

CPAT Report No. 1346



Legacy to Oswestry 132kv powerline

Cultural Heritage Mitigation Works



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Summary

The Field Services Section of the Clwyd-Powys Archaeological Trust, acting as archaeological consultants for Iberdrola Engineering and Construction, have undertaken a programme of mitigation works associated with the construction of a new 132kV powerline between substations at Legacy, near Wrexham, and Oswestry.

An Environmental Statement was prepared in 2009, and updated in 2012, in support of an application for the powerline, which was required as a reinforcement to the existing distribution network between Legacy, near Wrexham, and Oswestry. The line consists of 20.6km of overhead line, carried on wooden poles, and 3km of underground connection.

The Environmental Statement included a range of mitigation measures, including geophysical survey and evaluation prior to construction, a survey of historic hedgerows and a watching brief during soil stripping and for poles erected close to known heritage assets. The programme of works was undertaken between September 2014 and March 2015.

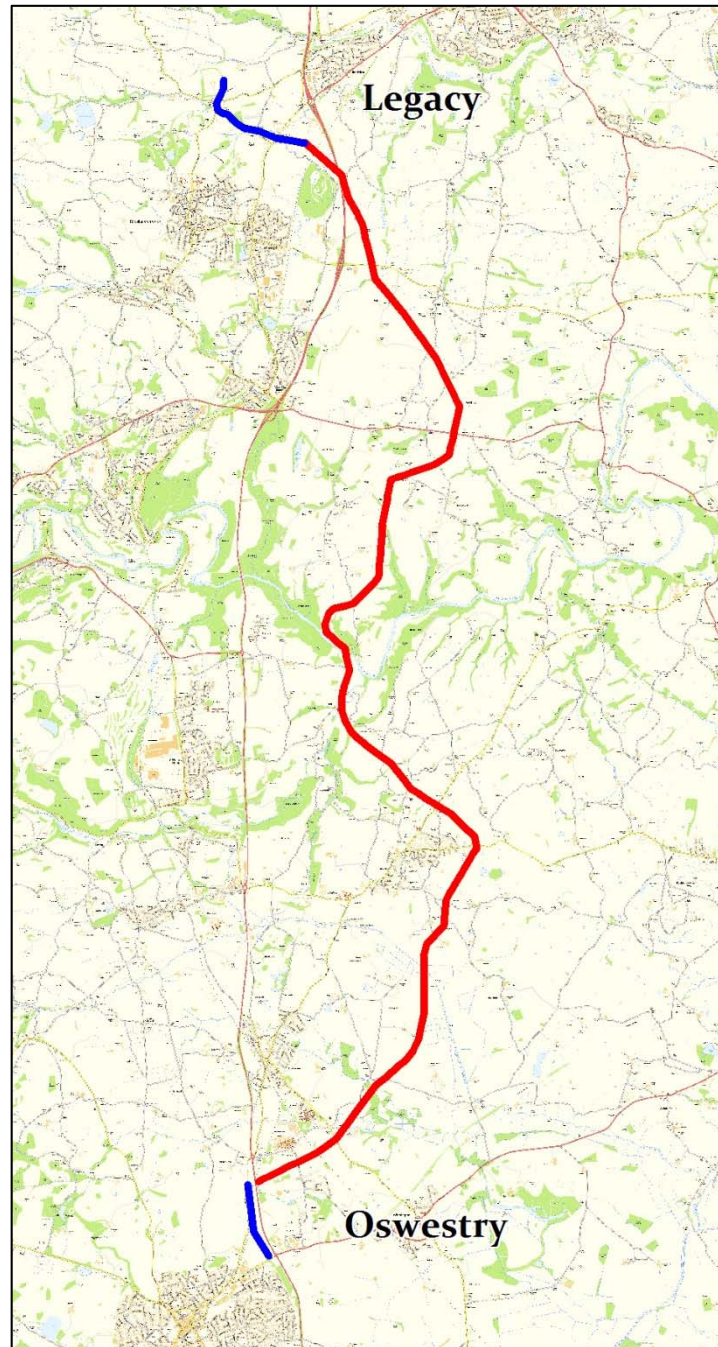
A geophysical survey at Cae Gosper, near Ruabon, failed to locate any subsurface remains associated with the site of a lost medieval chapel and a watching brief during the erection of poles in this area also produced no archaeological evidence.

A small-scale evaluation was conducted along the projected line of an unscheduled section of Wat's Dyke, near St Martins, close to a known section confirmed by excavation in 2003. The work was conducted in order to assess the impact of one of the poles and associated stays. Despite their proximity to the known section the recent excavations produced no evidence for either the ditch or bank of Wat's Dyke at this location. A number of watching briefs during the erection of poles also failed to produce any evidence for archaeological deposits.

Monitoring of soil stripping for underground sections of the scheme at Oswestry and Legacy produced limited archaeological returns, comprising part of the Park Hall army camp and the foundations of a small building.

1 Introduction

- 1.1. The Field Services Section of the Clwyd-Powys Archaeological Trust (CPAT), acting as archaeological consultants for Iberdrola Engineering and Construction, were engaged to undertake a programme of mitigation works associated with the construction of a new 132kV powerline between substations at Legacy, near Wrexham, and Oswestry.
- 1.2. An Environmental Statement was prepared in 2009, and updated in 2012, in support of an application for the powerline, which was required as a reinforcement to the existing distribution network between Legacy, near Wrexham, and Oswestry. The line consists of 20.6km of overhead line, carried on wooden poles, and 3km of underground connection (Fig. 1). A watching brief was undertaken as part of the mitigation works for the installation of the underground cabling in January 2015 (Watson 2015).
- 1.3. The Environmental Statement included the results from a desk-based archaeological assessment and field survey carried out by Oxford Archaeology along the route of the proposed reinforcement. A total of 209 archaeological and cultural heritage features were identified within the 1km corridor, comprising 19 Listed Buildings, seven Scheduled Monuments (including three sections of Offa's Dyke and two of Wat's Dyke), one site that is both a Listed Building and a Scheduled Monument, and 182 undesignated sites. In the 100m corridor within which direct effects could potentially occur, there are two Scheduled Monuments, one listed building, and five areas of undesignated sites. One of these undesignated sites, a section of Wat's Dyke, was identified as being of national importance. In addition, the 100m corridor contained 126 historically important hedgerows.
- 1.4. This report describes the results of the archaeological surveys, watching briefs and archaeological excavation undertaken as part of the programme of cultural heritage mitigation works specifically relating to the construction of the overhead line.
- 1.5. Initial consultation and site meetings took place in late September, 2014 with the majority of the works being undertaken from early January 2015 to late March 2015.
- 1.6. The program of works was conducted with close and regular communication with the Environmental Adviser to the contractors Balfour Beatty, who were responsible for constructing the new powerline.
- 1.7. In the following text all heritage assets are identified by their unique Primary Record Number (PRN) recorded within the regional Historic Environment Records (HERs) maintained by the Clwyd-Powys Archaeological Trust and Shropshire Council.



