

COAL MINING RISK ASSESSMENT FOR FERN HILL FARM, FERN HILL LANE, ROCHDALE, OL12 6BW

26-08-02 Revision 0

REPORT STATUS: Final

August 2026



Prepared for

Mr & Mrs Green

Fern Hill Farm

Fern Hill Lane

Rochdale

OL12 6BW

This report has been prepared under the framework of ISO 9001:2015

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EXECUTIVE SUMMARY

A Coal Mining Risk Assessment was required by Rochdale Borough Council under Clause 11 of the National Policy Planning Framework. This report is required to support the planning application of the site.

In order to support a planning application for the subject site, **Mr & Mrs Green** commissioned **Demeter Environmental Ltd** to undertake a Coal Mining Risk Assessment at Fern Hill Farm, Fern Hill Lane, Rochdale, OL12 6BW to support the planning application for the extension and conversion of a stone stable building to a dwelling.

The project has been carried out in accordance with the guidance provided by the Department of Energy and Climate Change, the Coal Authority's guidance document "Risk Based Approach to Development Management – Resources for Developers Version 4" (2017) and CIRIA "SP32 Construction over Abandoned Mine Workings" (2002).

The project has been carried out within the existing legislative framework, which is outlined in Appendix B.

It should be noted that the table below only offers a brief summary of the information presented in this report and is for briefing purposes only. Reference should be made to the main report for detailed analysis undertaken.

Table 1: Executive Summary

	SUBJECT	DATA
SITE INFORMATION AND SETTING	Client	Mr & Mrs Green
	Site	Fern Hill Farm
	Site location	Fern Hill Farm, Fern Hill Lane, Rochdale, OL12 6BW
	Grid Reference	387151E 415315N
	Proposed development	The extension and conversion of a stone stable building to a dwelling.
	Geology	The drift geology of given as Devensian Till.
	Coal	The solid geology is given as the Pennine Lower Coal Measures Formation. An inferred coal seam (Lower Foot Coal) outcrops on the site, the dip is likely to the south.
Proposed Further Works		it is proposed that a series of trial trenches are to be excavated outside the footprint of the proposed development in order to determine the depth of drift soils and if there is evidence of bell pits. A trial trench will be excavated between the development and the mine shaft to determine the depth of drift soils and if the shaft is present on the site.
This sheet is intended as a summary of the report; it does not provide a definitive analysis.		



1 INTRODUCTION

1.1 Coal Mining Risk Assessment Terms of Reference

- 1.1.1 This report presents the results of a Coal Mining Risk Assessment (CMRA) carried out within the grounds of Fern Hill Farm, Fern Hill Lane, Rochdale, OL12 6BW , performed for **Mr & Mrs Green**. This report was written in August 2026 and should be read in the light of any subsequent changes in legislation, statutory requirements or industry practices.
- 1.1.2 The works were carried out in accordance with the standard terms of contract of **Demeter Environmental Ltd.**
- 1.1.3 This report has been prepared in accordance to the Demeter Environmental Limited Quality Management System.

1.2 Aims and Objectives of Coal Mining Risk Assessment

- 1.2.1 The primary objective of the CMRA was to assess whether the site has the potential to be affected by underground mining.
- 1.2.2 This study includes a review of the available geological information in order to establish the likely ground conditions at the site. The review is based on the following information:
- Review of the Coal Authority Mining Report for the site;
 - Review of data available from the BGS;
 - Review of data from previous site investigation reports;
 - Identification of likely ground conditions at the site based on the data obtained;
- 1.2.3 The findings and opinions provided in this document are made in good faith and are based on data provided by third parties (Groundsure, Environment Agency, The Coal Authority, and Regulatory Bodies) and the report should be read in conjunction with the limitations on the document control form.

1.3 Scope of Coal Mining Risk Assessment

- 1.3.1 The objectives of the coal mining risk assessment is to:
1. Present a desk based review of all available information within this report on the coal mining issues which are relevant to the site;
 2. Use the information obtained to identify and assess the risks to the proposed development from coal mining legacy, including cumulative impact issues;



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3. Set out appropriate mitigation measures to address the coal mining legacy issues affecting the site, including any necessary remedial works and/or demonstrate how coal mining issues have influenced the proposed development;
4. Demonstrate to the Local Planning Authority that the application is, or can be made safe and stable to meet the requirements of the National Planning Policy Framework and the requirements of the Coal Authority in respect of their determination of planning application consultations;
5. Minimise the risks and effects of land instability on properties, infra structure and the public;
6. Help to ensure that various types of development should not be placed in unstable locations without appropriate precautions;
7. Bring unstable land, wherever possible back into productive use; and
8. Assist in safeguarding public and private investment by a proper appreciation of site conditions and necessary precautionary measures.

1.3.2 The scheme has been designed taking into account the findings in the Coal Authority Report and this risk assessment as well as the requirements of the Coal Authority and the current National Planning Policy Guidance.

1.3.3 This report has been prepared in general accordance with the Coal Mining Risk Assessment Model Report Template and intends to demonstrate to the Local Planning Authority and the Coal Authority that the site is, or can be, made safe and stable, and to meet the requirements of the National Policy Planning Framework (NPPF).

1.4 Limitations of Data

1.4.1 It should be noted that it did not become a legal requirement to deposit coal mining abandonment plans until the 1870's and that this requirement was not rigorously enforced for some time after. Many shallow coal seams were worked prior to the introduction of first edition Ordnance Survey Maps and information on these workings is often not available. Therefore if coal seams were accessible then invariably they could have been worked by formal or informal means.

1.4.2 It is also possible that if unrecorded workings are present then unrecorded mine entries may be present.



1.5 Principal Sources of Information

1.5.1 Documents that were available or have been obtained for reference or obtaining data are given in Appendix A. Further information on data used in this report and dates the data was obtained/accessed is given below:

Table 2: Summary of Information Obtained

Source	Data Provided	Date Obtained / Accessed
British Geological Survey	1:50,000 Geological Maps 1:10,000 Geological maps\ Borehole Section sheets	5 th August 2026
Mining Remediation Authority	Interactive Map Viewer Consultants Coal Mining Report	5 th August 2026
Google Earth®	Aerial plates	5 th August 2026

2 SITE CONTEXT

2.1 Site Location

2.1.1 The site is located off Fern Hill Lane, the approximate grid reference is 387151E 415315N, as shown on the CJ Partnership Drawings in Appendix B.

2.1.2 The property/site is located within the administrative jurisdiction of Rochdale Borough Council .

2.2 Proposed Development

2.2.1 It is proposed that the stone stable building be extended and converted to a dwelling.

2.2.2 The proposed site development plan is shown on the Drawings in Appendix B.

3 ENVIRONMENTAL SETTING

3.1 Published Geology – 1:50,000 Geological Maps

3.1.1 The documented geology has been ascertained by the examination of British Geological Survey 1:50,000 Sheet 76 (Rochdale) and the appropriate geological memoir is summarised hereunder.

