



PRELIMINARY APPRAISAL REPORT

For Land off Central Avenue, Port Talbot

**Prepared for Sirius Planning Ltd on behalf of
Protium Green Hydrogen Supply Ltd**

Date: March 2025

Report reference: C10398

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QUALITY ASSURANCE

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APPENDIX A DRAWINGS

Drawing No.	Title	Scale
PRO1013/01/01 (Sirius Planning Ltd)	Site Location Plan	1:10,000 / 1:500 @ A3
C10398/02	Site Features Plan	1:500 @ A3
C10398/03	Preliminary Conceptual Site Model	NTS (A3)
PRO1013/01/05 (Sirius Planning Ltd)	Proposed Site Layout	1:500 @ A3

Executive Summary

Brief/Proposed Development	Sirius Geotechnical Ltd was commissioned by Sirius Planning Ltd, acting on behalf of Protium Green Hydrogen Solutions Ltd, to undertake a preliminary appraisal report (desktop study) of land off Central Avenue, Port Talbot (the Site), in support of a planning application for a proposed Hydrogen Production Facility (Proposed Development).
National Grid Reference	274300, 192340.
Site Description	The Site covers an area of approximately 0.6 hectares. Approximately half of the Site area is surfaced with asphalt, with the north-west and south-west being surfaced with stone chippings. There are also foundations associated with the previous workshops in the south-west. The majority of the Site is used to store containerised temporary site accommodation, with small areas used to store construction materials and wooden pallets. There are a small number of skips containing general construction waste. Containerised hydrogen production plant is also being temporarily stored within the Site.
Site History	Ordnance Survey (OS) mapping and aerial imagery indicates that the Site was undeveloped until the 1970s, when it was located within a wider area of Works (as defined in Table 2.7). On the 2000 OS map the Site appears to comprise mostly unmade ground and vegetation, with apparent storage of waste materials. Aerial imagery from 2002 shows the central part of the Site comprising an asphalt-surfaced car park, with the north appearing to be a stone-surfaced area for storing containers. There is an industrial type building in the south-western corner (which was removed in c. 2009).
Anticipated Ground Conditions	The Site is mapped to be underlain by made ground, comprising mainly colliery and mineral smelting spoil. The made ground is reported to be underlain by superficial soils comprising Tidal Flat Deposits (clay, silt and sand), which are estimated to be 25 – 40m thick. The superficial deposits are underlain by undifferentiated strata of the South Wales Lower Coal Measures Formation (mudstone, siltstone and sandstone).
Mining and Quarrying	The risk to Site stability from historical mining and quarrying is considered to be low, with no further works required in this respect.
Potential Soil / Groundwater / Ground Gas Contamination	Although historical deposition of made ground (colliery and / or mineral smelting spoil) and possible historical waste storage may have resulted in shallow soil contamination at the Site, there are to be no plausible exposure pathways to future site users following development, due to the presence of hard surfacing and clean stone capping across the site. Similarly, there are to be no plausible significant contaminant migration pathways to controlled waters receptors, due to the relatively low hydrogeological and hydrological sensitivity of the Site. No significant potential sources of hazardous ground gas have been identified that may affect the Site, including mines gases and radon. Furthermore, the only proposed occupied building is to be an office / welfare building of modular construction, which typically gives intrinsic protection against accumulation of ground gases / vapours within the occupied spaces. It is therefore concluded that no significant contaminant linkages affect the Proposed Development, and that the risk to any potential receptors present is Low. Accordingly, no further site investigation or specific remedial works are considered to be necessary in this respect.
Invasive Plant Species	It is understood that the planning application is supported by an ecological survey, and that recommendations have been given for management of invasive plant species.

The executive summary is an overview of the key findings and conclusions of the report. There may be other information contained in the body of the report which puts into context the findings of the executive summary. No reliance should be placed on the executive summary in isolation, particularly when deriving design detail/abnormal costs.

1. Introduction

1.1 Authorisation

Sirius Geotechnical Ltd was commissioned by Sirius Planning Ltd, acting on behalf of Protium Green Hydrogen Solutions Ltd, to undertake a preliminary appraisal report (desktop study) in support of a planning application for a proposed Hydrogen Production Facility at land off Central Avenue, Port Talbot (the site).

1.2 Development Plans

It is understood that it is proposed to develop the Site with an electrolytic hydrogen production facility and hydrogen tube-trailer filling station (The Proposed Development), as shown on Sirius Planning Ltd Drawing No. PRO1013/01/05, a copy of which is included in Appendix A.

The Proposed Development is described in detail in the Planning Statement which accompanies the application, but in summary will comprise chiefly containerised green hydrogen production and electrical switching equipment, as well as other external plant and a modular office / welfare building, supported on the existing and proposed extended hardstandings.

The planning application boundary (red line) is shown in Figure 1.1 below, as provided by Sirius Planning Ltd.

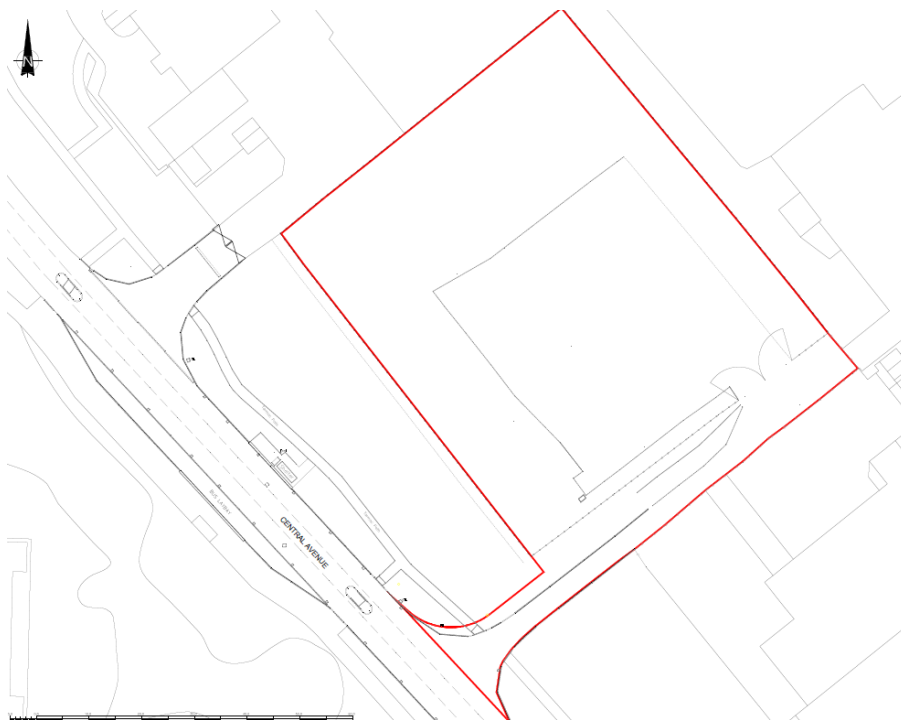


Figure 1.1 - Planning Application Boundary

1.3 Objectives

The objectives of this preliminary appraisal were to:

