

MINING RISK ASSESSMENT

Sgiwen Service Station

Prepared for: Motor Fuel Limited

SLR Ref: 427.02082.00245
Version No: 1.0
July 2021



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1.0 INTRODUCTION

1.1 Appointment

SLR Consulting Limited (SLR) was commissioned by Motor Fuel Ltd (MFG), to undertake a Mining Risk Assessment (MRA) of potential risks associated with historical mining features present adjacent to Sgiwen Service Station, A465, Sgiwen, Neath, SA10 6YY (the “Site”) in connection with the proposed development of Electrical Vehicle (EV) charging infrastructure.

This report has been prepared by the Land Quality Group of SLR Consulting Ltd based at Floor 2, 4/5 Lochside View, Edinburgh Park, Edinburgh, EH12 9DH. Tel: 44 (0)131-335-6830.

1.2 Background and Objectives

Sgiwen Service Station currently comprises the petrol filling station (PFS), HGV refuelling area, car wash and shop building with associated parking with the current site layout provided in Appendix A. It is the eastern area of the Site adjacent to the forecourt and shop building that is proposed for the EV redevelopment, and is shown in the proposed development plan provided in Appendix A.

The Site is as located within a **Coal Mining Reporting Area**, meaning it is underlain by Carboniferous coal bearing strata (Coal Measures).

The Site is not located within an area classed as a **Development High Risk Area (DHRA)** and a Coal Mining Risk Assessment (CMRA) is not normally required; however the Site is adjacent to an area classed as a **DHRA**. The Local Planning Authority (LPA) have requested a statement to confirm the relationship between the coal constraint (historical mining features) and the development.

The objective of this report is to detail the relationship between the coal constraint and the development and confirm the risk to the proposed development within the context of the Site.

The Site is located in close proximity to a DHRA which is an area which contains one or more recorded coal mining features which have potential for instability or a degree of risk to the surface from the legacy of coal mining operations. This would comprise a combination of features including:

- mine entries;
- shallow coal workings (recorded and probable);
- recorded coal mining related hazards;
- recorded gas sites; and
- fissures and breaklines and previous surface mining sites.

To complete this MRA, geological information and maps were obtained from the British Geological Survey (BGS). Ordnance Survey 1:50,000 scale maps were also reviewed. Additional searches were requested from the Coal Authority (Appendix B) to address the extent of coal mining features at and within the area of the Site. To support the findings, a review of available BGS borehole records for boreholes drilled into the Coal Measures was carried out to verify findings where possible.

This report thus provides a review of the likelihood of any mining features and mining activity (including traditional underground mining, both recorded and potentially unrecorded) which has taken place at and within the area of the Site.

The geological setting and mining framework of the Site and surrounding area are described in Section 2.0, which is followed by the Mining Assessment in Section 3.0. Conclusions are presented in Section 4.0.

1.3 Development Proposals

The MRA has been undertaken to support the partial redevelopment of the Site.

The proposed development comprises an electrical vehicle charging area with the following infrastructure:

- 5 No. electrical charging points and bays with canopy;
- Air, water and vacuum machines;
- Electrical substation and associated infrastructure within enclosures;
- Demolition of the car wash and creation of new parking areas.

This assessment is based on the assumption no deep foundation or significant earthworks are required.

A proposed development plan is presented at Appendix A.

2.0 GEOLOGICAL AND HYDROLOGICAL SETTING

2.1 Geology

Information on geology and mining has been obtained from BGS maps and memoirs, including BGS 1:50,000 Sheet 24, Swansea (Bedrock Edition).

