressure Atmospheric pressure	Monthly until gas extraction commences	Calibrated handheld monitoring instrument	<p>For cells or phases which have no active gas extraction.</p> <p>Gas extraction system shall be installed and extraction commenced once monitoring shows onset of methane production in waste at a rate that can be sustainably extracted.</p> <p>Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring.</p>
	Hydrogen Sulphide	Quarterly	Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (V3, 2010) or other such subsequent guidance as may be agreed in writing with the Environment Agency or a method agreed with the Environment Agency.	<p>For cells or phases which have no active gas extraction.</p> <p>Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring.</p> <p>Concentrations of hydrogen sulphide shall be assessed in accordance with the gas and odour management plans</p>

Table S3.8 Landfill gas – other monitoring requirements				
Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Gas collection system at well control valve, manifolds (if applicable) and strategic points on gas system	Methane Carbon Dioxide Oxygen Carbon Monoxide Atmospheric pressure Gas flow rate or suction % Balance Gas (calculated as the difference between the sum of measured gases and 100%)	Monthly or at such other frequency as may be agreed in writing with the Environment Agency.	Calibrated handheld monitoring instrument	Where the oxygen concentration exceeds 5% or the % balance gas is greater than 20% an assessment of air ingress into the system shall be undertaken. Where the concentration of carbon monoxide exceeds 100ppm then further investigation shall be undertaken. Record the ambient air temperature and whether the ground is: waterlogged frozen snow covered
Gas collection system at well control valve	Hydrogen Sulphide	Six monthly	Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (V3, 2010) or other such subsequent guidance as may be agreed in writing with the Environment Agency or a method agreed with the Environment Agency.	Concentrations of hydrogen sulphide shall be assessed in accordance with the gas and odour management plans
Output to flare or LFG Utilisation Compound	Trace gas	Annually	Trace gas analysis in accordance with LFTGN04 (V3, 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency [or a trace gas characterisation method agreed with the Environment Agency].	The concentration of trace gas components shall be assessed against the assumptions made in the Landfill gas risk assessment and dispersion modelling.

Table S3.8 Landfill gas – other monitoring requirements				
Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Output to flare or LFG Utilisation Compound	Methane Carbon Dioxide Oxygen Gas flow rate Suction % Balance Gas (calculated as the difference between the sum of measured gases and 100%)	Weekly		Where the oxygen concentration exceeds 5% or the % balance gas is greater than 20% an assessment of air ingress into the system shall be undertaken.
Flares 1, 2 and 3 shown on Alb-EPR-1116-05 Figure 5 dated November 2016	Temperature	As per LFTGN05 (V2, 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.	Monitoring method shall be as per <u>monitoring-stack-emissions-techniques-and-standards-for-periodic-monitoring</u> or such other subsequent guidance as may be agreed in writing with the Environment Agency.	
Gas engine, post turbo	NOx and CO	Quarterly	In accordance with Appendix C of LFTGN08, (V2, 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency.	Where monitoring using hand-held, electrochemical equipment indicates an exceedance of the emissions standards specified in table S3.2, these shall be used as action levels and the operator shall investigate the cause and take appropriate measures to reduce emissions.

Table S3.9 Leachate – other monitoring requirements				
Monitoring point reference or description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Operational Cells or Phases (Any cell or phases that do not have a final engineered cap agreed in accordance with condition 2.5)				
MEPP	Ammoniacal Nitrogen, Arsenic, BOD, Cadmium, Calcium, Chloride, Chromium, COD, Copper, Electrical Conductivity, Iron, Lead, Magnesium, Manganese, Nickel, pH, Potassium, Sodium, Total Alkalinity, Total Sulphates, Zinc	Quarterly	At leachate extraction points as listed in table S3.1 unless otherwise agreed in writing through an MEPP.	None
MEPP	Hazardous substances	Annually	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	
MEPP	Depth to base (mAOD)	Annually		
Non Operational Cells or Phases (Any cell or phases that have a final engineered cap agreed in accordance with condition 2.5)				
MEPP	Ammoniacal Nitrogen, Arsenic, BOD, Cadmium, Calcium, Chloride, Chromium, COD, Copper, Electrical Conductivity, Iron, Lead, Magnesium, Manganese, Nickel, pH, Potassium, Sodium, Total Alkalinity, Total Sulphates, Zinc	Annually	At leachate extraction points as listed in table S3.1 unless otherwise agreed in writing through an MEPP.	None
MEPP	Hazardous substances	Once every four years	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	
MEPP	Depth to base (mAOD)	Annually		

