Welsh Government

M4 Corridor around Newport

Environmental Statement Volume 3: Appendix 10.26

Hazel Dormouse Survey 2015

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Contents

			Page
Sum	mary		i
1	Introduction		1
2	Previous Survey		2
	2.1	Introduction	2
	2.2	2014 Survey Methods	2
	2.3	Desk Study	5
3	2015 Survey Methods		7
	3.1	Introduction	7
	3.2	Methodology	7
	3.4	Survey Methods	9
	3.5	Survey Effort	10
	3.6	Limitations	12
4	Resu	ults	13
5	Disc	ussion	17

FiguresFigure 1: Dormouse Survey Area Dormouse Survey Results Figure 2: Figure 3:

Hazelnut Search Areas and Results

Annexes

Full 2015 Arup Nest Tube Results Full 2015 RPS Nest Tube Results Annex A: Annex B:

Summary

- S.1 RPS has undertaken a hazel dormouse survey of land along the route of the proposed M4 Corridor around Newport (M4CaN) between Castleton and Magor to inform the ecological baseline for Environmental Impact Assessment (EIA) of the Scheme. The EIA is reported in the M4CaN Environmental Statement (ES) of which this document is an appendix to the chapter on Ecology and Nature Conservation.
- S.2 A dormouse survey previously undertaken by Arup on behalf of Welsh Government in 2014 is reported separately in Appendix 10.9 of the M4CaN ES.
- **S.3** This report describes the dormouse survey that was undertaken from May to November 2015 using standard Dormouse Conservation Handbook (Bright *et al.*, 2006) methods.
- S.4 Dormice have continued to be recorded in Arup survey sites within the New Park Farm and Castleton areas. A single dormouse nest was recorded within the hedgerow south of Tata Steelworks where no evidence of dormouse has previously been recorded. No evidence of dormice has been recorded within the Arup tubes in the Magor area.
- S.5 Within the 2015 new survey areas, no dormice have been recorded in the new areas at Tata Steelworks or at Pye Corner. Possible evidence of dormouse, was found within a tube within the proposed Ifton Quarry, no other dormouse evidence was found in this area.
- S.6 Dormouse presence has been recorded in all the other 2015 new survey areas. These areas are north of Junction 23A and between Junctions 28 and 29 of the existing M4 motorway.
- **S.7** Dormouse nests and live dormice were frequently recorded at the western end of the new section of motorway, whereas dormouse nests have only been recorded twice at the eastern end..
- S.8 As dormouse is a European protected species, mitigation measures must be put in place prior to any construction works that could affect their habitats to protect the animals.
- **S.9** Further monitoring of dormouse will be required pre-construction to inform the Method Statement which will be needed to support a European Protected Species licence application.

1 Introduction

- 1.1.1 RPS has undertaken a hazel dormouse survey of land along the route of the proposed M4 Corridor around Newport (M4CaN) between Castleton and Magor to inform the ecological baseline for environmental impact assessment (EIA) of the Scheme. The target species was hazel dormouse *Muscardinus avellanarius* hereafter known as 'dormouse'. The survey included land generally within 500 metres of the proposed alignment following the methodology set out in the Dormouse Conservation Handbook (Bright *et al.*, 2006). The EIA is reported in the M4CaN Environmental Statement (ES) of which this document is an appendix to the chapter on Ecology and Nature Conservation.
- A dormouse survey previously undertaken by Arup on behalf of the Welsh Government in 2014 is reported separately in Appendix 10.9 of the M4CaN Environmental ES (see Appendix 9.1 in the ES Scoping Report (ES Appendix 5.1)) and RPS (see ES Chapter 10). The conclusions of that review and the requirements for additional surveys in 2015 were set out in the Scope of Ecology Surveys Report (see Appendix 9.1 of the ES Scoping Report). This was discussed with Natural Resources Wales and they were further consulted on the scope of the proposed surveys through the consultation on the ES Scoping Report.
- **1.1.3** This document reports the findings of the dormouse survey which was undertaken from May to November 2015.
- 1.1.4 This report document outlines the previous survey carried out and the reasons for this additional survey (Section 2), describes the methods used in the survey (Section 3) and the findings of the survey (Section 4). A discussion of the survey findings is provided in Section 5.