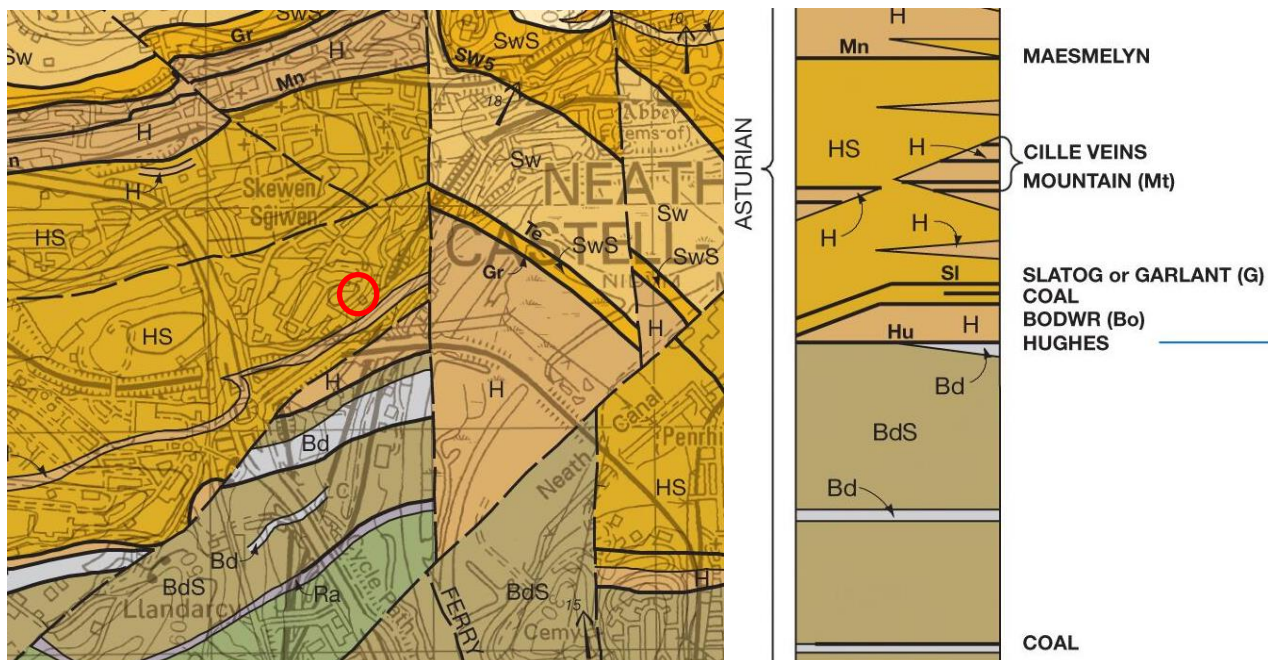
2.1.1 Superficial deposits

The general topographic setting of the Site is a cutting into a hillside location, with a 4% topographic gradient down towards the southeast. The area around the Site is recorded as underlain by superficial deposits of glacial till, likely variably present across the Site given the hillside setting. Local borehole records southwest of the Site (SS79NW247) provided by the BGS indicate the glacial till has a thickness of up to 7m.

2.1.2 Solid Geology

The Site overlies an extensive Carboniferous basin, forming the main South Wales Coalfield; within a thick sequence of Westphalian age Coal Measures comprising South Wales Upper Coal Measures (SWUCM) Formation. The Site is underlain by strata of the SWUCM, comprising mainly thick sequences of sandstone, with thin mudstone/siltstone and seatearth interbeds, and mainly thin coals, forming the Hughes Member. Strata of the Hughes Member Sandstone outcrop locally to the northwest of the Site, dipping moderately to the north. An excerpt from BGS Sheet 24 of the surrounding geology and coal seam stratigraphy is provided in Figure 2-1, with the Site's location highlighted in red.

Figure 2-1: BGS Map Excerpt - Bedrock



BGS Borehole Records

A limited number of borehole records are present within 200m of the Site; however the logs suggest variable presence of glacial till adjacent to the Site overlying bedrock of sandstone, consistent with the BGS geology maps. A summary of nearby borehole records is provided in Table 2-1.

Table 2-1: BGS Borehole Records

Borehole Name and Distance from Site	Date	Borehole Depth	Recorded Geology and Depth Range
SS79NW247 (70m SW)	1990	7.5m	Glacial till to 6.9m bgl Sandstone to 7.5m bgl
SS79NW249 (190m to SW)	1990	10m	Made Ground to 5.5m bgl Sandstone to 10m bgl

bgl - below ground level

2.2 Coal Mining History

The Site and surrounding area lie within the South Wales Coalfield and there is a long history of regional coal exploitation. A number of economic coal seams are present in the strata beneath the Site, with the shallowest seam anticipated to be the Hughes Coal (Hu), outcropping approximately 200m to the south dipping down towards the Site. Based on a review of available data from the Coal Authority website and BGS maps, there is no evidence of underground workings taking place on the Hughes Coal beneath the Site. Should unrecorded workings be present, these would be at depths of over 100m BGL and therefore unlikely to pose a risk to the Site.

2.3 Hydrogeology

The Site has limited recorded superficial deposits of lower permeability glacial till. The underlying bedrock of the Hughes Member Sandstone is classified as a Secondary A aquifer. The Site is not located in a source protection zone (SPZ).