- Establish the historical development of the site and immediate surrounding area from a review of historical Ordnance Survey (OS) plans.
- Establish the environmental setting of the site.
- Establish the geological setting of the site and evaluate the potential risk to development from any geological conditions.
- Evaluate whether past mining or other extractive industries could have an influence on the proposed end use.
- Determine if historical or current activities could give rise to significant ground contamination.
- Preparation of a Preliminary Conceptual Site Model based on the above information.
- Provide outline advice relating to potential geological, geotechnical and contamination constraints associated with the site.
- Provide outline recommendations for intrusive works to further investigate potential constraints identified.

This report, which was designed to meet the requirements of relevant current guidance, presents the factual information available during this appraisal, an interpretation of the data obtained and recommendations relevant to the defined objectives.

1.4 Limitations

The comments and opinions presented in this report are based on the findings of the desk study materials and site walkover only. There may be other conditions prevailing on the Site which have not been revealed by this investigation, and therefore have not been taken into account by this report. Responsibility cannot be accepted for any ground conditions/risks not revealed by this preliminary investigation. Any diagram or opinion on the possible configuration of strata, contamination or other spatially variable features between or beyond investigation positions is conjectured and given for guidance only.

All marked site features (including historical features, quarrying / mining features), potential contaminant constraints, and any other potential constraint or feature of note) shown on the appended drawings are given for indicative purposes only. Enclosed drawings should not be overlaid in isolation to determine Proposed Development layouts. Reference should be made to the text enclosed within this report for commentary on the potential location of these features including coordinates if available and any further works required to locate features.

Potential risk to site construction/maintenance workers have not been considered within this appraisal on the basis that any risks to workers would be dealt with under the Health and Safety at Work Act (1974) and regulations made under the Act. It is recommended that the relevant findings of this report are made available to site construction/maintenance workers to enable appropriate risk assessment to be undertaken to mitigate the risk to site construction/maintenance workers from potential contaminants identified within the site.

1.5 Sources of Information

Table 1.1 details the sources of information which have been used to prepare this report. They are referred to by the reference letter provided. Standard terms of reference for guidance and legislation are included in Appendix E and have been used for general reference to compile this report.

Table 1.1 - Sources of Information

Ref	References
A	Envirocheck Report Ref. 367690706_1_1, dated 21 st January 2025; copy in Appendix B.
B	British Geological Survey (BGS) 1:50,000 scale geological map (Sheet 247, Swansea, Bedrock and Superficial Deposits edition, and Bedrock edition, dated 2011).
C	Geological Survey of Great Britain National Grid Series 1:10,560 scale geological map (Sheet SS79SW, dated 1970).
D	Barclay, W.J. 2011. Geology of the Swansea district — a Brief Explanation of the Geological Map. Sheet Explanation of the British Geological Survey. 1:50,000 scale Sheet 247 Swansea (England and Wales).
E	BGS Lexicon of Named Rock Units https://www.bgs.ac.uk/technologies/the-bgs-lexicon-of-named-rock-units/ , accessed 27 th January 2025.
F	BGS GeoIndex https://mapapps2.bgs.ac.uk/geoindex/home.html , accessed 27 th January 2025.
G	Mining Remediation Authority (MRA) CON29M Coal Mining Report (Report ref 51003475628001), dated 27 th January 2025; copy in Appendix C.
H	MRA online interactive map viewer https://datamine-cauk.hub.arcgis.com/ , accessed 27 th January 2025.
I	Neath Port Talbot County Borough Council Local Development Plan https://maps.npt.gov.uk/ldp_final/index.html
J	Zetica UXO Risk Maps https://zeticauxo.com/downloads-and-resources/risk-maps/ , accessed 27 th January 2025.

2. Desk Study

2.1 Introduction

The following section summarises the pertinent information reviewed to inform this Preliminary Appraisal using the sources outlined within Table 1.1.

2.2 Site Details

A summary of the pertinent Site details as shown on site plans and from a walkover undertaken by a Sirius environmental consultant on 6th February 2025 is provided in Table 2.1, below.

Table 2.1 - Site Details

Location	The Site is located approximately 3km north-west of Port Talbot town centre. A site location plan is provided as Sirius Planning Ltd Drawing No. PRO1013/01/01, within Appendix A.
Site Area	Approximately 0.6 hectares.
National Grid Reference	274300, 192340.
Site Description	Approximately half of the Site area is surfaced with asphalt, with the north-west and south-west being surfaced with stone chippings. There are also foundations associated with the previous workshops in the south-west, with disused water and electrical service connections evident. The majority of the Site is used to store containerised temporary site accommodation, with small areas used to store construction materials and wooden pallets. There are a small number of skips containing general construction waste. Containerised hydrogen production plant is also being temporarily stored within the site. A Site Features Plan is included as Drawing No. C10398/02, in Appendix A.
Site Boundaries and Surrounding Land Use	The Site boundary is marked by a steel palisade fence. The Site is bound to the north, east and south by similar storage yard type land uses. To the west, the Site is bound by mature trees, beyond which lies Central Avenue.
Topography	A topographical survey for the Site (GDI Design Ltd Drawing No. GDI-SIRIUS-001-001) shows that the site lies at an average elevation of c. 6m above Ordnance Datum (AOD) and slopes down gently from west to east.
Evidence of Fly-Tipping on Site?	No evidence of significant fly-tipping was identified on site during the Site walkover.