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Fig. 1. Overview showing the location of works relating to new Oswestry to Legacy power line; the blue lines highlight the area of the underground cabling and red shows the length of overhead cabling.

2. Archaeological Watching Briefs

Wat's Dyke, Wrexham; SAM De154

- 2.1. The following watching briefs were undertaken in accordance with the Chartered Institute for Archaeologists' (Cifa) *Standard and Guidance for an Archaeological Watching Brief* (2014) and in compliance with the Written Scheme of Investigation

prepared by the Clwyd-Powys Archaeological Trust in their capacity as archaeological advisors to Ibedrola.

- 2.2. The construction work had the potential to have direct physical effect on a scheduled section of Wat's Dyke south of Black Brook Bridge within the immediate vicinity of pole no. 22 (SJ 32065 45069). The most appropriate mitigation strategy for this section of the monument was therefore considered to be avoidance and micro-siting enabled the pole to be positioned sufficiently far from the monument to avoid any direct effect on the earthwork. This was confirmed by a site visit in early December attended by Will Davies, Cadw Regional Inspector, Mark Ward, Balfour Beatty Environmental Advisor and Ian Grant, CPAT Senior Project Archaeologist. The extent of the scheduled area was established during this meeting and was clearly demarcated with survey pegs and later reinforced by signed fencing along the monument (Fig. 2).
- 2.3. Further mitigation stipulated no vehicular access within or across the scheduled area without prior consent and furthermore, avoidance of crossing the monument where at all possible. In the instances where access across the monument was unavoidable, bog matting was laid on a pre-existing access trackway to protect the monument from further superficial vehicular damage (Fig. 2). The mitigation also stipulated that no machinery should be positioned or operated and no equipment or materials should be stored within the scheduled area without prior consent. All contractors were made aware of the monument's protected status and the restrictions this implied.



Fig. 2. The bog matting laid over the access track crossing Wat's Dyke (SAM De154) south of Black Brook Bridge (CPAT Photo 3904-0016).

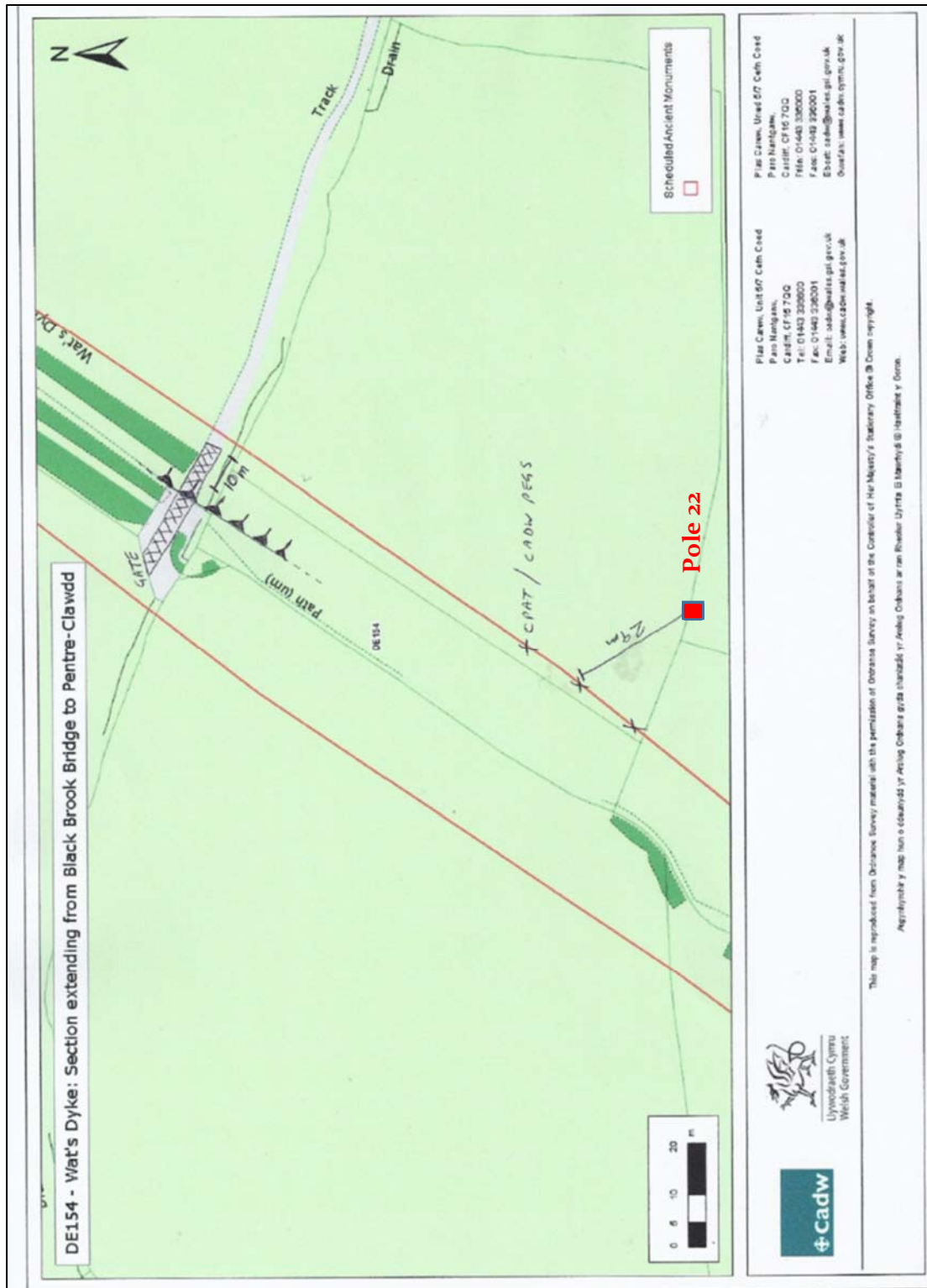


Fig. 3. An annotated plan showing the location of the monument, survey pegs demarcating the bounds of the scheduled area. The length of bog matting laid over the access on the monument is shown as the hashed area.

