

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Sewells Reservoir Construction Limited

Highwood Quarry Inert Landfill Little Easton Great Dunmow Essex CM6 1SN

Permit number EPR/AB3009HS/A001

Highwood Quarry Inert Landfill Permit number EPR/AB3009HS/A001

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

Highwood Quarry is located approximately 3.2km east of Stanstead Airport and 2 km to the west of Great Dunmow. It is accessed from the A120 trunk road. The site is currently a working sand and gravel extraction quarry for which a Standard Rules Extractive Mining Waste Permit SR 2009No8 has also been issued (Reference number EPR/FB3737AZ/A001).

The permit will allow the operator to import up to 400,000 tonnes per annum of inert waste to fill the site following extraction of mineral aggregate in a phased approach. The permit will also allow the treatment of inert material to produce soil and aggregates. It is anticipated this will be completed in 15 years after which the site will be returned to landscaped farmland.

The applicant also has a Permit for a water discharge activity in relation to it's mining activities under permit application EPR/WB3890NZ/A001. This consent will also regulate surface water emissions from the landfill operation.

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

Description	Date	Comments
Application EPR/AB3009HS/A001	Duly made 26/04/2013	Application for inert landfill
Additional information received	03/06/2013	Amendments to list of accepted wastes and Operational Techniques and Environmental Management System.
Additional information received	15/7/2013	Response to Schedule 5 Notice
Permit determined	05/03/2014	Permit issued to Sewells Reservoir Construction Limited

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number EPR/AB3009HS/A001

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

Sewells Reservoir Construction Limited ("the operator"),

whose registered office is

Bardon Hall Copt Oak Road Markfield Leicestershire LE67 9PJ

company registration number 02349942

to operate waste operation

Highwood Quarry Inert Landfill Little Easton Great Dunmow Essex CM6 1SN

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

Date
05/03/2014

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, nonconformances 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 5th March 2014 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.

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 (a) 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.
 - (b) 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 S1.1 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 Waste shall only be accepted if:
 - (a) it is of a type and quantity listed in schedule 2 table S2.1; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.

2.4 Pre-operational conditions

2.4.1 The operations specified in schedule 1 table S1.4A shall not commence until the measures specified in that table have been completed.

2.5 Landfill Engineering

- 2.5.1 (a) No construction of any new cell shall commence until the operator has submitted construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.
 - (b) The operator shall review the construction proposals every 12 months
- 2.5.2 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.
- 2.5.3 The operator shall prepare a CQA Validation Report to cover every six month period of construction of the new cell. The operator shall submit the CQA validation report to the Environment Agency as soon as practicable.
- 2.5.4 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.
- 2.5.5 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.

- 2.5.6 The operator shall submit a CQA Validation Report as soon as practicable following the construction of the landfill infrastructure.
- 2.5.7 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.5.4 and 2.5.5 do not apply and the relevant landfill infrastructure may be constructed, provided that the construction proposals are submitted to the Environment Agency as soon as practicable.
- 2.5.8 For the purposes of conditions 2.5.1, 2.5.3 and 2.5.4, 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 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.
- 2.5.9 Where the Environment Agency has required further information under condition 2.5.8(a), 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, and
 - (b) they are inert waste, and
 - (c) they are not liquid waste (including waste waters but excluding sludge), and
 - (d) all the relevant waste acceptance procedures have been completed, and
 - (e) they fulfil the relevant waste acceptance criteria, and
 - (f) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria, and
 - (g) they are wastes which have been treated, except for wastes for which treatment is not technically feasible.
- 2.6.2 The operator shall visually inspect:
 - (a) without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the landfill; and
 - (b) waste at the point of deposit;

and shall satisfy itself that it conforms to the basic characterisation documentation submitted by the holder.

- 2.6.3 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.
- 2.6.4 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.6.5 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing ESID5.1A.

- 2.6.6 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in schedule 1 table S1.3.
- 2.6.7 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 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 Closure and aftercare

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

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land.
- 3.1.2 The trigger levels for emissions into groundwater for the parameters and monitoring points set out in schedule 3 table S3.1 shall not be exceeded.
- 3.1.3 The limits for landfill gas arising from the facility set out in schedule 3, tables S3.2 shall not be exceeded.
- 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 sixth anniversary of the granting of the permit, and
 - (b) between nine and six months prior to every subsequent six years after the sixth anniversary of the granting of the permit.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
 - (a) if notified by the Environment Agencythat 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.