2.3 Site History

Table 2.2 presents a summary of the Site history from 1876 to 2024, using historical maps presented in the Envirocheck report obtained for the Site (ref. A) and aerial imagery available online. It is not the intention of this report to describe in detail all of the changes that have occurred on or adjacent to the Site, only those pertinent to the Proposed Development.

Table 2.2 - Site History (all distances are approximate)

Map Dates	On-Site Features	Pertinent Off-Site Features (within 500m of the site boundary)
1876 – 1970	The Site is undeveloped, part of the wider Baglan Moors.	There is a land drain a short distance to the east of the Site. There is a Rifle Range c. 350m to the north. A second Rifle Range is located c. 100m to the west from the 1921 map. Park Colliery is located c. 400m to the north-east (noted to be disused on the 1921 map).
1977 – 1999	The Site is located within a wider area of Works, although no buildings or structures are mapped on the Site itself.	There are Works buildings in proximity to the Site, to the east, south and west, including several Tanks and an Electricity Substation. The land drain to the east of the Site is no longer shown.
2000 (aerial photograph)	The Site appears to comprise mostly unmade ground and vegetation, with apparent storage of waste materials.	Industrial buildings and associated external storage areas surround the site to the north, east and south.
2002 – 2006 (aerial imagery)	The central part of the Site comprises an asphalt-surfaced car park. The north appears to be a stone-surfaced area for storing containers. There is an industrial type building in the south-western corner.	No significant changes noted.
2009 – 2024 (aerial imagery)	The building in the south-west of the Site has been removed, with the Site being used to store containers and various other items.	No significant changes noted.

2.4 Geological Setting

A summary of geological information reviewed in this assessment is provided in Table 2.3.

Table 2.3 - Geological Summary

Information Sources	Refs. A – H.
Made Ground	The 1:50,000 scale geological map shows that the Site is underlain by Made Ground, comprising, <i>'mainly colliery and mineral smelting spoil'</i> .
Superficial Deposits	The BGS Geology Viewer shows that the Site is underlain by Tidal Flat Deposits, comprising clay, silt and sand. The 1:50,000 scale geological map shows that superficial deposits are 25 – 40m thick beneath the Site.

Solid Geology	The drift is reported to be underlain by undifferentiated strata of the South Wales Lower Coal Measures Formation (SWLCMF; mudstone, siltstone and sandstone). Strata within the same fault block as the site are shown to dip to the north, at angles of 26 – 40 degrees.
Coal Seams	The 1:10,560 scale geological map shows that the shallowest coal seam beneath the Site is conjectured to be the Gellideg seam, which is noted to be 1.2m to 2.5m thick in the geological memoir. The next oldest seam beneath the Gellideg seam is the Garw seam, noted to lie c. 52m below the Gellideg seam.
Faults	None shown to affect the Site.
BGS Borehole Records	The closest record to the Site is BGS ref. SS79SW64, located c. 190m south of the Site. This is a cable percussion borehole dated 1989 and records made ground comprising slag, gravel, cobbles, sand and brick, to 0.45m below ground level (bgl). This was underlain by natural soils, comprising medium dense sand to 2.0m bgl, and soft to firm clay to the base of the borehole (11.3m bgl).

2.5 Mining and Quarrying

A summary of mining and quarrying information reviewed in this assessment is provided in Table 2.4.

Table 2.4 - Mining and Quarrying

Information Sources	Refs. A, G, H & I.
Coal Mining	The Site is located within a Coal Mining Reporting Area but is not within a Development High Risk Area. The Site is not affected by any recorded coal mine workings, nor any proposed future coal mine workings. There are no recorded mine entries within the Site, or within 20m of the site.
Other Mining / Quarrying	The Envirocheck report states that it is Highly Unlikely that the Site is affected by non-coal mining. There are no BGS Recorded Mineral Sites within 1km of the property, other than an opencast sandstone extraction, located 631m north of the Site (and therefore outside the area of deep drift deposits within which the Site is situated). There are no indications on the historical OS maps that quarrying or mineral extraction have been undertaken on the Site.
Mineral Safe-Guarding	The Site is located within an area for Safeguarded Coal Resource on the local authority's Local Development Plan (Ref. I).

2.6 Environmental Setting

A summary of relevant available information pertaining to the environmental setting of the Site is provided in Table 2.5.

Table 2.5 - Environmental Summary

Category	Data Source	Summary
Landfilling and Waste	A	No landfills are recorded within 1km of the Site. Linear zones of Potentially Infilled Land, corresponding to historical land drains, are recorded from 19m east of the Site. An active Licensed Waste Management Facility, comprising an asbestos waste transfer station, is recorded, located adjacent to the east of the Site.
Hydrology	A	Classified watercourses (within 500m), unclassified watercourses, OS water network lines (within 500m) The closest named water course to the site is Baglan Brook, located c. 260m north-east of the Site, running parallel to, and on the opposite side of, the M4 motorway. Licensed surface water abstractions (within 1km) None recorded. Other surface water features (Canals, Ponds, Lakes, etc.) (within 250m) None evident. The Site is in flood zone 2 and 3.
Hydrogeology	A	Licensed Groundwater Abstractions (within 1km) None recorded. Source Protection Zones (within 500m) None recorded. Springs None recorded within 500m of the Site on recent OS mapping. Aquifer status Superficial Deposits – Secondary Undifferentiated Aquifer, defined as ‘<i>aquifers where it is not possible to apply either a Secondary A or B definition because of the variable characteristics of the rock type. These have only a minor value</i>’. Bedrock – Secondary A Aquifer, defined as ‘<i>permeable layers that can support local water supplies, and may form an important source of base flow to rivers</i>’. Groundwater Flooding The Site is located within an area with potential for groundwater flooding to occur at surface.
Radon	A	The property is in a lower probability radon area (less than 1% of homes are estimated to be at or above the action level). No radon protection measures are necessary in the construction of new dwellings or extensions.
UXO	J	Zetica online mapping records the Site to be in a Low risk area with regards to unexploded World War II bombs.
Ground Gas Risk Assessment Required?		No – no significant potential ground gas sources identified.