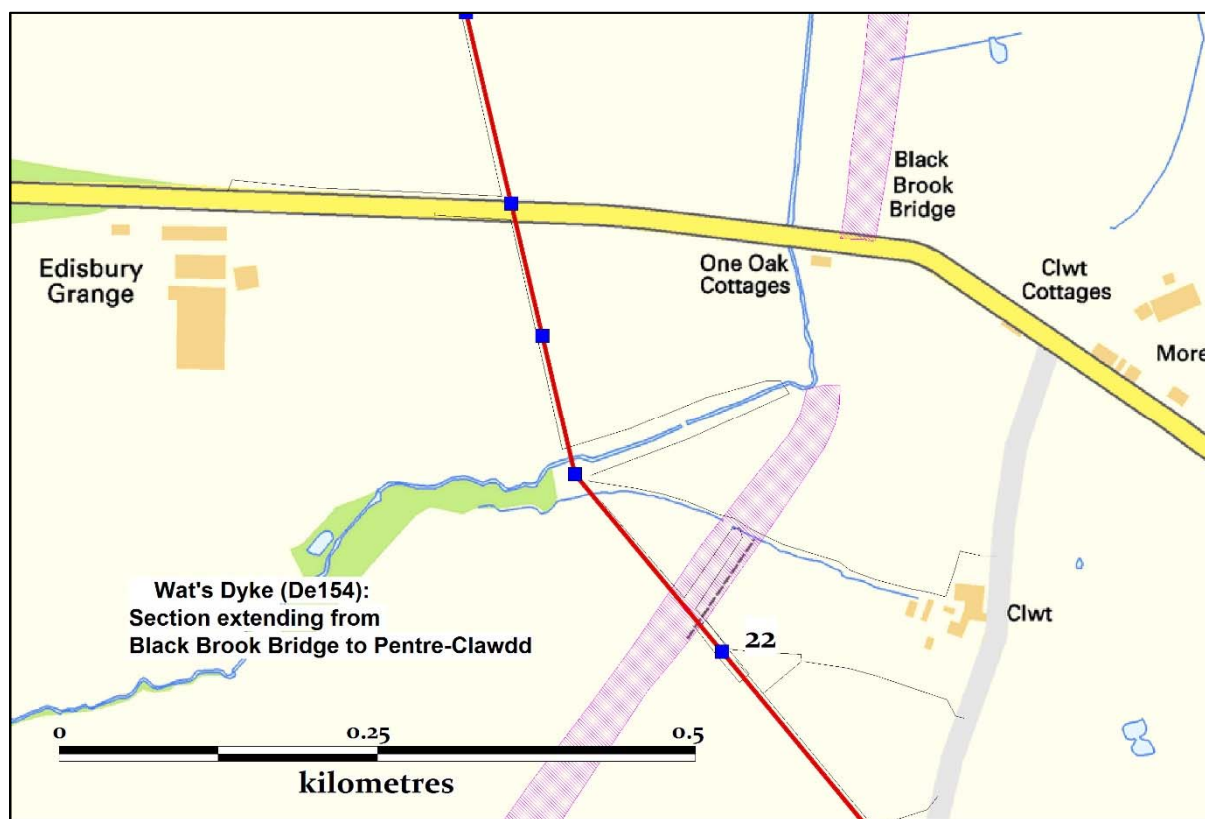


Fig. 4. Overview of pole position 22 showing its proximity to SAM De154; Wat's Dyke, south of Black Brook Bridge.



Fig. 5. The location of pole 22 is indicated by the gap in the hedge and the red and white scale. Wat's Dyke (SAM De154) is just visible in the background as indicated by the hedgerow crossing the field in a north-east/south-west orientation. (CPAT Photo 3955-0088).

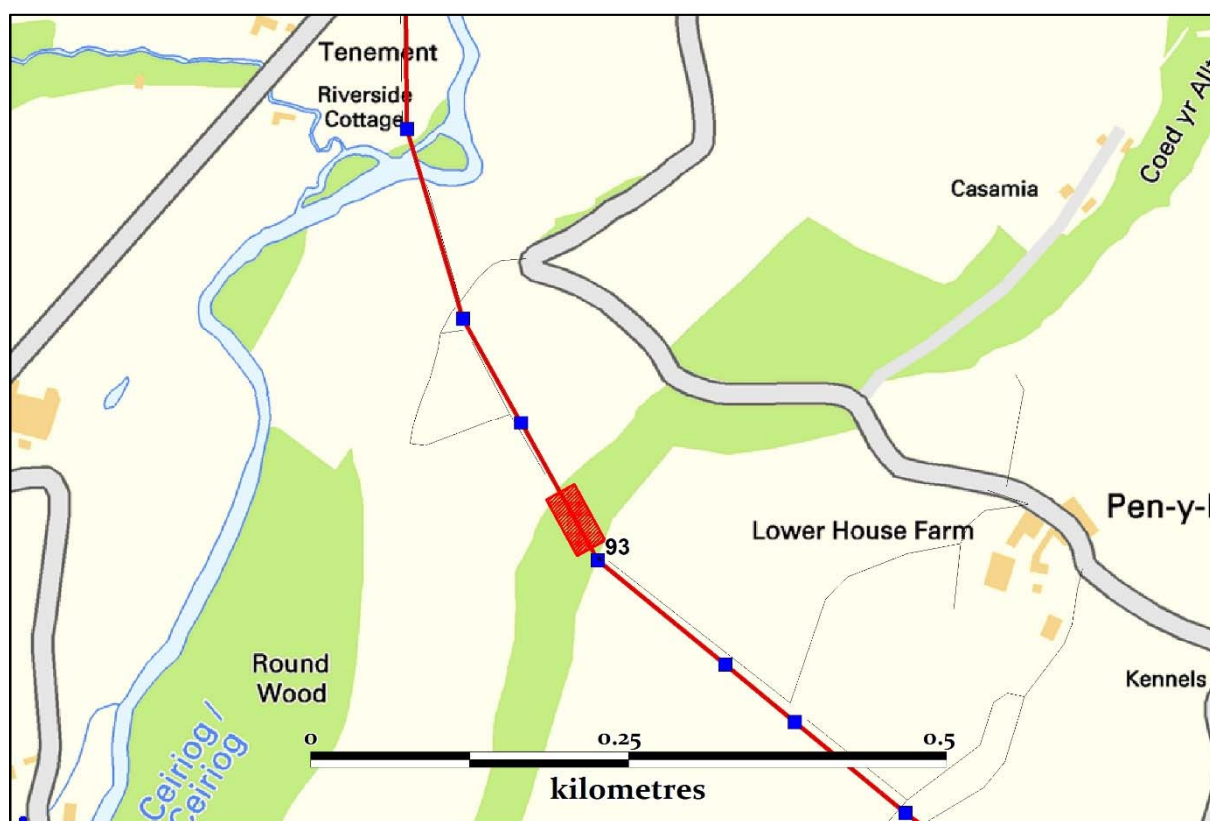
- 2.4. Owing to the proximity of the monument to pole no. 22 it was deemed necessary to undertake a watching brief during the erect of the pole (Figs 4-5). The site was accessed from the south-east thus avoiding vehicular intrusion on the monument.
- 2.5. The watching brief was undertaken on the 23rd March 2015 to monitor the machine excavation of a small trench to accommodate the new 'H-pole'. The trench measured 3m long, 1m wide and reached a final depth of 3m. The excavation revealed a sequence of gleyed, mottled sandy silt to a depth of 1.8m overlying a clean, pinkish-brown clay (Fig. 6). No archaeology was observed within this trench.



Fig. 6. The sequence of archaeologically sterile and gleyed deposits revealed in the trench for pole 22. The depth of this trench 3m (CPAT Photo 3955-0088).

Wat's Dyke, Shropshire (SJ 3160 3865) Shropshire HER PRN 08308

- 2.6. There was the potential for a direct physical effect on an unscheduled section of Wat's Dyke on the south side of the valley of the River Ceiriog, near St Martins (Fig. 7). For engineering reasons it was necessary for pole no. 93 to be placed at the break of slope at the top of the valley, in close proximity to the projected line of the Dyke.



