

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

SUEZ Recycling and Recovery UK Limited

Runfold South Landfill Areas A and C
Guildford Road
Runfold
Farnham
Surrey
GU10 1PB

Variation application number

EPR/SP3131GC/V003

Permit number

EPR/SP3131GC

Runfold South Landfill Areas A and C

Permit number EPR/SP3131GC

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 incorporate the changes made as a result of the variation application made by the operator, 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.

This variation is to:

- Remove perimeter gas compliance limits for carbon dioxide and replace these with action levels as per the Industry Code of Practice on Perimeter Soil Gas;
- Update references to the pre and post settlement contour plans and surface water management plans for both Areas A & C; and
- Amend the waste types from inert to non-hazardous and the Waste Acceptance Criteria for Area C to match that of Area A – this includes an update to the site's Monitoring Management Plan and Leachate Management Plan for Area C.
- Update to emission limits to groundwater for chloride and ammoniacal nitrogen.

The Environment Agency has a duty, under the Environmental Permitting (England and Wales) Regulations 2010, regulation 34(1), to periodically review permits. As a result of that review we have identified a number of necessary changes we must make to the permit to reflect current legislation and best practice. These changes principally relate to:

- A change to the hydrogeological risk assessment condition so that reviews are undertaken every 6 years rather than every 4 years;
- Standard leachate and groundwater quality monitoring tables (schedule 3); and
- A standard reporting table (schedule 4).

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

The main features of the facility are as follows.

The installation is located within the larger Runfold South landfill formerly a sand quarry complex, which is located approximately 2 kilometres to the east of Farnham, 12 kilometres west of Guildford and approximately 500 metres west of the village of Runfold at National Grid Reference SU 862 471.

Both areas are located on a principal aquifer within a source protection Zone III. Area A is bounded to the north by the A31 and to the south by Area C. The two are separated by an area of unused agricultural land. Moor Park Lane is located to the west of Areas A and C; and further to the west, the River Wey (North Branch) flows parallel with Moor Park Lane. The existing non-hazardous landfill site Area B bounds Area C to the east. The former sand pit and restored landfill Runfold North, is located to the north east of the larger Runfold South complex.

Area A comprises three phases and Area C is limited to a single phase. It is estimated that the two proposed areas combined will provide space for the disposal of approximately 1.3 million tonnes of waste.

The base, side walls and cap of the landfill will be constructed of engineered clay and the waste to be deposited in both areas are classed as non-hazardous soil-like waste with low organic matter content.

Both areas will be restored to arable grassland in keeping with their surroundings and the scheme permitted under the planning permission.

The operator's management system is ISO 14001 compliant.

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

Status log of the permit		
Description	Date	Comments
Application EPR/SP3131GC/A001	05/03/09	Application for non-hazardous landfill
Schedule 5 Notice	18/09/09	Received 06/11/09
Further information supplied	17/12/09	Received 09/02/10, 19/04/10, 11/06/10, 02/07/10, 29/07/10, 23/08/10 and 01/10/10.
Permit EPR/SP3131GC determined	12/10/10	Permit issued to SITA UK Limited
Application EPR/SP3131GC/V002	02/05/13	Application for variation to remove compliance limits for carbon dioxide from perimeter boreholes and to replace the trigger limit for Electrical Conductivity applied to surface water discharges with a trigger limit for Chloride.
Variation EPR/SP3131GC/V002 issued	11/06/13	Variation notice issued to SITA UK Limited
Application EPR/SP3131GC/V003	Duly Made 13/06/15	Application for variation and consolidation, including a change of company name.
Further information supplied	13/06/15	Response to Not Duly Made letter
Further information supplied	07/07/15, 31/07/15, 17/08/15, 26/08/15, 28/08/15.	Responses to Schedule 5 Notice (1) dated 2 nd July 15
Further information supplied	24/09/15,07/10/15	Responses to Schedule 5 Notice (2) dated 11 th September 15
Further information supplied	31/03/16 & 14/04/16	Response to Schedule 5 Notice (3) dated 2 nd November 15
Further information supplied	06/07/16	Response to Schedule 5 Notice (4) dated 10 th June 16
Further information supplied	24/08/16	Response to Schedule 5 Notice (5) dated 27 th July 16
Further information supplied	21/12/16	Revised MMPv7, dated December 2016
Variation application and Environment Agency Landfill Sector Review 2014 / 2015 Permit reviewed and Variation determined EPR/SP3131GC/V003 Permit EPR/SP3131GC (Billing Ref: CP3631AP)	21/02/17	Varied and consolidated permit issued to SUEZ Recycling and Recovery UK Limited in modern condition format.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

Permit number

EPR/SP3131GC

Issued to

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

whose registered office is

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

company registration number **02291198**

to operate a regulated facility at

**Runfold South Landfill Areas A and C
Guildford Road
Runfold
Farnham
Surrey
GU10 1PB**

to the extent set out in the schedules.