3.1.2 The drift geology of given as Devensian Till.

3.1.3 The solid geology is given as the Pennine Lower Coal Measures Formation.

3.1.4 An inferred coal seam (Lower Foot Coal) outcrops on the site, the dip is likely to the south.

3.2 Borehole Records

3.2.1 The BGS Borehole map indicates that there are no borehole records available in close proximity to the site.



4 COAL MINING RISK ASSESSMENT (CMRA)

4.1 Coal Mining Referral Area Plans

4.1.1 Information obtained from the Coal Authority is given below.

Table 3: Summary of Information From The Coal Authority

Question	Discussion	Yes / No
Is the site within a Coal Mining Reporting (Standing Advice) Area?	The Coal Mining Reporting Area, also known as CON29M Coal and Brine Consultation Areas, is the known extent of coal mining activity and is used to determine whether a coal mining report is required for property transactions and the conveyance process. This area does not represent the full extent of geological coal reserves and resources.	Yes
Is the site within a 'Development High Risk' (Referral) Area?	The Development High Risk Area is the part of the coal mining reporting area, which contains one or more recorded coal mining related features which have the potential for instability or a degree of risk to the surface from the legacy of coal mining operations. The combination of features includes mine entries; shallow coal workings (recorded and probable); recorded coal mining related hazards; recorded mine gas sites; fissures and breaklines and previous surface mining sites. New development in this defined area needs to demonstrate that the development will be safe and stable taking full account of former coal mining activities. This area was formally known as the Development Referral Area.	Yes
Is the subject site within the zone of influence of any mine entries?	Mine entries indicate the entrance into a mine working, for which there are two types: shafts and adits. Mine shafts are vertical or near vertical entrances to a mine whereas adits are a walkable entrance to a mine as shown on plans held by the Coal Authority. Mine entry positions are taken from a variety of plan sources, which vary in age, scale, accuracy and condition. These factors determine the accuracy of the mine entry position derived. A Mine Entry with Potential Zone of Influence is the area of the ground that might be affected if subsidence of the mine entry occurs.	Possibly
Are there any fissures or breaklines within close proximity to the subject site?	Fissures and breaklines are types of geological disturbances which are lines of weaknesses at the surface which may have been affected by coal mining	No
If the subject site in an area where there are coal outcrops?	Coal Outcrops illustrate a location where a workable coal seam is present at or close to the surface.	Yes
Are there any past shallow coal mine working in close proximity to the subject site?	Past shallow coal mine workings are derived from the Coal Authority's records of underground coal mine workings. This dataset has been created by extracting all those underground workings, or parts thereof, whose depth is 30 metres or less from the surface. Shallow workings do not have sufficient overlying strata therefore any movement has the potential to reach the surface and cause damage; approximately 50% of the accepted surface hazards are related to shallow workings, both recorded and unrecorded.	No
Is the subject site in an area/in close proximity to an area where there are probable shallow coal mine workings	Probable shallow coal mine workings contain locations and estimated extents of probable shallow underground workings for which no recorded plan exists, but where it is likely that workable coal at shallow depths has been mined before records were kept. The data has been estimated from available mining records by qualified mining surveyors.	No
Are there any past or current surface mining in close proximity to the subject site?	Surface Mining Areas denote an area of coal extracted by surface excavations in the past or are being excavated currently, these sites do not necessarily reflect the extent of the excavation. Coal resources may still be available within these areas due to the inefficiencies of some historic mining techniques. These areas are often referred to as "opencast mining".	No



4.2 Summary of Consultants Coal Mining Report

4.2.1 Data provided by the Cal Authority in the Consultants Coal Mining Report is summarised below:

Table 4: Summary of Coal Authority Consultants Coal Mining Report

Section	Summary	Definition
Past Underground Mining	None	Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.
Probable unrecorded shallow workings	None	Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).
Spine roadways at shallow depth	None	Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.
Mine entries	2	Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.
Abandoned mine plan catalogue numbers	5454, PQ0, 16820, NW129	Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.
Outcrops	Lower Floor – 26.4m N Lower Mountain – 8.0m N	Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.
Geological faults, fissures and breaklines	None	Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.
Opencast mines	None	Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.
Coal Authority managed tips	None	Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.
Site investigations	None	Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.
Remediated sites	None	Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures
Coal mining subsidence	None	Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given. Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice. Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.
Mine gas	None	Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

**Table 5 (Continued): Summary of Coal Authority Consultants Coal Mining Report**

Section	Summary	Definition
Mine water treatment schemes	None	Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body. These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident. Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.
Future underground mining	None	Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.
Coal mining licensing	None	Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.
Court orders	None	Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.
Section 46 notices	None	Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.
Withdrawal of support notices	None	Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.
Payments to owners of former copyhold land	None	Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.



5 SUMMARY OF HAZARDS AND RISKS ASSOCIATED WITH FORMER MINING ACTIVITIES

5.1.1 The hazards associated with former mining activities, and associated hazards are summarised hereunder:

Table 6: Coal Mining Risk Assessment

Risk	Hazard	Consequence	Has Risk Been Identified?
Surface coal workings	Collapse of workings beneath buildings causing sudden loss of bearing to the structure (Consequence of 'Mild').	Mild/Minor – affect on building fabric	Yes
Shallow coal mine workings	Collapse of the workings surrounding the buildings causing disruption to the infrastructure (Consequence of 'Minor').	Severe – acute risk to human health	No
Mine entries (shafts and adits)	Failure of unrecorded mine entries, areas of previously collapsed ground that have migrated to the surface beneath the building causing loss of bearing. Similar conditions may exist where coal may have been worked by primitive surface extraction (bell pits etc.) extraction at the crop of the seam (Consequence of 'Mild').	Mild/Minor – affect on building fabric	Yes
	Failure of unrecorded mine entries, areas of previously collapsed ground or backfilled surface workings adjacent to the buildings causing disruption to the infrastructure, and depending on the location, a loss of bearing to the structure (Consequence of 'Minor').	Severe – acute risk to human health	
Mine entries (shafts and adits)	Entry	Severe – acute risk to human health	Yes
Gas emissions from coal mines including methane and carbon dioxide	Explosion / Asphyxiation	Mild – affect on building fabric	No
		Severe – acute risk to human health	
Spontaneous combustion or ignition of coal which may lead to the production of carbon monoxide	Migration of mine gases from old mine workings and shafts to the surface results in explosion or the build-up of asphyxiating gases in confined areas. The effects can potentially cause serious structural damage to a building and loss of life. (Consequence of 'Mild' for buildings and 'Severe' for end users).	Mild – affect on building fabric	No
Transmission of gases into adjacent properties from underground sources through ground fractures		Severe – acute risk to human health	
		Mild – affect on building fabric	No
		Severe – acute risk to human health	
Coal mining subsidence	Consolidation of the workings and the overlying ground either as a result of self weight consolidation or foundation loading beneath the build area resulting in settlement damage to the structure (Consequence of 'Mild').	Minor - affect on building fabric	No
	Consolidation of the workings and the overlying ground as a result of self weight consolidation adjacent to the buildings causing disruption to the infrastructure (Consequence of 'Minor').		



6 COAL MINING RISK ASSESSMENT

6.1.1 Based on the information above, the risks associated with coal mining has been undertaken, which is presented hereunder:

Table 7: Coal Mining Risk Assessment

Risk	Is Risk Present?	Proposed Works
Surface coal mine workings	Yes	<u>Discussion:</u> As coal is at or close to the surface on the site it is possible that there are bell pits within the site boundaries. Given that Bell pits were excavated from the surface, if present, can be identified by the presence of made ground / disturbed material on the site in the vicinity of the entrance to the bell pit. Bell pits, originally employed for the exploitation of clay-ironstone horizons, date from about the 13th century, and they were continued until the 17th century. These pits are generally found in areas thinly covered by superficial deposits and where the dip of the seam is low. In forming a bell pit, an unsupported shaft of about 1m diameter was sunk to the seam. The depth depended on the extent of overburden and the thickness and quality of the seam, but it rarely exceeded 12m. Mining proceeded radially from the base of this shaft until the area became too large to be naturally or artificially supported, when ventilation became restricted, or when the inflow of groundwater exceeded the rate of baling. The pit was then abandoned and a new one sunk nearby. In areas of intensive mining, shafts have been found as close together as 8 to 10 m. Bell pits were shallow pits seldom deeper than 10m and generally worked by two or three men for a short time only. Typically, they were narrow shafts, a metre or so wide which on reaching the seam would spread up to 7-8m in diameter. <u>Proposals for Further Works:</u> In order to demonstrate the presence/absence of bell pits it is proposed that a series of trial trenches are to be excavated outside the footprint of the proposed development in order to determine the depth of drift soils and if there is evidence of bell pits. We do not consider the permission of The Coal Authority will be required for any ground investigation to be undertaken.
Mine entries (shafts and adits)	Yes	As the mine shaft is off site the location cannot be determined however it is possible to determine if the shaft is on the site and the depth of the drift soils. A trial trench will be excavated between the development and the mine shaft to determine the depth of drift soils and if the shaft is present on the site.



7 WATCHING BRIEF

- 7.1.1 Should any anomalous features be identified during development works, then a mining/structural engineer should be contacted for advice, and the features should be investigated further so that appropriate mitigation measures can be taken as necessary.