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Fig. 7. An overview showing the location of pole 93 and the area of tree felling over the unscheduled section of Wat's Dyke as highlighted in red.

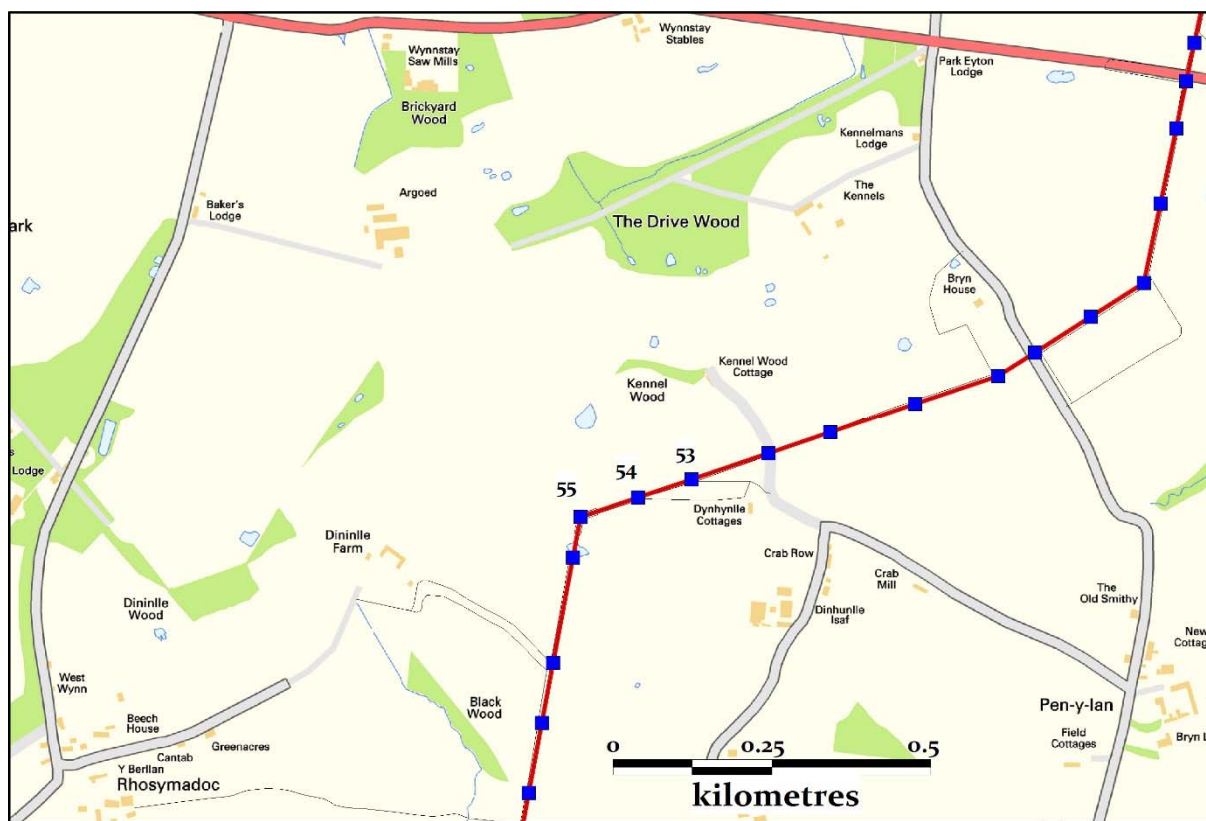
- 2.7. On the 26th September 2014 a site visit was made to the pole location to identify and demarcate the earthworks remains of the Dyke in an area of woodland which was due to be felled in preparation of the construction of the overhead powerline.
- 2.8. The tree felling was monitored in the following days and the contractors were instructed to clear all felled trees and brash from the earthwork so that its location could be identified clearly and demarcated, and potential impact of the pole could be assessed.
- 2.9. Owing to the pole's close proximity to the Dyke it was deemed necessary to undertake a small-scale archaeological excavation prior to the commencement of the works, the results of which are discussed in section 3.

Cae Gosper, Ruabon (PRN 101342; SJ 3230 4240)

Pole 53: SJ 32357 42519, Pole 54: SJ 32272 42492, Pole 55: SJ 32182 42458

- 2.10. The field name suggests that this may be the site of Capel Collen, which is mentioned in a survey of 1620 and is traditionally thought to be the site of a cross and/or chapel. Three poles (poles 53-55; Fig. 8)) were to be positioned within this field and as part of the mitigation works a geophysical survey was commissioned to assess the potential for the area to contain buried remains associated with the chapel (Fry 2014). A 200m-long corridor, 50m in width, was surveyed along the route of the powerline, including the

locations of poles 53 and 54. The results produced no evidence for the chapel remains, instead revealed weak anomalies which may have represented buried ditches or former field boundaries.



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Fig. 8. An overview showing the location of poles 53 – 55 within the vicinity of Cae Gosper (PRN 101342).

- 2.11. A watching brief was undertaken during the construction of poles 53 – 55. The machine excavation of test pits in the locations of poles 53 – 55 were monitored on the 15th January 2015. The test pits measured no greater than 2.3m long, 1.2m wide and 0.6m deep. Each test pit revealed a sequence of shallow topsoil overlying a thick plough soil which in turn, was underlain by a clean, reddish-pink, clay- silt at an average depth of 0.4m. No archaeology was observed within these test pits.

Cropmark complex between Gobowen and Hindford, Shropshire HER PRN 02158; SJ 3212 3342)

Pole 147: SJ 32205 33483, Pole 148: SJ 32086 33381

- 2.12. Aerial photography had revealed cropmarks of up to four circular enclosure ditches, possibly the remains of round barrows long since damaged by agricultural activities. The construction works relating to poles 147 and 148 (Fig. 9) had the potential to have a direct impact on any buried archaeology associated with these features and a watching brief was therefore required in mitigation.



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Fig. 9. An overview showing the location of poles 147 and 148 between Gobowen and Hindford.

- 2.13. The watching brief was conducted on the 18th March 2015 monitoring the machine excavation of the post holes. At pole no. 147 the excavations revealed a natural subsoil comprising a grey-brown silt over an orange gravel at a depth of 0.3m. A natural subsoil comprising a grey-brown silt over an orange clay-silt at a depth of 0.5m at pole no. 148. No archaeology was revealed at either location.

Cropmark complex at Fernhill, Gobowen (SMR No 02156; SJ 3166 3300)

Pole 153: SJ 31722 32969, Pole 154: SJ 31663 32880

- 2.17. Cropmarks recorded in this location have revealed a probable Iron Age/Romano-British rectangular enclosure measuring about 30m north/south, by 25m east/west, with double ditches on the west. There is also a possible trackway and short stretches of detached linear ditches, perhaps part of an associated field system in this area (Fig. 10).