2.7 Other Potentially Contaminative Activities

Other potentially contaminative activities or environmental constraints are listed in Table 2.6 below. The entries relate to activities within 250m of the Site, with the exception of hazardous substance facilities, where the assessment is extended to a distance of 1km from the Site. Only entries which are considered to potentially influence the Site are listed in the below table.

Table 2.6 - Other Potentially Contaminative Activities

Category	Data Source	Summary
Contemporary Trade Directory Entries	A	There are 9 No. active entries within 250m of the Site, including for commercial cleaning services, tyre dealers, engineers – general, laboratories and mechanical handling engineers.
Discharge Consents	A	There is one Expired discharge consent, located 233m south-east of the Site, for discharge of roof water to the River Afan.
Integrated Pollution Prevention and Controls (IPPC)	A	There is one entry, located 163m south, for BP Chemicals at Baglan Bay Works (Works), for an application for authorisation (but not yet authorised) relating to organic chemicals. It should be noted that the Baglan Bay Works was located to the west and south-west of the Site and closed in the early 21 st Century.
Hazardous Substances	A	There are three records located 535m – 860m west of the Site, for upper tier Control of Major Accident Hazard (COMAH) Sites, relating to the former BP Chemicals Baglan Bay Works. There is also an inactive Notification of Installations Handling Hazardous Substances (NIHHS) entry and several entries for Planning Hazardous Substances Consents, relating to the former Baglan Bay Works.

2.8 Local Authority Information

The local authority's planning portal website was searched for ground investigation information relating to the Site or nearby land. No planning applications with intrusive site investigations were found within 250m of the Site.

3. Preliminary Risk Assessment

3.1 Preliminary Conceptual Site Model

Based on the desk study information, a combined preliminary conceptual site model (PCSM) has been developed for the proposed future land use. This summarises the current understanding of surface and sub-surface features and the potential contaminant sources, transport pathways and receptors present to identify potential contaminant linkages.

A qualitative risk assessment has also been made of each identified contaminant linkage following the methodology described in Appendix D.

The schematic PCSM is included as Drawing No. C10398/03 in Appendix A.

3.2 Potential Sources of Contamination

A review of the Site history, current condition and environmental setting has identified a number of potential contaminant sources for the site and surrounding area, as summarised in Table 3.1.

Table 3.1 – Potential Contaminant Sources

Source	Potential Contaminants	Location
Made ground (colliery spoil and / or smelting residue on geological mapping)	Heavy metals, polycyclic aromatic hydrocarbons (PAH)	On Site (and all surrounding land).
Potential historical waste storage as part of wider works	Heavy metals, PAH, petroleum hydrocarbons, and asbestos.	On Site

3.3 Potential Contaminant Linkage Risk Assessment

The potential contaminant sources and pathways have been assessed to determine the likelihood of a linkage between the contaminant source and the receptor. The risk assessment is detailed in a table included with a schematic drawing of the PCSM (Drawing No. C10398/03) in Appendix A.

In summary, the PCSM has identified the following potential pollutant linkages:

- Exposure by direct contact and ingestion of soils, and inhalation of dust / particles, potentially containing heavy metals, petroleum hydrocarbons and PAH present in made ground, to future site users. Assessed as a **Low** risk, due to the presence of hard standing / clean stone surfacing across the site and the lack of occupied structures following development.
- Inhalation of asbestos fibres and / or hydrocarbon vapours released from made ground by future site users. Assessed as a **Low** risk, due to the presence of hard standing / clean stone surfacing across the Site. Furthermore, CIRIA Report C735 (Ref. 26 in Appendix E) states that modular / prefabricated buildings may be constructed on legs, with a void formed below the building, which provides some intrinsic protection against ground gas / vapour ingress into the occupied spaces, so long as the void is not enclosed, e.g., for aesthetic or insulation reasons.
- Leaching and migration of contaminants from made ground (as listed above, except asbestos) into controlled waters (groundwater). Assessed as a **Low** risk, due to the low likelihood of significant mobile historical contamination at the Site, and the relatively low sensitivity hydrogeological and

hydrological setting of the Site (i.e., Undifferentiated Aquifer, with no groundwater or surface water abstractions within 1km of the Site, and no surface water bodies in proximity to the Site).

4. Conclusions and Recommendations

4.1 General

The Proposed Development is described in detail in the Planning Statement which accompanies the application, but in summary will not include any new occupied buildings, but comprises chiefly containerised green hydrogen production and electrical switching equipment, as well as other external plant, supported on the existing and proposed extended hardstandings.

If the development proposals are altered, this report will require review and possibly revision.

4.2 Geotechnical

4.2.1 Coal Mining Risk Assessment

The Site is not located within a coal mining Development High Risk Area, however, the MRA records do not indicate any past coal mine workings (deep or shallow) or mine entries beneath the Site. Based on the published geology, and MRA records, i.e., deep drift deposits including sand and gravel, overlying the Coal Measures strata, it is considered that the risk of surface stability at the Site being affected by past coal mining activities is **low**.

4.2.2 Mineral Safeguarding

The Site is located within an area for Safeguarded Coal Resource on the local authority's Local Development Plan. However, given the small size of the site, it is considered unlikely that this would affect the Proposed Development.

4.2.3 Foundations

It is understood that the proposed hydrogen production and distribution plant will be containerised and supported by the existing and extended hardstandings, and will therefore not require foundations.

It is assumed that the modular office building will be lightly loaded and supported on jack legs, directly bearing on to existing stone surfacing. In this case, it is considered unlikely that significant settlement relative to the surrounding surface would occur, and any that did could be remedied by adjustment to the jack legs.

4.3 Contamination and Ground Gas

4.3.1 Risk Evaluation for the Proposed Land Use

Although historical deposition of made ground (colliery and / or mineral smelting spoil) and possible historical waste storage may have resulted in shallow soil contamination at the Site, there are to be no plausible exposure pathways to future site users following development, due to the presence of hard surfacing and clean stone capping across the Site, and lack of occupied buildings. Similarly, there are to be no plausible significant contaminant migration pathways to controlled waters receptors, due to the relatively low sensitivity hydrogeological and hydrological setting of the Site.

