

ENVIROARM LIMITED

CHADWICH LANE QUARRY LTD



**RESTORATION PLAN FOR CHADWICH LANE QUARRY
LANDFILL SITE**

REF: EL/CLQ/RP/1.00/2022

Carried out for: **Chadwich Lane Quarry Ltd**

Enviroarm Limited

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CHADWICH LANE QUARRY LANDFILL SITE

RESTORATION PLAN

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REFERENCES

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DRAWING

ESSD 5 Restoration Plan

DEFINITION OF TERMS

- Aftercare - The maintenance work needed to ensure that a restored landfill site does not produce environmental problems
- Afteruse - The use to which the landfill site is put following its restoration
- Restoration - Completion of the landfill site to allow planned afteruse
- Soil - The medium in which plants live and grow and from which through their roots they obtain water and nutrients
- Subsoil - The less well-structured and less biologically active layer below top soil which acts as a reserve of nutrients and water for plant growth
- Top-Soil -The biologically active surface layer of soil which provides a medium for cultivation of plants
- the Agency - the Environment Agency
- Works - the permanent works as shown on the contract drawings

PARTIES AND RESPONSIBILITIES

There parties involved in the development works outlined in this document, and these are:

The Employer (Chadwich Lane Quarry Ltd)

This is the person or company for whom the works are constructed. The Employer is the Permit Holder for the Site. The Employer will manage design of the works and to implement and administer the contractor its construction. He will be responsible for all contractual matters relating to the Works and may vary the design of the works during construction according to the conditions encountered

The Contractor (Chadwich Lane Quarry Ltd)

The Contractor is responsible for constructing the works in accordance with the specification.

The Designer (Enviroarm Limited)

This is the person or Company appointed by the Employer to undertake the design of the Works.

The Testing Laboratory

The laboratory appointed by the Employer to perform any on or off site testing required under the Specification and the CQA Plan are listed below and up to date UKAS Accreditation certificates will be presented as part of the Validation Report. The appointed laboratory will be UKAS approved for each individual test. The CQA Engineer/PM shall be responsible for liaison with the approved laboratory with regard to the timing of the testing.

Review Period and Additional Requirements

This Restoration Plan is subject to periodic review and will be revised subject to any legislation changes or changes in Technical Guidance.

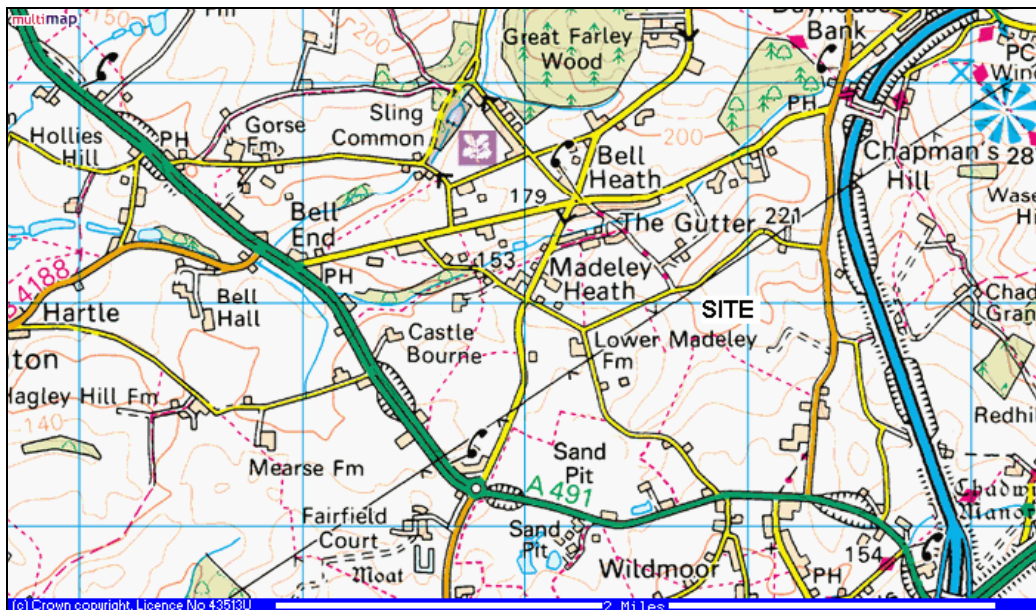
1.0 INTRODUCTION

1.1 Site Location and Works Description

Site Location

1.1.1 The site is in the south-western fringe of Birmingham at National Grid reference SO 395448 276819 is the centre of the site and the site entrance is SO 396373 276818, at Chadwich Lane, Madeley Heath, Bromsgrove, Worcestershire.