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Fig. 10. An overview of pole locations 153 and 154

- 2.18. The construction works relating to poles 153 and 154 had the potential to have direct impact on any buried archaeology within this area and a watching brief was therefore required in mitigation.
- 2.14. The watching brief was conducted on the 18th March 2015 monitoring the machine excavation of the post holes. At pole no. 153 the excavations revealed at natural subsoil comprising a grey-brown silt over a yellowish-brown clay-silt at a depth of 0.5m. A natural subsoil comprising a grey-brown silt over a dark grey gravel a depth of 0.4m at pole no. 154. No archaeology was revealed at either locations.

3. Archaeological Excavation: Wat's Dyke, Shropshire

- 3.1 Owing to the proximity of Pole 21 to an unscheduled section of Wat's Dyke, near St Martins in Shropshire, the locations of the twin 'H-pole' and its attendant stays were subject to small-scale excavation in advance of construction. The excavations were conducted on 2-3 February 2015 and comprised three small trenches, the location and orientation of which were determined by the client.
- 3.2 In 2003 and adjacent area was investigated prior to the construction of a gas pipeline, confirming the position of Wat's Dyke, which survived as a slight earthwork at the top of the steeply-sloping valley side (Kenney 2004). The excavation identified a V-shaped ditch, around 2.1m wide and 1.1m deep, with the denuded remains of a slight bank on the upslope side and a small counterscarp bank downslope (see Fig. 14).

- 3.3 In Trench 1, which was the location for the H-pole, around 0.35m of topsoil (o1) were removed to reveal a 0.4m-thick layer of silty clay (o2). At the north-eastern end of the trench this overlay a thin deposit of light grey, silty clay (o3), while elsewhere the natural subsoil was exposed, consisting of an iron-panned sandy clay (o4) (see Fig. 11). No archaeological features or deposits were identified.



Fig. 11 Wat's Dyke, Shropshire. Trench 1 viewed from the south. Photo CPAT 3904-0022

- 3.4 Trenches 2 and 3 contained a similar sequence of deposits (Figs 12-13), again with no evidence for any archaeological features or deposits.
- 3.5 The negative evidence from the excavations confirmed that the erection of the pole had no impact on Wat's Dyke. However, since the position of the trenches was determined by the pole location, rather than in an attempt to evaluate the Dyke, the lack of evidence cannot be taken to suggest that the earthwork did not extend into this area. While no visible traces of the monument were apparent following the felling of trees in this area the possibility remains that subsurface deposits survive. Based on the evidence from the 2003 excavation it seems likely that the Dyke followed the break of slope at the top of the valley side, so that bank may have extended through the area of Trenches 2 and 3, all upstanding remains having since been removed.



Fig. 12 Wat's Dyke, Shropshire. Trench 2 viewed from the north-east. Photo CPAT 3904-0030



Fig. 13 Wat's Dyke, Shropshire. Trench 3 viewed from the north-east. Photo CPAT 3904-0036

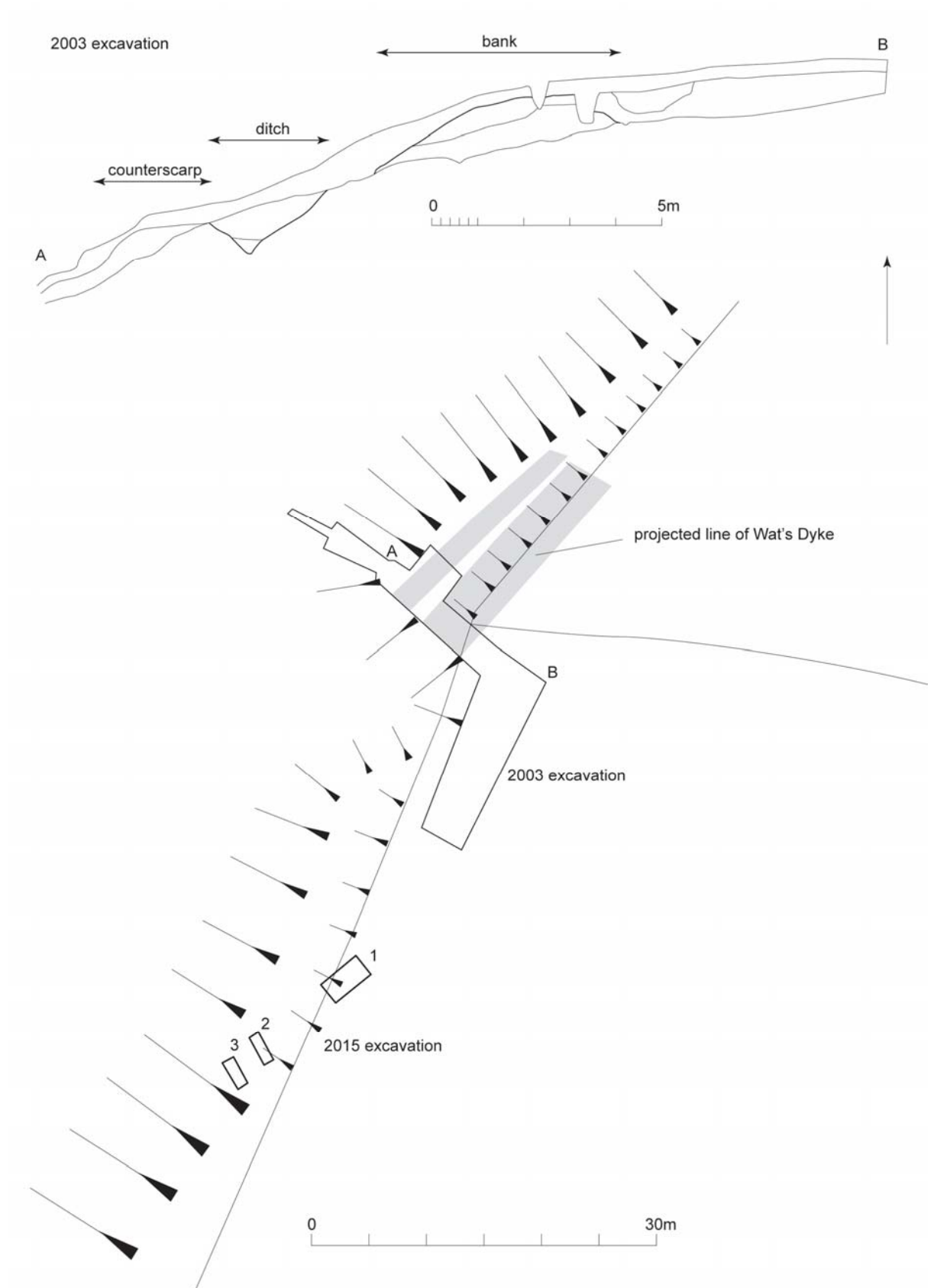


Fig. 14 Excavations along the line of Wats' Dyke. Pole 93 was positioned within Trench 1

4. Historic Hedgerows

- 4.1. A total of 126 historic hedgerows were identified in the Environmental Statement within the 100m corridor, a number of which were to be directly impacted on by the construction of the overhead powerline. As defined by the Hedgerow Regulations (1997), the relevant planning authority was notified before the removal of any such hedgerow.
- 4.2. The archaeological mitigation stated that where feasible, all historic hedgerows should be retained and any effect on them avoided. Where hedgerows were to be unavoidably affected any such effect should be minimised. In accordance with this a register of the threatened hedgerows was created, identifying 48 pole locations where there would be a direct impact on the hedgerow.
- 4.3. The sections of hedgerows identified on this register were surveyed prior to the erection of the poles. Each section was photographed and recorded along with any other associated archaeological features within its vicinity, details of which are provided in Appendix 2.
- 4.4. This work was undertaken in accordance to the Chartered Institute for Archaeologists' (CIfA) *Standard and Guidance the archaeological investigation and recording of standing buildings or structures* (2014) and in compliance with the Written Scheme of Investigation as prepared by the Clwyd-Powys Archaeological Trust in their capacity as archaeological advisors to Ibedrola.

