

**REPORT**

# Sandsfield Gravel Company Ltd

## *Milegate Eastern Extension Quarry and Landfill*

### *Environmental Permit EPR/BX1942IX Variation Application Supporting Statement*

Submitted to:

**Sandsfield Gravel Company**

Sandsfield  
Brandesburton  
Driffield  
East Yorkshire  
YO25 8SA

Submitted by:

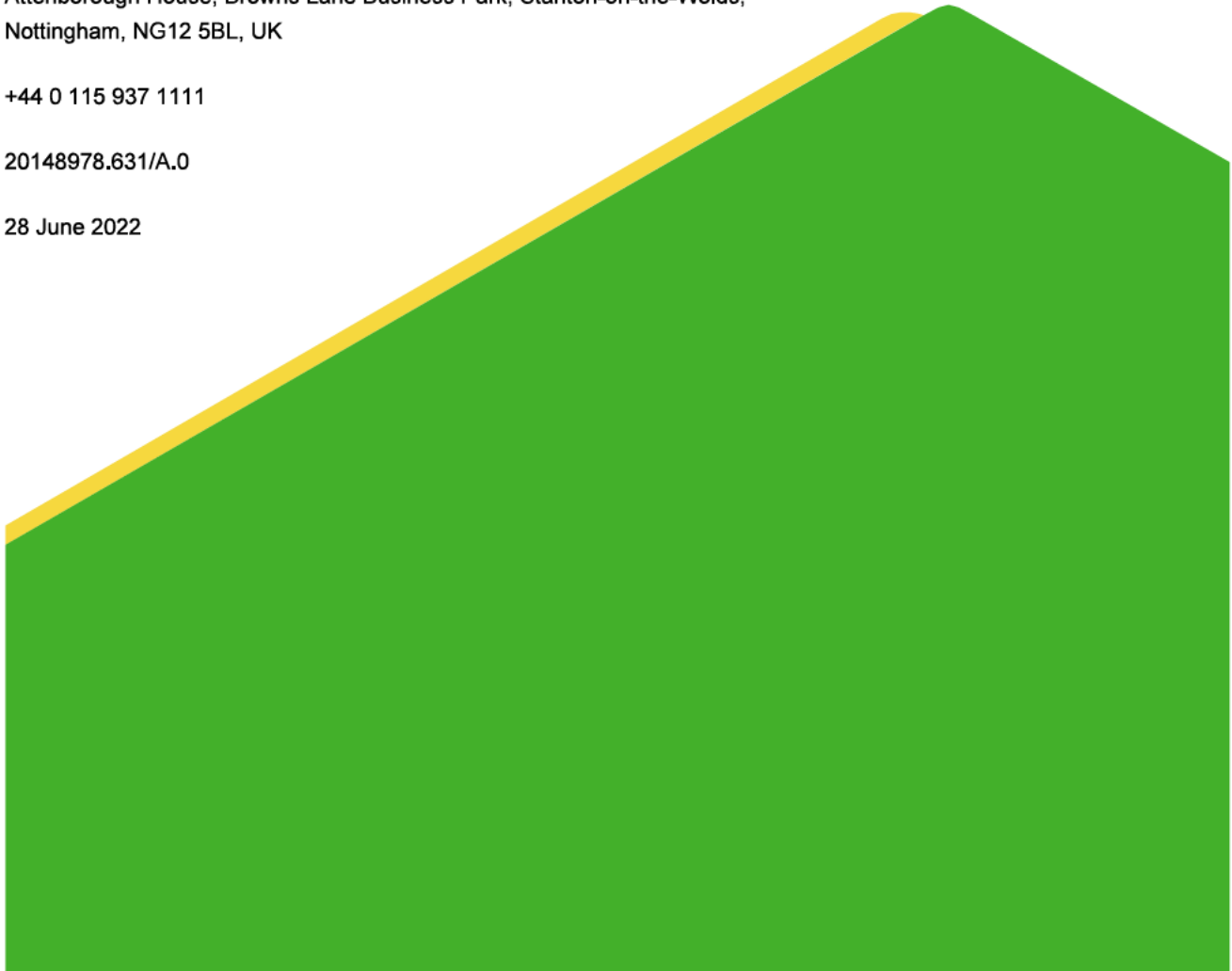
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## 1.0 INTRODUCTION