Figure 1: Location Plan



Works Description

1.1.2 This Restoration Plan has been prepared by Enviroarm Limited on behalf of Chadwich Lane Quarry Ltd. The plan addresses the requirements for the placement of the restoration soils, quantities, waste types and waste acceptance criteria for the Chadwich Lane Quarry landfill site under the Environmental Permit Application for the site.

1.2 Supervision

1.2.1 Waste acceptance will be dealt with by the Technically Competent Manager for the site who will ensure compliance with the conditions set out in the Restoration Plan, using the on-site stockpiled soils and soils remaining to be stripped that have been used on Phase 1 before.

1.2.2 The Contractor is required to have full-time supervision on site whilst any soiling activities are being undertaken above the engineered cap. Third party Construction Quality Assurance (CQA) personnel will also

be present on-site full time to verify the Works are constructed in accordance with the Restoration Plan.

1.2.3 The CQA Engineer or other delegated CQA supervisor will compile a daily log sheet of site activities. These log sheets will be kept on site during the Contract and will be incorporated into the CQA Validation Report upon completion of the Works.

1.3 Surveying

1.3.1 On-site station information will be provided to the Contractor prior to the commencement of work. The Contractor will be expected to liaise with the Employer's land surveyor in regard to all setting out and construction level control.

1.3.2 During the Works an independent surveyor will undertake several as-built detailed surveys, on a 10m x 10m grid, and an on-site survey of test location points will also be carried out by the appointed consultants as well as a check of the independent surveyors survey checking at least 10% of the points, and these results will be presented in an excel format to compare the eastings, northings and ordnance datum points. The as-built surveys to be undertaken are as follows:

- Pre and post placement of the soil restoration layers, including cross-sections;
- Post placement of the restoration soils, including cross sections.

1.3.3 The results of all surveys shall be forwarded to the CQA Consultant not later than five working days after the respective survey was completed. The results shall be in digital DXF format together with a hard copy.

1.3.4 The level drawings and the as-built drawing will be issued with a copy of the CQA Validation Report.

1.4 Validation Report

1.4.1 Upon completion of the works a CQA Restoration Validation Report will be prepared by the CQA Consultant and forwarded to the Agency. The report will form a permanent record on the actual construction of the Works in relation to the requirements of the Restoration Plan. The report will summarise the works undertaken, the materials and construction methods employed, the physical sampling and testing and any other observations the CQA Consultant regards as pertinent to demonstrate that the Works have been undertaken in accordance with this Restoration Plan.

2.0 SOIL IMPORTATION

2.1 General Description

2.1.1 Soil used for restoration above the waste will be soils kept from site as part of the planning.

2.1.2 The soils to be used for restoration will be fit for purpose, both chemically and physically. The minimum depth of the restoration soil will be 300mm of reworked sub soils or top-soils.

2.2 Inert Waste Importation and Volumes

2.2.1 Soil will not be import for the purpose of restoration. The site will use currently stockpiled soils and fields not currently stripped.

2.3 Waste Types

2.3.1 The approved wastes for restoration are summarized in Table 1 below. Typically landfill permits state :

Wastes shall only be accepted for restoration where:

(a) they are listed in Appendix A for the site in the waste types, and

(b) they are accepted in accordance with a restoration plan approved in writing by the Environment Agency.

Table 1: Permitted inert wastes for restoration

01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03
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 09	minerals (for example sand, stones)
20	MUNICIPAL WASTES, (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones

2.4 Waste Acceptance Criteria for Inert Soils for use in Restoration

The material to be used for restoration will be all soils kept as part of the site development works. The site restoration permitted wastes are defined as;

- a. Inert Wastes and;
- b. In accordance with the Landfill Directive and Environmental Permitting (England and Wales) Regulations 2016;
- c. Tax Qualifying Exempt Materials.