3.3 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 for the parameters specified in the following tables in schedule 3 to this permit:
 - (a) Groundwater specified in tables S3.1 and S3.4;
 - (b) Landfill gas specified in table S3.2;
 - (c) Surface water specified in table S3.3.

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 surface water and groundwater monitoring;
 - (ii) the results of landfill gas monitoring;
 - (iii) waste types and quantities;
 - (iv) the specification and as-built drawings of the basal and sidewall 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 all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
 - (a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this installation and any agreed amendments thereto;
 - (b) the annual production/ treatment set out in schedule 4 table S4.2.
 - (c) the topographical surveys required by condition 3.4.3 other than those submitted as part of a CQA validation report;
 - (d) 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;
 - (e) an assessment of the settlement behavior 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;
 - a calculation of the remaining capacity (reported in cubic metres) derived from settlement contours and the most recent topographical survey;
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
 - (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.2; 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.

4.3 Notifications

- 4.3.1 The Environment Agency shall be notified without delay following the detection of:
 - 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;
 - (b) the breach of a limit specified in the permit; or
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- 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
 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).
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
 - (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.

4.4 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 "without delay", in which case it may be provided by telephone.

Schedule 1 - Operations

Activity	Description of activites for waste operations	Limits of specified activity
A1	D1: Deposit to land	The deposit of inert waste in to or on to land
A2	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding	Treatment operations shall be limited to:
	temporary storage, pending collection, on the site where it is produced)	Physical treatment including manual and mechanical sorting/ separation, screening, crushing, baling of non-
	R3: Recycling/reclamation of organic substances which are not used as solvents	hazardous waste for recovery.
		Waste types as specified in Table 2.1
	R5: Recycling/reclamation of other inorganic compounds	

Description	Parts	Date Received
Application	Section 3a 'Technical Standards' of Part B4 How to comply with your environmental permit and additional guidance for	10/4/2013

Description	Parts	Date Received
Application	Environmental Setting and Design Report -	10/4/2013
	412.02934.00003/ESID	
	Drawing ESID1 Site Location Plan	
	Drawing ESID2 Environmental Setting and Sources,	
	Pathways and Receptors	
	Drawing ESID3 Cultural and Natural Heritage	
	Drawing ESID4 Composite Operations Plan	
	Drawing ESID5 Restoration	
	Drawing ESID6a Illustrative Progress Operations Plans (to year 5)	
	Drawing ESID6b Illustrative Progress Operations Plans (to years 5-9)	
	Drawing6c Illustrative Progress Operations Plans (year 9 to completion)	
	Drawing ESID7a Construction of 'Picture Frame' and Recharge Drain year 1	
	Drawing ESID7b Construction of 'Picture Frame' and Recharge Drain year 2	
	Drawing ESID7c Illustrative cross sections showing recharge trench	
	Drawing ESID8 Environmental Monitoring Plan	
	Drawing ESID9 Surface Water Monitoring Plan	
	Drawing ESID10 Geology	
	Drawing ESID11 Regional Hydrogeology	
	Drawing ESID12 Local Hydrogeology and Hydrology	
	Drawing ESID13 Hydrogeological Cross Sections	
	Hydrogeological Risk Assessement – 412.02934.00003/HRA	
	Landfill Gas Risk Assessment – 412.02934.00003/LRGRA	
	Stability Risk Assessment – 412.02934.00003/SRA	
	H1 Environmental Risk Assessment	
	Operating Techniques and Management System	
Additional Information	Email response amending Operating Techniques and	03/06/2012
	Management System and List of Waste Accepted.	03/06/2013
Response to Schedule 5 Notice dated 05/06/2013	Response to request for additional hydrogeological monitoring and derivation of groundwater quality trigger levels.	15/7/2013
Additional Information	Email response amending Operating Techniques and Management System.	09/092013
Additional Information	Email response including Drawing ESID5.1A showing pre- settlement levels.	18/11/2013

Table S1.3 Annual waste inp	ut limits	K TANK TA
Category	Limit tonnes per year	
All operations	400,000	

Table S1.4A Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
1	Landfilling of inert waste	As filling progresses and following completion of each Phase, install in-waste gas monitoring points at a frequency of no less than two boreholes per hectare, with a minimum of 4 boreholes per site and commence in-waste landfill gas monitoring.