### 1.1 General

Sandsfield Gravel Company Ltd ('Sandsfield') has requested Golder Associates (UK) Ltd ('Golder') to prepare an Environmental Permit (EP) Variation Application (hereafter referred to as the 'Variation Application') for the development of an Eastern Extension at Milegate Extension Landfill at Catwick Lane, Brandesburton, Driffield, East Yorkshire, YO25 8SA (the 'Site').

### 1.2 Project Objectives and Description

Sandsfield proposes to extend its existing quarry and landfill operations at Milegate Extension Landfill into the neighbouring field to the east (the 'Eastern Extension') which is currently in agricultural use and is applying for planning permission and an EP variation to allow continued and uninterrupted landfilling operations to extend into the Eastern Extension following mineral extraction.

The existing landfill is divided into ten cells, Cells 1 to 8 (Cells 2 and 4 are split into A and B). Landfilling commenced in 2007 in Cell 1 and subsequently proceeded in a westerly direction to Cells 3, 5 and 7. Cell 8 was constructed in summer 2016, and subsequently landfilling has continued in an easterly direction into Cell 6, Cell 4A and Cell 4B with Cells 2A and 2B to follow. Cells 1, 3, 5, 7 and 8 are filled and restored. Cell 6 and Cell 4A have been recently filled and await restoration; and Cell 4B is the currently operational cell.

Landfill gas is collected from the waste and is currently flared at the Site. The amount of the produced gas has risen over past years as the amount of the deposited waste has increased and Sandsfield would now like to seek approval for installation of two gas engines at the Site. Leachate is collected and directed to two above-ground holding tanks and discharged to sewer via a 750 m long buried pipe; infrastructure that was installed in late 2016.

In May 2022, Sandsfield submitted three planning applications (two S.73 applications and a full application for Planning Permission) to East Riding of Yorkshire Council (ERYC) in parallel (one Environmental Statement) to develop the existing operations as follows:

- Mineral extraction (Eastern Extension Quarry) including stripping and re-use of topsoil, excavation and re-use of overburden and interburden, excavation and removal of sand and gravel, and groundwater and surface water management.
- Disposal of non-hazardous and inert wastes (Eastern Extension Landfill) in the Quarry void including landfill engineering and environmental monitoring infrastructure, and landfill capping, restoration and aftercare. The Eastern Extension is proposed to be completed within the timeframe already permitted for the existing operations i.e. before February 2038.
- Relocation of the existing landfill flare from the southeast corner to the northwest corner of the existing site (January 2019) and upgrade of that flare (September 2021) (retrospective application).
- Installation of a new landfill gas utilisation compound at the northwest corner of the existing site, in which there will be the phased installation of two new landfill gas-to-energy engines ('micro-generators') and associated equipment. The landfill gas flare will be moved into this compound. A new cable connection will be installed from the compound, extending northwest to a new step-down transformer, enabling the gas engines to generate electricity and supply a neighbouring business by private wire and the National Grid.

A decision regarding the planning application submitted to ERYC is pending.

## 1.3 Environmental Permit

An application to operate the existing Milegate Extension Landfill under the Pollution Prevention and Control (PPC) Regulations was submitted to the EA in November 2004, and subsequently Permit BX1942IX was issued by the EA on 3 March 2006. When the Environmental Permitting (England and Wales) Regulations came into force, the PPC permit was re-issued as an Environmental Permit (EP) which has since been varied again, most recently in February 2020 (Variation Notice V003) by the EA to provide a consolidated permit in modern condition format. The EP allows Sandsfield to dispose of non-hazardous waste under the listed activity of Section 5.2 Part A(1)(a) of the Environmental Permitting (England and Wales) Regulations and the Site can accept up to 75,000 tonnes of waste per year for landfilling. The following directly associated activities (DAAs) are also permitted:

- Storage of leachate in two above ground storage tanks and associated pipework;
- Leachate pumping, extraction and removal off Site;
- Flaring of landfill gas for disposal in an appliance;
- Discharge of Site drainage from the landfill (surface water management); and
- Storage of fuel for operation of plant and equipment.