8 THE COAL AUTHORITY PERMISSIONS

- 8.1.1 Prior written permission from The Coal Authority is required for intrusive activities that will disturb or enter any coal seams, coal mine workings or coal mine entries (shafts and adits). Further information on The Coal Authority's permissions process can be found at: <http://www.coal.gov.uk/services/permissions/index.cfm>. Permissions have not yet been sought, but will need to be prior to any intrusive investigation



APPENDIX A: REFERENCES

The following documents were available or have been obtained for reference or obtaining data:

Groundsure Report			
BGS Borehole Record Viewer			
Land contamination risk management (LCRM)	Environment Agency	LCRM	2020
The Environmental Protection Act	1990		
The Contaminated Land (Wales) Regulations	2006		
The Contaminated Land (Scotland) Regulations	2000		
The Environment Act	1995		
The Radioactive Contaminated Land (Modifications of Enactments) (England) Regulations	2006		
The Radioactive Contaminated Land (Modifications of Enactments) (Wales) Regulations	2006		
The Radioactive Contaminated Land (Scotland) Regulations	2007		
The Water Resources Act	1991		
The Water Act	2003		
The Water Environment and Water Services (Scotland) Act	2003		
The Water (Northern Ireland) Order	1999		
The Wildlife and Country Act	1981		
The Conservation (Natural Habitats, etc.) Regulations	1994		
The Town and Country Planning Act	1990		
The Town and Country Planning (Scotland) Act	1997		
The Building Control Act	1990		
The Construction Design and Maintenance (CDM) Regulations	2007		
The Control of Substances Hazardous to Health (COSHH) Regulations	2002		
The Factories Act	1961		
The Offices, Shops and Railway Premises Act	1963		
The Health and Safety at Work, etc. Act	1974		
The Pollution Prevention and Control Act	1999		
The Control of Pollution Act 1994 as amended	1994		
The Environmental Damage (Prevention and Remediation) Regulations	2009		
The Environmental Damage (Prevention and Remediation) (Wales) Regulations	2009		
The Environmental Liability (Scotland)	2009		
The Environmental Protection (Duty of Care) Regulations	1991		
The Environmental Permitting (England and Wales) Regulations	2007		
The Pollution Prevention and Control (Scotland) regulations	2000		
Guidance on investigations for ground gas. Permanent gases and Volatile Organic Compounds (VOCs)	2013	BS 8576:2013	2013
Good practice on the testing and verification of protection systems for buildings against hazardous ground gases	CIRIA	C735	August 2014
Investigation of Potentially Contaminated Sites	BSI	BS10175:2011+A2:2017	2017
Environmental Protection Act 1990: Part 2A - Contaminated Land Statutory Guidance	DEFRA	-	April 2012
Environmental Protection Act 1990: Part 2A - Contaminated Land	DEFRA	Circular 1/2006	September 2006 (withdrawn April 2012)
National Planning Policy Framework	Communities and Local Government	-	19 th February 2019
Guiding Principles for Land Contamination Planning and Pollution Control	Environment Agency ODPM	GPLC1 / GPLC2 / GPLC3 PPS23	March 2010 November 2004 (withdrawn March 2012)
Circular 22/87: Development of Contaminated Land	Welsh Government	22/87	August 1987
Planning Advice Note PAN 33	Scottish Government	PAN 33	October 2000
Contaminated Land Statutory Guidance for Wales	Welsh Government	WG15450	2012
Explanatory Memorandum to the Contaminated Land	Welsh Government	-	February

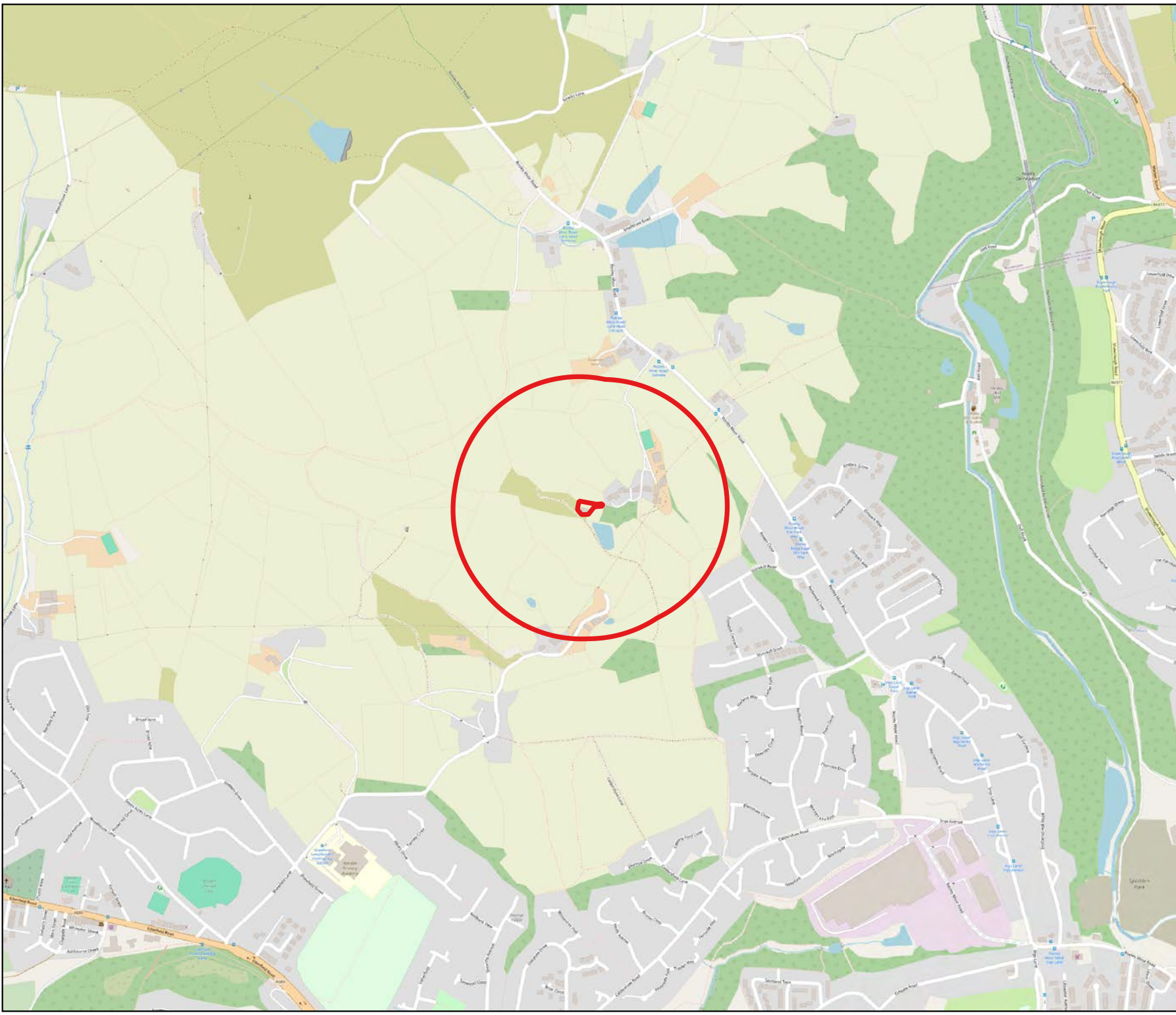
(Wales) (Amendment) Regulations 2012 and the draft Contaminated Land Statutory Guidance 2012			2012
NHBC Standards	NHBC	-	2014
Code of Practice for Ground Investigations	BSI	BS5930:2015+A1:2020	June 2020
Technical aspects of site investigations in relation to land contamination	Environment Agency	EA P5-065/TR:2000	2000
Contaminated Land Risk Assessment: A Guide to Good Practice	CIRIA	C552	2001
Secondary model for the development of appropriate soil sampling strategies for contaminated land	Environment Agency	EA P5-066/TR:2000	2000
Remedial Targets Methodology - Hydrogeological Risk assessment for Land Contamination	Environment Agency		2006
The physical properties of the minor aquifers in England and Wales	BGS		2000
A framework for assessing the impact of contaminated land on groundwater and surface water	Department of the Environment	DOE CLR 1	1994
Environment Agency technical advice to third parties on Pollution of Controlled Waters for Part IIA of the Environmental Protection Act 1990.	Environment Agency		May 2002
Guidance on Preliminary site inspection of contaminated land	Department of the Environment	DOE CLR 2	1994
Documentary search on industrial sites	Department of the Environment	DOE CLR 3	1994
Sampling strategies for contaminated land	Department of the Environment	DOE CLR 4	1994
Information systems for land contamination	Department of the Environment	DOE CLR 5	1994
Prioritisation + categorisation procedure for sites which may be contaminated	Department of the Environment	DOE CLR 6	1995
Model Procedures for the Management of Land Contamination	Environment Agency	CLEA CLR 11	September 2004 (withdrawn)
A quality approach for contaminated land consultancy	Department of the Environment	DOE CLR 12	1997
Human health toxicological assessment of contaminants in soil	Environment Agency	Science Report SC050021/SR2	January 2009
Updated technical background to the CLEA model	Environment Agency	Science Report SC050021/SR3	January 2009
A review of body weight and height data used within the Contaminated Land Exposure Assessment model (CLEA)	Environment Agency	SC050021/ Technical Review 1	2009
Compilation of Data for Priority Organic Pollutants for Derivation of Soil Guideline Values	Environment Agency	Science Report SC050021/SR7	2008
The UK Approach for Evaluating Human Health Risks from Petroleum Hydrocarbons in Soil	Environment Agency	Report P5-080/TR3	2005
Review of the Fate and Transport of Selected Contaminants in the Soil Environment	Environment Agency	Draft Technical Report P5-079/TR1	2003
Guidance on Comparing Soil Contamination Data with a Critical Concentration	CL:AIRE/ CIEH		May 2008
Industry Profiles	DEFRA		Various dates
Radon: guidance on protective measures for new developments	BRE	BRE 211	November 2007
<u>Contaminated Land management manual</u>	<u>LQM</u>	<u>LQM2000</u>	<u>2000</u>
Assessing risks posed by hazardous ground gases to buildings (revised)	CIRIA	CIRIA C665	December 2007
<u>Code of practice for the design of protective measures for methane and carbon dioxide ground gas for new buildings</u>	<u>BSI</u>	<u>BS 8485:2015</u>	<u>2015</u>
Using Soil Guideline Values		Science Report SC050021/SGV Introduction	March 2009
Soil guideline values for inorganic arsenic	Environment Agency	SC050021/ arsenic SGV	May 2009
Soil guideline values for mercury	Environment Agency	SC050021/ mercury SGV	April 2009
Soil guideline values for selenium	Environment Agency	SC050021/ selenium SGV	April 2009
Soil guideline values for benzene	Environment Agency	SC050021/ benzene SGV	April 2009
Soil guideline values for toluene	Environment Agency	SC050021/ toluene SGV	April 2009
Soil guideline values for ethylbenzene	Environment Agency	SC050021/	April 2009