Schedule 2 - Waste types, raw materials and fuel

Table S2.1 Waste types accepted without testing

Exclusions

Wastes having any of the following characteristics shall not be accepted:

- waste in liquid form
- hazardous wastes

Waste Code	Description
10	WASTE FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
10 11	wastes from the manufacture of glass and glass products
10 11 03	waste glass based fibrous materials (only without organic binders)
15	WASTE PACKAGING: ABSORBENTS, WIPING CLOTHS, FILTER MATERIAL AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	packaging (including separately collected municipal packaging waste)
15 01 07	glass packaging
17	CONSTRUCTION AND DEMOLITION WASTE (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01	concrete, bricks and plastic
17 01 01	concrete ¹
17 01 02	bricks ¹
17 01 03	tiles and ceramics ¹
17 01 07	mixtures of concrete, bricks and ceramics ¹
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	soils and stones not mentioned in 17 05 03 (excluding topsoil, peat; excluding soil and stones from contaminated sites)
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENTPLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 12	waste 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 (separately collected glass only)
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones (only from garden and parks waste; excluding top soil and peat)

¹ Selected construction and demolition (C and D) waste only, with low contents of other types of materials (like metals, plastic, soil, organics, wood, rubber etc). The origin of the waste must be known. No C and D waste from constructions polluted with inorganic and organic dangerous substances and no C and D waste from constructions treated, covered or painted with materials containing dangerous substances in significant amounts.

Schedule 3 – Emissions and monitoring

Monitoring point reference*	Parameter	Limit* (includin g unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Downgradient	Nickel	0.02 mg/l	Spot Sample	Quarterly	In accordance with Agency
boreholes GW11, GW14 and GW15 as shown on Drawing ESID8 dated April 2013.	Cadmium	1 μg/l	Spot Sample	Quarterly	guidance LFTGN02 'Guidance on Monitoring or
	Mercury	0.1 µg/l	Spot Sample	Quarterly	Landfill Leacha Groundwater and Surfa
	Sulphate	250 mg/l	Spot Sample	Quarterly	Water' or as otherwise agreed with the Agency.
	confirmed 1: proposed ar	2 months afte mendments w	mits to be valuer the permit issurill require the a conment Agency.	ue date. Any pproval and	9

Monitoring point reference	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
In-waste monitoring standpipes to be installed following completion of each landfill phase at a	Methane Carbon Dioxide	[no limit]	Quarterly	In accordance with Agency guidance LFTGN03 'Guidance on the Management of Landfill Gas' or as otherwise agreed with the Agency
spacing no less than 2 monitoring points per hectare.	Oxygen Atmospheric Pressure Meteorological Data	[no limit]		

Monitoring point reference or source or description of point of measurement.	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Point D as shown on Drawing ESID8 dated April 2013.	pH, Conductivity, Ammoniacal nitrogen, Sulphate, Chloride, BOD, COD, TOC, TON	Quarterly	Monitoring to be carried out in accordance with Environment Agency Guidance Document LFTGN02 'Guidance on Monitoring of Landfill Leachate,	
			'Guidance on Monitoring of	

Monitoring point reference	Parameter	Monitoring frequency	
Monitoring boreholes GW5, GW7, GW11, GW14 and GW15 as shown on	Water level, pH, Conductivity, Ammoniacal nitrogen, Fluoride, Sulphate, Chloride, BOD, COD, TOC, Total Alkalinity, Arsenic, Magnesium, Potassium, Lead, Zinc, Copper, Cadmium, Mercury, Nickel, Iron, Chromium, Calcium, Magnesium, Selenium, Sodium.	Quarterly	
Drawing ESID8 dated April 2013.	Hazardous substances (List 1) screen	Annually	

Schedule 4 - Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Groundwater Parameters as required by condition 3.5.1.	Monitoring point locations as described in Tables S3.1 and S3.4	Quarterly	From date of permit issue
Groundwater Parameters as required by condition 3.5.1	Monitoring point locations as described in Tables S3.4	Annually	From date of permit issue
Landfill gas monitoring Parameters as required by condition 3.5.1	In-waste monitoring boreholes (minimum 2 required per hectare) as described in Table S3.2	Quarterly	From date of installation
Surface water monitoring Parameters as required by condition 3.5.1	Monitoring point locations as prescribed in Tables S3.3	Quarterly	From date of permit issue