## 2.0 APPLICATION FORMS

As required for a variation application for a bespoke installation EP, the following forms have been completed:

- Part A: About You.
- Part C2: General – Varying a Bespoke Permit.
- Part C3: Varying a Bespoke Installations Permit.
- Part F1 – Charges and Declarations.

These forms are the driver behind the application, such that the EA is able to verify that the regulatory requirements have been met. This Supporting Statement provides responses to the relevant questions on each part of the forms and signposts to supplementary documents (such as risk assessments and management plans) provided in support of the variation application.

The application forms are provided at the start of this EP variation application document.

### 2.1 Form Part A – About You

#### 2.1.1 Qu.5c and Appendix A from Companies or Corporate Bodies

Details of the company directors and secretary are presented in Table 631.1. The date of birth information for these persons (as required in Part A - Appendix A) is also presented.

**Table 631.1: Details of Company Directors and Secretary**

Name	Position	Date of Birth
Mrs Dianne Mary Mewburn	Secretary and Director	
Mr James Heppell Mewburn	Director	
Mr Mark Wilson Mewburn	Director	



## 2.2 Form Part C2 – General – Varying a Bespoke Permit

### 2.2.1 Qu.1a: Pre-application Consultation

No *formal* pre-application meeting has been held. Informal discussions have been held with Mr Roy Thompson, Environment Officer, Crosskill House, Mill Lane, Beverley, East Riding of Yorkshire HU17 9JW.

### 2.2.2 Qu.2a: Type of Variation

The EA EP (England) Charging Scheme (dated August 2020) defines the different types of application based on the type of variation and the degree of assessment required. In accordance with the definitions provided in Part 1 of the Schedule to this scheme, this variation application is considered to constitute a *substantial* variation for landfill for non-hazardous waste.

### 2.2.3 Qu.2b: Changes or Additions to Existing Activities

As described in Section 1.2 above, this permit variation is submitted to vary existing Environmental Permit EPR/ BX1942IX/V003 to:

- Extend Sandsfield's Permit Boundary around the Eastern Extension in accordance with the proposed scheme for non-hazardous waste landfill; and
- Add a new landfill gas utilisation compound, with two gas-to-energy engines, and relocated gas flare.

Details of proposed changes to EPR/ BX1942IX/V003 are presented in **Table 631.2**.

**Table 631.2: Proposed Changes to Existing Activities in Permit EPR/BX1942IX/V003**

Name of Change	Permit Section Reference	Details of Proposed Change
Financial Provision	1.2.1	Updated financial provision and varied agreement
Permit Boundary	2.2.1	Drawing ESID2
Quantity of Waste	2.6.6	This condition refers to the existing Site and will continue to apply. Add reference to Drawing ESID4 and ESID5 submitted with this application to also show the levels in the Eastern Extension.
Activities	Table S1.1	A1 – update to Limits of Specified Activity Add Directly Associated Activity 'R1 – use principally as a fuel to generate energy: Utilisation of landfill gas for energy recovery in an appliance with a rated thermal input < 3MW': Utilisation of landfill gas energy arising from the landfill covered by BX1942IX, in the area identified as 'Landfill Gas Compound (Proposed)' on Drawing ESID8.
Operating Techniques	Table S1.2	Include this application for Eastern Extension.
Improvement Conditions	Table S1.3	Remove completed improvement programme requirements 1 and 2
Waste Input Limits	Table S1.4	Replace 'to be agreed in accordance with IC1 in table S1.3' with '130,000' tonnes/year as proposed by Restoration Plan, December 2020.