3.0 MINING ASSESSMENT

3.1 Coal Mining Report

A Coal Mining Report was obtained from the Coal Authority, see *Report Reference 51002564395001* (Appendix B). Key sections of the mining report are reproduced below.

3.1.1 Underground Coal Mining

Past

No past mining recorded.

Present

The property is not within a surface area that could be affected by present underground mining.

Future

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant, a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

3.1.2 Mine entries

Within, or within 20 metres of, the boundary of the property there is one mine entry, the approximate position of which is shown on the enquiry boundary plot to the southwest of the Site. For reasons of clarity, mine entry symbols may not be drawn to the same scale as the plan.

There coal authority reports the following treatment description

"A site investigation was undertaken by W S Atkins and Partners (Wales) in 1987. Part of this investigation involved a search for this mine entry. No evidence of the shaft was found during this investigation which led the consultants to the conclusion that no special requirements would be required for any of the dwellings in that part of the development. They further concluded that should the mine entry be found to be located outside of the development area its presence there would not represent a stability issue to the properties 41 and 43 Bay View Close"

3.1.3 Coal Mining Geology

The Coal Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

3.1.4 Opencast Coal Mining

Past

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

Present

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

Future

The property is not within 200 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 200 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

3.1.5 Coal Mining Subsidence

There is no evidence of any damage from coal mining subsidence.

3.1.6 Mine Gas

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

3.2 Mining Risk Assessment

The Coal Authority reports a former mine shaft 10m beyond the southwestern boundary of the Site. The Site is located within a coal mining area, with coal bearing strata beneath the Site; however there is no evidence of recorded workings and furthermore should workings exist these would be at depths not considered likely to pose a risk to the Site.

Further assessment of the risks from the recorded adjacent mine entry are required to assess if there is potential for damage to future buildings/infrastructure from void migration/stability issues.

For the purposes of this mining risk assessment all sources (Coal Authority reports, geological maps and memoirs) have been assessed and assigned a relative degree of risk to highlight potential areas of concern based on identified features and potential future actions.

3.2.1 Risk Assessment

Table 3-1 presents the framework used to complete the assessment.

Table 3-1: Risk Assessment Framework

Risk Status	Action
No Risk	Identified feature(s) not considered to pose any risk to proposed development. No further action required.
Low Risk	Identified feature(s) are unlikely to pose a risk to any future proposed development although further action may be required, such as intrusive site investigation.
Medium Risk	Identified feature(s) may present a risk to any future proposed development and further actions are likely to be required including, but not limited to, intrusive site investigation and potentially ground improvement works.

Risk Status	Action
High Risk	Identified feature(s) present a risk to any future proposed development and further actions are required including, but not limited to, intrusive site investigation and potentially ground improvement works.

The recorded shaft is located approximately 10m from the southwestern site boundary. The proposed development of an EV charging infrastructure and associated parking is considered relatively low risk. This is based on there being no requirement for significant earthworks requiring deep foundations and the development taking place greater than 100m from the former mine shaft. Based on the above risk assessment framework and evidence presented, the potential for ground stability risks to arise is considered to be low for a development of this nature with no risks considered to be present.

4.0 Summary and Conclusions

This mining risk assessment for the proposed development at Sgiwen Service Station concludes that the Site is minerally stable. This is based on there being no recorded workings present beneath the Site at shallow depths and the recorded mine shaft adjacent to southwestern boundary being greater than 100m from the proposed development. Therefore, the risks of void migration are considered to be low.

SLR consider there is no further action required in relation to risks from mining and mining related features at the Site; however, should any changes be made to the development proposals further assessment may be required.

DRAWINGS



DRAWING 01: SITE LOCATION PLAN - FS719 - SGIWEN

CONTAINS ORDNANCE SURVEY DATA © CROWN COPYRIGHT AND DATABASE RIGHTS (2019) 0100031673. OS OPENDATA
AERIAL SOURCE: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AERGRID, IGN, AND THE GIS USER COMMUNITY
DATE: DEC 2018
DRAWN BY: MD



SITE NO.