3.0 SOIL RESTORATION PROFILE

3.1 Soil Placement

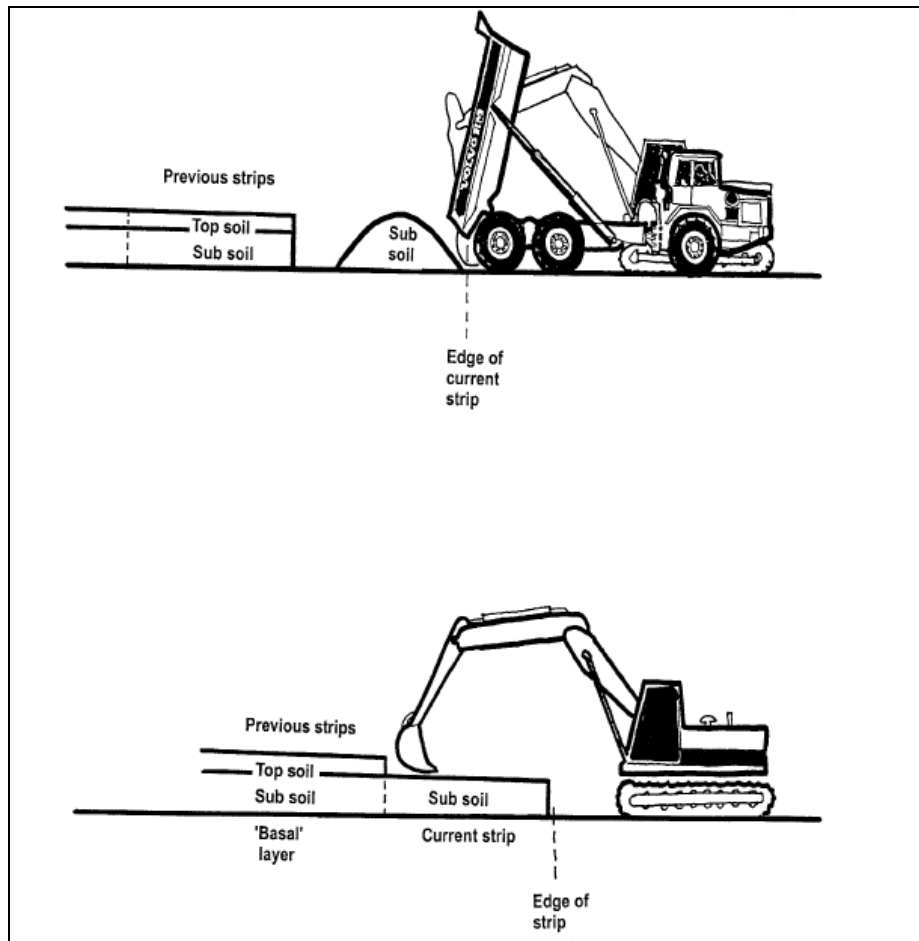
3.1.1 The soils are to be replaced in the correct sequence:-

- Sub-soil - 700mm thickness (upper section of landfill)
- Top soil - 300mm thickness (which will have an organic content greater than 3%)

3.1.2 The soils will be spread out using a hydraulic excavator with dump trucks delivering the soils and tipping them in front of the excavator therefore reducing compaction or delivered directly in HGV tippers and spread using a track type dozer.

3.1.3 Guidance on soil spreading using dump trucks, dozers and excavators is set out in Sheet 4, of the Good Practice Guide for Handling Soils prepared by MAFF. Any compaction caused will be alleviated by sub-soiling and guidance is to be found in Sheets 16 and 17, including removal of stones. The soils spreading will be carried out in accordance with the phasing of the site set out in the Environmental Setting and Installation design for the site. The soil spreading technique is presented at Figure 2 for reference.

