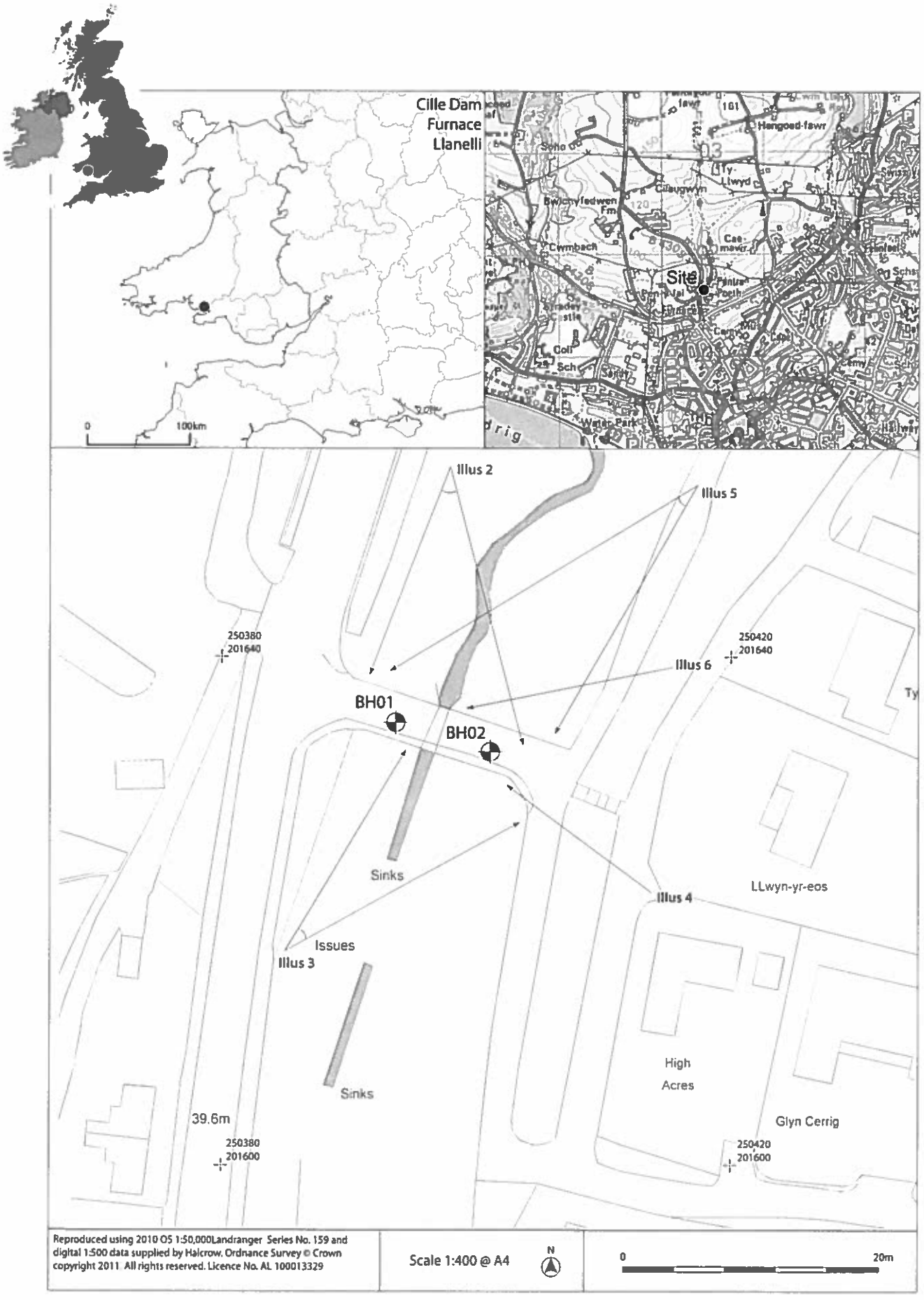
PROJECT SUMMARY SHEET

Client	HALCROW GROUP LTD
National Grid Reference	SN 250397 201637
Council	CARMARTHENSHIRE
Listed Building Consent Application No.	TA/S/65091
HAS No	869
Listing Category	GRADE II
Project Manager	ANDY BOUCHER
Text	LISE BREKMOE
Graphics	CAROLINE NORRMAN & THOMAS SMALL
Fieldwork	LISE BREKMOE
Schedule	
Fieldwork	1ST FEBRUARY 2011
Report	4TH FEBRUARY 2011

Signed off by: .....
Andy Boucher, Project Manager
Date: 9/2/11



Illus 1
Site location

Illus 3
North-facing photograph showing downstream face of dam

2. METHOD

The assessment consisted of a walkthrough of the site with photographic recording and drawn records of the dam's overall condition, damage and historic features. Photographs were taken using a digital camera, colour slide and black and white print film.

3. RESULTS

The dam is built of roughly cut, coarse stone of a local origin and measures approximately 36m (length of crest east – west) by 6m (width of crest north – south). The height of the masonry work is approximately 3m from earth embankment to top of crest wall on the upstream face and approximately 4m from earth embankment to top of crest wall in downstream face.

A borehole survey undertaken prior to the building of the new culvert in 1991 revealed that the core fabric of the dam consists of up to 4.5 metres of a loose to medium dense made ground. The make up comprises loose to medium dense silty sandy gravel (the gravel consisting of ash, slag, brick and natural material) and some cobble size material. The made up ground overlies silts and gravels (Thyssen Construction Service Ltd 1991).