It is therefore concluded that no significant contaminant linkages affect the Proposed Development, and that the risk to any potential receptors present is **Low**, as defined in the quantitative risk assessment methodology described in Appendix D. Accordingly, no further site investigation or specific remedial works are considered necessary in this respect.

4.3.2 Ground Gas Risk Assessment

No significant potential sources of hazardous ground gas have been identified that may affect the Site, including mines gases and radon.

Furthermore, CIRIA Report C735 states that modular / prefabricated buildings may be constructed on legs, with a void formed below the building, which provides some intrinsic protection against ground gas ingress into the occupied spaces, so long as the void is not enclosed, e.g., for aesthetic or insulation reasons.

Therefore, the risks from hazardous ground gases following development are considered to be low, with no further works required in this respect.

4.4 Invasive Plant Species

It is understood that the planning application is supported by an ecological survey, and that recommendations have been given for management of invasive plant species.

4.5 Unexploded Ordnance

Based on information obtained, no additional works related to UXO are required for the Site.

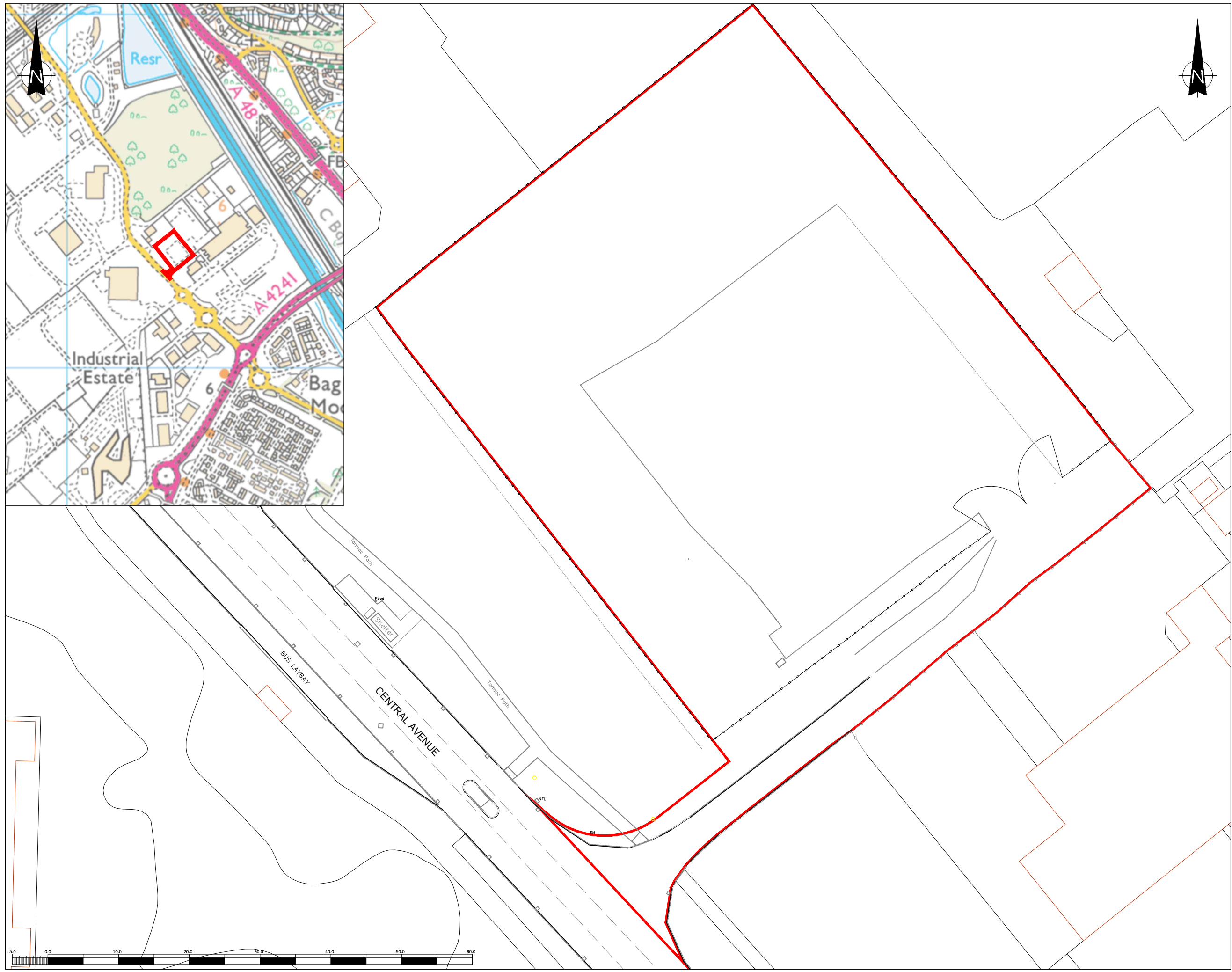
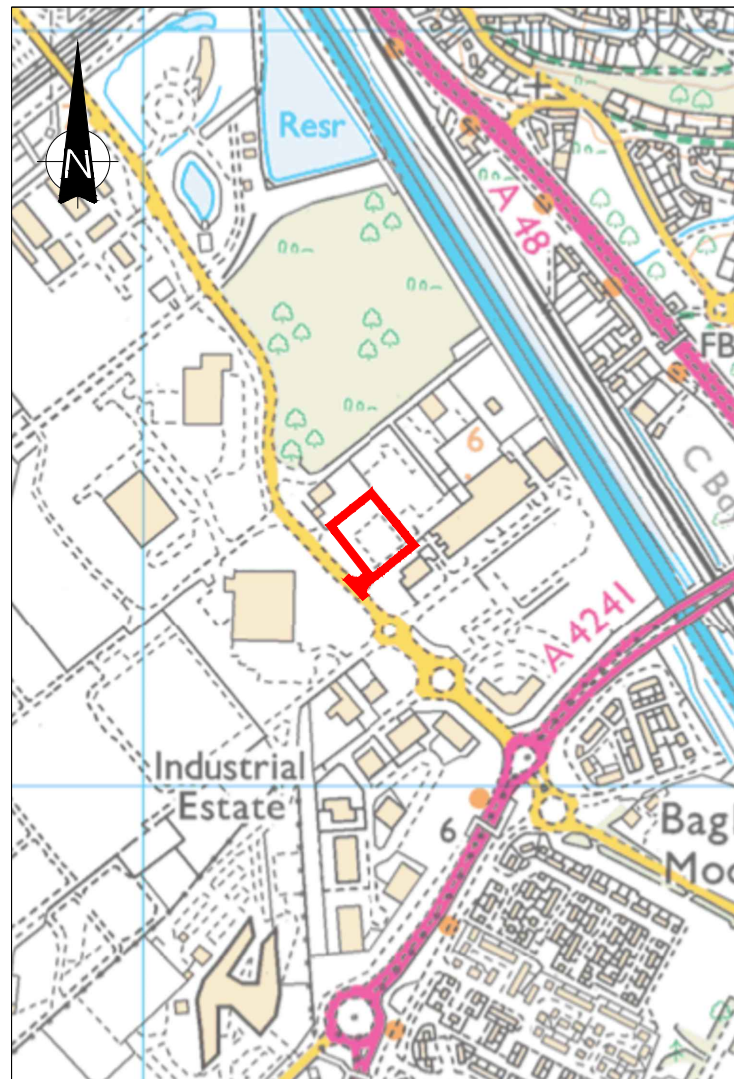
5. Regulatory Approvals