Name of Change	Permit Section Reference	Details of Proposed Change
Pre-operational measures	Table S1.5	Remove completed pre-operational measures 1 and 2.
Leachate	Table S3.1	Amendment of limits for existing Site as proposed in HRA Review (0751420324.508). Addition of limits for Eastern Extension. Reference HRA (20148978.633), LMP (20148978.638) and Drawing HRA3 – MEPP.
Point Source Emissions to air	Table S3.2	Revised reference to Flare as 'Flare within Gas Compound shown on Drawing ESID8' submitted with this application. Addition of 'Gas Engines within Gas Compound' limits. Reference GMP (20148978.641) and Drawing HRA3 - MEPP.
Point Source emissions to water	Table S3.3	Addition of limits for SW1 for the Eastern Extension. Reference SWMP (20148978.640) and Drawing HRA3 – MEPP.
Groundwater – emission limits and monitoring requirements	Table S3.4	Amendment of limits for existing Site as proposed in HRA Review (0751420324.508). Addition of limits for Eastern Extension. Reference HRA (20148978.633), GWMP (20148978.639) and Drawing HRA3 – MEPP.
Landfill gas in external monitoring boreholes	Table S3.5	Addition of limits for Eastern Extension. Reference GMP (20148978.641) and Drawing HRA3 - MEPP.
Landfill gas – other monitoring requirements	Table S3.8	Addition of 'Gas Engines within Gas Compound' monitoring. Reference GMP (20148978.641) and Drawing HRA3 - MEPP.

### 2.2.4 Qu.3b: Technical Competence

The applicant has signed up to the Waste Management Industry Training and Advisory Board (WAMITAB) scheme for demonstrating technical competence. Certification of technical competence to this scheme is provided in **Technical Competence** (ref. 20148978.647) of this Supporting Statement. The technically competent manager is as follows:

- Mr David John Marsden.
- Date of Birth: 23.08.1962.
- Telephone No: 01482 871276.
- email: djmarsden1962@gmail.com.

Mr David Marsden also provides technical competence for other permitted sites, operated by others, as follows:

- ENVA Battery Recycling Ltd, Immingham, EPR/CP3294LE;
- Brotherton Ings, Ash Lagoons, RP3930BD (closed landfill, six-monthly attendance requirement agreed with EA);



- Fiddlers Ferry Ash Lagoon, EPR/BR6791IJ (monthly visits agreed with EA);
- Check environmental Ltd, Hull EPR/EB3409TS (Bi-monthly visits as agreed with the EA); and
- North Lincolnshire Council Conesby Quarry Closed landfill, Scunthorpe, EPR/BV0627IL, (Bi-monthly visits as agreed with the EA).

### 2.2.5 Qu.3c Financial Provision

Financial provision for meeting the obligations under the existing permit are set out in the agreement between Sandsfield and the EA, dated 3 March 2006, as varied most recently on 10 February 2020.

A copy of the Expenditure Plan updated in support of this application for the original site, Northern Extension and Eastern Extension is provided in **Expenditure Plan** (ref. 20148978.646).

### 2.2.6 Qu.3d: Management Systems

The landfill operations on Site are governed by a management plan. The structure is as follows:

- General Introduction;
- Specified Waste Management Operations;
- Site Engineering for Pollution Control;
- Site Infrastructure;
- Site Operations;
- Pollution Control, Monitoring & Reporting Systems;
- Amenity Management & Monitoring; and
- Record Keeping.

Copies of these can be provided upon request from the EA.

### 2.2.7 Qu.5a: Site Plans

An **Environmental Setting and Installation Design** (ESID) report (ref. 20148978.632) is submitted in support of this variation application which fully supersedes the original ESID report (ref. 03523539.501/A.0) but is updated only so far as to reflect the current *operational status* of the Site or where there is considered to be a *material change* to the conceptual model. It is not intended to fully update non-material changes or summarise aspects of engineering, construction quality assurance, environmental monitoring or annual review that are fully considered/approved by the Environment Agency elsewhere in accordance with the EP.