Table S3.10 Surface water – other monitoring requirements				
Monitoring Point Ref. /Description	Parameter	Monitoring frequency*	Monitoring standard or method	Other specifications
MEPP	Ammoniacal Nitrogen Chloride Electrical conductivity pH Suspended solids Visual Oil and Grease	Monthly	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.
*unless otherwise 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
Leachate [and/ or groundwater] level As specified by schedule 3, table S3.1	Every 3 months	31 March, 30 June, 30 September, 31 December
Point source emission to air As specified by schedule 3, table S3.2	Every 12 months	31 December
Emission to groundwater As specified by schedule 3, table S3.3	Every 3 months	31 March, 30 June, 30 September, 31 December
Landfill gas in external monitoring boreholes As specified by schedule 3, table S3.4	Every 3 months	31 March, 30 June, 30 September, 31 December
Point source emission to sewer, effluent treatment plant, tankering or other off site transfer As specified by schedule 3, table S3.5	Every 3 months	31 March, 30 June, 30 September, 31 December
Emission of landfill gas from capped surfaces As specified by schedule 3, table S3.6	Every 12 months	31 December
Other groundwater monitoring As specified by schedule 3, table S3.7	Every 3 months	31 March, 30 June, 30 September, 31 December
Other Landfill gas monitoring As specified by schedule 3, table S3.8	Every 3 months	31 March, 30 June, 30 September, 31 December
Trace gas monitoring	Every 12 months	31 December
Other leachate monitoring As specified by schedule 3, table S3.9	Every 12 months	31 December
Other surface water monitoring As specified by schedule 3, table S3.10	Every 12 months	31 December
Meteorological data Landfill Directive, annex III, section 2	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: Annual production/treatment	
Leachate: Disposed of off site; Disposed of to any onsite effluent treatment plant; Recirculated into the waste mass; Accepted from offsite for treatment at any onsite effluent treatment plant.	Cubic metres/year
Landfill gas: combustion in flares; combustion in gas engines; Other methods of gas utilisation. Average methane content entering the landfill gas utilisation or treatment compound (based on the annual average of Table S3.8 monitoring) Methane generation rate (50%ile from a representative model)	Normalised cubic metres/year % methane v/v m ³ /hr

Table S4.3 Performance Parameters			
Parameter	Frequency of assessment	Annual total	Unit
Energy used (including for leachate treatment)	Annually		MWh of electricity or natural gas

Table S4.4 Reporting Forms		
Media/parameter	Reporting Format	Date of Form
Leachate	Form leachate 1 or other reporting format to be agreed in writing with the Environment Agency	01/01/15
Air	Form Air 1 or other reporting format to be agreed in writing with the Environment Agency	01/01/15
Controlled water	Form Water 1 or other reporting format to be agreed in writing with the Environment Agency	01/01/15
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency	01/01/15
Sewer	Form Sewer 1 or other reporting format to be agreed in writing with the Environment Agency	01/01/15
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency	01/01/15
Waste Return	E-waste Return Form	-
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Environment Agency	01/01/15

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.	
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Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“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.

“cell layout drawing” means:

- (a) A drawing or drawings of the proposed new cell that illustrate(s) in sufficient detail:
 - (i) the location of the new cell on the site;
 - (ii) the proposed level (Above Ordnance Datum) of the base of the excavation;
 - (iii) the proposed finished levels of all containment and leachate drainage layers;
 - (iv) the positions of leachate management infrastructure; and
 - (v) the positions of landfill gas infrastructure (if appropriate).
- (b) A detailed written explanation of any minor design changes from the most recently approved cell that result from the new cell layout. This would include, for example:
 - (i) changes to slope length and gradient within the cell;
 - (ii) new leachate or landfill gas infrastructure construction design;
 - (iii) slope stability issues such as new basal excavation level; and/or
 - (iv) depth of waste.

“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 New Cell or Landfill Infrastructure.

“CQA Validation Report” means the final “as built” construction and engineering details of the New Cell or 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 New Cell or Landfill Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the Construction Proposals.

“emissions to land” includes emissions to groundwater.

“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 those 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.

“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 and listed in our Hydrogeological risk assessment guidance.

“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:

- permanent capping;
- temporary capping (i.e. engineered temporary caps not cover materials);
- leachate abstraction systems;
- leachate transfer, treatment and storage systems;
- surface water drainage systems;
- leachate monitoring wells;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes;
- landfill gas management systems;

- lining within the installation.

within the site.

“LFTGN 05” means Environment Agency Guidance for monitoring enclosed landfill gas flares.

“LFTGN 07” means Environment Agency Guidance on monitoring landfill gas surface emissions.

“LFTGN 08” means Environment Agency Guidance for monitoring landfill gas engines.

“liquids” means any liquid other than leachate within the engineered landfill containment system.

“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.

“M2” means Environment Agency Guidance Monitoring of stack emissions to air.

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

“medicinal product” means any medicine licensed by the Medicines and Healthcare products Regulatory Agency (MHRA) or their predecessors under the Medicines Act 1968, section 130.

“MEPP” Monitoring and extraction point plan, required by condition 4.2.2(h) to specify extraction points and routine monitoring locations.

“new cell” means any new cell, part of a cell or other similar new area of the site where waste deposit is to commence after issue of this permit and can comprise:

- groundwater under-drainage system;
- permanent geophysical leak location system;
- leak detection layer;
- sub-grade;
- barriers;
- liners;
- leachate collection system;
- leachate abstraction system;
- separation bund/layer;
- cell or area surface water drainage system;
- side wall subgrade and containment systems;

for the New Cell.