		ethylbenzene SGV	
Soil guideline values for xylenes	Environment Agency	SC050021	April 2009
Supplementary information for the derivation of for inorganic arsenic	Environment Agency	SC050021	May 2009
Supplementary information for the derivation of for mercury	Environment Agency	SC050021	April 2009
Supplementary information for the derivation of for selenium	Environment Agency	SC050021	April 2009
Supplementary information for the derivation of for benzene	Environment Agency	SC050021	April 2009
Supplementary information for the derivation of for toluene	Environment Agency	SC050021	April 2009
Supplementary information for the derivation of for ethylbenzene	Environment Agency	SC050021	April 2009
Supplementary information for the derivation of for xylenes	Environment Agency	SC050021	April 2009
Contaminants in soil: updated collation of toxicological data and intake values for humans : Inorganic Arsenic	Environment Agency	SC050021/Tox 1	May 2009
Contaminants in soil: updated collation of toxicological data and intake values for humans : Mercury	Environment Agency	SC050021	April 2009
Contaminants in soil: updated collation of toxicological data and intake values for humans : Selenium	Environment Agency	SC050021	April 2009
Contaminants in soil: updated collation of toxicological data and intake values for humans : Benzene	Environment Agency	SC050021	April 2009
Contaminants in soil: updated collation of toxicological data and intake values for humans : Toluene	Environment Agency	SC050021	April 2009
Contaminants in soil: updated collation of toxicological data and intake values for humans : Ethylbenzene	Environment Agency	SC050021	April 2009
Contaminants in soil: updated collation of toxicological data and intake values for humans : Xylenes	Environment Agency	SC050021	April 2009
Reclamation of Contaminated Land	Wiley		2004
Policy and Practice For The Protection of Groundwater	Environment Agency		1999
<u>CIRIA Special Publication 102 - Remedial Treatment for Contaminated Land - Volume II: Decommissioning, Decontamination and Demolition</u>	CIRIA	SP102	January 1995
<u>Guidance on the Safe Development of Housing on Land affected by Contamination</u>	Environment Agency	R&D Publication 66	2008
ProUCL User Guide and Technical Guide	USEPA	-	
Guidance on the assessment of and monitoring of natural attenuation of contaminants in groundwater	Environment Agency	R&D Publication 95	2000
The standard penetration test in insensitive clays and soft rocks	Proceedings of the European Symposium on Penetration Testing in the UK	-	1988
Trenching practice. 2nd edition	CIRIA	R97	2001
Desiccation in clay soils	BRE	412	February 1996
Methods of test for soils for civil engineering purposes	BSI	BS1377 (Parts 1 to 9)	1990
Eurocode 7: Geotechnical Design – Part 1: General Rules British	BSI	BS EN 1997-1	2004
Eurocode 7: Geotechnical Design – Part 2: Ground Investigation and Testing	BSI	BS EN 1997-2	2007
Geotechnical investigation and testing. Field testing. Electrical cone and piezocone penetration test	BSI	BS EN ISO 22476-1	2012
Geotechnical Investigation and Testing – Field Testing Part 2: Dynamic Probing	BSI	BS EN ISO 22476-2+A1	2011
Geotechnical Investigation and Testing – Field Testing Part 3: Standard Penetration Test	BSI	BS EN ISO 22476-3+A1	2011
Geotechnical investigation and testing. Field testing- Ménard pressuremeter test	BSI	BS EN ISO 22476-4	2012
Geotechnical investigation and testing. Field testing - Flexible dilatometer test	BSI	BS EN ISO 22476-5	2012
Geotechnical investigation and testing. Field testing - Borehole jack test	BSI	BS EN ISO 22476-7	2012
Geotechnical investigation and testing. Field testing – Flat dilatometer test	BSI	BS EN ISO 22476-11	2006
Geotechnical investigation and testing. Field testing - Mechanical cone penetration test (CPTM)	BSI	BS EN ISO 22476-12	2009

The standard penetration test (SPT): methods and use	CIRIA	R143	1995
Low-rise Buildings on Shrinkable Clay	BRE	BRE Digest 240 and 241	1993
Settlement of structures on clay soils	CIRIA	SP27	1983
Piled foundations in weak rock	CIRIA	R181	1999
Theoretical soil mechanics	Terzaghi	-	1943
Soils for civil engineering purposes	BSI	BS 1337	1990
Groundwater Control – Design and Practice	CIRIA	C515	2000
Trees in relation to design, demolition and construction. Recommendations	BSI	BS 5837	2012
Workmanship on Building Sites	BSI	BS 8000	Various
ICRCL 61/84 Notes on the fire hazards of contaminated land	ICRCL	61/84	1986
Soakaway Design	BRE	Digest 365	1991
Design guidance for road pavement foundations (draft HD 25) (Revision 1)	Highways Agency	Draft HD25	2006
Building Regulations Approved Documents	HM Government	Various	2013



APPENDIX B: DRAWINGS



Demeter Environmental Ltd
Liverpool Office:
54 St James Street
Liverpool
L1 0AB

Tel: 0151 521 2539
Fax: 0151 909 3661

Brighton Office:
Gemini House
136-140 Old Shoreham Road
Brighton, East Sussex
BN3 7BD
Tel: 01273 741 727

Email: enquiries@demeter-environmental.co.uk

Drawing 1

Site Name: Fern Hill Farm

Site Location

Scale: 1:10,000 at A4



Demeter Environmental Ltd
Liverpool Office:
54 St James Street
Liverpool
L1 0AB

Tel: 0151 521 2539
Fax: 0151 909 3661

Brighton Office:
The Offices
57 Newtown Road
Brighton, East Sussex
BN3 7BA
Tel: 01273 741 727