The notice shall take effect from 21/02/2017

Name	Date
J Linton	21/02/2017

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were varied as a result of the application made by the operator:

Condition	Description of change
2.6.6	Update to condition to reflect revised Settlement Restoration Contour Plots for both Areas A and C.
Schedules	
Schedule 1	
Table S1.1	Amended to add leachate storage from Areas A & C as a Directly Associated Activity.
	Amended to add drainage, collection and extraction of leachate from Area C as a Directly Associated Activity.
	Removal of reference to inert waste acceptance for Area C.
Table S1.2	Update to include operating measures provided as a part of variation application V003.
Table S1.3A and S1.3B	Amended to show completed pre-operational measures and include additional measures references 3, 4 and 10. These two tables have also been consolidated into one table S1.3.
Table S1.4	Amended to remove inert waste for infilling.
Schedule 3	Updated to include revised emission points plans and monitoring management plan (MMPv7.0) submitted as a part of variation application V003.
Table S3.1	Amended to include monitoring boreholes for Area C.
Table S3.2	Update to emission limits to groundwater as a part of variation application V003.
	Update to required standards in line with new Environment Agency guidance
Table S3.3	Removal of carbon dioxide compliance limits in external monitoring boreholes for landfill gas, in line with ICoP and as a part of variation application V003.
Table S3.4	Update to include Area C monitoring points
Table S3.6	Addition of monitoring points as a part of variation application V003.

All other conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation. The following table summarises the latest changes to the landfill permit template, however the permit may contain more changes than this where the permit has not been varied to recent template conditions.

Conditions	Description of change
1.3.1(c)	Update to general energy efficiency condition required for all Schedule 1 Listed Activities under IED
1.4	General condition for efficient use of raw materials required for all Schedule 1 Listed Activities under IED
1.5	Generic condition to reflect the requirements of the Waste Framework Directive.
2.6.1(a)	Added reference to a specific table to clarify what wastes are permitted by which permitted activity.
2.6.1(b)	Amended to include TOC content restriction
2.6.2	Added to separately identify the waste types and quantities that can be accepted for restoration.
2.6.3	Added to impose the requirement of visual inspections of incoming waste
2.6.9	Removed, TOC content restriction included into condition 2.6.1(b)

Conditions	Description of change
2.9	Revised gas management condition imposed for all landfills.
3.1.1	Generic condition imposed on all activities to simplify sub-conditions
3.1.3 to 3.1.4	Revised conditions to reflect the terminology used by the Groundwater Directive for 'hazardous substances' and to require hydrogeological risk assessment reviews are submitted every 6 years rather than every 4 years.
	Sub-condition that referred to emission of 'non-hazardous pollutants' deleted. Such emissions are regulated by condition 3.2.
	Two sub-conditions that referred to limits in specific tables in schedule 3 deleted as they are now covered by 3.1.1.
3.2.2	Added to include the requirement to submit and implement an emissions management plan if emissions of substances not controlled by emission limits give rise to pollution imposed on all activities.
3.3.2	Added to include the requirement to submit and implement an odour management plan if emissions of odour gives rise to pollution outside the site imposed on all activities.
3.4.2	Added to include the requirement to submit and implement a noise and vibration management plan if emissions of noise and vibration gives rise to pollution outside the site imposed on all activities.
3.5.1 (a)(c)(d)(e)(f)	Revised due to change of table order.
3.6	Revised generic pests condition imposed on all activities.
4.2.2	Amended to ensure that information on 'annual production/ treatment' (Schedule 4, Table S4.2) is provided in February each year where annual reports may be submitted at other times of the year.
4.2.2(a)	Text expanded to clarify the details we require in an annual report.
4.2.2(h)	New condition requiring annual submission of a plan of monitoring and extraction locations with reference to monitoring tables in schedule 3
4.2.2(i)	Amended to change reference
4.3.1	Generic notifications condition added.
4.3.2	Generic notifications condition added
4.4.2	Revised to replace "without delay" to "immediately"
Schedules	
Table S1.1	Amended description of the landfill activity to clarify that this includes restoration. Activity references amended to reflect changes introduced by Industrial Emissions Directive (2010/75/EU).
Table S1.4	Amended to clarify that restoration is a separate part of the activity unrelated to landfill cover.
Table S1.5	Removed.
Schedule 2	Standard list of wastes added.
Schedule 3	Monitoring and compliance tables have been re-ordered so that those with compliance limits appear first. Standard monitoring frequency and parameters have been included for certain routine monitoring requirements
Table S4.1	Amended to only require regular reports of information that relate to compliance limits.
Table S4.2	Removal of reference to 'Disposed of to any onsite effluent treatment plant'.
Table S4.3	Amended to include natural gas as an energy source for consistency with other sectors.

Conditions	Description of change
Schedule 6	Definitions added to clarify meaning of: Inert waste Exceeded Hazardous substance Medicinal product Previous year Waste acceptance criteria Waste acceptance procedure

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/SP3131GC

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/SP3131GC/V003 authorising,

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

whose registered office is

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

company registration number **02291198**

to operate an installation at

**Runfold South Landfill Areas A and C
Guildford Road
Runfold
Farnham
Surrey
GU10 1PB**

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

Name	Date
J Linton	21/02/2017

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 12th October 2010 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 Pre-operational conditions

2.4.1 The operations specified in schedule 1, table S1.3 shall not commence until the measures specified in that table have been completed.

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 as soon as practicable following the construction of the relevant landfill infrastructure.
- 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 with a total organic carbon content less than 10%, 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 (including waste waters but excluding sludge), 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, 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.

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 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.

2.6.4 Where the operator has taken samples to establish that the waste is in conformity with the documentation submitted by the holder then the samples taken shall be retained for at least one month and results of any analysis for at least two years.

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

2.6.6 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawings:

- (a) Area A – RU941-D1v12 (Rev B) Pre Settlement Restoration Contours – Area A dated January 2013, and
- (b) Area C – RU941-D3 (v6, Rev B) Restoration Details for Area C (Pre Settlement Restoration Contours) – Area C dated June 2013.

2.6.7 The quantity of waste that is deposited or recovered in the landfill in any year shall not exceed the limits in schedule 1, table S1.4.