FS719

02082.00101.19.01.0 Site Location

APPENDIX A

Current and Proposed Development Plans

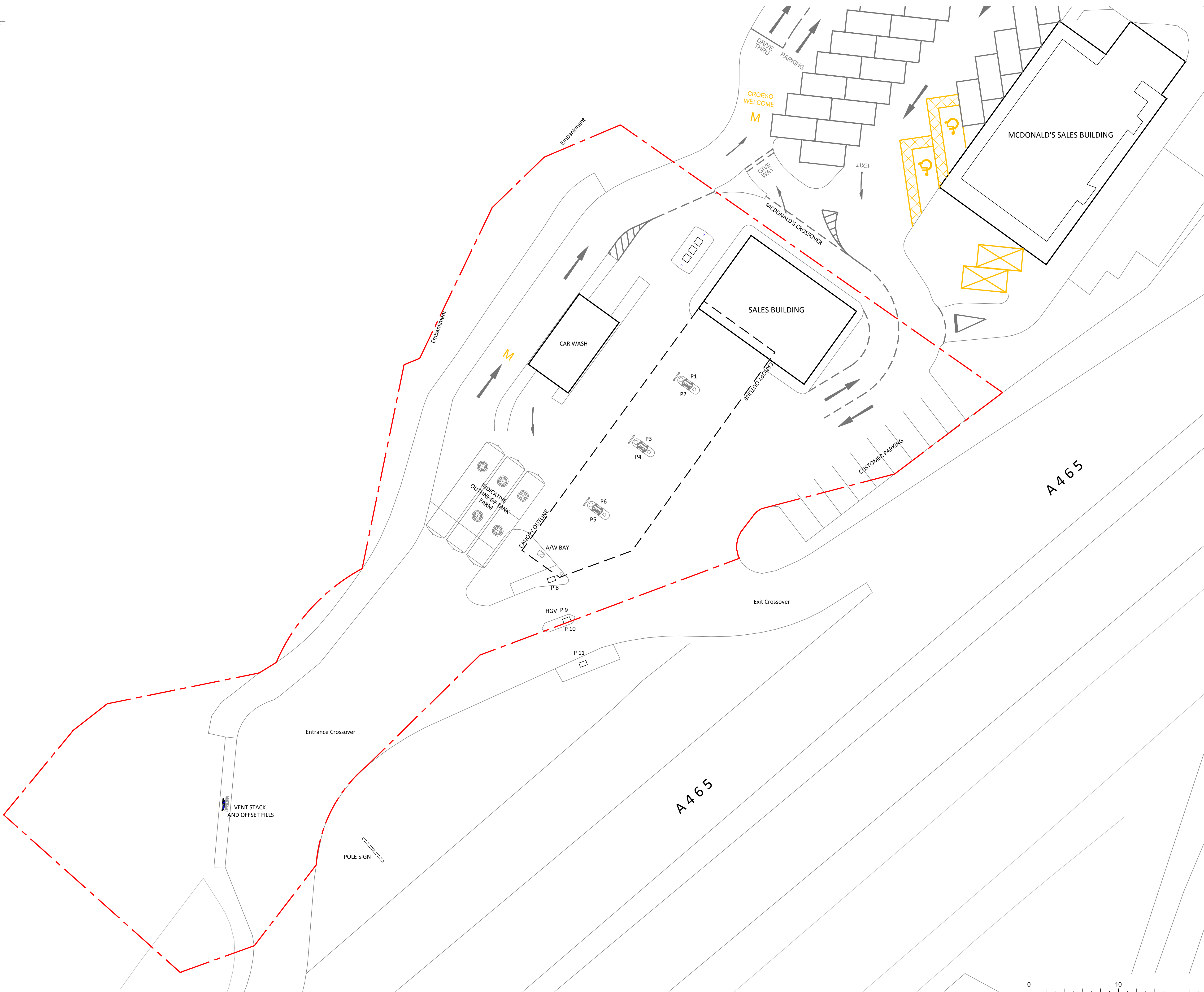


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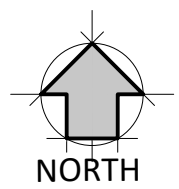
This drawing has been produced for the project listed below, is submitted in support of this application application to the Local Planning Authority and is not intended for use by any other person or for any other purpose.

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A	22/12/2020	Swepts paths and Additional Info shown	ES/JN
REV	DATE	DESCRIPTION	DRAWN/CHECKED
REVISION NOTES			
PLANNING			
 MBH Design Studio Ltd. Rosemount House, Rosemount Avenue, West Byfleet, Surrey, KT14 6LB www.mbhstd.com t: 01932 352 727 f: 01932 351 545			
CLIENT			
 motor fuel group			
PROJECT			
FS719 - SGIWEN SERVICE STATION A465, SKEWEN, NEATH, SA10 6YY			
DRAWING TITLE			
EXISTING SITE LAYOUT			
DRAWN BY	DATE	SCALE	PAPER SIZE
ES	05/11/2020	1:200	A1
CHECKED BY	DRAWING NUMBER	REV.	
JN	13664-P01-719	A	