The following drawings are provided in the ESID report (ref. 20148978.632):

- Drawing ESID1 – Site Location Plan;
- Drawing ESID2 – Environmental Site Setting;
- Drawing ESID3 – Cultural and Natural Heritage;
- Drawing ESID4 – Site Layout and Waste Deposition;
- Drawing ESID5 – Restoration;
- Drawing ESID6A – Installation Infrastructure;
- Drawing ESID6B – Installation Details;

- Drawing ESID7A – Leachate Management Infrastructure;
- Drawing ESID7B – Leachate Management Details;
- Drawing ESID7C – Leachate Holding Tanks and Discharge Pipeline;
- Drawing ESID8 – Landfill Gas Management Infrastructure;
- Drawing ESID9A – Superficial and Bedrock Geology;
- Drawing ESID9B – Eastern Extension Site Investigation Infrastructure;
- Drawing ESID10 – Groundwater Vulnerability and Source Protection Zones;
- Drawing ESID11 – Local Hydrogeology and Hydrology; and
- Drawing ESID12 – Hydrogeological Cross Section.

### 2.2.8 Qu.5b: Site Report

The variation application seeks to increase the permit boundary beyond that currently approved. As such, a site report has been produced to provide detail on the state of the land that is to be included.

A copy of this report is provided in support of this application in **Site Condition Report** (ref. 20148978.645). Further information is also provided in Section 4.0 of the ESID Report (ref. 20148978.632).

### 2.2.9 Qu.5c: Non-Technical Summary

A non-technical summary is provided in support of this variation application in **Non-technical Summary** (ref. 20148978.649).

### 2.2.10 Qu.5e: Baseline Report

The variation application does not seek to add an installation to the existing EP; as such, a baseline report is not required.

### 2.2.11 Qu.6: Environmental Risk Assessment

The existing Environmental Risk Assessment (ERA) has been updated to take into account the increase to the boundary in which the existing permitted activities will be extended. The risk assessment is provided in support of this variation application in Appendix 1 of **Nuisance and Health Management Plan** (ref. 20148978.636).

## 2.3 Form Part C3 – Variation to a Bespoke Installation Permit

### 2.3.1 Qu.1: Activities to be Varied

The purpose of this variation application is set out in detail in Sections 1.2 to 1.4 above and details of the proposed activities to be varied are detailed in Section 2.2.3.

### 2.3.2 Qu.2: Emissions to Air, Water and Land

Schedule 3 of EP EPR/ BX1942IX /V003 gives details of existing emissions and monitoring for the Site, including monitoring locations, source, parameter, quantity and units, and includes:

- Table S3.1 Leachate level limits and monitoring requirements;
- Table S3.2 Point source emissions to air – emission limits and monitoring requirements;
- Table S3.3 Point source emissions to water (other than sewer) – emission limits and monitoring requirements;

- Table S3.4 Groundwater – emission limits and monitoring requirements;
- Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements;
- Table S3.6 Landfill gas emissions from capped surfaces for cells that have accepted non-hazardous biodegradable waste – monitoring requirements;
- Table S3.7 Groundwater – other monitoring requirements;
- Table S3.8 Landfill gas – other monitoring requirements;
- Table S3.9 Leachate – other monitoring requirements;
- Table S3.10 Surface water – other monitoring requirements; and
- Table S3.11 Point source emissions to sewer, effluent treatment plan or by tinkering or other transfer off-site – emissions limits and monitoring.

The following reports are submitted in support of this variation application for the Eastern Extension which consider the potential additional emissions from the Site, and propose some additions to the Permit emission limits and monitoring requirements within the tables listed above:

- **Hydrogeological Risk Assessment** (Ref 21453458.633).
- **Landfill Gas Risk Assessment** (Ref 21453458.635).

Procedures are also in place to regularly assess (on a qualitative basis) and record the noticeable emissions of dust, odour and noise from the Site.