The conclusions and recommendations presented above are considered reasonable based on the findings of the desk-based assessment. However, these cannot be guaranteed to gain regulatory approval and, therefore, the report should be passed to the appropriate regulatory authorities and/or other relevant organisations for their comment and approval prior to undertaking any works on Site.

APPENDICES

APPENDIX A

Drawings



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KEY

— SITE BOUNDARY

REV	DESCRIPTION	DATE	BY
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PROTIUM

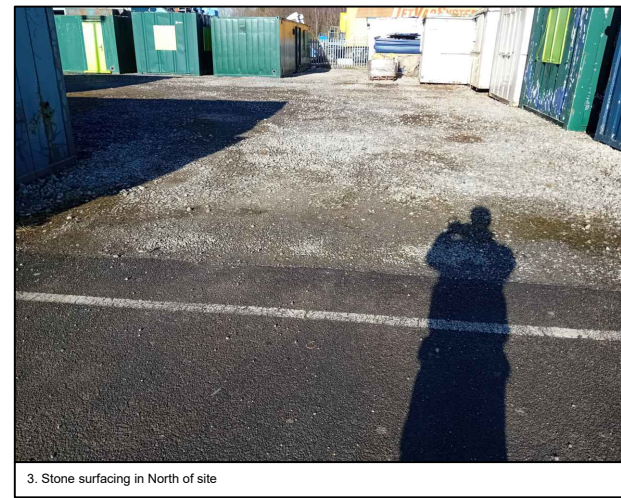
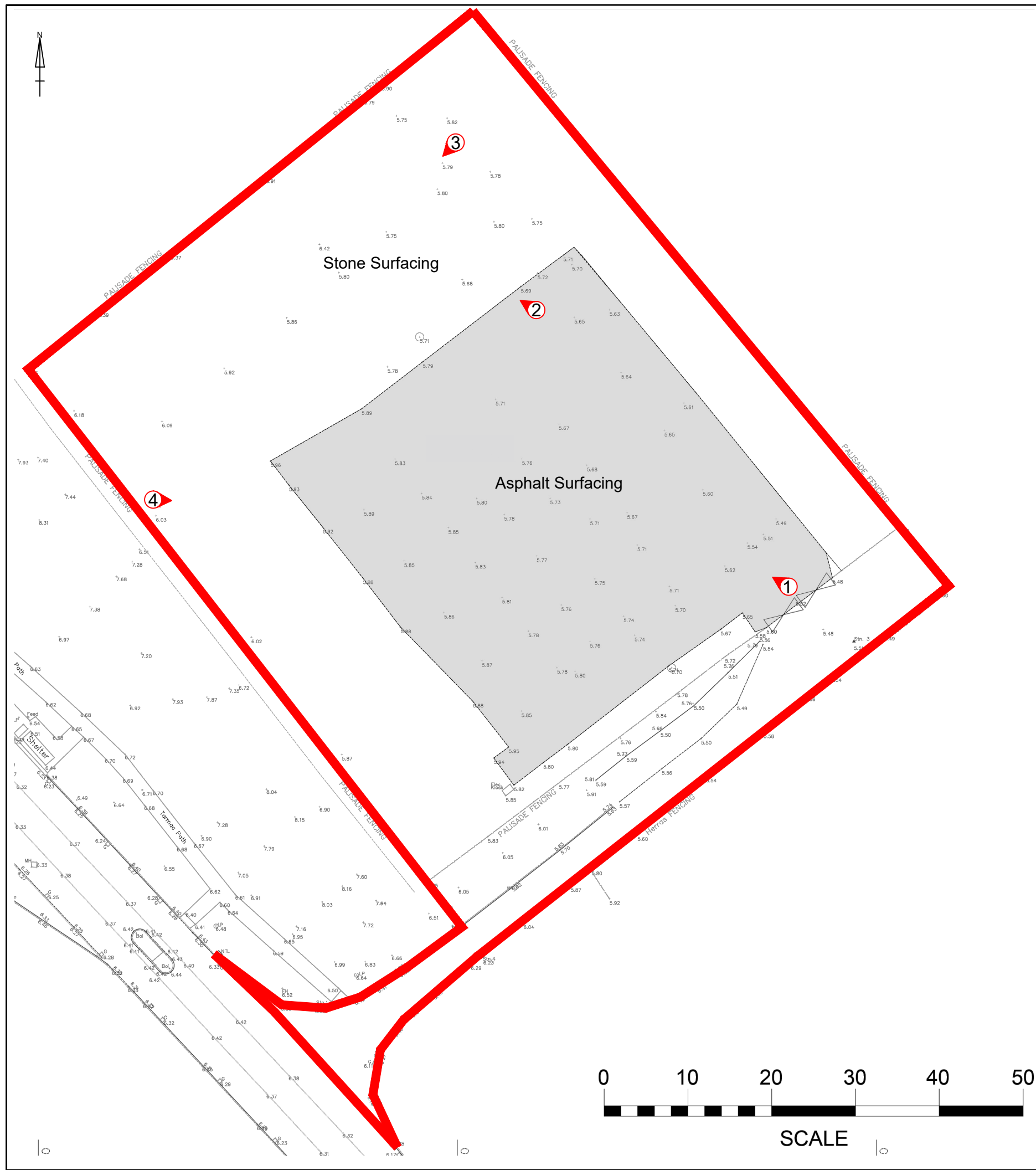