Figure 2: Replacement of soils from soil storage mounds



- 3.1.4 Ripping will be undertaken at 45° to the contours to assist field drainage. Sub-soiling will be carried out when the soil is dry or moist to the full depth of working.
- 3.1.5 Any large stones (>100mm diameter in the top soil, or 200mm diameter in the sub-soil) brought up by the sub-soil ripping or present in the restored soil will be removed, as per Sheets 16 and 17.
- 3.1.6 Stones collected will be used for any field drains.
- 3.1.7 The soil will then be cultivated. Mole board ploughs are not to be used due to potential invert top soils. Discs may be used.
- 3.1.8 Feed bed preparation will be completed using chain harrows.
- 3.1.9 Soil testing (pH, N, P, K, conductivity) will be undertaken;
- Organic fertilizer - used to increase soil fertility;
- 3.1.10 The detailed application will be dependent upon soil analysis obtained from the approved soils testing laboratory.

3.2 Grass

3.2.1 The site restoration is based upon grass fields with specific tree plant areas with hedgerows breaking up the grassland open space. The summary aftercare provisions are:

- Grazing of the grass after year two, allowing the timothy, fescue and clover to develop;
- Damaged areas should be reseeded in late August/early September and grazing cattle removed for the winter period.

3.3 Hedgerows

3.3.1 The fences and hedges are to mark the field boundary. The hedgerows will be protected with post and wire fence.

3.3.2 The hedgerows are now fully self-sustaining and no further maintenance is to be carried out so as not to disturb any wildlife that currently exists in this habitat as previously identified in the ecological survey.

of recycled stone produced at the inert treatment facility on site.

4.0 AFTERCARE SCHEME

4.1 General

4.1.1 The outline strategy for Chadwich Lane quarry landfill site is set out below;

4.1.2 The proposed cropping pattern is to be grass for the five-year aftercare period. The grassland will merge with surrounding tree and hedgerow plant areas.

4.1.3. The intention is to sow a species rich wildflower grassland mix. Depending upon ground conditions, the land may be grazed with sheep after the grass has become well established, after year two.

4.1.4. The cultivations carried out for the initial grass establishment will be prepared in such a way so as not to cause over-cultivation.

4.1.5. Soil samples will be taken to ensure correct nutrient balance. Should any nutrient deficiency be recorded then an application of farmyard manure would be used.

4.2 Year One

4.2.1 Spring sow grass, apply organic manure as top dressing of nitrogen if required.

4.2.2 Clearance of volunteer weeds, using an approved herbicide. The specific herbicide will be dependent upon weed type and half-life degradation values.