5. Conclusions

- 5.1. A programme of cultural heritage mitigation works was undertaken in relation to the construction of the 132kv overhead powerline between Oswestry and Legacy. This programme of archaeological watching briefs, survey and excavation demonstrated that nothing of archaeological significance was intruded upon during this construction work.
- 5.2. A geophysical survey at Cae Gosper, near Ruabon, failed to locate any subsurface remains associated with the site of a lost medieval chapel and a watching brief during the erection of poles in this area also produced no archaeological evidence.
- 5.3. A small-scale evaluation was conducted along the projected line of an unscheduled section of Wat's Dyke, near St Martins, close to a known section confirmed by excavation in 2003. The work was conducted in order to assess the impact of one of the poles and associated stays. Despite their proximity to the known section the recent excavations produced no evidence for either the ditch or bank of Wat's Dyke at this location, although given the small-scale nature of the work this does not preclude the presence of the Dyke in this area. A number of watching briefs during the erection of poles also failed to produce any evidence for archaeological deposits.
- 5.4. Monitoring of soil stripping for underground sections of the scheme at Oswestry and Legacy produced limited archaeological returns, comprising part of the Park Hall army camp and the foundations of a small building.

6. Acknowledgements

- 6.1. The writer would like to extend thanks to her colleagues Ian Grant, Nigel Jones and Richard Hankinson for their assistance with this project on and off the field. Special thanks are offered to Clare Davies, Iberdrola, and Mark Ward, Balfour Beatty, for their assistance and cooperation throughout the project.

7. Sources

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Kenney, J., 2004. A trench dug through Wat's Dyke at Pen y Bryn, demonstrating its presence along the eastern side of the Ceiriog valley, *Transactions of the Shropshire Archaeological and Historical Society* 77 (2002), 10-14.

Watson, S. 2015. *Legacy to Oswestry 132kV Powerline: Archaeological Watching Brief*. Unpublished report. CPAT Report No. 1324.

Appendix 1: Site Archive

4 watching brief forms

19 hedgerow survey forms

3 section drawings, scale 1:20

13 annotated scaled location plans

1 Photo register

139 Digital photographs; CPAT Film Numbers 3904 and 3955

Appendix 2: Hedgerow survey gazetteer

Pole 11

SJ 31615 46608

Orientation: East-west

Description

A sparse but mature single planted hedgeline of Oak and Hawthorn on pasture land. There were no discernable earthworks or ditches. No further mitigation works required.

Pole 15

SJ 31772 46259

Orientation: Northeast-southwest

Description

A roadside hedge comprising sparse, young hawthorn. Pole position in the hedgeline. There is a pasture field on the southern side of the hedge and a narrow, well maintained roadside ditch on the northern side of the hedge with free flowing water. No discernable bank was visible. No further mitigation works required.

Pole 17

SJ 31818 46016

Orientation: East- west

Description

A sparse hedgeline comprising single-planted, mature hawthorn with aged oak trees atop a low-lying bank, 0.2m high and 2m wide. There is no visible ditch. The pole position is in the pasture field south of the hedge. There is also pasture fields to the north of the hedge. No further mitigation works required.

Pole 19**SJ 31894 45718****Orientation:** East - west**Description**

A modern hawthorn, roadside hedgeline bound by a post and wire fence line on its northern side. There are pasture fields to the north of the hedge. The pole position is on the northern side of the hedge. No further mitigation works required.

Pole 22**SJ 32065 45069****Orientation:** East-west**Description**

A single planted hedgeline of Hawthorn and Holly, maturing in age towards the west and within the immediate vicinity of Wat's Dyke (Scheduled Ancient Monument DE154). The surviving earthworks have been reduced to a low 1m wide by 0.2m high bank near to the area of the pole position located on the south side of the hedgeline. No associated ditch was visible. The land is under pasture and a relic ridge and furrow system is present to the north-west of the site.

Owing to the pole's position within close proximity to Wat's Dyke, a watching brief was recommended for the construction of the pole.

Pole 23**SJ 32182 45217****Orientation:** East – west**Description**

A 3m wide mature hedgeline consisting of holly, hawthorn and the occasional oak tree, located in pasture fields. There is an infilled ditch along the northern side and ridge and furrow to the south of the hedge. No further mitigation works required.

Pole 26

SJ 32389 44974

Orientation: North- south**Description**

The pole position is to the west of a mature hedgeline comprising oak, hawthorn and hazel trees atop a low lying bank, 0.2m high and 3m wide. There is a shallow ditch, 0.5m deep and 1.4m wide on the western side which provides free flowing drainage; water flow direction south – north. There is a water meadow to the west of the hedge and pasture fields to the east. No further mitigation works required.

Pole 27

SJ 32498 44826

Orientation: North – south**Description**

The pole position is within a sparse hawthorn hedgeline, reinforced with a modern post and wire fence on the western side of the hedge. There is no evidence of an embankment or associated historical ditch, although there is a modern, shallow and broad ditch just south of the hedge inundated with free flowing water. There is well defined ridge and furrow (orientated north – south) in the fields to the east of the hedge and pasture to the west and south. No further mitigation works required.

Pole 28

SJ 323583 44703

Orientation: East – west**Description**

The pole position is on the northern side of a mature hawthorn hedgeline atop a low lying bank, 0.1m high and 1m wide. There is no ditch evident at the pole location although further east along the hedge there is a well-defined, shallow and broad ditch inundated with free-flowing water (flow direction: west – east). There are pasture fields to the north and south of the hedge with well-defined ridge and furrow (orientated east-west) in the southern field. No further mitigation works required.

Pole 30

SJ 32735 44501

Orientation: East - west**Description**

Pole position not defined at time of visit but presumed to be in the field on the northern side of the hedge. The hedgeline consists of mature holly, oak and hawthorn atop a low lying, 0.1m – 0.2m high and 0.7m wide bank. There is no evident ditch. There are pasture fields to the north and south with well-preserved ridge and furrow (orientated east- west) in the field south of the hedge. No further mitigation works required.