2.6.8 The operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery and, where practicable, origin of any waste that is received for disposal or 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) control the migration of landfill gas.

- 2.9.2 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.
- 3.1.3 The operator shall prevent the input of any hazardous substances from the activities into groundwater.
- 3.1.4 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 S3.7;
 - (b) Groundwater specified in tables S3.2 and S3.5;
 - (c) Landfill gas specified in tables S3.3 and S3.6;
 - (d) Surface water specified in table S3.8; and
 - (e) Particulate matter specified in table S3.4.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 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 leachate and landfill gas extraction and all monitoring points; and
- (i) details of compliance with the waste acceptance criteria set out in document 'Waste Types and Acceptance Procedures; Ref: RSP 1/6 R5, August 2015.

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 (a) In the event 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) in the event 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) 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, 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 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.4 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
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
D5 –Specially engineered landfill; R5 - the recycling or reclamation of inorganic material and R10 – Land treatment resulting in benefit to agriculture or ecology	Section 5.2 Part A(1) (a), The disposal of waste in a landfill.	Landfill for non-hazardous waste and landfill restoration	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in conditions 2.7, as an integral part of landfilling in both Areas A and C.
Directly Associated Activities			
-	Water discharges to controlled waters	Discharges of site drainage from the landfill	From surface water management system to point of entry into controlled waters.
-	Leachate Extraction	Extraction of leachate from Areas A & C of the site	From extraction of leachate from monitoring boreholes in Area A and from collection, drainage and extraction of leachate from the leachate drainage blanket in Area C.
D15/R13	Storage of leachate from Areas A & C in a storage tank	Temporary storage of waste (leachate) from Area A & C pending tankering off site	Leachate arising from the landfill.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/SP3131GC/A001	Response to section 6 of the Application Part A and sections 5a technical standards, 5b General requirements, 7 Monitoring, 10b Site Closure, Part B of the application form Part B excluding section 5d types and amounts of waste (RPS1/6 waste acceptance procedures) and operator competence report RSP1/3.	05/03/09
Application EPR/SP3131GC/A001	Odour, Dust and Mud management plans reference RSP1/5 in response to section 5B, Table 3 – General Requirements, Part B of the application form.	05/03/09

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/SP3131GC/A001	Landfill gas management plan reference RSP1/7 dated January 2009.	05/03/09
Additional information EPR/SP3131GC/A001	Response to Schedule 5 Notice	06/11/09
	Revised HRA, WAC and modelled leachate source term.	09/02/10
	Revised operator competence RSP 1/3 revision 3 dated March 2010 and letter dated 13 th April 2010.	19/04/10
	Areas A, B and C – Drainage plan dated November 2009 (dated 03/03/09 on EDRM).	11/06/10
	Revised particulate monitoring proposals RSP1/7 revision 2 dated July 2010 (dated 10/11/09 on EDRM).	02/07/10
	Revised waste acceptance procedure RSP 1/6 revision 3 dated July 2010 (dated 03/08/10 on EDRM.)	29/07/10
	Letter reference 651/023L dated 23/08/10 the progressive installation of leachate monitoring infrastructure as RSP-EPR-1108-6A revision A dated 23 October 2009	23/08/10
	Letter reference 651/023L dated 30/09/10 changes to the design and location of the landfill gas/leachate monitoring points LFGA4, RLFGA7 and LFGA11 and target pads shown on drawings RSP-EPR-1108-7B revision B and RSP-EPR-1108- 08E revision E dated 23 September 2010.	01/10/10
Additional information EPR/SP3131GC/V002	Addendum to RSP 2/2 Rev 1 Landfill Gas Risk Assessment March 2013 (v1.2)	15/03/13
Variation application EPR/SP3131GC/V003	<u>Response to application part C3 table 3, question 4a</u> Permit Variation Summary Report March 2015 – EPV8 Surface Water Management Plan (December 2014)	31/03/15
Additional information EPR/SP3131GC/V003	<u>Response to request for more information</u> Appendix A to revised GRA (June 2015)	13/06/15
Additional information EPR/SP3131GC/V003	<u>Partial response to Schedule 5 Notice (dated 2nd July 2015)</u> RW Runfold Response Letter 20150828 Revised Compliance Limit Proposals Appendix A – Monitoring Well CQA Report Appendix B GW LVL	28/08/15

Table S1.2 Operating techniques		
Description	Parts	Date Received
Additional information EPR/SP3131GC/V003	<u>Response to email, dated 7th August 2015</u> Request for an updated Waste Acceptance Criteria document to reflect the variation application. (RSP1-6 Waste Acceptance Final August 2015 Rev5)	28/08/15
Additional information EPR/SP3131GC/V003	<u>Updated Restoration Management Plan</u> Runfold Landfill Site Area A & C Restoration Management Plan, September 2015 v3.0 (Revised Oct 2015)	21/10/15
Additional information EPR/SP3131GC/V003	<u>Response to Schedule 5 Notice (4-dated 10th June 2016)</u> Revised design details for Area C which includes a leachate drainage layer, extraction system and monitoring regime	06/07/16
Additional information EPR/SP3131GC/V003	<u>Revised Monitoring Management Plan</u> Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0, dated December 2016, which is in line with monitoring requirements of consolidated permit V003 with the exception of the proposed leachate level compliance limit for monitoring points LMPC1 and LMPC2.	21/12/16