### 2.3.3 Qu.3a, 3b: Technical Standards and General Requirements

The following technical guidance documents will be referenced while continuing the Schedule 1 activity and Directly Associated Activities at the Site:

- “How To Comply With Your Permit” (.gov.uk website);
- “Environmental Permitting: Landfill Sector Technical Guidance” (.gov.uk website);
- “Landfill Developments: Groundwater Risk Assessment for Leachate;
- “Landfill: Monitoring Frequencies and Non-Compliance Recording” (.gov.uk website);
- LFTGN 02 Monitoring of Landfill Leachate, Groundwater and Surface Water;
- LFTGN 03 Management of Landfill Gas;
- LFTGN 04 Monitoring Trace Components in Landfill Gas;
- LFTGN 05 Monitoring Enclosed Landfill Gas Flares;
- LFTGN 07 Monitoring of Landfill Gas Surface Emissions; and
- LFTGN 08 Monitoring Landfill Gas Engine Emissions.

As part of the original PPC permit application process, Sandsfield was required to demonstrate that Best Available Techniques (BAT) were to be implemented to prevent, and, where this was not possible, to minimise, risks of pollution to all environmental media. As Milegate Extension Landfill has been issued with a PPC Permit and, more recently, an Environmental Permit, this indicates that Sandsfield has demonstrated that it is able to operate in accordance with BAT for landfill. These operational techniques will be carried forward to operation of the proposed Eastern Extension.

The objectives of this variation application are described in Section 1 above. To this end, this variation application includes the following documents presented *in addition* to those already presented for the existing site:

- **Environmental Setting and Installation Design** report (ref. 20148978.632);
- **Hydrogeological Risk Assessment** (ref. 20148978.633);
- **Stability Risk Assessment** (ref. 20148978.634);
- **Landfill Gas Risk Assessment** (ref. 20148978.635); and
- Environmental Risk Assessment (Appendix 1 to **Nuisance and Health Management Plan**, ref. 20148978.636).

The following management plans are provided:

- **Nuisance and Health Management Plan** (ref. 20148978.636);
- **Accident Management Plan** (ref. 20148978.637);
- **Leachate Management Plan** (ref. 20148978.638);
- **Groundwater Management Plan** (ref. 20148978.639);
- **Surface Water Management Plan** (ref. 20148978.640);
- **Landfill Gas Management Plan** (ref. 20148978.641); and
- **Dust Management Plan** (ref. 20148978.644).

### 2.3.4 Qu.3c: Types and Amounts of Raw Materials

Milegate Eastern Extension has been designed on the basis of material balance of site materials including top soil, sub soil and clay.

Leachate drainage blanket materials will comprise recycled materials.

Some new raw materials will be required including gas and leachate pipework, joints and valves, borehole installation materials, concrete manholes and covers etc. These are considered small in quantity, non-hazardous and are not individually itemised.

### 2.3.5 Qu.3d: Sector Specific Information (Appendix 4)

Information required by Appendix 4 is provided below.

This variation application includes the following documents presented *in addition* to those already presented for the existing site:

- **Environmental Setting and Installation Design** report (ref. 20148978.632);
- **Hydrogeological Risk Assessment** (ref. 20148978.633);
- **Stability Risk Assessment** (ref. 20148978.634);
- **Landfill Gas Risk Assessment** (ref. 20148978.635); and
- Environmental Risk Assessment (Appendix 1 to **Nuisance and Health Management Plan**, ref. 20148978.636).



Upon disposal of the last waste to be received at the Site restoration will be completed, and the Site will enter the post operational period, as follows:

- Closure Date – the *date* at which active waste disposal operations stop (i.e. the 'gate shuts');
- Post-Operational Period - the *period* between the Operational Period and the Aftercare Period;
- Definitely Closed Date - the *date* at which the EA agrees that the site can enter the Aftercare Period;
- Aftercare Period - the *period* between Definitely Closed Date and permit Surrender Date; and
- Surrender Date - the *date* at which EA accepts that the site no longer presents a risk to the environment and the Permit is handed back.