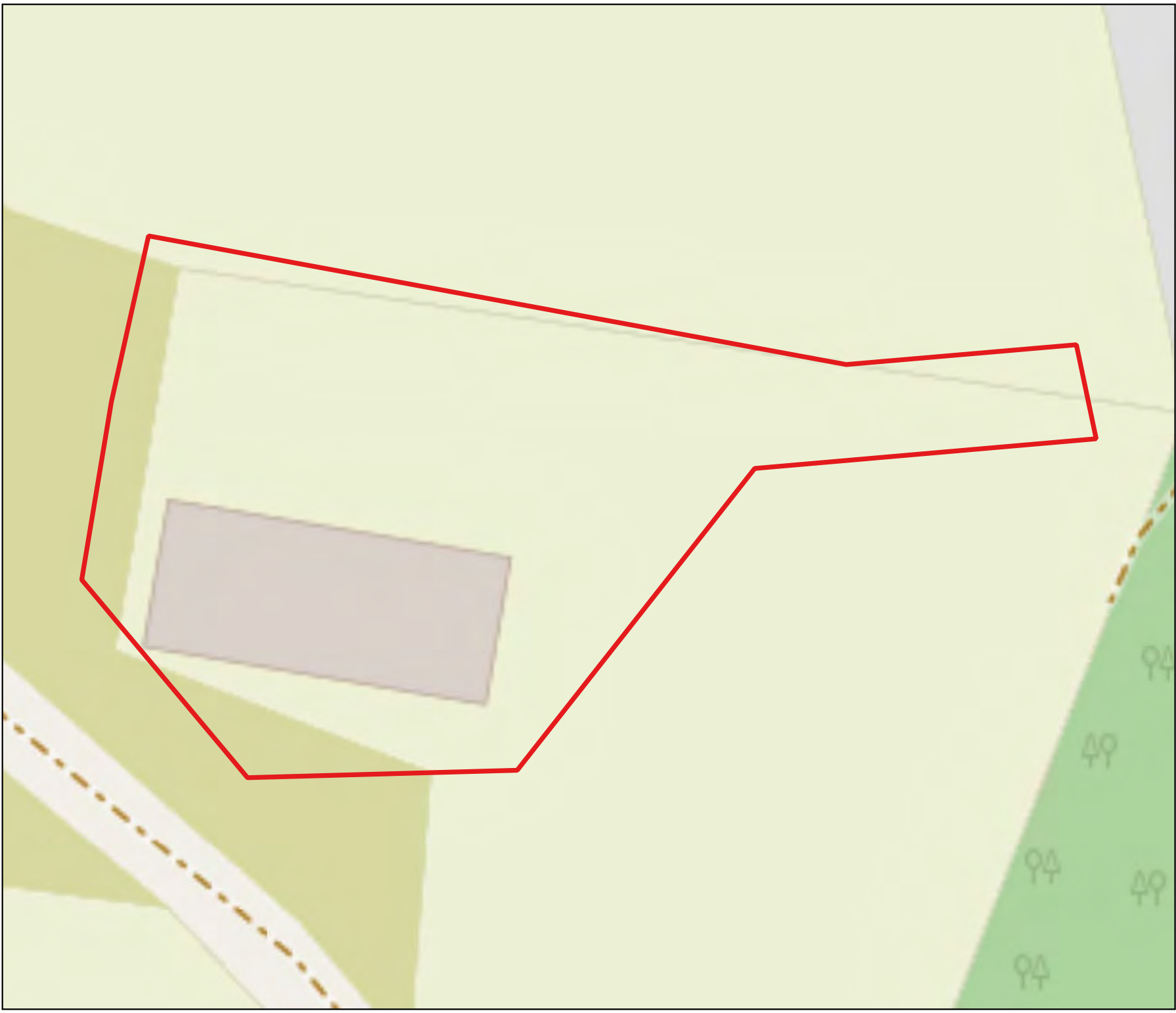
Email: enquiries@demeter-environmental.co.uk

Drawing: 2

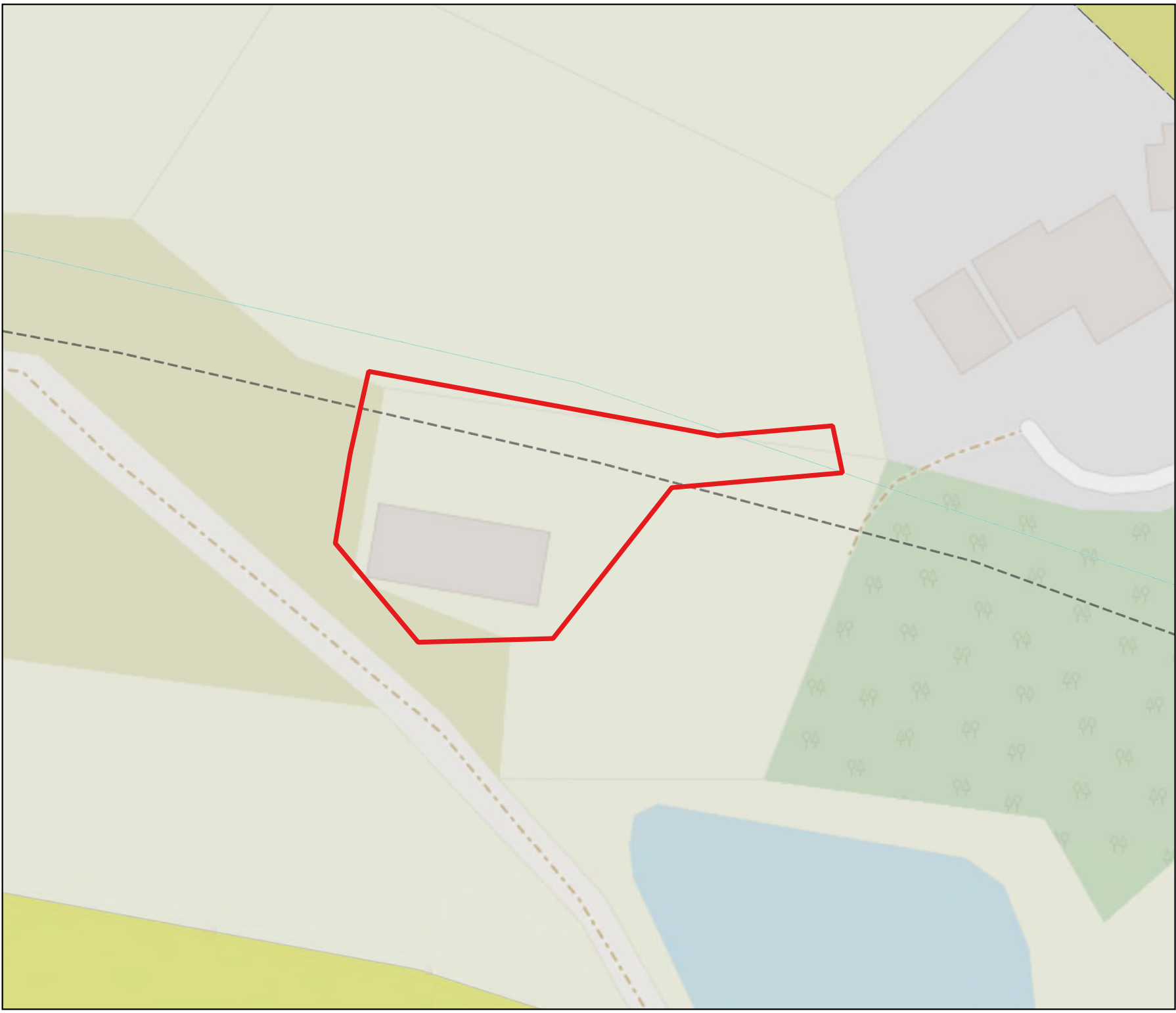
Site Name: Fern Hill Farm

Aerial Plate

Scale: 1:500 at A4



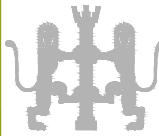
 DEMETER ENVIRONMENTAL LTD
Demeter Environmental Ltd Liverpool Office: 54 St James Street Liverpool L1 0AB Tel: 0151 521 2539 Fax: 0151 909 3661 Brighton Office: The Offices 57 Newtown Road Brighton, East Sussex BN3 7BA Tel: 01273 741 727 Email: enquiries@demeter-environmental.co.uk
Drawing 3
Site Name: Fern Hill Farm
Site Layout
Scale: 1:250 at A4