“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.

“pests” means Birds, Vermin and Insects.

“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.

“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).

“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).

“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.

‘sustainably extracted’ means where suction can be applied to the extraction wells such that a flow rate of landfill gas, with a methane content capable of either being combusted, or treated by bio-oxidation, can be extracted without increasing the risk of air ingress to the waste or inducing aerobic degradation within the waste.

‘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.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means the standards included in Environment Agency Guidance for Monitoring Enclosed Landfill Gas Flares LFTGN 05 or Guidance for Monitoring Landfill Gas Engine Emissions LFTGN 08.

Where the following terms appear in the waste code list in Tables S2.1 or S2.2 they have the meaning given below:

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

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

‘polychlorinated biphenyls and polychlorinated terphenyls’ (‘PCBs’) means PCBs as defined in Article 2(a) of Council Directive 96/59/EC’.

Article 2(a) says that ‘PCBs’ means:

- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane
- any mixture containing any of the above mentioned substances in a total of more than 0,005 % by weight;

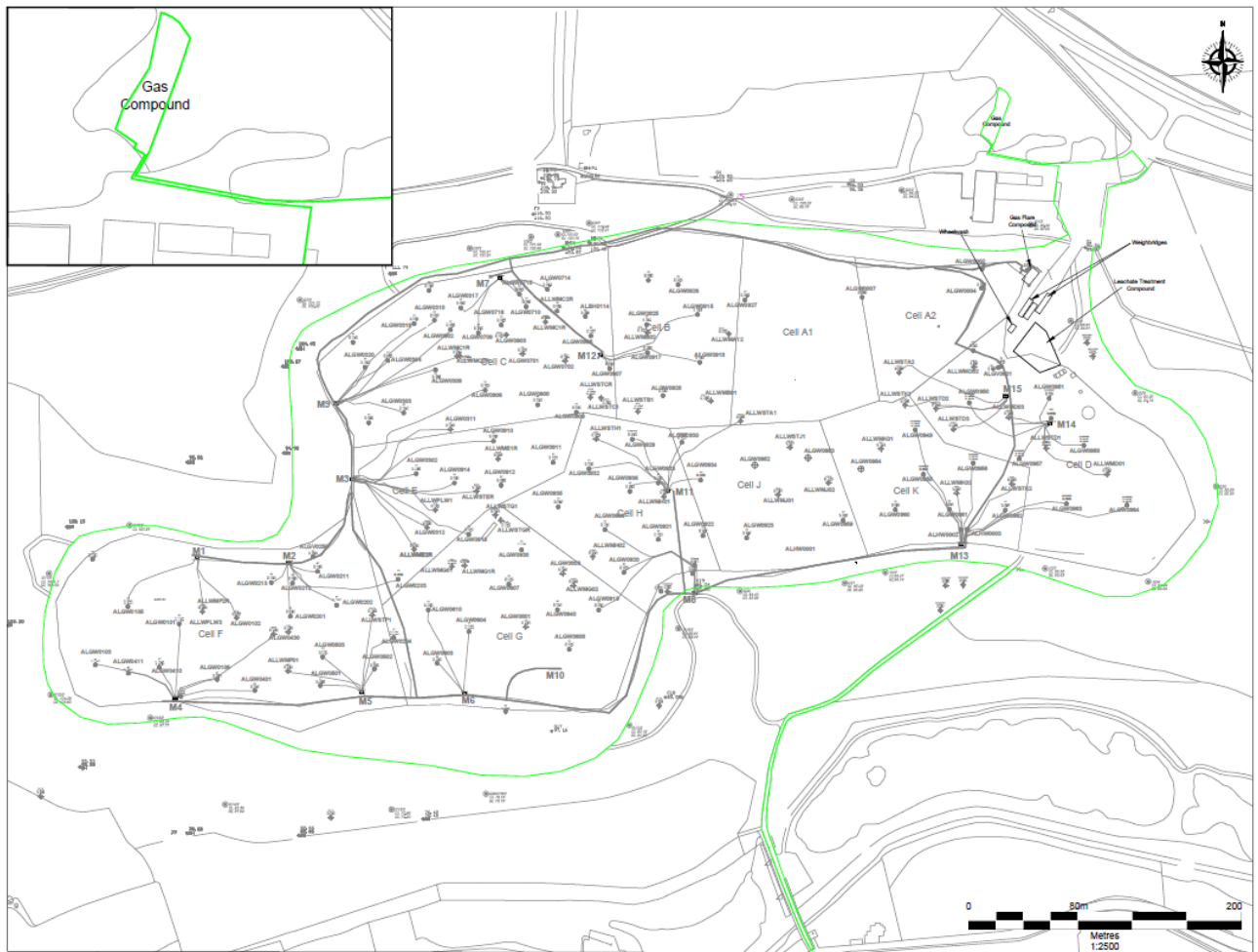
‘transition metals’ means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances;

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

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

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

Schedule 7 – Site plan



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END OF PERMIT