4.3 Year Two

4.3.1 Clearance of volunteer weeds using herbicide with short half-life degradation values.

4.3.2 Grass mow and crop in August.

4.4 Year Three, Four and Five

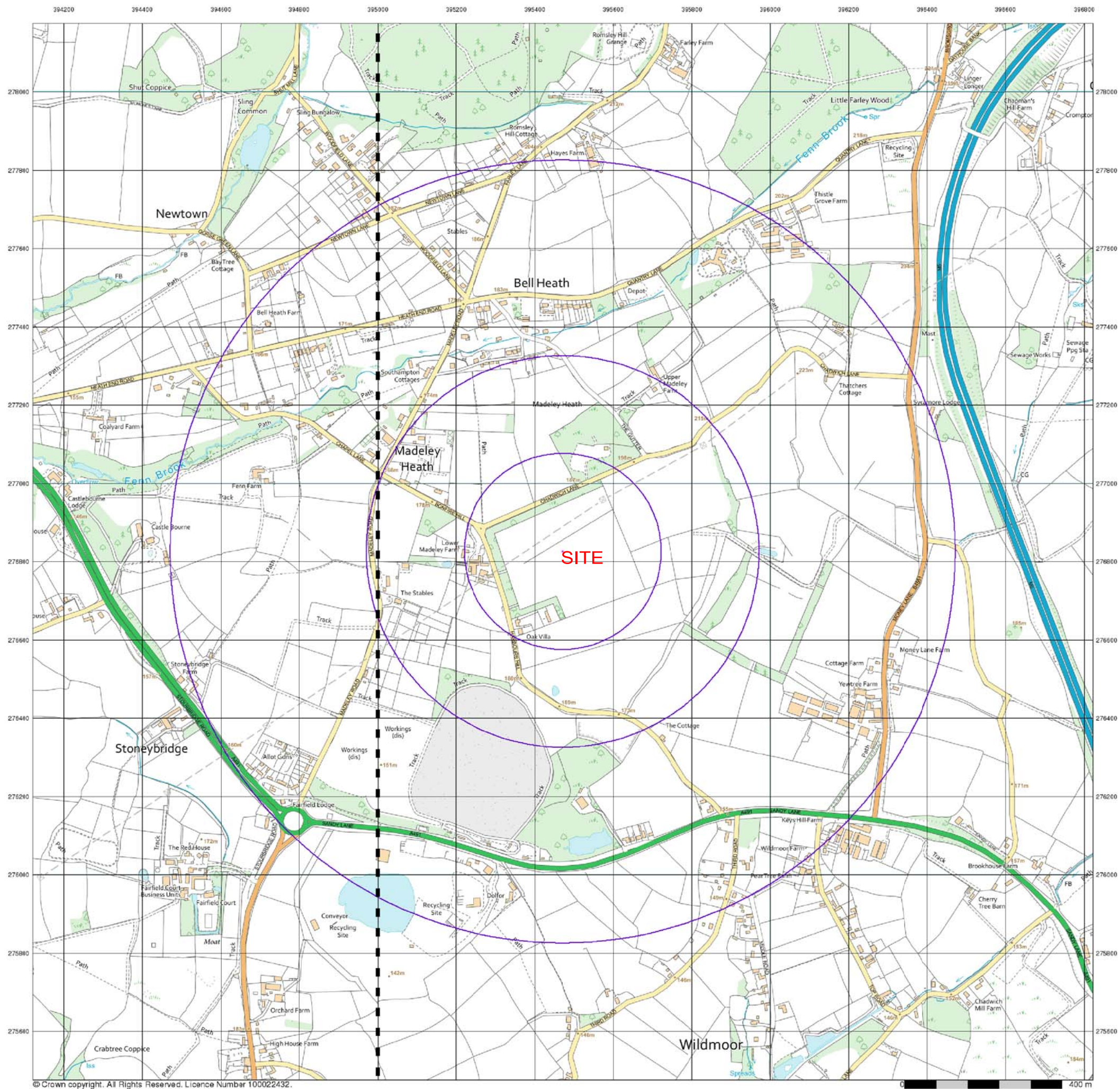
4.4.1 Continue with management of weeds as per 1 and 2 in Year Two.

4.4.2 Check for and repair any minor settlement.

References

1. Environment Agency Briefing Note The use of waste in restoration at landfills
2. Ministry of Fisheries and Food: Good Practice Guides for Soil.
3. Ministry of Fisheries and Food: The Soil Code Revised
4. Environment Agency How to comply with your Environmental Permit

DRAWINGS



- KEY (Where Applicable)
- AA Air Photo
 - BB Boundary
 - CC Canal
 - DD Drain
 - EE Earthwork
 - FF Ferry
 - GG Gravel Pit
 - HH Hayrack
 - II Industrial
 - JJ Junction
 - KK Kiosk
 - LL Linc. Post
 - MM Main Road
 - NN Minor Road
 - OO Old Road
 - PP Path
 - QQ Quarry
 - RR Railway
 - SS Stone Wall
 - TT Trench
 - UU Upland
 - VV Vehicle Access
 - WW Well
 - XX Wood
 - YY Yew Tree
 - ZZ Zebra Crossing
- FENCE & WALL TYPES
- AA Air Photo
 - BB Boundary
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 - DD Drain
 - EE Earthwork
 - FF Ferry
 - GG Gravel Pit
 - HH Hayrack
 - II Industrial
 - JJ Junction
 - KK Kiosk
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 - NN Minor Road
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 - WW Well
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 - YY Yew Tree
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- POINT SYMBOLS
- AA Air Photo
 - BB Boundary
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 - VV Vehicle Access
 - WW Well
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 - YY Yew Tree
 - ZZ Zebra Crossing
- APPLICATION BOUNDARY

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ENVIROARM LIMITED
CHADWICH LANE QUARRY
BROMSGROVE
LOCATION

Scale: 1:2000
Date: 08.11.2022
Sheet: AH
Drawing: ESD1



KEY (Where Applicable)

01	ASB TRUNK	08	LOTUSR. WIL.
02	ASB BRANCH	09	LOTUSR. WIL. (L)
03	BRISTON TELLOW TRUNK	10	LOTUSR. WIL. (R)
04	BRISTON TELLOW BRANCH	11	LOTUSR. WIL. (L)
05	BRISTON TELLOW BRANCH (L)	12	LOTUSR. WIL. (R)
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FENCE & WALL TYPES

