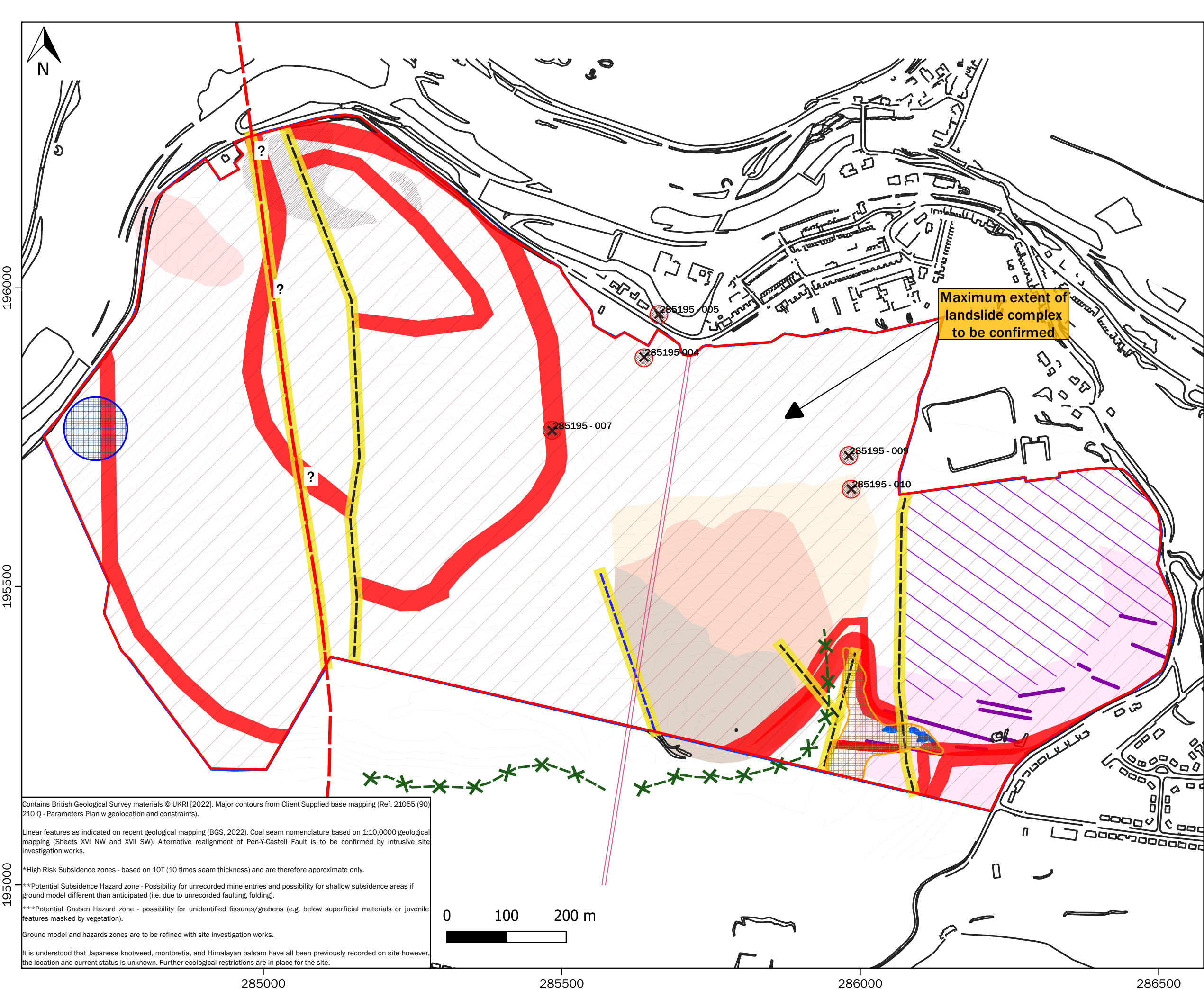




esp

ENGINEERS
GEOLOGISTS
SCIENTISTS

Key:

Site Boundary

Landslides

Landslide 1

Landslide 2

Maximum Extent of central landslide complex

Possible Debris Slide

Rock blocks

Coal Mining

High Risk Shallow Subsidence*

×

Mine Entry

30m (Diameter) Exclusion Zone

Probable Mine Entries

✕

Line of Adits

Potential Subsidence Hazard Zone**

Other Geotechnical Risks

Deep Peat Extents (ESP, 2022)

Fault Reactivation Zone (BGS Mapped Faults
Exact location and buffer zone to be confirmed)

Suspected Unmapped Fault

Alternative Pen-y-Castell Fault Alignment

Possible Sag Pond

Graben Zone

Grabens

Potential Graben Hazard Zone***

Cymmer Tunnel (Disused)
Tunnel easement to be confirmed.

SCALE: 1:6,000 (approx. @ A3)

PROJECT:

**PROPOSED ADVENTURE PARK,
AFAN VALLEY RESORT**

FIGURE 11:

**PRELIMINARY GEOTECHNICAL
HAZARDS PLAN**

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Contains British Geological Survey materials © UKRI [2022]. Major contours from Client Supplied base mapping (Ref. 21055 (90) 210 Q - Parameters Plan w geolocation and constraints).

Linear features as indicated on recent geological mapping (BGS, 2022). Coal seam nomenclature based on 1:10,0000 geological mapping (Sheets XVI NW and XVII SW). Alternative realignment of Pen-Y-Castell Fault is to be confirmed by intrusive site investigation works.

*High Risk Subsidence zones - based on 10T (10 times seam thickness) and are therefore approximate only.

**Potential Subsidence Hazard zone - Possibility for unrecorded mine entries and possibility for shallow subsidence areas if ground model different than anticipated (i.e. due to unrecorded faulting, folding).

***Potential Graben Hazard zone - possibility for unidentified fissures/grabens (e.g. below superficial materials or juvenile features masked by vegetation).

Ground model and hazards zones are to be refined with site investigation works.

It is understood that Japanese knotweed, montbretia, and Himalayan balsam have all been previously recorded on site however, the location and current status is unknown. Further ecological restrictions are in place for the site.