During the Post-Operational period, environmental monitoring will continue in accordance with the Permit and during the Aftercare Period, environmental monitoring will continue in accordance with a Closure Plan.

Some infrastructure *may* be dismantled soon after completion of active landfilling operations e.g. offices. The landfill gas utilisation plant will be decommissioned after the Gas Cessation Year, i.e. the last year that landfill gas will be available in sufficient quantity and quality to continue to utilise the gas for the generation of electricity. The flare will be decommissioned after the End of Flaring Date, i.e. the last year that landfill gas will be available in sufficient quantity and quality to continue to flare. Leachate management systems will be decommissioned and dismantled after Permit Surrender, or when a Surrender Report and risk assessment has identified that these do not need to continue.

A method statement for the decommissioning of the landfill gas extraction system, the landfill gas utilisation plant, leachate treatment systems, leachate extraction systems and any repair of penetrations through the landfill cap will be submitted to the Agency for approval prior to the works being carried out.

At this stage, it is envisaged that all the components of the gas and leachate extraction systems below the landfill cap will be left in the waste. All headworks, pipework, manifold chambers etc. above the capping system will be removed, as required, as part of the decommissioning such that they do not interfere with the Restoration Plan.

Wells within the waste are subject to damage due to waste settlement and all infrastructure will have a finite operational life due to material decay or attack by external processes. Irrespective of this, all infrastructure which is required during the post closure period to prevent a significant adverse impact upon the environment will be maintained and replaced as necessary.

### 2.3.6 Qu.4: Monitoring

The emissions and monitoring for the existing Site are included in Schedule 3 of EP EPR/BX1942IX/V003. The changes required to the monitoring schedule as part of this variation are detailed in Section 2.3.2, above.

### 2.3.7 Qu.5a: Environmental Impact Assessment

On 26 May 2022, Sandsfield submitted three planning applications (two S.73 applications and a full application) to East Riding of Yorkshire Council (ERYC) in parallel (one Environmental Statement) to develop the existing operations as described in Section 1.2 above.

The application is subject to validation by ERYC and no reference number has yet been provided. The Application and Environmental Statement will be available from the ERYC Planning Portal.

### 2.3.8 Qu.6: Resource Efficiency and Climate Change

In accordance with the existing permit, a review of energy efficiency is prepared every four years. The review includes consideration of landfill gas, the use of diesel for vehicles, pumps and energy use in site offices.

The following good practices are made:

- Continued regular and documented maintenance of all vehicles and mechanical equipment (pumps etc.) to ensure efficient operation;
- Continued 'good housekeeping' including switching off heating and lighting when not in use, reducing thermostatic temperature and the installation of efficient insulation; and
- Continued operation of the Site in accordance with the Environmental Management System.

Once approved the Eastern Extension and Gas Compound will be bought into these regular reviews.

## 2.4 Form Part F – Charges and declarations

The variation application charges are as defined in Tables 1.17 and 1.19 of the 2022, version 1.0, charging scheme, presented in **Table 631.3** below.

**Table 631.3: Charges for Variation Application**

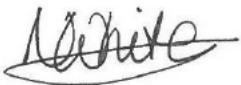
Item	Reference (2022)	Charge (£)
Section 5.2 – landfill for non-hazardous waste with a separate cell for stable non-hazardous waste, asbestos or gypsum; including assessment of odour management plan (normal variation)	1.17.1	20,637
Pest Management Plan	1.19.4	1,241
Emissions Management Plan	1.19.5	1,241
Noise Management plan	1.19.7	1,246
Dust and bioaerosol Management Plan	1.19.9	620
<b>Total</b>		<b>24,985</b>

Payment has been made by BACS, ref: PSCAPPSANDS123 dated 28 June 2022.



## Signature Page

### Golder WSP UK Limited



Nicola White  
*Project Manager*



Chris McDonald  
*Project Director*

Date: 28 June 2022

AA/NW/ab

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