Table S1.3 Pre-operational measures for future development		
Reference	Operation	Pre-operational Measures
1 - Completed	Waste deposit in: Area A cells 1 and 3; and Area C cell 1.	Two months prior to the deposit of waste in these cells the operator shall submit to the Environment Agency, for its agreement in writing, an addendum to the Landfill Gas Management Plan in accordance with the Environment Agency's document "Guidance on the Management of Landfill Gas" (LFTGN03) or any subsequent guidance as may be agreed in writing with the Environment Agency which will include a review of the landfill gas monitoring data for all gas monitoring boreholes. The review shall include boreholes specific control and compliance limits for Methane and compliance limits for Carbon Dioxide.
2	Waste deposit in any new cell.	The operator shall: <ul style="list-style-type: none"> • Submit a CQA Report for each engineered cell before waste is placed against it; • Undertake site specific (Runfold) testing of materials (imported clay to be used for the liner) to obtain geotechnical data for validation against the data used in the existing stability calculations. The scope and extent of testing shall be agreed in writing with the Agency prior to testing being carried out. A report shall be submitted to the Agency with results, interpretation and any necessary recommendations as part of the CQA Report.

Table S1.3 Pre-operational measures for future development		
Reference	Operation	Pre-operational Measures
3	The construction of a leachate collection, drainage and extraction system in Area C.	<p>The operator shall submit to the Environment Agency engineering proposals for a leachate collection, drainage and extraction system in Area C which are in line with The Landfill Directive and the Environment Agency's document "EPR 5.02: How to Comply with your Environmental Permit, Additional Guidance for Landfill."</p> <p>The proposals shall be to the following standards and must include, but may not be limited to, the measures required by sections:</p> <ul style="list-style-type: none"> • Recommendations for Leachate Management, in particular Points; 6, 10, 11, 12, 14, 16, 19, 20, 21 and 24.
4	Waste deposit in Area C.	The operator shall submit revised written proposals for the derivation of action limits for Carbon Dioxide in boreholes G23, G24 and G25 to the Environment Agency for approval. The proposals must ensure the results of monitoring taken during, and following, the installation of a liner but prior to the infilling of waste in Area C have been included into the dataset used to derive the action levels for these boreholes:
5	Waste deposit in Area C.	Area C shall not commence operation unless the operator has monitored the composition of the groundwater at the additional boreholes GW1 and GW2 at least once every month for 12 months and carried out analysis for hazardous substances and non-hazardous pollutants as specified in table S3.7. The boreholes shall be incorporated into routine monitoring programme as specified in table S3.7.
6	Waste deposit in Area C.	The operator shall submit to the Environment Agency, for its agreement in writing, an addendum to the groundwater section of the sites management and monitoring plan (Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016) for Area C. The addendum shall include a review of all monitoring data, including that required to be collected by reference 5 above, for existing and additional groundwater boreholes and propose borehole specific control levels and compliance limits (having regard to Environment Agency's guidance risk-assessment-for-leachate (www.gov.uk) , or such other subsequent guidance as may be agreed in writing with the Environment Agency for all down gradient boreholes together with (where appropriate) amendments to the groundwater contingency action plan.
7 - Completed	Waste deposit in Area C.	Area C shall not commence operation unless the Operator has agreed with the Agency the locations for carrying out monitoring and assessment of particulate emissions in accordance with Agency Technical Guidance Document M17, Monitoring of Particulate Matter in Ambient Air Around Waste Facilities for the parameters required by Table S4.12. The proposals shall include but not be limited to operating procedures for the

Table S1.3 Pre-operational measures for future development		
Reference	Operation	Pre-operational Measures
		implementation of monitoring measures, schedules, techniques, compliance action plans, data management and reporting procedures.
8	Waste deposit in Area C.	Area C shall not commence operation unless the Operator has installed the additional groundwater monitoring boreholes GW1 and GW2 shown on drawing RSP-EPB-1108-08 revision A dated November 2008 and submitted a validation report together with a plan showing the final location and nomenclature of the constructed boreholes.
9 - Completed	n/a	The operator shall for Area A submit to the Agency, for its agreement in writing, a plan that delineates a stand-off zone of 75m around all nearby buildings. Within this zone, wastes shall be restricted to a TOC content of 3% in accordance with Table S1.5.
10	Leachate level monitoring in borehole LSC	The operator shall carry out tests to determine the time of recovery to rest levels which is required in borehole LSC following leachate extraction, in accordance with the Environment Agency's document "Guidance on monitoring of landfill leachate, groundwater and surface water" (LFTGN02) or any subsequent guidance as may be agreed in writing with the Environment Agency.

Table S1.4 Annual waste input limits	
Category	Limit Tonnes/ Year
Non-hazardous waste	350,000
Waste for restoration	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 02	wastes from mineral non-metalliferous excavation
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
01 04 10	dusty and powdery wastes 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
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 03	wastes from aluminium thermal metallurgy
10 03 16	skimmings other than those mentioned in 10 03 15
10 08	wastes from other non-ferrous thermal metallurgy
10 08 09	other slags
10 08 11	dross and skimmings other than those mentioned in 10 08 10
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 10	wastes from casting of non-ferrous pieces
10 10 06	casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05
10 11	wastes from manufacture of glass and glass products
10 11 03	waste glass-based fibrous materials without organic binders
10 11 12	waste glass other than those mentioned in 10 11 11
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 06	discarded moulds
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 14	waste concrete and concrete sludge
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
15 01 07	glass packaging
16	Wastes not otherwise specified in the list
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 20	glass
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 01	concrete, bricks, tiles and ceramics
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics, other than those mentioned in 17 01 06
17 02	wood, glass and plastic
17 02 02	glass
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03, excluding topsoil and peat
17 05 06	dredging spoil other than those mentioned in 17 05 05
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, excluding topsoil and peat
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 12	bottom ash and slag other than those mentioned in 19 01 11
19 03	stabilised/solidified wastes¹
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 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 05	glass
19 12 09	minerals (for example sand, stones)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 and restricted to waste soils and stones that have been screened to remove aggregate material suitable for reuse
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste	
Waste code	Description
20 01 02	glass
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones, excluding topsoil and peat

¹ Stabilisation processes change the hazardousness of the constituents in the waste and thus transform hazardous waste into non-hazardous waste. Solidification processes only change the physical state of the waste (e.g. liquid into solid) by using additives without changing the chemical properties of the waste.