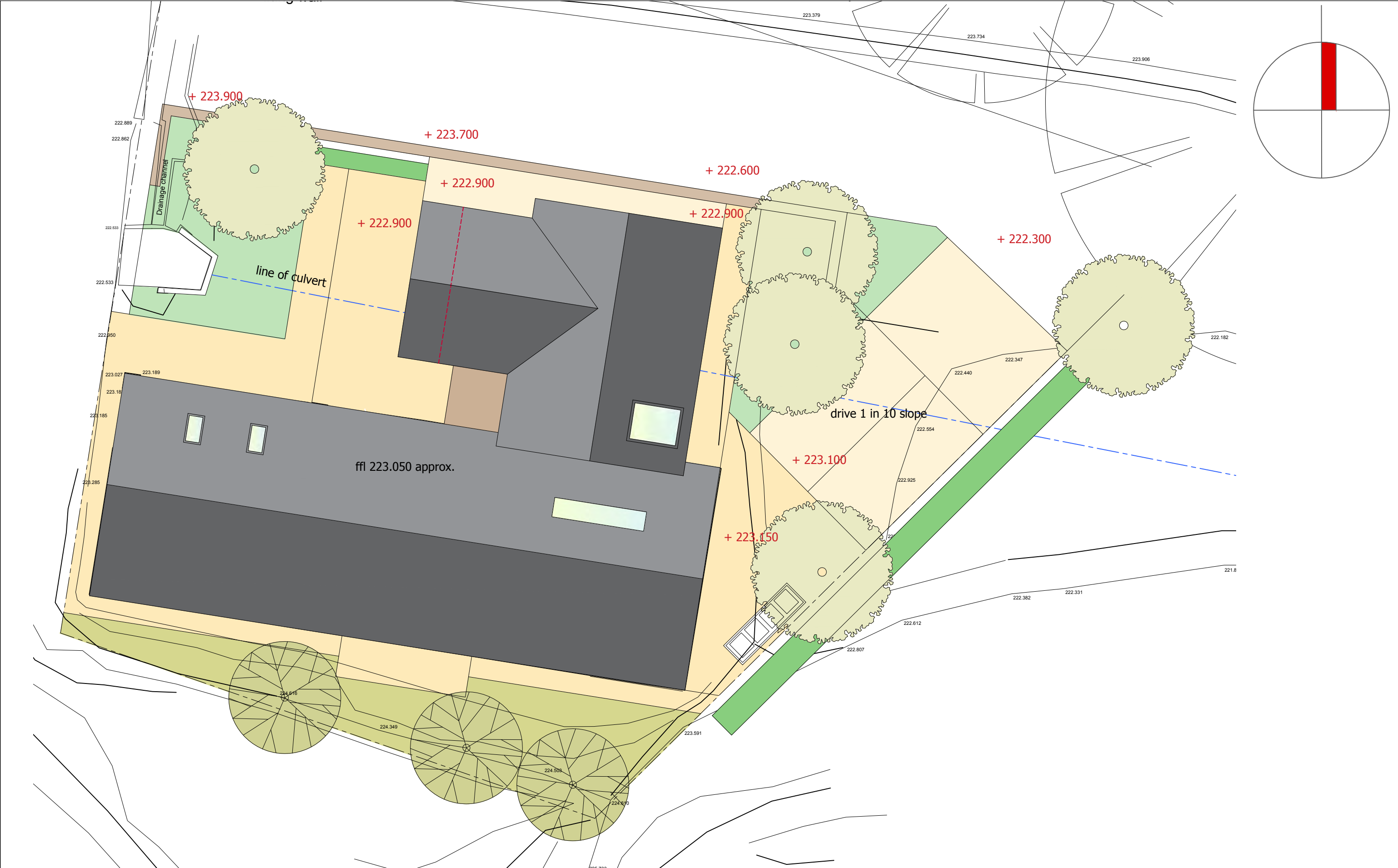


	
Demeter Environmental Ltd Liverpool Office: 54 St James Street Liverpool L1 0AB Tel: 0151 521 2539 Fax: 0151 909 3661 Brighton Office: The Offices 57 Newtown Road Brighton, East Sussex BN3 7BA Tel: 01273 741 727 Email: enquiries@demeter-environmental.co.uk	
Drawing 4	
Site Name: Fern Hill Farm	
Solid Geology	
Scale: 1:500 at A4	

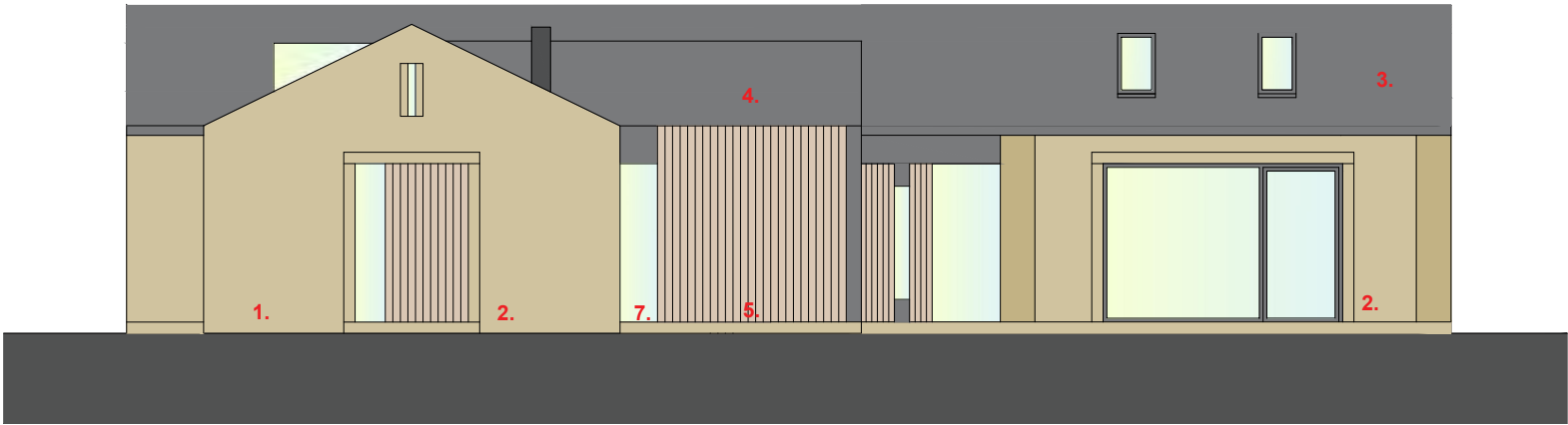


plan as proposed

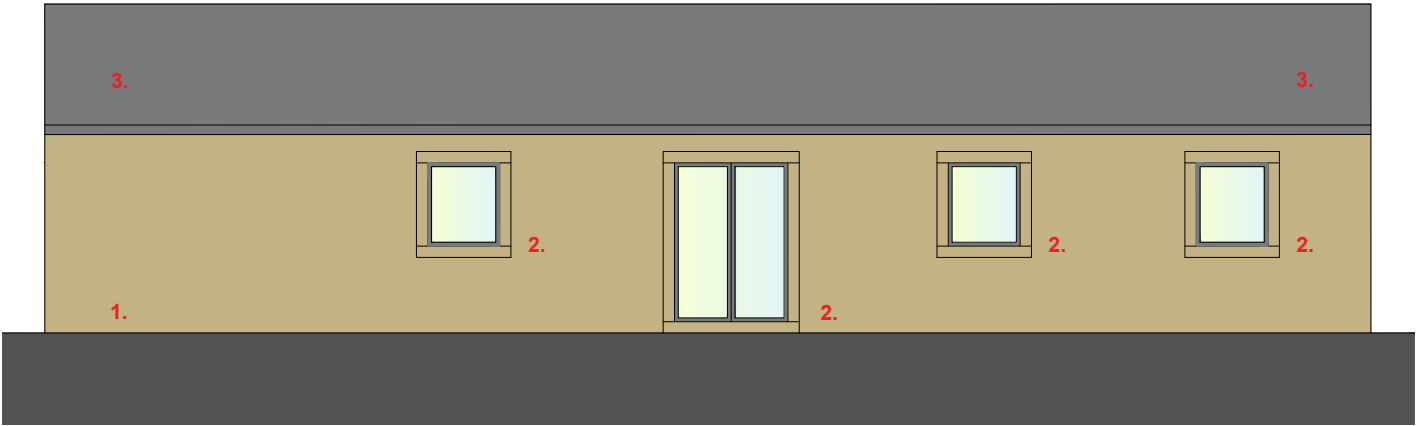
Mr and Mrs Green Proposed Stables Conversion Fern Hill Farm Fern Hill Lane Rochdale OL12 6BW	Plans as Proposed	contract no	drawing no	revision	Blue Pit Mill Queensway Castleton Rochdale OL11 2PG +44 (0)1706 631347 info@cjpartnership.com www.cjpartnership.com	CJPARTNERSHIP ENVIRONMENTAL ARCHITECTS 
	work to figured dimensions	3691	03	A		
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Mr and Mrs Green Proposed Stables Conversion Fern Hill Farm Fern Hill Lane Rochdale OL12 6BW	Site Plan as Proposed	contract no	drawing no	revision	Revisions: A. Landscape details added.PDC.September 2025 B. Plan reduced in size and landscaping/parking arrangements amended.PDC.March 2026 C. Garden elevation amended.PDC.March 2026 D. Roof design and levels added and landscaping amended.PDC.April 2026	Blue Pit Mill Queensway Castleton Rochdale OL11 2PG +44 (0)1706 631347 info@cjpartnership.com www.cjpartnership.com	CJPARTNERSHIP ENVIRONMENTAL ARCHITECTS
	work to figured dimensions	3691	05	D			
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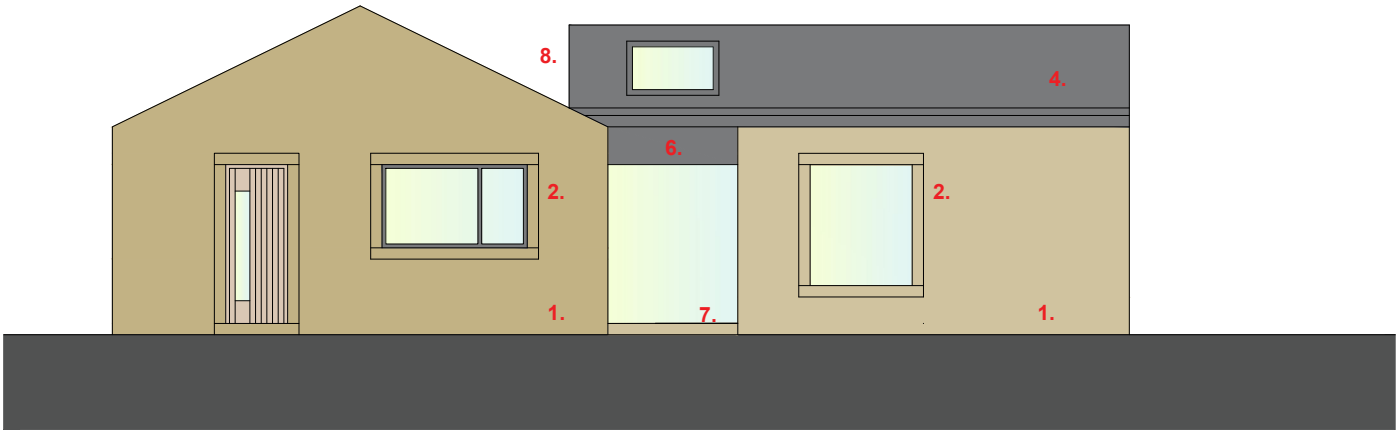