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LINE TYPES

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18	BOUNDARY LINE	18	BOUNDARY LINE
19	BOUNDARY LINE	19	BOUNDARY LINE
20	BOUNDARY LINE	20	BOUNDARY LINE
21	BOUNDARY LINE	21	BOUNDARY LINE
22	BOUNDARY LINE	22	BOUNDARY LINE
23	BOUNDARY LINE	23	BOUNDARY LINE
24	BOUNDARY LINE	24	BOUNDARY LINE
25	BOUNDARY LINE	25	BOUNDARY LINE
26	BOUNDARY LINE	26	BOUNDARY LINE
27	BOUNDARY LINE	27	BOUNDARY LINE
28	BOUNDARY LINE	28	BOUNDARY LINE
29	BOUNDARY LINE	29	BOUNDARY LINE
30	BOUNDARY LINE	30	BOUNDARY LINE

POINT SYMBOLS

01	BOUNDARY POINT	01	BOUNDARY POINT
02	BOUNDARY POINT	02	BOUNDARY POINT
03	BOUNDARY POINT	03	BOUNDARY POINT
04	BOUNDARY POINT	04	BOUNDARY POINT
05	BOUNDARY POINT	05	BOUNDARY POINT
06	BOUNDARY POINT	06	BOUNDARY POINT
07	BOUNDARY POINT	07	BOUNDARY POINT
08	BOUNDARY POINT	08	BOUNDARY POINT
09	BOUNDARY POINT	09	BOUNDARY POINT
10	BOUNDARY POINT	10	BOUNDARY POINT
11	BOUNDARY POINT	11	BOUNDARY POINT
12	BOUNDARY POINT	12	BOUNDARY POINT
13	BOUNDARY POINT	13	BOUNDARY POINT
14	BOUNDARY POINT	14	BOUNDARY POINT
15	BOUNDARY POINT	15	BOUNDARY POINT
16	BOUNDARY POINT	16	BOUNDARY POINT
17	BOUNDARY POINT	17	BOUNDARY POINT
18	BOUNDARY POINT	18	BOUNDARY POINT
19	BOUNDARY POINT	19	BOUNDARY POINT
20	BOUNDARY POINT	20	BOUNDARY POINT
21	BOUNDARY POINT	21	BOUNDARY POINT
22	BOUNDARY POINT	22	BOUNDARY POINT
23	BOUNDARY POINT	23	BOUNDARY POINT
24	BOUNDARY POINT	24	BOUNDARY POINT
25	BOUNDARY POINT	25	BOUNDARY POINT
26	BOUNDARY POINT	26	BOUNDARY POINT
27	BOUNDARY POINT	27	BOUNDARY POINT
28	BOUNDARY POINT	28	BOUNDARY POINT
29	BOUNDARY POINT	29	BOUNDARY POINT
30	BOUNDARY POINT	30	BOUNDARY POINT

APPLICATION BOUNDARY

NOTES

1. CLASSIFICATION OF THE DETAIL SHOWN SHOULD BE THE RESPONSIBILITY OF THE APPLICANT AND NOT THE DESIGNER.

2. SURFACE LEVELS SHOWN ARE BASED ON THE DESIGNER'S SURVEY AND SHOULD BE CHECKED BY THE APPLICANT.

3. THE APPLICANT SHOULD BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSENTS AND PERMISSIONS FROM THE LOCAL AUTHORITY AND OTHER RELEVANT AGENCIES.

4. THE APPLICANT SHOULD BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSENTS AND PERMISSIONS FROM THE LOCAL AUTHORITY AND OTHER RELEVANT AGENCIES.

5. THE APPLICANT SHOULD BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSENTS AND PERMISSIONS FROM THE LOCAL AUTHORITY AND OTHER RELEVANT AGENCIES.

REVISIONS

NO.	DESCRIPTION	BY	DATE	CHKD.

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ENVIROARM LIMITED

CHADWICH LANE QUARRY
BROMSGROVE
LANDSCAPE PLANTING PROPOSAL

SCALE: 1:2000 SHEET SIZE: A3

DATE: 08.11.2022

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