2 Previous Survey

2.1 Introduction

- **2.1.1** The dormouse survey carried out by Arup in 2014 is reported in Appendix 10.9 of the ES.
- **2.1.2** The objectives of the survey were as follows.
 - To identify the presence of dormice within the study area.
 - To identify areas where mitigation or compensation may need to be considered depending on the nature of any scheme.
 - To identify further studies that may be required to ensure that dormice are fully considered within the development of the Scheme.
- 2.1.3 The study area for the purpose of this survey was based on a 500 m buffer around the physical extents of the scheme alignment studied in 2007/8 including the route alignment proposed at that time, potential junctions and water treatment areas. The preferred route announced by the Welsh Government in July 2014 is located within the centre of this corridor.

2.2 2014 Survey Methods

- 2.2.1 Nest tube surveys were completed during 2014 in five discrete areas and checked four to seven times to record dormouse presence. The areas were selected taking into account the habitat preferences of the species and records of where dormice have previously been encountered.
- **2.2.2** Survey sites were selected to repeat previous surveys undertaken and to include the additional areas of potentially suitable habitat that had been identified.
- 2.2.3 Tubes were initially placed in two woodlands at the western end of the route (at New Park Farm). However, these were subsequently removed to avoid duplicating work being undertaken elsewhere.
- **2.2.4** The selected survey sites were grouped into areas as follows.
 - **New Park Farm area**: comprising New Park Farm north (A), New Park Farm south (B) and A48(M) verges (D).
 - Castleton area: comprising hedgerows and verges south of Pen-y-lan Farm (C), Pound Hill (E), and Spring Court woodland (K).
 - Coedkernew area: comprising Berryhill Farm (F) and the Church Lane woodland (G).
 - **Gwent Levels area**: comprising Pye Corner (L) and hedgerows south of Tata Steelworks (M).
 - Magor area: comprising Magor Vicarage (H); hedgerows and verges south
 of Upper Grange Farm (H); south of M4 J23A services (H) and verges north
 of Rockfield Farm, Undy (I).
- **2.2.5** The locations and results of Arup surveys are shown in Figure 1.

2.2.6 A combination of survey methods was used as recommended in DMRB Volume 10, Section 4, Part 6 (HA 97/01): Nature Conservation Management in Relation to Dormice (Highways Agency, 2001). The surveys for dormice comprised searches for gnawed hazel nuts (where hazel was present); searches for other evidence of dormice, such as nests; and the placement and monitoring of nest tubes. The surveys also followed the methodology set out in the Dormouse Conservation Handbook (Bright et al., 2006).

Hazel Nut Searches

- 2.2.7 Within areas of suitable habitat where fruiting hazel trees were present, searches for hazelnuts characteristically chewed by dormouse were made. Areas surveyed included New Park Farm north (A), the A48(M) verges (D), Spring Court woodland (K) and the verge south of M4 J23A services (H). These areas were considered to constitute the most suitable areas for this survey due to the presence of fruiting hazel trees.
- 2.2.8 Searches were carried out within five 10 m x 10 m quadrats for twenty minutes each, or until 100 nuts (not opened by birds or squirrels) had been collected. This survey technique readily establishes dormouse activity within an area.