4245 Park Approach, Thorpe Park, Leeds. LS15 8GB. 0113 264 9960

JOB TITLE
RE PLANT, PORT TALBOT
PROPOSED HYDROGEN
PRODUCTION FACILITY

DRAWING TITLE
SITE LOCATION PLAN

DRAWN	DATE	APPROVED	DATE
S.T	11/3/2025	F.W	11/3/2025
SCALE	SHEET	DRAWING NUMBER	REVISION
1:10000 1:500	A3L	PRO1013/01/01	0



KEY

- Site Boundary
- Photo Location and Direction

Notes

- This drawing should not be viewed in isolation from the accompanying report.
- All exploratory hole locations are approximate and based on handheld GPS coordinates unless stated otherwise on the exploratory hole logs.
- The locations of services shown on this drawing are approximate and are based on utility plans provided by the client. Locations of services are given for the purposes of indicating constraints to the site investigation only. Reference should be made to original utility plans and HSG47 for locating of services within the site.
- All marked site features (including historical features, mining features (ie, opencast boundaries and mineshafts), potential contaminant constraints, and any other potential constraint or feature of note) shown on this drawing are given for indicative purposes only. This drawing should not be underlaid in isolation to determine proposed development layouts. Reference should be made to the accompanying report for commentary on the potential location of these features including coordinates if available and any further works required to locate features if required.

REVISION		BY	DATE
0	For Information	MF	13/02/25
A	>>	>>	>>
B	>>	>>	>>
C	>>	>>	>>
D	>>	>>	>>

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CLIENT

Sirius Planning Ltd on behalf of Protium Green Hydrogen Supply Ltd

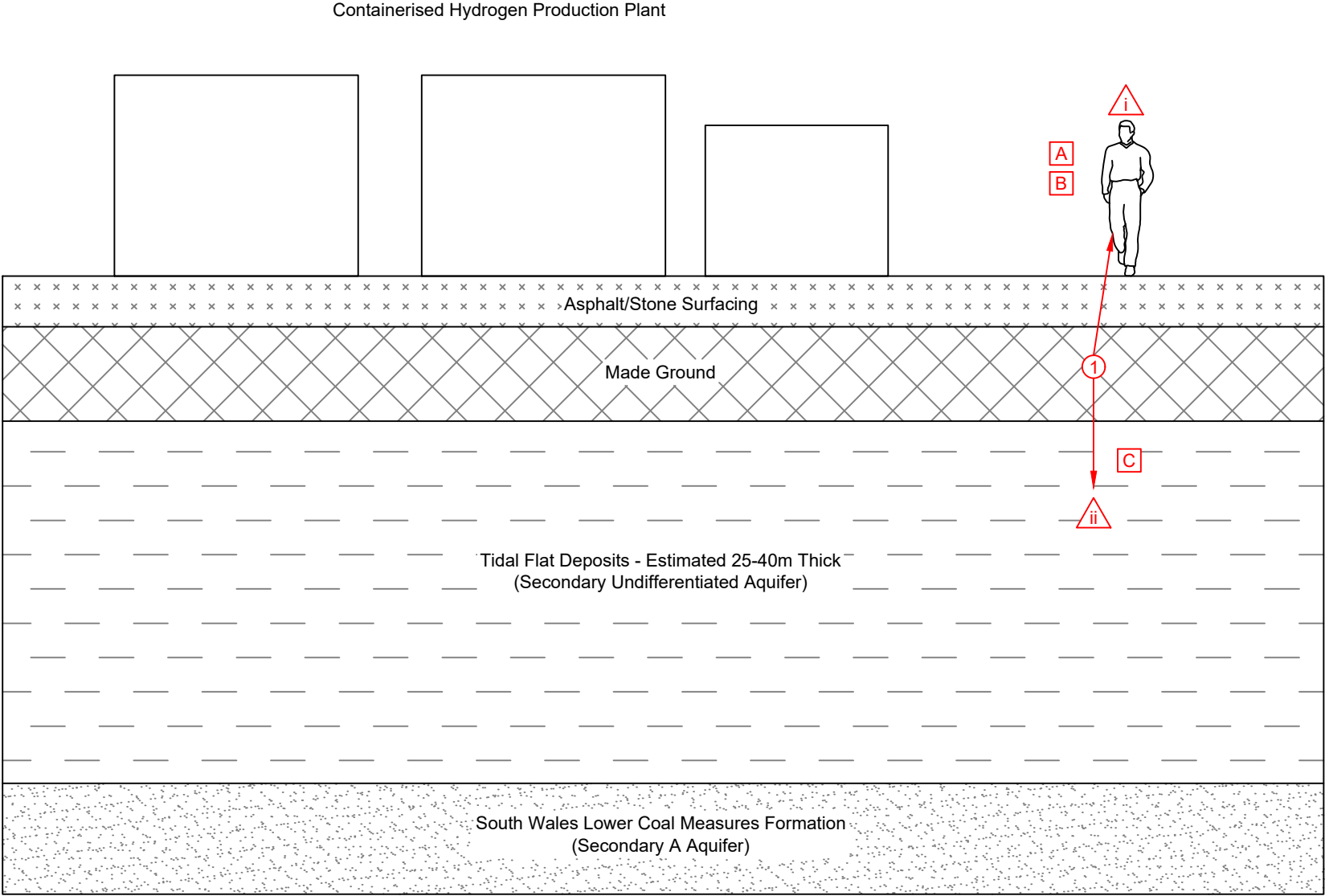
SITE

Land off Central Avenue, Port Talbot

DRAWING TITLE

Site Features Plan

DRAWING NO. C10398/02	REVISION NO. 0
DRAWN BY MF	APPROVED BY AMG
DATE February 2025	SCALE 1:500
	PAPER SIZE A3



Potential Contaminant Source	Potential Migration Pathway	Potential Receptor	Risk of Significant Contaminant Linkage
1. Elevated concentrations of heavy metals, petroleum hydrocarbons, PAHs and asbestos within made ground.	A. Exposure via dermal contact, soil ingestion and dust inhalation.	i. Future site users.	Low, due to presence of hard surfacing across the site.
	B. Exposure via vapour inhalation (organic contaminants only).	i. Future site users.	Low, due to lack of occupied buildings, other than modular office / welfare building.
	C. Leaching and migration into controlled waters.	ii. Secondary undifferentiated aquifer	Low, due to low sensitivity of hydrogeological and hydrological setting of the site.