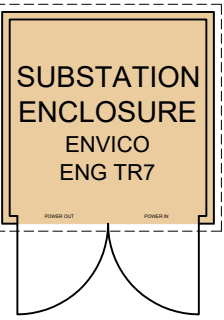
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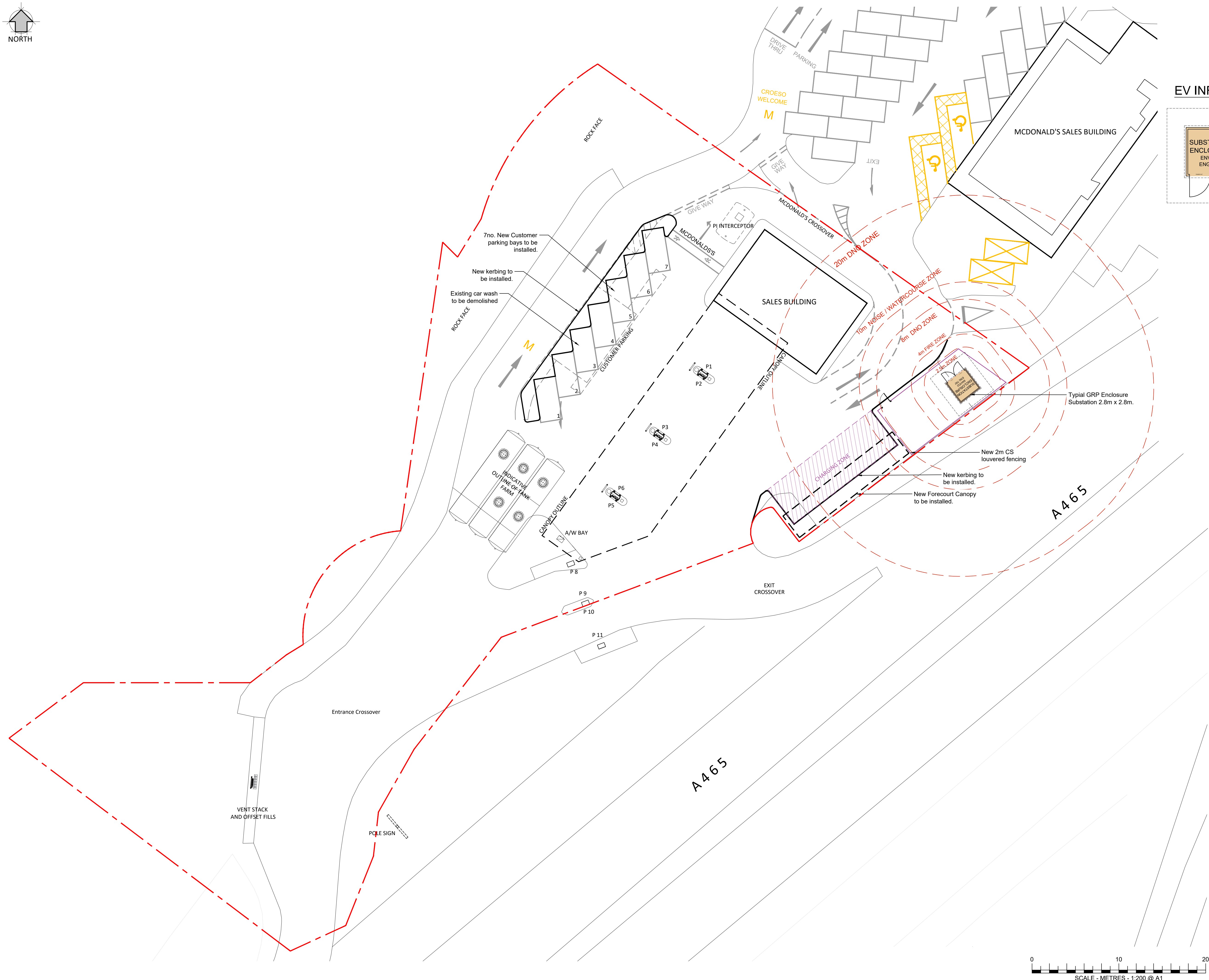
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Every effort has been made to ensure the accuracy of these drawings, however MBH Design Studio Ltd. accept no responsibility for any discrepancies arising from the reuse of survey information and preliminary drawings commissioned by the Applicant from others.