Table S2.2 Permitted waste types for restoration	
Waste code	Description
10	Wastes from thermal processes
10 11	wastes from manufacture of glass and glass products
10 11 03	waste glass-based fibrous materials
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 07	glass packaging
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 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
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 05	glass
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 02	glass
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	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, 2.6)			
<p>Area A LMPA1, LMPA2, LMPA3, LFGA04, LFGA07, and LFGA11</p> <p>Area C LMPC1⁽¹⁾, LMPC2⁽¹⁾ and LSC. as shown on drawing RSP-EPB 1108-08G revision G dated 1st July 2016, found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.</p>	<p>Area A 1 m above the top of the clay liner</p> <p>Area C 1m above the top of the clay liner</p>	Monthly	As specified in Environment Agency Guidance TGN02 (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)			
<p>Area A LMPA1, LMPA2, LMPA3, LFGA04, LFGA07, and LFGA11</p> <p>Area C LMPC1, LMPC2 and LSC. as shown on drawing RSP-EPB 1108-08G revision G dated 1st July 2016, Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.</p>	<p>Area A to be confirmed by variation once a cell or phase has a final engineered cap agreed</p> <p>Area C to be confirmed by variation once a cell or phase has a final engineered cap agreed</p>	Quarterly	As specified in Environment Agency Guidance TGN02 (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.

⁽¹⁾ Following Installation

Table S3.2 Groundwater – emission limits and monitoring requirements					
Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Area A 702 as shown on drawing RSP-EPB 1108-08G revision G dated 1 st July 2016, found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.	Ammoniacal Nitrogen (NH ₄ -N)	0.29 mg/l	Spot Sample	Monthly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk-assessment-for-leachate (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Cadmium (Cd)	0.001 mg/l			
	Chloride (Cl)	76 mg/l			
	Nickel (Ni)	0.0154 mg/l			
	Phenol	0.02 mg/l			
	Zinc (Zn)	0.5 mg/l			
Area A 703 as shown on drawing RSP-EPB 1108-08G revision G dated 1 st July 2016, found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.	Ammoniacal Nitrogen (NH ₄ -N)	0.29 mg/l	Spot Sample	Monthly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk-assessment-for-leachate (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Cadmium (Cd)	0.001 mg/l			
	Chloride (Cl)	62 mg/l			
	Nickel (Ni)	0.0154 mg/l			
	Phenol	0.02 mg/l			
	Zinc (Zn)	0.5 mg/l			
Area A 704 as shown on drawing RSP-EPB 1108-08G revision G dated 1 st July 2016, found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.	Ammoniacal Nitrogen (NH ₄ -N)	0.38 mg/l	Spot Sample	Monthly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk-assessment-for-leachate (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Cadmium (Cd)	0.001 mg/l			
	Chloride (Cl)	45 mg/l			
	Nickel (Ni)	0.0154 mg/l			
	Phenol	0.02 mg/l			
	Zinc (Zn)	0.5 mg/l			
Area A	Ammoniacal Nitrogen (NH ₄ -N)	1.08 mg/l	Spot Sample	Monthly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk-assessment-for-leachate (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency.

Table S3.2 Groundwater – emission limits and monitoring requirements					
Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
705 as shown on drawing RSP-EPB 1108-08G revision G dated 1 st July 2016, found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.	Cadmium (Cd)	0.001 mg/l			
	Chloride (Cl)	84 mg/l			
	Nickel (Ni)	0.0154 mg/l			
	Phenol	0.02 mg/l			
	Zinc (Zn)	0.5 mg/l			
Area C BH D as shown on drawing RSP-EPB 1108-08G revision G dated 1 st July 2016, found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.	Ammoniacal Nitrogen (NH ₄ -N)	0.6 mg/l			
	Cadmium (Cd)	0.001 mg/l			
	Chloride (Cl)	16 mg/l			
	Nickel (Ni)	0.0154 mg/l			
	Phenol	0.02 mg/l			
	Zinc (Zn)	0.5 mg/l			
Area C BH F as shown on drawing RSP-EPB 1108-08G revision G dated 1 st July 2016, found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.	Ammoniacal Nitrogen (NH ₄ -N)	0.58 mg/l			
	Cadmium (Cd)	0.001 mg/l			
	Chloride (Cl)	86 mg/l			
	Nickel (Ni)	0.0154 mg/l			
	Phenol	0.02 mg/l			
	Zinc (Zn)	0.5 mg/l			
Surface water infiltration basin 1, 2, 3, 4, 5, A1 and A2 as shown on	Chloride (Cl)	250 mg/l	Spot Sample	Monthly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk-</u>
	Ammoniacal Nitrogen (NH ₄ -N)	1 mg/l			

Table S3.2 Groundwater – emission limits and monitoring requirements					
Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
drawing RSP-SWMP-0315-01 dated March 2015 found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.	pH	>6.5 to <9.5			assessment-for-leachate (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Visible Oil	None	Visual Inspection		