Media/parameter	Reporting format	Date of form
Groundwater	Form Groundwater 1 or other as agreed in writing by the Environment Agency	From date of permit issue
Landfill gas	Form LFG 1 other form as agreed in writing by the Environment Agency	From date of permit issue
Surface Water	Form Water1 or other form as agreed in writing by the Environment Agency	From date of permit issue
Waste Return	Waste return form RATS2E	From date of permit issue
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing by the Environment Agency	From date of permit issue

Schedule 5 - Notification

These pages outline the information that the operator must provide.

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

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

Part A	
Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	A A CONTRACTOR OF THE CONTRACT
	any malfunction, breakdown or failure of equipment or techniques,
	nce not controlled by an emission limit which has caused, is
causing or may cause significant	
	e 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	and the second s
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.	
accident.	
(b) Notification requirements for	the breach of a limit
	24 hours of detection unless otherwise specified below
Emission point reference/ source	24 Hours of detection among outerwise specified below
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to	
be taken, to stop the emission	

Parameter	Notification period
(c) Notification requirements for the detection of an	y significant adverse environmental effect
To be notified within 24	hours of detection
Description of where the effect on	
the environment was detected	
Substances(s) detected	
Concentrations of substances	
detected	
Date of monitoring/sampling	
==	# = = = = =
Part B - to be submitted as soon as	practicable
Any more accurate information on the matters for	
notification under Part A.	
Measures taken, or intended to be taken, to	
prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify,	
limit or prevent any pollution of the environment	
which has been or may be caused by the emission	
The dates of any unauthorised emissions from the	
facility in the preceding 24 months.	
Name*	
Post	
Signature	

Date

^{*} authorised to sign on behalf of the operator

Schedule 6 - Interpretation

"accident" means an accident that may result in pollution.

"application" means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

"annually" means once every year.

"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.

"Construction Proposals";

- for new cells, means written information at a level of detail appropriate to the complexity and pollution risk, on stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the new cell.
- for landfill infrastructure, means the design, specifications of materials selected, stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the landfill infrastructure.

"CQA Validation Report" means the final "as built" construction and engineering details of the 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-compliance 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 SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

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

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

"Landfill Infrastructure" means any specified element of the:

- surface water drainage systems;
- groundwater monitoring boreholes;

landfill gas monitoring boreholes;

within the Site.

"Liquids" means any liquid other than leachate within the landfill.

"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;
- sub-grade;
- artificially established geological barriers;
- 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 alter the agreed design criteria, specification or performance in a way that has a negative effect.

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

"quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

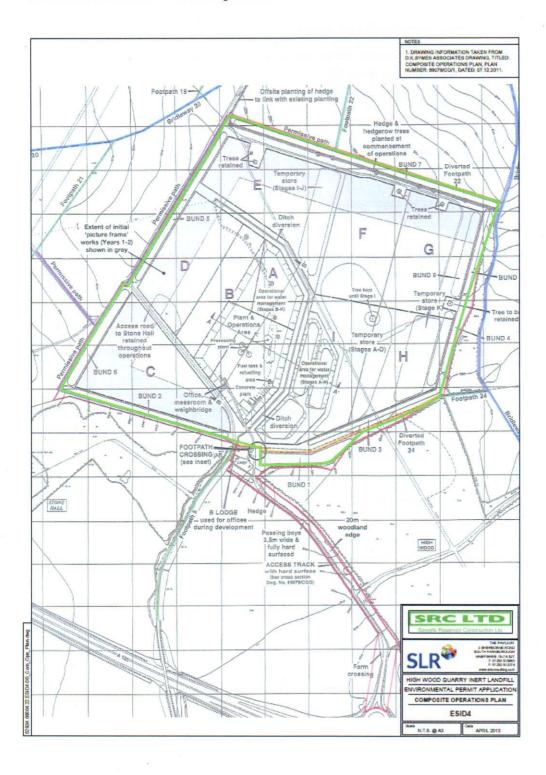
"Waste code" means the six digit code referable to a type of waste in accordance with the List of Wastes (England)Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

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

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

"year" means calendar year ending 31 December.

Schedule 7 - Site plan



END OF PERMIT

05/03/2014