EV INFRASTRUCTURE



DENOTES DNO HV/LV SUBSTATION
Typical GRP Enclosure 2.8m x 2.8m
All to service provider standard details



APPENDIX B

Coal Authority Data



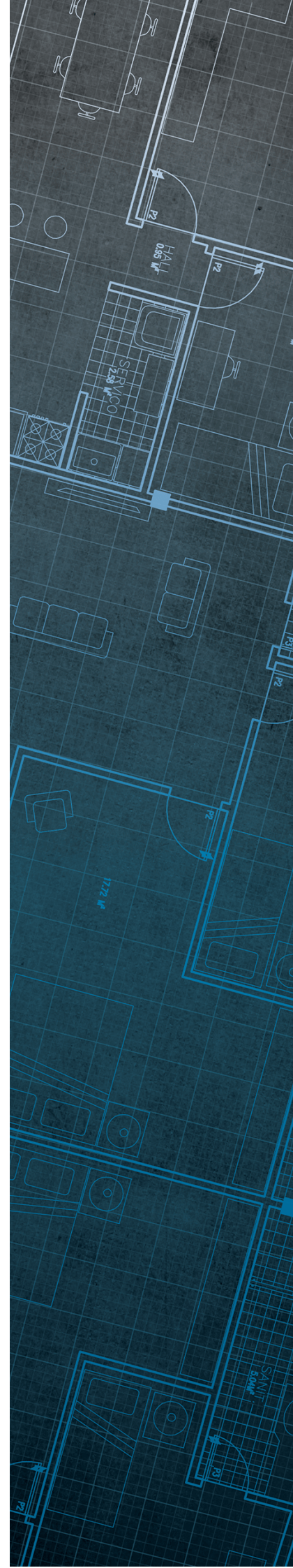
The Coal
Authority

Consultants Coal Mining Report

Motor Fuel
Sgiwen Service Station
Skewen
Neath Port Talbot
SA10 6YY

Date of enquiry:	21 July 2021
Date enquiry received:	21 July 2021
Issue date:	21 July 2021

Our reference:	51002564395001
Your reference:	FS719 SGIWEN



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

Alan Huntridge

Enquiry address

Motor Fuel
Sgiwen Service Station
Skewen
Neath Port Talbot
SA10 6YY

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
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NG18 4RG

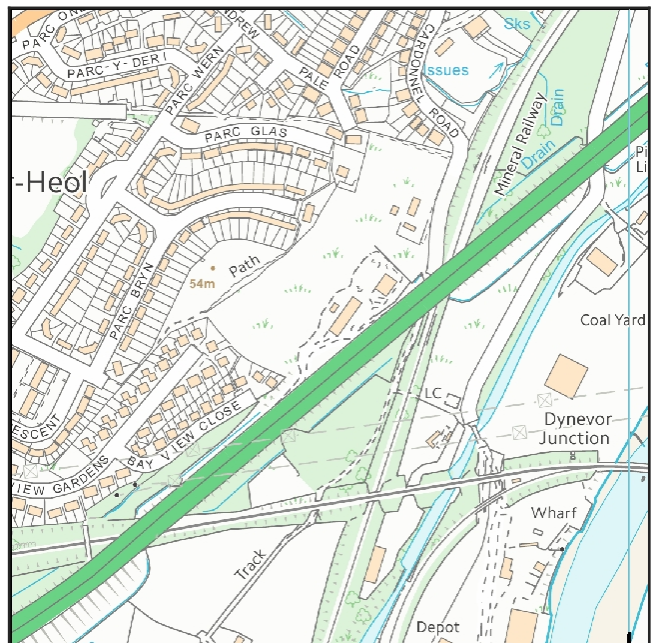
www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



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	272196-003	272639 196457	A site investigation was undertaken by W S Atkins and Partners (Wales) in 1987. Part of this investigation involved a search for this mine entry. No evidence of the shaft was found during this investigation which led the consultants to the conclusion that no special requirements would be required for any of the dwellings in that part of the development. They further concluded that should the mine entry be found to be located outside of the development area its presence there would not represent a stability issue to the properties 41 and 43 Bay View Close	Coal	

Abandoned mine plan catalogue numbers

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

SWR1743	SWR1671	R12044
R12048	6634	SWR2654
SW1916		

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

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.

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 **call us on 0345 762 6848** or **email us at groundstability@coal.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.

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.

Issued by:

The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG
Website: www.groundstability.com Phone: 0345 762 6848

**ALAN HUNTRIDGE
SLR CONSULTING LTD
4/5 LOCHSIDE VIEW
EDINBURGH
MIDLOTHIAN
EH12 9DH**

Our reference:	51002564395002
Your reference:	FS719 SGIWEN
Date of your enquiry:	21 July 2021
Date we received your enquiry:	21 July 2021
Date of issue:	22 July 2021

This report is for the property described in the address below and the attached plan.