Pole 31

SJ 32798 44404

Orientation: Northeast - southwest**Description**

A roadside hedgeline comprising managed mature hawthorn atop a low-lying bank, 0.5m high and 1.7m wide with a steep, roadside ditch measuring 2m wide and 0.8m deep. This ditch appears to be undergoing regular maintenance and improvement. There is a mature oak tree in the hedge and pasture and arable fields to the southwest. No further mitigation works required.

Pole 39

SJ 33230 43570

Orientation: East – West**Description**

An established, single planted hawthorn hedgeline which intersects a former field boundary marked by mature oak trees running north-south. There is a slight ditch running along the southern side, measuring 1.5m wide and up to 0.2m deep. The pole location is at a former gateway in the hedgeline. There are pasture fields to the north and south of the hedgeline. No further mitigation works required.

Pole 42**SJ 33150 43210****Orientation:** East – west**Description**

A mature hawthorn hedgeline with occasional mature oak trees atop a low-lying bank 0.6m high, with a broad ditch on its south-eastern side. The ditch measures 1.2m wide and 0.5m deep with free flowing water. There is well preserved ridge and furrow in the field to the east of the hedge, with a well pronounced, broad headland along the south-eastern side of the hedge. The pole position is located in an area of the hedge where there is a mature oak tree stump. No further mitigation works required.

Pole 55**SJ 32200 42460****Orientation:** Northeast- southwest**Description**

A single planted, mature hawthorn hedgeline with a modern plough margin on its east side. There are pasture fields on the western side of the hedge. The pole position is on the eastern side of the hedge. No further mitigation works required.

Pole 63**SJ 32047 41577****Orientation:** East – west**Description**

A disturbed hazel and hawthorn hedgeline in poor condition owing to large scale modifications of the metalled/rubble trackway running parallel to the hedge. There is some kind of knotweed growing in the location of the pole position. (Photo 3955-0039). There is a trace of a possible ditch on the northern side of the hedgeline. Pasture fields to north and south. No further mitigation works required.

Pole 64**SJ 32034 41460****Orientation:** East – west**Description**

This is a potentially historic hedgeline comprising very mature hawthorn, hazel and oak with a shallow, broad ditch measuring 0.5m deep and 1.5m wide, to the south in which water freely flows. There is a broad, low-lying berm associated with the ditch on the southern side of the hedge. This berm measures 0.25m high and 1.6m wide. The hedge itself appears to be positioned on a “lynchet” as the arable field to the north of the hedgeline is somewhat higher. The pole position is on the northern side of the hedge. No further mitigation works required.

Pole 66**SJ 32023 41293****Orientation:** Northwest- Southeast**Description**

A single planted hedge comprising hazel, holly and hawthorn with the occasional ash tree atop a low-lying bank, 0.3m high. There is a heavily modified broad ditch (water flowing west to east) measuring 2.5m wide, to the south of the hedge. There is a metalled track along the northern side of the hedge with pasture fields beyond and arable fields to the south. The pole position is on the northern side of the hedge. No further mitigation works required.

Pole 68**SJ 32009 41107****Orientation:** East – west**Description**

A mature hedgerow comprising hazel, hawthorn, crab-apple, holly and oak trees atop a broad, low-lying bank 0.5m high and 2.2m wide. There is the remains of a ditch (now backfilled) on the northern side of the hedge measuring 0.1m deep and 0.7m wide. There are pasture fields to the south and arable fields to the north. The pole position is south of the hedgeline. No further mitigation works required.

Pole 69**SJ 32002 41004****Orientation:** East – west**Description**

A mature hedgeline comprising holly, hawthorn and willow atop a low-lying and very broad bank measuring 0.1m high and 3.6m wide. There is shallow and broad ditch on the southern side of the hedge with water flowing west- east. There are pasture fields to the north and south. No further mitigation works required.

Pole 70**SJ 31919 40889****Orientation:** Northwest – southeast**Description**

A single planted, mature hawthorn hedgeline atop a low-lying bank, 0.4m high and 1.5m wide. There is a broad, shallow ditch measuring 1.4m wide and 0.4m deep with free flowing water (flowing northwest – southeast) on the eastern side of the hedge. No further mitigation works required.

Pole 71**SJ 31821 40786****Orientation:** Northwest- southeast**Description**

A mature hedgeline comprising mature hawthorn, holly and hazel atop a low-lying bank, up to 0.6m in height, with a ditch measuring 0.6m deep and 1.4m wide on its northern side. Water in this ditch flows west to east. There are pasture fields to the north and south of the hedge with well-preserved ridge and furrow north of the hedge. No further mitigation works required.

Pole 73

SJ 31614 40622

Orientation: North, northwest – south, southeast**Description**

A mature hawthorn roadside hedgeline atop a low-lying bank with a ditch on the eastern side. The ditch is well maintained and water flows north – south. There is no evidence for a berm in the pasture field to the west of the hedge.

Pole 76

SJ 31321 40516

Orientation: East – west**Description**

A very mature hawthorn and holly hedgeline with a pronounced ditch, 1.5m wide and 0.3m deep, on the southern side. There is a slight berm to the south and a slight ditch measuring 0.6m wide, on the northern side. No further mitigation works required.

Poles 77 & 78

SJ 31232 40418 – SJ 31180 40272

Orientation: Northeast- southwest**Description**

A mature hawthorn hedgeline on the brow of a lynchet with a ditch measuring 1m wide, on its southern side. There is a low-lying berm, measuring 0.2m high and 2m wide in the pasture field on the southern side of the hedgeline. No further mitigation works required.

Pole 89

SJ 31442 39116

Orientation: Northeast – southwest**Description**

A roadside hawthorn hedgeline with cast iron fencing atop a low-lying bank. The road is to the northwest of the hedge and there is a pasture field some 1m below the road level on the southern side of the hedge. No ditch is visible and the pole position is in the hedgeline. No further mitigation works required.

Pole 95**SJ 31743 38494****Orientation:** North, northwest – south, southeast**Description**

A mature holly, oak and hawthorn hedge atop a broad, low-lying bank measuring 0.15m high and 3m wide with a post and wire fence within. There is no apparent ditch within the pasture fields to the east and west of the hedge. The line of Wat's Dyke (Scheduled Ancient Monument DE154 is to the west. No further mitigation works required.

Pole 98**SJ 32076 38240****Orientation:** North – south**Description**

A mature holly and hawthorn roadside hedgeline atop a low-lying bank measuring 0.15m high and 1.8m wide, and a post and wire fence within. There is no ditch visible in the pasture field to the east of the hedge. No further mitigation works required.

Pole 101**SJ 32303 38010****Orientation:** On junction of hedge (north- south) and (east – west)**Description**

A mature hawthorn, holly and oak hedgeline atop a low bank measuring up to 0.25m high and 1.1m. There is a shallow ditch to the east of this pole position along the southern side of the hedge. The ditch is up to 2m and 0.5m deep with free flowing drainage. No further mitigation works required.

Pole 103

SJ 32482 37785

Orientation: Northeast – south west**Description**

A roadside hedge comprising mature holly and hawthorn atop a low-lying bank measuring 0.6m high and 2.2m wide. The road is to the west of the hedge and pasture fields to the east. There is an infilled ditch on the western side of the ditch. No further mitigation works required.

