

# Caulmert Limited

Engineering, Environmental & Planning  
Consultancy Services

## Bryn Posteg Landfill Site

Sundorne Products (Llanidloes) Limited

## Environmental Permit Variation Application

## Non-Technical Summary

### Prepared by:

#### **Caulmert Limited**

5 Farrington Way, Eastwood Link Business Park, Eastwood, Nottinghamshire, NG16 3BF

**Tel:** 01773 749132

**Fax:** 01773 746280

**Email:** [andystocks@caulmert.com](mailto:andystocks@caulmert.com)

**Web:** [www.caulmert.com](http://www.caulmert.com)

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## 1 INTRODUCTION

### 1.1 Application Context

- 1.1.1 Bryn Posteg Landfill Site in Llanidloes, Powys is operated by Sundorne Products (Llanidloes) Ltd Trading as Potters Waste Management (Potters) under Environmental Permit EPR/BU77661C.
- 1.1.2 Caulmert Limited were appointed by the operator to prepare an application to vary the existing permit to account for a revised landform at the site. The application also includes for wastes to be accepted as a recovery operation to enable the import of materials for the restoration of the site.

## 2 SITE LOCATION

- 2.1.1 Bryn Posteg Landfill Site is located approximately 2.8 km south east of Llanidloes, Powys, at NGR SN970822. The site is operated by Sundorne Products (trading as Potters Waste Management). The site is accessed via the B4518, the Llanidloes to Tylwch Road. The site location is marked by the red circle in Figure 1 below.
- 2.1.2 The site is situated amongst predominantly agricultural land. It is bound to the west by the B4518. Few residential properties are situated within close proximity to the site. The site and the surrounding receptors are shown on Drawing 3428-CAU-XX-XX-RP-V-1806.



Figure 1: Site Location Plan

### 3 SITE HISTORY

- 3.1.1 Bryn Posteg Landfill Site is located at the site of a former lead mine. The site has been developed over a number of years with the first waste being accepted into Phase 1 in 1982. The site is currently divided into 9 Phases which, in turn, are divided into subcells. The current tipping operations are continuing in Phase 9c and 9d. In some documentation Cell 9D is referred to as subcells 9D & 9E.
- 3.1.2 The site phases are: 1, 2, 3A, 3B, 3C, 4A, 4B, 5, 6, 7, 8, 9A, 9B, 9C, 9D, 9E. Waste is currently accepted in Cell 9C, 9D and Cell 9E; all other cells are complete. Cells 1 to 9B are all capped.
- 3.1.3 Phases 1-5 were operated by Montgomeryshire, later Powys County Council, between 1982 and 1997. Evans Logistics Ltd operated Phases 6 – 8. Potters acquired the site in 2005. Phases 9A – 9E have been developed in the southern part of the site. Between 2008 and 2017 additional tipping was also ‘piggy-backing’ onto the existing site (Phases 3A, 3B, 4A and 4B).
- 3.1.4 As a result of significant overtipping, predominantly over the central part of the site (now mostly complete and capped) a revised final restoration profile has been developed to account for the overtipping and to enable the satisfactory completion of the site.

### 4 PROPOSED CHANGES

- 4.1.1 This permit variation is to amend the final restoration profile of the landfill to a scheme proposed in the latest contour plan (3456-CAU-XX-XX-DR-S-1813) to account for previous overtipping and to enable the satisfactory completion of the site. Details and copies of plans are included within the ESID Report (3428-CAU-XX-XX-RP-V-0310-A0-C1)
- 4.1.2 The risk assessments submitted as part of the variation considers the environmental implications of the proposed scheme.
- 4.1.3 Consequently the completion of the site to the profile proposed within this application is considered to be the environmentally acceptable option, compared with reprofiling the site with the potential impact on public health and safety and the potentially significant risks to the environment.
- 4.1.4 Additional technical assessment and modelling has been undertaken to assess potential impact of the revised restoration profile. These reports have already been submitted to NRW and are attached within this application together with an updated Environmental Setting and Installation Design (ESID) report. These comprise
- Revised Hydrogeological Risk Assessment
  - Revised Stability Risk Assessment
  - Revised Landfill Gas Risk Assessment
- 4.1.5 Relevant Management Plans have been updated and are also included within this application.
- Updated Landfill Gas Management Plan

- Updated Landfill Gas Management Plan
- Updated Leachate Management Plan
- Updated Surface Water Management Plan
- Updated Odour Management Plan

4.1.6 It is also proposed to accept additional waste types for recovery to enable the restoration of the site as listed below:

|              |  |
|--------------|--|
| <b>01</b>    | <b>WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS</b>   |
| <b>01 04</b> | <b>wastes from physical and chemical processing of non-metalliferous minerals</b>  |
| 01 04 08     | waste gravel and crushed rocks other than those mentioned in 01 04 07  |
| 01 04 09     | waste sand and clays   |
| <b>02</b>    | <b>WASTES FROM THE PREPARATION AND PROCESSING OF MEAT, FISH AND OTHER FOODS OF ANIMAL ORIGIN</b>   |
| <b>02 04</b> | <b>wastes from sugar processing</b>  |
| 02 04 01     | soil from cleaning and washing beet  |
| <b>03</b>    | <b>WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD</b>   |
| <b>03 03</b> | <b>wastes from pulp, paper and cardboard production and processing</b>   |
| 03 03 05     | de-inking sludges from paper recycling   |
| 03 03 09     | lime mud waste   |
| <b>17</b>    | <b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>   |
| <b>17 05</b> | <b>soil (including excavated soil from contaminated sites), stones and dredging spoil</b>  |
| 17 05 04     | soil and stones other than those mentioned in 17 05 03   |
| 17 05 06     | dredging spoil other than those mentioned in 17 05 05  |
| <b>19</b>    | <b>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</b> |
| <b>19 05</b> | <b>wastes from aerobic treatment of solid wastes</b>   |
| 19 05 03     | off-specification compost  |
| <b>19 08</b> | <b>wastes from waste water treatment plants not otherwise specified</b>  |
| 19 08 05     | sludges from treatment of urban waste water  |
| <b>19 09</b> | <b>wastes from the preparation of water intended for human consumption or water for industrial use</b>   |
| 19 09 02     | sludges from water clarification   |
| <b>19 12</b> | <b>wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletizing) not otherwise specified</b>  |
| 19 12 09     | minerals (for example sand, stones)  |
| <b>19 13</b> | <b>wastes from soil and groundwater remediation</b>  |
| 19 13 02     | solid wastes from soil remediation other than those mentioned in 19 13 01  |

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|              |  |
|--------------|--|
| 19 13 04     | sludges from soil remediation other than those mentioned in 19 13 03   |
| <b>20</b>    | <b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b> |
| <b>20 02</b> | <b>garden and park wastes (including cemetery waste)</b>   |
| 20 02 02     | soil and stones  |

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- 4.1.7 Bryn Posteg Landfill and the associated activities on site are managed by the operator in accordance with a management system.
- 4.1.8 The operator will implement a number of site specific procedures and documents to control the operations at the site.
- 4.1.9 The operator has implemented an environmental management system across the company to control the operations at their sites.
- 4.1.10 Monitoring will continue as per the permit, no changes to the monitoring scheme are proposed as part of the variation.
- 4.1.11 There are no predicted point source emissions to air resulting from this application