Shaft Plan and Data Sheets

MOTOR FUEL, SGIWEN SERVICE STATION, SKEWEN, NEATH PORT TALBOT, SA10 6YY

I refer to the enquiry dated 21 July 2021, received 21 July 2021, in connection with the above.

As requested I enclose the mine entry data sheet(s) held for the mine entry/entries referred to.

Mine Entry Data

Shaft/adit:	Shaft
Reference:	272196-003
Source:	Ab plan SWR1743
Colliery name:	Unknown
Entry name:	Pit
Date abandoned:	Unknown
Depth of superficial deposits (m):	Unknown
Depth of shaft (m):	Unknown
Diameter of shaft (m):	Unknown
Probable adit azimuth:	Not Applicable
Treatment details:	A site investigation was undertaken by W S Atkins and Partners (Wales) in 1987. Part of this investigation involved a search for this mine entry. No evidence of the shaft was found during this investigation which led the consultants to the conclusion that no special requirements would be required for any of the dwellings in that part of the development. They further concluded that should the mine entry be found to be located outside of the development area its presence there would not represent a stability issue to the properties 41 and 43 Bay View Close
Conveyance:	Not Applicable
Easting:	272639
Northing:	196457
Other information:	Yes

Location map

Approximate position of enquiry



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This plan shows the approximate location of the disused mine entry / entries referred to in the attached mining report. For reasons of clarity, mine entry symbols may not be drawn to the same scale as the plan.

Property owners have the benefit of statutory protection (under the Coal Mining Subsidence Act 1991). This contains provision for the making good, to the reasonable satisfaction of the owner, of physical damage from disused coal mine workings including disused coal mine entries. A leaflet setting out the rights and obligations of either the Coal Authority or other responsible persons under the 1991 Act can be obtained by visiting www.groundstability.com.

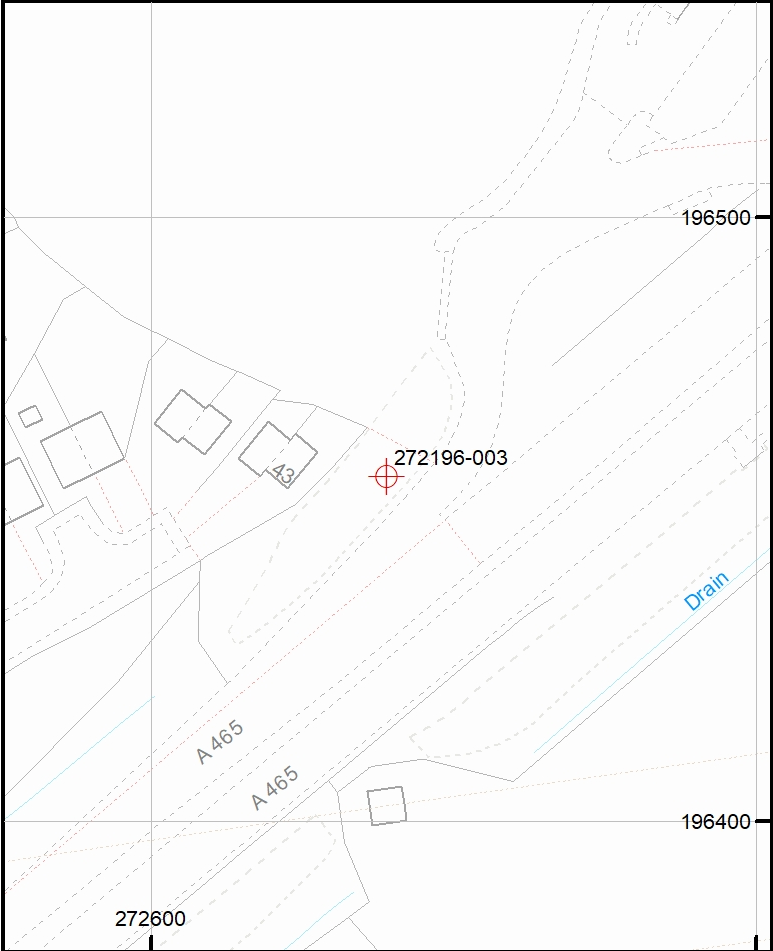
If you wish to discuss the relevance of any of the information contained in this report, you should seek the advice of a qualified mining engineer or surveyor. If you or your advisor wish to examine the source plans from which the information has been taken, these are available to view, free of charge, at our Head Office in Mansfield. To book an appointment please ring 01623 637225. Should you or your advisor wish to carry out a physical investigation that may enter, disturb or interfere with any disused mine entry, prior permission of the owner must be sought. For coal mine entries, the owner will normally be the Coal Authority.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency call out facility in coalfield areas to assess the public safety implications of mining features (including disused mine entries).