Nest Tube Survey

- 2.2.9 Surveys consisted of putting nest tubes in areas of woodland and suitable hedgerows within the survey area. Tubes were set out in April/May 2014 and checked on a monthly basis until November 2014. As stated in 'Nature Conservation Management in Relation to Dormice' (Highways Agency, 2001a), tubes were installed and left *in situ* during the active season (May until November) in shrubs, hedgerows and trees. The numbers of tubes used per area depended on the site, but they were set out in woodland or shrub in a grid system of 20 m squares and in hedgerows at approximately 10-20 m intervals. These were then checked monthly for the presence of dormice and recently constructed dormouse nests.
- 2.2.10 A total of 310 nest tubes were installed at targeted locations along the route during April/May 2014. In July 2014 the tubes at New Park Farm woodland were removed to allow for dormouse monitoring with respect to the M4 Motorway Widening Scheme. All 42 of these tubes were re-mounted in July 2014 within areas L and M described above.
- 2.2.11 Each visit to check tubes and boxes was carried out by a licensed surveyor accompanied by an accredited agent or assistant. All evidence of dormice and their activity was recorded and mapped. Where individual dormice were found, the sexes of animals were determined and their weights measured. Evidence of other small mammal activity was also recorded where this occurred. During the November check where torpid dormice were found, the sex of the animal was not determined to avoid undue disturbance.

Survey Effort

2.2.12 In accordance with the Dormouse Conservation Handbook (Bright *et al.*, 2006) each of the four original survey areas was surveyed monthly between May and November to obtain a score of at least 20 over the survey season. This was achieved as follows.

- New Park Farm area: 42 tubes surveyed for three months and 36 tubes surveyed for seven months giving a score of 24.
- Castleton area: 59 tubes surveyed for seven months and 14 tubes surveyed for four months giving a score of 33.
- Coedkernew area: 106 tubes surveyed for seven months giving a score of 51.
- Magor area: 67 tubes surveyed for seven months giving a score of 32.
- **2.2.13** The Gwent Levels area was surveyed between August and November scoring a total of 9 over this period.

Limitations

- 2.2.14 No access was permitted to Gwaunhonsbrown Farm for the entire survey season. All surrounding areas were surveyed and this limitation did not adversely affect the conclusions of the survey.
- At the site to the south of Pen-y-lan Farm, a number of the nest tubes were damaged by cattle. These were replaced once but further damage occurred. Therefore to minimise the risk to dormice the decision was made to remove the affected tubes from the survey. This is not thought to have adversely affected the conclusions of the survey due to the number of tubes placed within the wider connected habitat and the historic presence of dormice within the area.
- 2.2.16 As the Gwent Levels area was only surveyed for the latter part of the survey period and only achieved a score of 9, results from this area are limited. However, this area was not considered likely to support dormice and this area was only included in the 2014 survey programme to gain additional evidence to support the understanding that dormice are absent from the Levels.

Results

- 2.2.17 Dormice were confirmed to be present at the western end of the survey area, within the New Park Farm area and the Castleton area. The survey results provided evidence that dormice are present to the north and south of the M4 and also to the north and south of the A48(M), indicating connectivity of the habitat along the verges to the west, where known populations of dormice exist and possibility to the north and south of these major roads.
- 2.2.18 No dormice were recorded within the Berryhill Farm and Church Lane woodlands. This may be due to the lack of suitable habitat connections between known populations and these areas and also the limited understory and sheep grazing having an adverse impact on the food availability of these woodlands.
- **2.2.19** No dormice were recorded within the Gwent Levels
- 2.2.20 No dormice were recorded within the Magor area despite having suitable habitat situated north of the M4. This may be due to the lack of habitat linkages such as hedgerows between potentially suitable habitat and known existing populations of dormice.
- 2.2.21 Based on these results it was considered that a breeding population is resident within the woodlands and hedgerows in the New Park Farm area and the Castleton area. The sub-populations are likely to be small, as suitable habitat is limited by the overall size of the woodland. However, the survey results indicate

that here is a possible metapopulation of dormice which is likely to benefit from the habitat connectivity between these areas, due to evidence of dormice within the motorway verges.