3.1 Crest

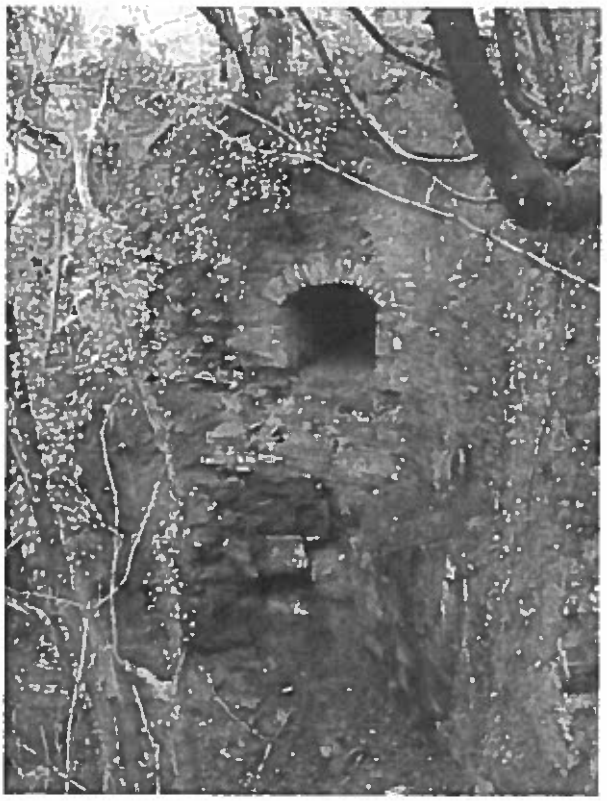
The crest is used as an access road between the houses at Glyncoed to the east of the dam and the B4309 to the west. It is covered in tarmac and no original surfaces or features are visible on the crest. The walls running east - west along the upstream and downstream faces of the dam only partially survive and have been replaced by a chain link fence.

3.2 Downstream face

The downstream face underwent repairs during the construction of the new culvert in 1991 and is in an overall good condition. Some localized root disturbance is evident along the east wall and western end of the downstream face, but this does not appear to have caused any movement to the surrounding masonry at present.

Considerable damage is visible in its eastern corner where the downstream end of the overflow culvert is positioned (Illus 4). Root penetration is likely to have caused the damage and movement directly to the west of the overflow culvert, causing the outward collapse of masonry and loss of pointing. There is also considerable damage below the overflow culvert, which is the area of leakage addressed by the construction of the new culvert in 1991 (Binnie & Partners 1991).

Evidence of the construction of the dam is visible in the eastern corner of the dam where explosive were used to remove bedrock to a depth of 2 metres. The bedrock in the area comprises of the Hughes Beds from the Upper Pennant Measures of Carboniferous Age (Thyssen Construction Services Ltd 1991). The dam was built directly onto the



Illus 4
North-facing photograph showing overflow culvert and damage in eastern corner of downstream face of dam

6. APPENDICES

Appendix 1 – Site register

Photographic register

Photo no.	Colour slide	Monochrome	Digital	Direction facing	Description
1	502/1	498/1	2001	N/A	ID shots
2	N/A	N/A	2002	W	Crest looking west
3	N/A	N/A	2004	E	Crest looking east
4	N/A	N/A	2005	N	Crest wall on west side of upstream face
5	N/A	N/A	2006	N	Crest wall on east side of upstream face
6	N/A	N/A	2007	S	Crest wall on east side of downstream face
7	N/A	N/A	2008	SW	Crest wall on east side of downstream face
8	N/A	N/A	2009	SW	View downstream from crest of dam
9	N/A	N/A	2010	S	View downstream from crest of dam
10	N/A	N/A	2011	SE	View downstream from crest of dam
11	N/A	N/A	2013	NE	View upstream from crest of dam
12	N/A	N/A	2014	NW	View upstream from crest of dam
13	N/A	N/A	2015	NNW	Downstream face of dam and vegetation from road
14	N/A	N/A	2016	S	Area of proposed borehole 2 on crest
15	N/A	N/A	2017	S	Area of proposed borehole 1 on crest
16	502/2	498/2	2018	N	Overflow culvert in downstream face, east side of dam
17	N/A	N/A	2019	N	Overflow culvert in downstream face, east side of dam
18	N/A	N/A	2020	NW	Downstream face of dam from road
19	N/A	N/A	2021	N	Damage around auxiliary spillway
20	502/3	498/3	2022	N	Modern culvert
21	502/5	498/4	2023	S	Looking downstream from foot of dam
22	N/A	N/A	2025	E	Drain and construction details in east wall
23	N/A	N/A	2026	N	Overflow culvert in downstream face: damage and construction details
24	N/A	N/A	2027	N	Earth embankment and downstream face
25	N/A	N/A	2028	E	Close up of construction details, east wall
26	N/A	N/A	2032	NNE	Close up of damage at base of dam under overflow culvert
27	N/A	N/A	2034	NNE	Close up of damage and enforcement around overflow culvert
28	N/A	N/A	2035	NNE	Close up of damage and enforcement around overflow culvert
29	N/A	N/A	2036	N	Downstream face of dam, modern sluice gate, east side of dam
30	502/6	498/5	2037	N	Close up of downstream face
31	N/A	N/A	2038	N	Close up of downstream face
32	N/A	N/A	2039	NNW	Close up of downstream face and vegetation
33	N/A	N/A	2040	NNW	Close up of downstream face and vegetation