Table S3.3 Landfill gas in external monitoring boreholes – limits and monitoring requirements				
Monitoring point reference	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
Area A 701, 702, 703, 704, 705, 706, BH01, G19, G20, G21 and G22 Area C BHD, BHF, BHG, G23, G24 and G25. as shown on drawing RSP-EPB-1108-08G revision G dated 1 st July 2016, found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.	Methane (CH ₄)	1 %v/v	Monthly	As per LFTGN03 (v.1, 2004) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Record whether the ground is: waterlogged frozen snow covered
	Carbon Dioxide (CO ₂)	No limit		
	Oxygen (O ₂)	No limit		
	Atmospheric pressure	No limit		
	Differential Pressure	No limit		
	Meteorological data	No limit		

Table S3.4 Particulate matter in ambient air - monitoring requirements					
Monitoring point reference	Parameter	Limit	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Area A DM1, DM2, DM3 and DM4 Area C DM5 ⁽¹⁾ & DM6 ⁽¹⁾ as shown on drawing RSP-EPB 1108-08G revision G dated 1 st July 2016, found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.	Deposited particulate.	200 mg/m ² day ⁻¹	24 hours	Monthly	In accordance with Environment Agency Guidance M17 - Monitoring of Particulate Matter in ambient air around waste facilities, or any subsequent guidance.

⁽¹⁾ Following Installation

Table S3.5 Groundwater – other monitoring requirements			
Monitoring point reference	Parameter	Monitoring frequency	Monitoring standard or method
Upgradient boreholes: BH701, BH/706, GW1 and GW2 as shown on drawing as shown on drawing RSP-EPB-1108-08G revision G dated 1 st July 2016, found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.	Water level, Electrical Conductivity (EC), Chloride (Cl), Ammoniacal Nitrogen (NH ₄ -N), pH, DO (dissolved oxygen), Temperature	Quarterly	As specified in Environment Agency Guidance TGN02 '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.
	Total Alkalinity (CaCO ₃), Magnesium (Mg), Potassium (K), Total Sulphates (SO ₄), Calcium (Ca), Sodium (Na), Chromium (Cr), Copper (Cu), Iron (Fe), Lead (Pb), Nickel (Ni), Zinc (Zn), Manganese (Mn), Arsenic (As), Barium (Ba), Biological Oxygen Demand (BOD), Cadmium (Cd), Chemical Oxygen Demand (COD), Mercury (Hg), Total Organic Carbon (TOC), Total Organic Nitrogen (TON), Total Phenols, Selenium (Se).	Annually	
	Hazardous substances	Annually for first six years of operation	
Down or cross gradient boreholes	Water level, Electrical Conductivity (EC), Chloride (Cl), Ammoniacal	Quarterly	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill

Table S3.5 Groundwater – other monitoring requirements			
Monitoring point reference	Parameter	Monitoring frequency	Monitoring standard or method
BHD, BHF, BHG, BH1, BH/702, BH/703, BH/704, BH/705 as shown on drawing as shown on drawing RSP-EPB-1108-08G revision G dated 1 st July 2016, found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.	Nitrogen (NH ₄ -N), pH, DO (dissolved oxygen), Temperature		Leachate, Groundwater and Surface Water' (February 2003), <u>risk assessments for your environmental permit</u> (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency. 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.
	Total Alkalinity (CaCO ₃), Magnesium (Mg), Potassium (K), Total Sulphates (SO ₄), Calcium (Ca), Sodium (Na), Chromium (Cr), Copper (Cu), Iron (Fe), Lead (Pb), Nickel (Ni), Zinc (Zn), Manganese (Mn), Arsenic (As), Barium (Ba), Biological Oxygen Demand (BOD), Cadmium (Cd), Chemical Oxygen Demand (COD), Mercury (Hg), Total Organic Carbon (TOC), Total Organic Nitrogen (TON), Total Phenols, Selenium (Se).	Annually	
	Hazardous substances detected in leachate	Annually for first six years of operation then every two years	
Upgradient boreholes: BH701, BH/706, GW1 and GW2 Down or cross gradient boreholes BHD, BHF, BHG, BH1, BH/702, BH/703, BH/704, BH/705 as shown on drawing as shown on drawing RSP-EPB-1108-08G revision G dated 1 st July 2016, found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.	Base of monitoring point (mAOD)	Annually	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk assessments for your environmental permit</u> (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency.

Table S3.6 Landfill gas – other monitoring requirements				
Monitoring point reference	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
<p>Area A LMPA1, LMPA2, LMPA3, LFGA1, LFGA2, LFGA3, LFGA04, LFGA5, LFGA6, LFGA07, LFGA8, LFGA9, LFGA10, LFGA11, and LFGA12.</p> <p>Area C LFGC1, and LFGC2.</p> <p>as shown on drawing as shown on drawing RSP-EPB-1108-08G revision G dated 1st July 2016, found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.</p>	<p>Methane (CH₄) Carbon Dioxide (CO₂) Oxygen (O₂) Carbon Monoxide (CO) Differential pressure Atmospheric pressure</p>	<p>Quarterly</p>	<p>Monitoring to be carried out in accordance with Environment Agency - Landfill Technical Guidance Note LFTGN 03 'Guidance on the management of landfill gas,' unless otherwise agreed in writing with the Agency.</p>	<p>None</p>