front elevation

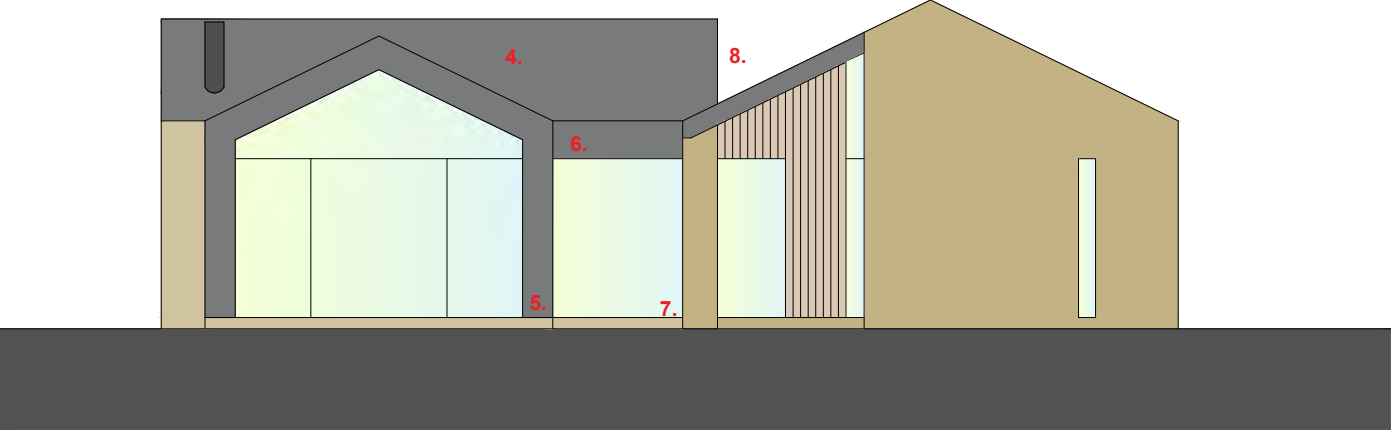


front elevation

- 1. Coursed stone
- 2. stone mullions/lintels/cills
- 3. existing slate
- 4. proposed slate with hidden gutters
- 5. boarded timber cladding
- 6. zinc
- 7. frame-less glazing
- 8. Diffused glazing to gable



side elevation



side elevation

Mr and Mrs Green
Proposed Stables Conversion
Fern Hill Farm
Fern Hill Lane
Rochdale OL12 6BW

Elevations as Proposed

work to figured dimensions

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contract no

3691

drawn by
PDC

drawing no

06

date

revision

C

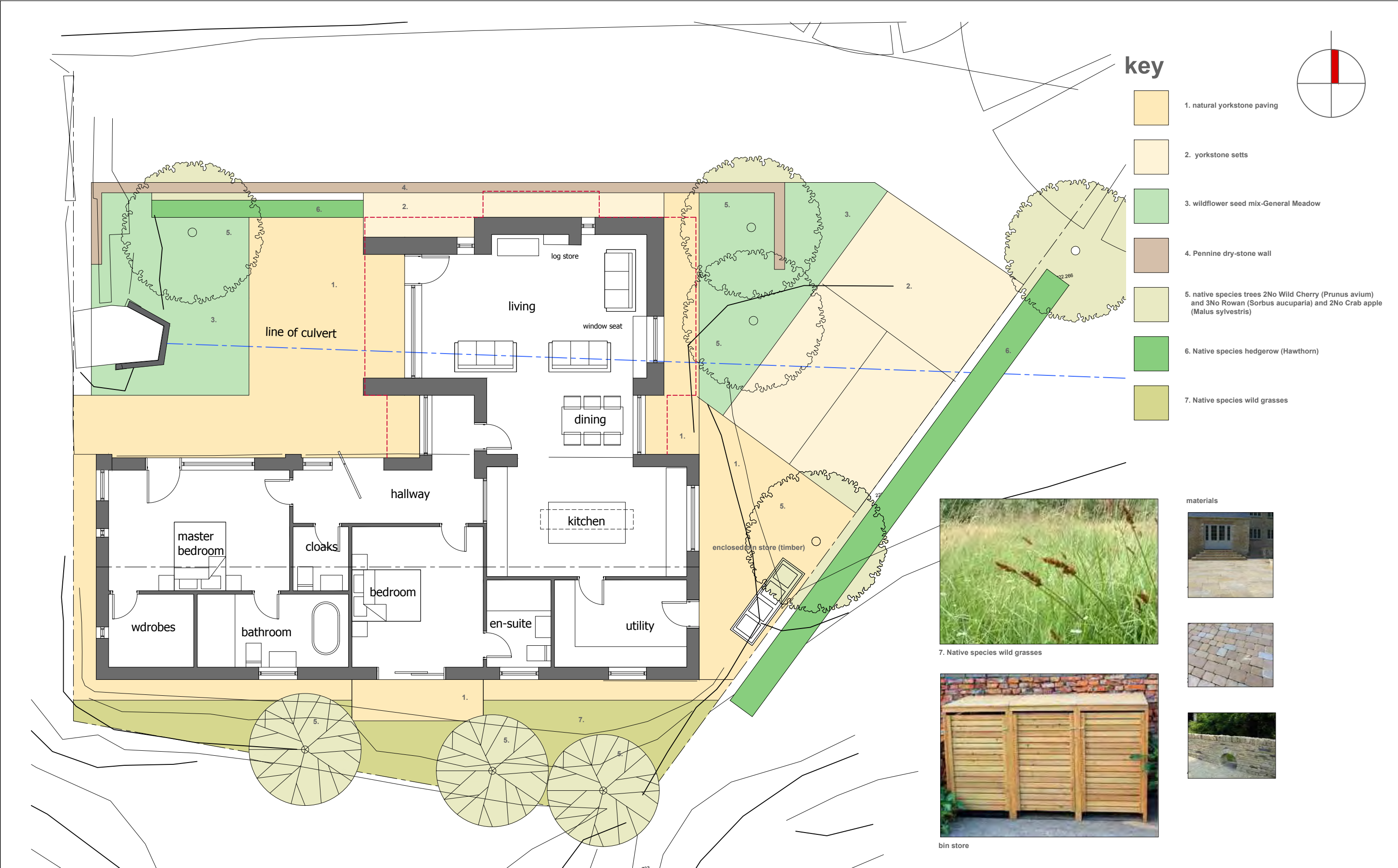
scale @ A3
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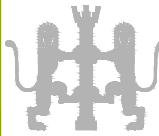
Revisions:
A. Plan reduced in size and design amended in response to pre-app report.PDC.March 2026
B. Garden elevation amended.PDC.March 2026
C. Additional details and specification added.PDC.April 2026