2.3 Desk Study

- 2.3.1 Evidence of previous dormouse presence within the vicinity of the proposed route has been identified from a desk study of records centre information (SEWBReC) and results of previously undertaken studies in the area (including surveys undertaken by Jacobs for the M4 widening between Junctions 29 and 32 in 2005/2006 and the Arup studies undertaken in 2007/8).
- 2.3.2 Previous records are all west of the survey area and information provided by Jacobs revealed that dormice were present within 9 of the 11 woodlands surveyed adjacent to the M4 widening between Junctions 29 and 32. The majority of dormouse activity was concentrated between the central and eastern areas of the M4 Widening Project, and mostly occured to the north of the existing M4 corridor.
- 2.3.3 Surveys in 2007/2008 revealed that dormice were also present further east within the hedgerows around Pen-y-lan Farm and Gwaunhonsbrown Farm in Castleton. No records of dormice exist at the eastern end of the study area and there are no records of dormice on the Gwent Levels.
- 2.3.4 There are historic records of dormice within Penhow Woodlands and Slade Wood which are located at the eastern end of the study area.

2.4 Requirements for Further Survey

- 2.4.1 The Arup report recommended, where populations of dormice have been identified, that monitoring through continued used of nest tubes be undertaken during 2015 to ensure any scheme assessment is made using up to date data.
- 2.4.2 It was also recommended that surveys be continued in those areas where dormice were not recorded in order to ensure confidence in the likely absence of dormice from these areas.
- 2.4.3 The spatial coverage of the 2014 survey work should also be reviewed to ensure all potentially suitable habitats have been adequately surveyed.
- **2.4.4** Areas where the required amount of surveys had not been achieved over the 2014 season would require completion in 2015.
- **2.4.5** Survey of an area in the far eastern end of the area, where the proximity of woodland suggests survey of some of the hedgerows to the north east of Magor junction would be appropriate.
- 2.4.6 The survey effort should focus on areas not previously surveyed due to access restrictions and a review of the updated Phase 1 and aerial photographs could determine where this would be required.
- **2.4.7** Based on the above recommendations, RPS proposed that monitoring of tubes within the Castleton area should continue and in addition extend into connected hedgerows to further investigate the distribution of dormice in the area.

- **2.4.8** The survey within the Gwent Levels would be completed.
- **2.4.9** Further survey work would be carried out at the eastern end of the new section of motorway, north east of the Magor junction and at the eastern end of the proposed Ifton Quarry haul road.

3 2015 Survey Methods

3.1 Introduction

- **3.1.1** The dormouse survey was carried out over the period May to November 2015, which falls within the optimum period for this type of survey.
- 3.1.2 The survey area was based upon the proposed alignment of the new section of motorway where suitable habitat for dormouse was present.

3.2 Methodology

- The survey method was based on the methodology described in the Dormouse Conservation Handbook (Bright *et al.*, 2006).
- **3.2.2** The survey involved targeted nest tube surveys and nut searches.
- 3.2.3 Continued monitoring of dormouse tubes in the Castleton area where dormouse have been recorded was extended into connected hedgerows to further investigate the distribution of dormouse in the area. The surveys which Arup had partially undertaken within the Gwent Levels were completed.
- 3.2.4 The rest of the survey effort required for 2015 focussed on areas of suitable habitat which were not previously surveyed due to access restrictions.
- 3.2.5 Additional targeted nest tube surveys were carried out within an area at the eastern end of the new section of motorway where the proximity of woodland suggests some survey of hedgerows to the north east of Magor junction would be appropriate, and in woodland close to the proposed Ifton Quarry haul road.
- 3.2.6 No other areas within the Gwent Levels were surveyed as the findings from the 2014 and 2015 preliminary surveys and Arup's previous consultation with NRW indicated that the area was deemed not suitable for dormice. This is due to the levels being relatively wet, characterised by a network of drainage ditches and historic floodplain grassland with no significant woodland areas, hedgerows or scrub areas large enough to support a viable population of dormice.
- 3.2.7 However, as a result of the identification of a dormouse nest in one of the tubes within the Gwent Levels during the survey, additional nest tubes were installed in the area at the south of the Tata Steelworks to further investigate the distribution of dormouse in this area.

3.3 Description of Survey Sites

3.3.1 The following areas were surveyed between May and November 2015. The locations of these survey areas are shown on Figure 1.