Table S3.7 Leachate – other monitoring requirements				
Monitoring point reference	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)			At leachate compliance point as listed in table S3.1. As specified in Environment Agency Guidance TGN02 (February 2003) and <u>risk assessments for your environmental permit (www.gov.uk)</u> with one sampling point per cell / phase or such other subsequent guidance as may be agreed in writing with the Environment Agency.	
Area A LMPA1, LMPA2, LMPA3, LFGA04, LFGA07 and LFGA11 Area C LSC ⁽¹⁾ as shown on drawing as shown on drawing RSP-EPB-1108-08G revision G dated 1 st July 2016, found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.	pH, Electrical Conductivity (EC), Total Alkalinity (CaCO ₃), Ammoniacal Nitrogen (NH ₄ -N), Chloride (Cl), Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Nickel (Ni), Iron (Fe), Arsenic (As), Magnesium (Mg), Potassium (K), Total Sulphates (SO ₄), Calcium (Ca), Sodium (Na), Zinc (Zn), Manganese (Mn), Temperature, Barium (Ba), Mercury (Hg), Total Organic Carbon (TOC), Total Oxidised Nitrogen (TON), Total Phenols, Selenium (Se).	Quarterly		None
	Hazardous substances	Annually		None
	Depth to base (mAOD)	Annually		None
Non Operational Cells or Phases (Any cell or phases that have a final engineered cap agreed in accordance with condition 2.5)				
Area A LMPA1, LMPA2, LMPA3, LFGA04, LFGA07 and LFGA11 Area C LSC ⁽¹⁾ as shown on drawing as shown on drawing RSP-EPB-1108-08G revision G dated 1 st July 2016, found in Runfold South Area A & C Landfill Site	pH, Electrical Conductivity (EC), Total Alkalinity (CaCO ₃), Ammoniacal Nitrogen (NH ₄ -N), Chloride (Cl), Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Nickel (Ni), Iron (Fe), Arsenic (As), Magnesium (Mg), Potassium (K), Total Sulphates (SO ₄), Calcium (Ca), Sodium (Na), Zinc (Zn), Manganese (Mn), Selenium (Se).	Annually	None	

Table S3.7 Leachate – other monitoring requirements				
Monitoring point reference	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Monitoring Management Plan Version 7.0 December 2016.	Hazardous substances	Once every four years		None
	Depth to base (mAOD)	Annually		None

(1) Following installation

Table S3.8 Surface water – other monitoring requirements				
Monitoring point reference	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
<p>RSP SW2 (SU 86035, 46485) Downstream RSP SW1 (SU 85112, 47032) RSP SW3 (SU 87080, 45562)</p> <p>as shown on drawing 'Figure 3: Surface Water Location Map', found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.</p> <p>RSP POND (A2)</p> <p>Surface water infiltration basins A1, 1, 2, 3, 4 and 5⁽²⁾</p> <p>as shown on drawing as shown on drawing 'Surface Water Drainage Plan', ref: RSP-SWMP-0315-01 dated March 2015, found in Runfold South Area A & C Landfill Site Monitoring Management Plan Version 7.0 December 2016.</p>	<p>Ammoniacal Nitrogen (NH₄-N) Chloride (Cl) Suspended Solids Visual Oil and Grease pH Electrical Conductivity (EC) Temperature Dissolved oxygen (DO) Biological Oxygen Demand (BOD) Chemical Oxygen Demand (COD) Total Organic Nitrogen (TON) Total Organic Carbon (TOC) Alkalinity (CaCO₃) Calcium (Ca) Magnesium (Mg)</p>	Monthly	Spot sample	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003) and risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency.

(2) Following installation (post site restoration)

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 level As specified by schedule 3, table S3.1	Every 3 months	31 March, 30 June, 30 September, 31 December
Emission to groundwater As specified by schedule 3, table S3.2	Every 3 months	31 March, 30 June, 30 September, 31 December
Landfill gas in external monitoring boreholes As specified by schedule 3, table S3.3	Every 3 months	31 March, 30 June, 30 September, 31 December
Particulate matter As specified by schedule 3, table S3.4	Every 3 months	31 March, 30 June, 30 September, 31 December
Other groundwater monitoring As specified by schedule 3, table S3.5	Every 3 months	31 March, 30 June, 30 September, 31 December
Other Landfill gas monitoring As specified by schedule 3, table S3.6	Every 3 months	31 March, 30 June, 30 September, 31 December
Other leachate monitoring As specified by schedule 3, table S3.7	Every 12 months	31 December
Other surface water monitoring As specified by schedule 3, table S3.8	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; Recirculated into the waste mass.	Cubic metres/year
Surface water: Disposed of off-site.	Cubic metres/year

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	12/10/2010
Controlled water	Form Water 1 or other reporting format to be agreed in writing with the Environment Agency	04/01/2017
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency	12/10/2010
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency	12/10/2010
Particulate matter	Form Particulate 1 or other reporting format to be agreed in writing with the Environment Agency	12/10/2010
Waste Return	Waste Return Form RATS2E	12/10/2010
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Environment Agency	-

Schedule 5 – Notification

This page outlines the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and Time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B to be supplied as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

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

“Emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations 2010, SI 2010 No.675. Words and expressions used in this permit which are also used in those Regulations have the same meanings as in those Regulations.

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

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

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

“Hazardous substances” as defined by the Environmental Permitting (England and Wales) Regulations 2010, SI 2010 No.675, schedule 22 and listed in our Hydrogeological risk assessment guidance, annex J to our H1 risk assessment guidance.

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

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

"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.

“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.

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

“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.