Blue Pit Mill Queensway
Castleton Rochdale OL11 2PG

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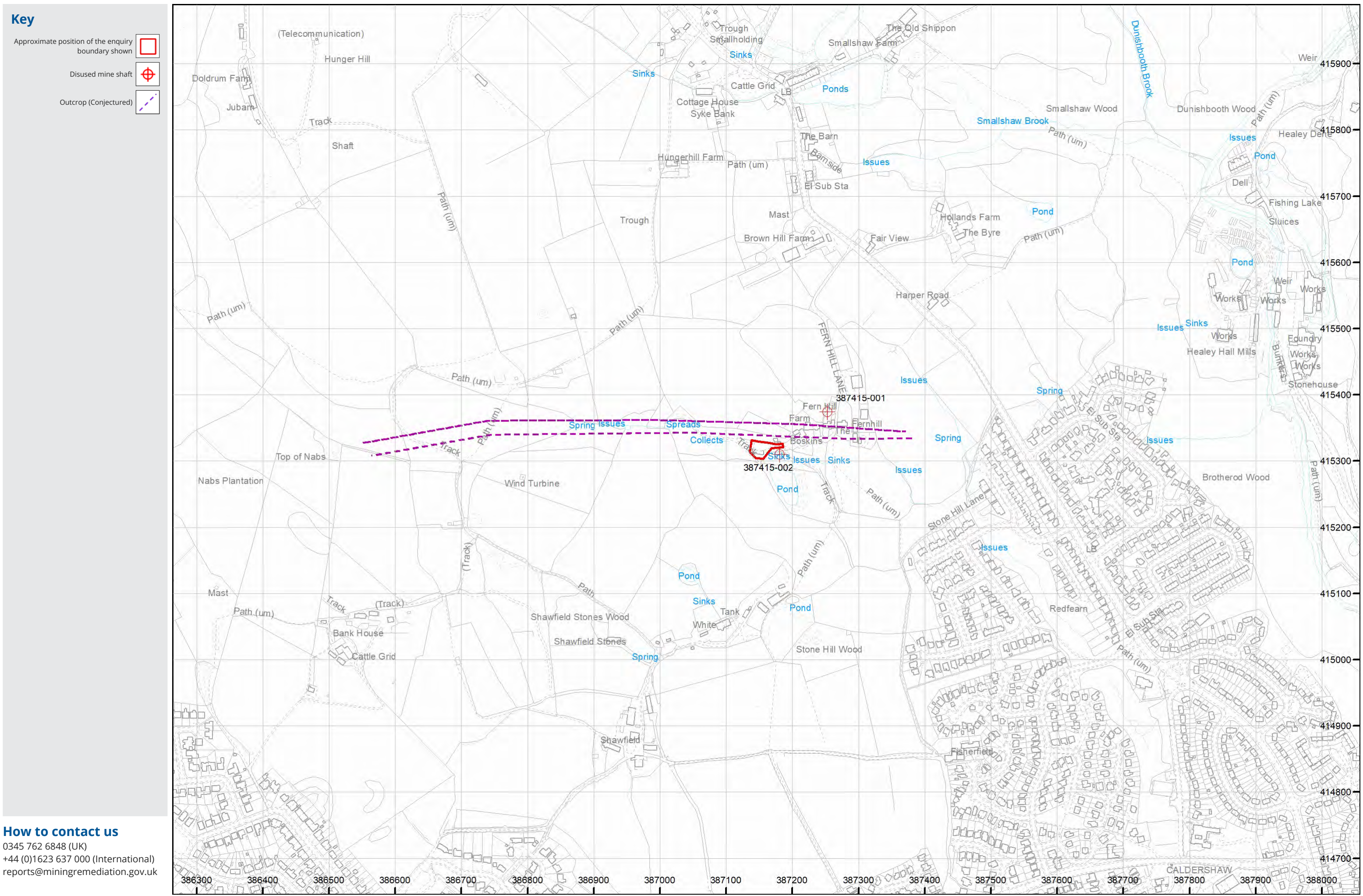


Mr and Mrs Green Proposed Stables Conversion Fern Hill Farm Fern Hill Lane Rochdale OL12 6BW	Site Plan as Proposed Landscape Scheme	contract no 3691	drawing no 07	revision B	Blue Pit Mill Queensway Castleton Rochdale OL11 2PG +44 (0)1706 631347 info@cjpartnership.com www.cjpartnership.com	CJPARTNERSHIP ENVIRONMENTAL ARCHITECTS 
	work to figured dimensions	drawn by PDC	date July 2025	scale @ A3 1:100		
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APPENDIX C: COAL AUTHORITY CONSULTANTS REPORT

The map highlights any specific surface or subsurface features within or near to the boundary of the site.



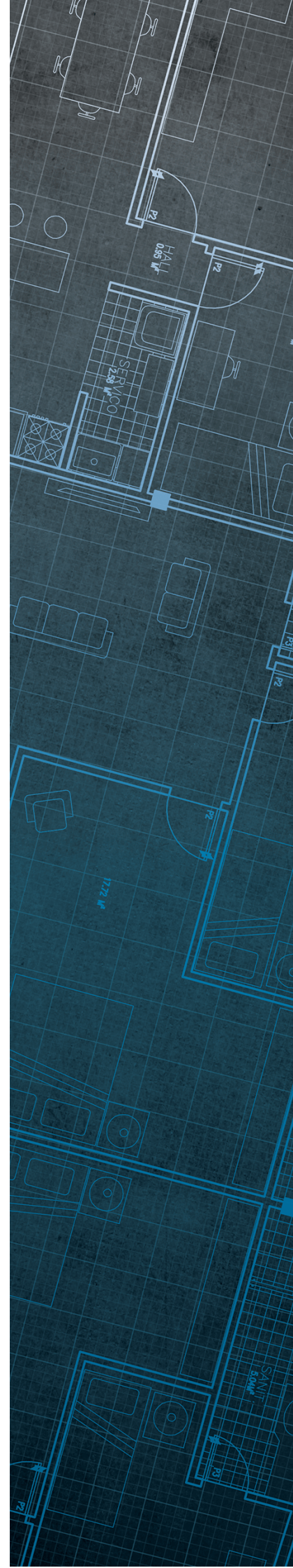


The Coal
Authority

Consultants Coal Mining Report

Fern Hill Farm
Fern Hill Lane
Rochdale
Rochdale
OL12 6BW

Date of enquiry:	5 August 2026
Date enquiry received:	5 August 2026
Issue date:	5 August 2026
Our reference:	51003586804001
Your reference:	26-08-02



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

DEMETER ENVIRONMENTAL

Enquiry address

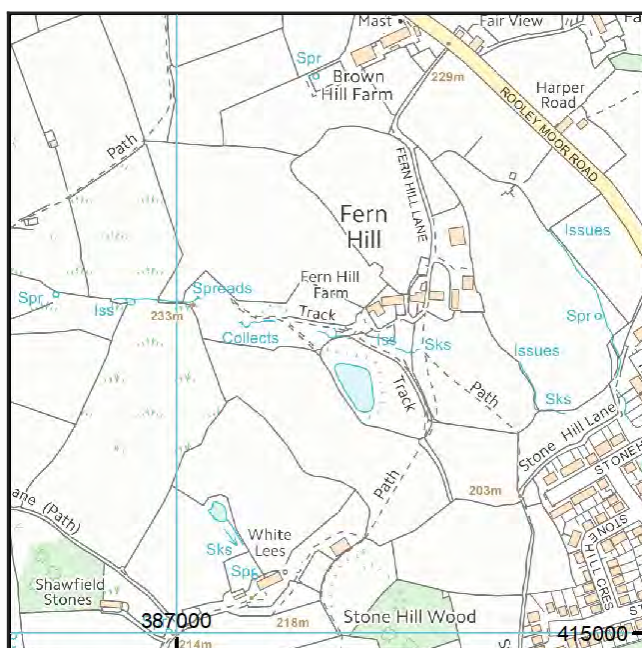
Fern Hill Farm
Fern Hill Lane
Rochdale
Rochdale
OL12 6BW

How to contact us

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200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

reports@miningremediation.gov.uk



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	387415-001	387253 415375	Treatment details unknown.*	Coal	
Shaft	387415-002	387181 415310	Treatment details unknown.*	Coal	

*For your information, before the coal industry was nationalised in 1947, there was no requirement for a mine operator to record mine entry treatment details when a mine was abandoned. Therefore, it is not unusual for us to have no treatment details for many of the 176,000 recorded mine entries on our database. Despite this lack of information, please be assured that the fact we have no treatment recorded does not necessarily mean that the mine entries were left untreated when abandoned.

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

5454	PO0	16820
NW129		

For assistance in identifying the specific abandoned mine plans relevant to your requirements, **please contact us at InformationManagers@MiningRemediation.gov.uk**.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
LOWER FOOT	Coal	Yes	26.4	North	91
LOWER FOOT	Coal	Yes	26.4	North	91
LOWER MOUNTAIN	Coal	Yes	8.0	North	92
LOWER MOUNTAIN	Coal	Yes	8.0	North	92

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

Based on the responses in this report, no further information has been highlighted.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **email us at reports@miningremediation.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.