Table 3.1: Description of Arup Survey Sites

Survey site	Description
New Park Farm	Continuing surveys of the A48(M) verges. Consists of plantation
area	broadleaved woodland with hazel and dense bramble scrub.
Castleton area	Continuing surveys of Pen-y-lan Farm and Pound Hill. Pen-y-lan farm consists of plantation broadleaved woodland with bramble scrub, connected to well established species-poor hedgerows. Pound Hill is broadleaved plantation woodland with sparse bramble understory, connected to well established species poor hedgerows.
Gwent Levels area	Continuing surveys of Pye Corner and hedgerows south of Tata Steelworks. Pye Corner is a derelict laboratory site which has become overgrown with semi natural broadleaved woodland, planted coniferous trees and bramble scrub. The hedgerow south of tat steelworks is a species poor native intact hedgerow along a wet ditch.
Magor area	Continuing surveys on verges north of Rockfield Farm, Undy. Consists of plantation broadleaved woodland along the motorway verge and dense bramble scrub.

3.3.2 The following areas were surveyed between June/July and November 2015. The locations of these survey areas are shown on Figure 1.

Table 3.2: Description of New Survey Sites

Survey site	Description
Cefn Llogell (A)	Species -rich hedgerows lining small road, plantation woodland
	alongside A48 (M), dense scrub lining bridleway. Species include
	holly, bramble, elder, hawthorn, dogwood, hazel, oak, goat willow,
	field maple, ash, rose, alder and buddlea
Gwaunshonbrown	Species – rich hedgerows. Species include hazel, hawthorn, ivy,
Farm (B)	holly, field maple, willow and bramble.
Hedge of Penylan	Species –rich hedgerow. Species include bramble, hawthorn, elder,
Road (C)	holly, ash, hazel and goat willow.
By Pwll Diwaelod	Semi natural Broadleaved woodland and connecting hedgerow.
(D)	Species include hazel, holly, hawthorn and willow. Hedgerow species
	include elder, hawthorn, bramble, hazel and alder.
Roggiett Brake	Semi natural Broadleaved Woodland and Pine plantation. Species
Quarry Wood (E)	include field maple, hazel, elm, ivy, sycamore and holly.
Quarry Woods (F)	Small section of semi natural broadleaved woodland. Species
	include hawthorn, field maple, rose, elm, hazel, bramble, oak, ivy and
0	ash.
Central Area J28-	Broadleaved semi natural woodland dissected by A48 (M) and M4.
29 (G)	Species include hazel, hawthorn, alder, sycamore, hazel, oak, ash
Minnette Lene	and goat willow.
Minnetts Lane	Species poor hedgerow and two small areas of semi natural
site (H)	broadleaved woodland. Species include elder, blackthorn, field
Vnollbury oros	maple, hazel, hawthorn and holly
Knollbury area east end (I)	Species poor hedgerow. Species include holly, hazel, hawthorn, rose and elder.
M4 Road verge	Plantation woodland. Species include hazel, dogwood, hawthorn,
(nr New Park	sycamore, oak and ash.
farm) (J)	Sycamore, oak and asn.
Pound Hill Road	Plantation woodland. Species include dogwood, hawthorn, field
Verges (K)	maple and oak.
Knollbury	Two sections of Semi natural broadleaved woodland and species
woodland and	hedgerows. Species include hazel, hawthorn, sycamore, holly, privet,
fields (L)	elder, field maple, blackthorn and elm.
Pye Corner Farm	Mixture of scattered scrub and hedgerow. Species include willow,

Survey site	Description
(M)	bramble, hawthorn and ash.
Tata Steelworks	Species poor hedgerow and scattered scrub. Species include
(N)	bramble, hawthorn, willow, sycamore, blackthorn and buddleia.

3.4 Survey Methods

3.4.1 A combination of survey methods was used as recommended in DMRB Volume 10, Section 4, Part 6 (HA 97/01): Nature Conservation Management in Relation to Dormice (Highways Agency, 2001). The surveys for dormice comprised searches for gnawed nuts (where hazel was present); searches for other evidence of dormice, such as nests; and the placement and monitoring of nest tubes. The surveys also followed the methodology set out in the Dormouse Conservation Handbook (Bright, et al., 2006).