NOTES

REVISION		BY	DATE
0	For Information	MF	11/02/25
A	>>	>>	>>
B	>>	>>	>>
C	>>	>>	>>
D	>>	>>	>>

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of Protium Green Hydrogen
Supply Ltd

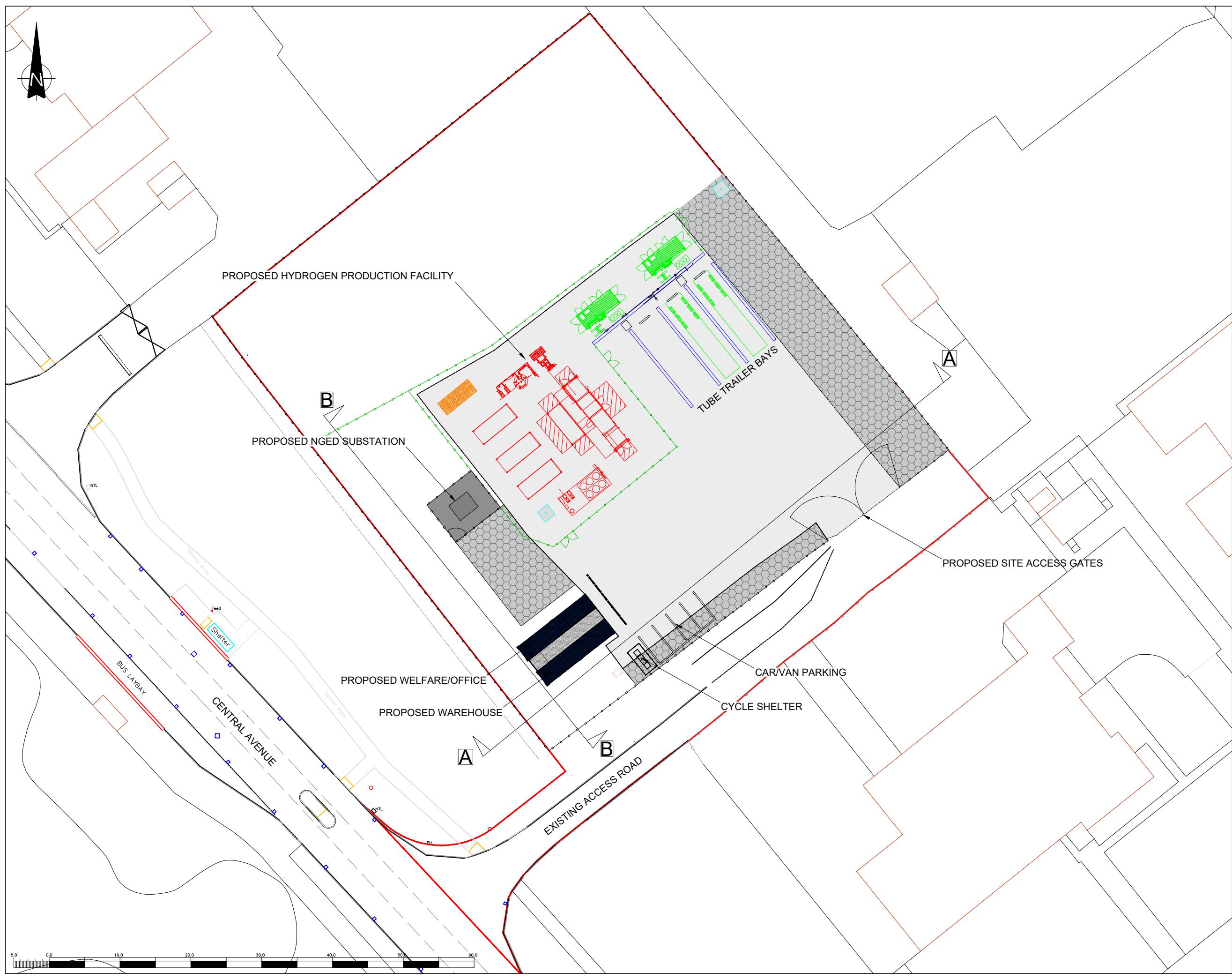
SITE

Land off Central Avenue,
Port Talbot

DRAWING TITLE

Preliminary Conceptual
Site Model

DRAWING NO. C10398/03	REVISION NO. 0	
DRAWN BY MF	APPROVED BY AMG	
DATE February 2025	SCALE NTS	PAPER SIZE A3



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NOTES

1. SEE DRAWING NUMBER PRO1013/01/06 FOR SECTIONS

KEY

- PLANNING APPLICATION BOUNDARY
- EXISTING 1.8m HIGH HERAS FENCE
- EXISTING 2.4m HIGH PALISADE FENCE
- PROPOSED 2.4m HIGH PALISADE FENCE
- PROPOSED ARMCO BARRIER
- EXISTING TARMAC
- PROPOSED CONCRETE
- EXISTING PERMEABLE AREAS

REV	DESCRIPTION	DATE	BY

CLIENT

PROTIUM

sirius Planning

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JOB TITLE

RE PLANT, PORT TALBOT
PROPOSED HYDROGEN
PRODUCTION FACILITY

DRAWING TITLE

PROPOSED SITE LAYOUT

DRAWN	DATE	APPROVED	DATE
S.T	31/3/2025	F.W	31/3/2025

SCALE	SHEET	DRAWING NUMBER	REVISION
1:500	A3L	PRO1013/01/03	0