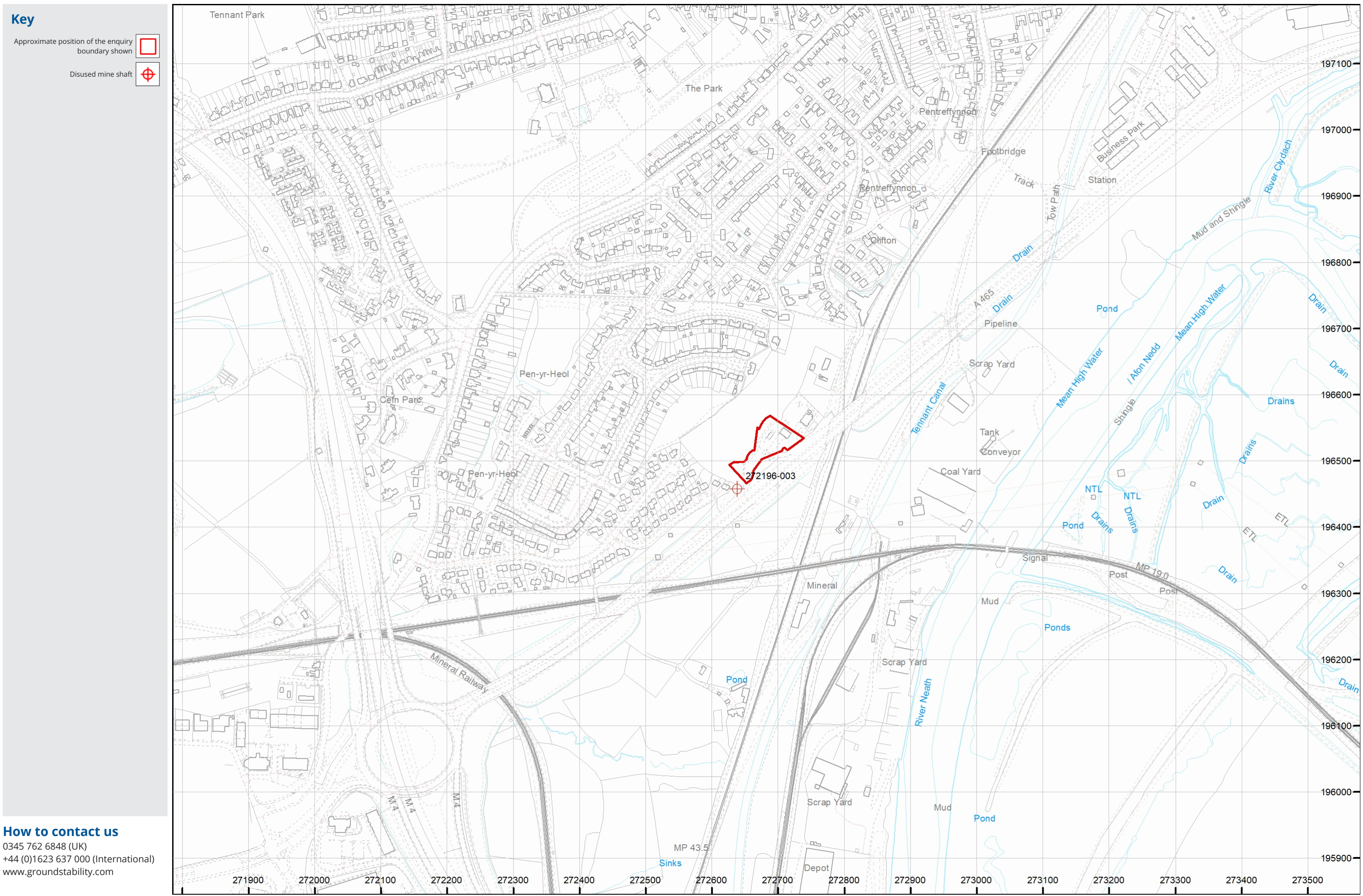
Our emergency telephone number is 01623 646333.

Key

Disused Adit or Mineshaft



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



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