Targeted Nest Tube Surveys

- 3.4.2 Nest tubes constructed from stiff black plastic with a plywood tray inside are readily used by dormice and offer a means of detecting animals in the absence of gnawed hazel nuts. Nests are often the first indication that dormice are using the tubes, these can be identified by their woven structure and the incorporation of green leaves collected from the tree canopy as opposed to dark brown leaves collected by other species from the woodland floor.
- 3.4.3 All areas known to have, or identified as having, potential to support dormice were subject to a nest box tube survey as described in the Natural England's Dormouse Conservation Handbook and Natural England's Research Report 524 (English Nature, 2003). Nest tubes were attached to appropriate branches of trees and shrubs at intervals of 10-20 metres.
- 3.4.4 Nest tubes were inspected in accordance with best practice guidelines, by an experienced ecologist. Any evidence of dormouse activity including animals, nests or gnawed nuts was recorded.
- 3.4.5 Dormouse nests are woven from strips of honeysuckle bark, or similar material, and frequently have whole leaves incorporated into their outer layers. These are often collected fresh and are either green or faded to grey. The nests are spherical and lack an obvious entrance hole. This distinguishes them from a wren's nest or harvest mouse nests, both of which have distinct entrance hole and are normally made of shredded grass.

Hazel Nut Searches

3.4.6 Several species of rodents open hazelnuts but only the dormouse leaves a small round opening. Dormouse tooth marks will be found around the rim of the hole, smoothing it out, with a few tooth marks on the nut surface. There are no transverse tooth marks across the rim of the nut shell. Dormouse tooth marks may be visible to the naked eye, but use of a magnifying glass is recommended. Mice and voles also gnaw nuts, but these are generally irregular in shape and have a different pattern of surrounding tooth marks. However, most hazelnuts are opened by squirrels, which shatter them and leave a sharp, jagged irregular opening to the nut.

- 3.4.7 Dormice gnaw nuts up in the canopy, dropping shells to the ground below. Their nuts will therefore tend to be scattered and more often found below the hazel canopy rather than close to the base of the tree or shrub. Mice and voles often store nuts in caches, dormice do not.
- **3.4.8** Hazelnut searches were undertaken at several locations along the proposed route. The locations of the survey sites are shown on Figure 3.
- 3.4.9 Within each location 100 hazel nuts that have been opened by small rodents (avoiding caches and nuts opened by squirrels) were collected. If there were not many hazels in the area, all the nuts that could be found were collected.
- 3.4.10 The nuts were then taken away and looked at with the use of a microscope if required to determine whether any had been opened by dormice. It is considered that if the sample contains no nuts that have been opened by dormice it is concluded that it is highly probably dormice are not present.

3.5 Survey Effort

3.5.1 Survey effort for nest tubes can be quantified by applying the method stated in English Nature's Research Report 524 (English Nature, 2003). This methodology uses the table below to score each month according to the value of surveying.

Table 3.3: Index of probability of finding dormice present in nest boxes/tubes in any one month

Month	Index
May	4
June	2
July	2
August	5
September	7
October	2
November	2

- 3.5.2 Using 50 nest tubes as a standard and Table 3.3 as an index of the 'value' of different months for surveying, a score can be devised as an indicator of the thoroughness of a survey.
- 3.5.3 These values are based on standard of 50 tubes and therefore should be adjusted according to the number of tubes installed. For example, 100 tubes left out between September and November score 22 (7+ 2 + 2, multiplied by 2) because double the tubes are used. Natural Resources Wales recommend a score of 20 to indicate a through survey.
- In accordance with the Dormouse Conservation handbook (Bright *et al.*, 2006) the following survey areas were defined.