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

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;

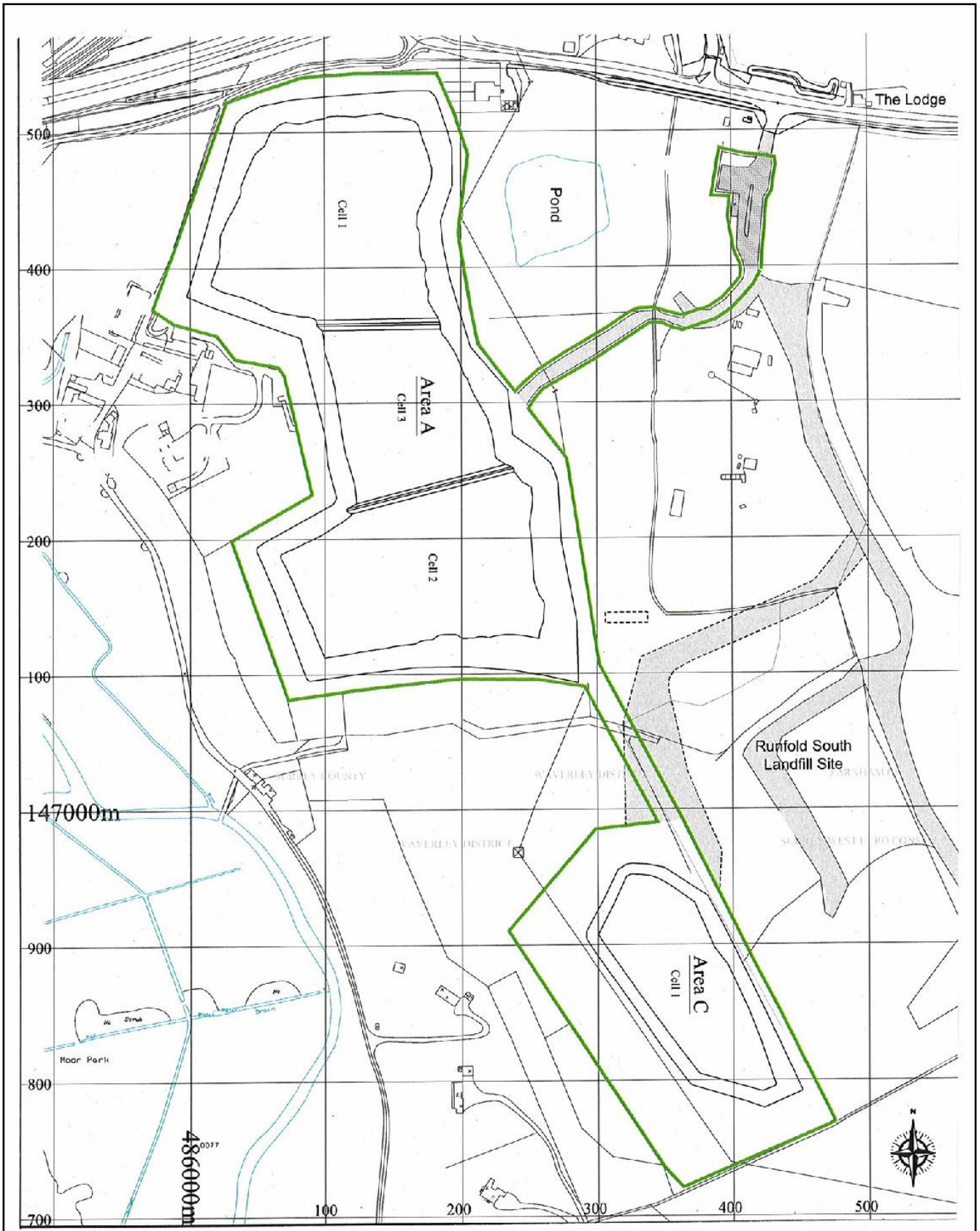
“Partly stabilised wastes” means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term.

“Solidification” means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste;

“Stabilisation” means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste;

“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.

Schedule 7 – Site plan



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END OF PERMIT

Permit Number: EPR/SP3131GC

Operator: SUEZ Recycling and Recovery UK Limited

Facility: Runfold South Landfill Areas A and C Form Number: Water1 / 04/01/2017

Reporting of emissions to water (other than to sewer) and land for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
RSP SW1, RSP SW2, RSP SW3, RSP POND (A2)	Ammoniacal Nitrogen	-	Monthly Spot Sample				
	Chloride	-					
	Suspended Solids	-					
	Visual Oil and Grease	-					
	pH	-					
	EC	-					
	DO	-					
	BOD	-					
	COD	-					
	TON	-					
	TOC	-					
	Alkalinity (CaCO ₃)	-					
	Calcium	-					
Magnesium	-						

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed

Date.....

(Authorised to sign as representative of Operator)

Permit Number: EPR/SP3131GC

Operator:

SUEZ Recycling and Recovery UK Limited

Facility: Runfold South Landfill Areas A and C

Form Number:

WaterUsage1 / 12/10/2010

Reporting of Water Usage for the year 20XX

Water Source	Usage (m3/year)	Specific Usage (m3/unit output)
Mains water		
Site borehole		
River abstraction		
TOTAL WATER USAGE		

Operator's comments :		
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Signed

Date.....

(authorised to sign as representative of Operator)

Permit Number: EPR/SP3131GC
 Facility: Runfold South Landfill Areas A and C

Operator: **SUEZ Recycling and Recovery UK Limited**
 Form Number: Energy1 / 12/10/2010

Reporting of Energy Usage for the year 20XX

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy	
Electricity *	MWh		
Natural Gas	MWh		
Gas Oil	tonnes		
Recovered Fuel Oil	tonnes		
TOTAL	-		

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments :			
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Signed
 (Authorised to sign as representative of Operator)

Date.....