Pole 105

SJ 32719 37630

Orientation: North – South**Description**

A well maintained, mature hawthorn and hazel hedgeline atop a low-lying bank measuring 0.3m high and 2.3m wide. There is a shallow ditch measuring 0.3m deep and 1.10m wide, along the eastern side of the hedge. This ditch has recently been improved and the water in this ditch drains to the south. There are pasture fields to the east and west of this hedge. The pole position is in the hedgeline. No further mitigation works required.

Pole 106

SJ 32739 37579

Orientation: Northeast to southwest**Description**

A well maintained, mature hawthorn hedgeline with a flanking ditch measuring 1m deep in the south-eastern side. This ditch has recently been improved with an additional modern piped drain flowing in from the south-east. There is a pasture/paddock field on the south-eastern side of the hedge and a rising pasture field to the northwest. No further mitigation works required.

Pole 107**SJ 32875 37528****Orientation:** Northeast – southwest**Description**

A mature roadside hedgeline comprising holly, hawthorn and hazel with the occasional oak tree and a post and wire/panel and rail fence within. There is a deep and well maintained roadside ditch measuring 1m deep and 0.8m wide, on the western side of the ditch. Free flowing water drains northeast – southwest. There is a very slight berm, measuring 0.2m high in the pasture field to the east of the hedge. There is also ridge and furrow (orientated northeast – southwest) in this field. The pole position is in this pasture field along the eastern side of the hedge. No further mitigation works required.

Pole 108**SJ 32978 37460****Orientation:** North – south**Description**

A mature hawthorn hedgeline with a flanking ditch measuring 0.9m wide and 0.3m deep on its eastern side. There is also a raised berm measuring 2.1m wide and 0.25m high on the eastern side forming a low-lying headland to the ridge and furrow system in the field to the east of the hedge. The ridge and furrow is orientated east –west. No further mitigation works required.

Pole 109**SJ 33102 37387****Orientation:** North – south**Description**

A mature hawthorn hedgeline atop a broad, low-lying bank measuring 1.9m wide and 0.2m high. There is no evidence for a flanking ditch. There is a pasture field to the east of the hedge which rises gradually to the east, possibly forming a lynchet. The pasture field to the west of the hedge is waterlogged and there is ridge and furrow present. There is also a slight berm/ broad bank along the western edge of the hedge although this is most likely a headland related to the ridge and furrow. The pole position is on the western side of the hedgeline. No further mitigation works required.

Pole 110

SJ 33181 37316

Orientation: North – south**Description**

A mature hedgeline comprising hawthorn, willow, holly, ash, hazel and mature oak trees and gorse, atop a substantial bank (possible lynchet) measuring 3.9m wide and 0.6m high. There is no visible ditch in the ploughed field to the east of the hedge. There is a pasture field to the west. The pole position is within the hedge; atop the bank. No further mitigation works required.

Pole 115

SJ 3342 36774

Orientation: East – west**Description**

A mature holly hedgeline, 2.5m wide with no visible bank and pasture fields to the north and south. The pole position is within the hedgeline. No further mitigation works required.

Pole 117

SJ 33355 36660

Orientation: East – west**Description**

A mature hedgeline comprising holly, oak, beach and sycamore trees which follows the line of a south facing scarp/lynchet. The pole position is along the north side of the hedgeline. No further mitigation works required.

Pole 118

SJ 33286 36547

Orientation: North – south**Description**

A mature hedgeline comprising hazel, holly and hawthorn sited along a west facing lynchet. There is a low-lying, broad berm measuring 0.1m high and 2m wide located in the pasture field

to the east of the hedgeline. Pole position is within the hedgeline. No further mitigation works required.

Pole 119

SJ 33256 36501

Orientation: Northwest- southeast

Description

A mature hedgeline comprising holly, hawthorn, hazel with the occasional oak tree and walnut tree. At the north-western end of the hedge, there is a narrow holloway or ditch which rises up to a low bank or possible lynchet. The bank measures 1.4m wide and up to 0.2m high. The possible holloway or ditch runs along the south-western side of the hedge and varies from 1m – 1.5m in width. There is also a low, 2m wide berm in the south-western side which measures 0.15m high. No further mitigation works required.

Pole 125

SJ 33000 35847

Orientation: Northwest – southeast

Description

A roadside mature hedgeline comprising hazel, holly and the occasional oak tree atop a low-lying bank measuring 0.6m high and 1.7m wide. There is no visible ditch and pasture fields to the south of the hedgeline. Pole position against the southern side of the hedge. No further mitigation works required.

Pole 126

SJ 32985 35705

Orientation: North, northwest – south, southeast

Description

A mature hawthorn hedgeline atop a low-lying broad bank measuring 1.9m wide and 0.3m high. There is no ditch and pasture fields to the northeast and southwest of the hedge. Pole position is in the hedgeline. No further works required.

Pole 128

SJ 32874 25580

Orientation: Northwest – southeast**Description**

A mature sunken roadside hedge comprising of holly and measuring 2.2m wide. There is no evident ditch or internal bank. The pole position is in the pasture fields on the south-western side of the hedge. No further mitigation works required.

Pole 129

SJ 32783 3548

Orientation: North – south**Description**

A mature hawthorn hedgeline with the occasional oak tree, atop a westward facing lynchet bank. There is a slight berm measuring 0.7m wide, along the east side of the hedge but this is most likely a modern ploughing margin. The pole position is within the east side of the hedgeline, within the pasture field. No further mitigation works required.

Pole 135

SJ 32689 34785

Orientation: East – west**Description**

A mature hawthorn hedgeline with the occasional sycamore and oak trees, atop a low-lying bank measuring 2m wide and 0.3m high. There is no visible ditch in the improved pasture fields to the north and south of the hedgeline. The pole position is within the hedge. No further mitigation works required.

Pole 138

SJ 32691 34384

Orientation: East – west**Description**

A mature hawthorn and holly hedgeline with the occasional oak tree, atop a low-lying bank or possible south-facing lynchet measuring 1.9m wide. There is a slight depression, only 0.4m wide

along the southern side of the hedge; this could be an infilled ditch. There is arable land to the north and pasture to the south. The pole position is at the southern side of the hedge. No further mitigation works required.

Pole 145

SJ 32409 33661

Orientation: North – south

Description

A mature and unmanaged hawthorn, elder and alder hedgeline atop a low-lying, broad bank measuring 3m wide and 0.25m high. It is possible that this bank is a west-facing lynchet. There is no visible ditch. The pole position is in the pasture field, on the western side of the hedge. No further mitigation works required.

Pole 153

SJ 31729 32973

Orientation: North – south

Description

There is no hedgeline at this location. Rather, there is a modern post and wire fence line either side of a relic trackway to Great Fernhill farm. There is ridge and furrow in the pasture fields to the east and west of the trackway and this is aligned north – south. The pole position is in the eastern fence line. No further mitigation works required.