Table 3.4: Survey Areas

Survey area	Survey sites included
Haul Road to	Roggiett Brake Quarry Wood (E), Quarry Woods (F), Minnetts Lane
Ifton Quarry	site (H)
North of M4 and	Knollbury area east end (I), Knollbury woodland and fields (L) in
east of Junction	addition to Arup Magor area
23A	

Survey area	Survey sites included
Tata Steel site	TATA Steelworks (N) add ARUP Pye Corner Farm (M) in addition to
and Pye Corner	Arup Gwent Levels area
North of M4 and	Cefn Llogell (A)
east of Junction	
29	
North of M4 and	Gwaunshonbrown Farm (B), Pound Hill Road Verges (K) in addition
east of Junction	to Arup Castleton area in addition to Arup Castleton area
29	
North of M4	Hedge of Penylan Road (C), M4 Road verge (nr New Park farm) (J)
Junction 29	in addition to Jacobs results
South of M4 and	By Pwll Diwaelod (D), Central Area J28-29 (G) in addition to Arup
west of Junction	New Park farm area.
29	

3.5.5 The scores for these survey areas over the survey season were as follows.

Haul Road to Ifton Quarry

3.5.6 These nest tube locations are within one survey area due to their proximity and presence of suitable connecting habitat. The total number of nest tubes was 188 surveyed from July to November. Survey effort = 67.68.

North of M4 and east of Junction 23A

3.5.7 These nest tube locations are within one survey area due to their proximity and presence of suitable connecting habitat. The total number of nest tubes was 135 surveyed from July to November. Survey effort = 48.6.

Tata Steel site and Pye Corner

- These nest tube locations are within one survey area due to their proximity and presence of suitable connecting habitat. The total number of existing Arup tubes was 10 surveyed from April to November. Survey effort = 4.8. The total number of nest tubes was 90 surveyed from September to November 2015. Survey effort = 19.8.
- **3.5.9** The total survey effort for the area is therefore 24.6.

North of M4 and East of Junction 29

3.5.10 These nest tube locations are within one survey area due to their proximity and presence of suitable connecting habitat. The total number of nest tubes was 83 surveyed from June to November. Survey effort = 33.2.

North of M4 and East of Junction 29

- These nest tube locations are within one survey area due to their proximity and the presence of suitable connecting habitat. The total number of nest tubes was 42 (28 surveyed from June to November). Survey effort = 11.2. 14 were surveyed from July to November. Survey effort = 5.04.
- **3.5.12** Total number of existing Arup tubes was 34 surveyed from May to November. Survey effort = 16.32.
- **3.5.13** Therefore, the total survey effort for the area is 32.56.

North of M4 Junction 29

3.5.14 These nest tube locations are within one survey area due to their proximity and the presence of suitable connecting habitat. The total number of nest tubes was 65 surveyed from July to November. Survey effort = 23.4.

South of M4 and West of Junction 29

- 3.5.15 These nest tube locations are within one survey area due to their proximity and presence of suitable connecting habitat. The total number of nest tubes was 95 29 surveyed from June to November. Survey effort = 11.6. 66 were surveyed from July to November. Survey effort = 23.76.
- **3.5.16** Total survey effort for area is 35.36.
- **3.5.17** In addition, Arup tubes have continued to be monitored in this area, where accessible.

3.6 Limitations

- 3.6.1 Access for nest tube installation and checking of tubes previously installed by Arup was available from mid-May 2015.
- 3.6.2 Access arrangements and subsequent inductions onto Tata Steelworks land were not completed until August 2015. The additional tubes were installed at Tata Steelworks following the discovery of a dormouse nest in September 2015
- 3.6.3 At the Knollbury woodland and fields, a number of the nest tubes were damaged by cattle part way through the survey. The tubes were not replaced to minimise the risk to dormice, if any are present. This is not thought to have adversely affected the conclusions of the survey due to the number of tubes placed within the wider connected habitat.
- 3.6.4 A few other nest tubes were damaged during the survey in some areas by horses or other factors, but again it is thought that this would not adversely affected the conclusions due to the number of tubes within that survey area and the presence of dormice already confirmed at that location.
- 3.6.5 In some of the proposed search areas there was little or no hazel so not many nuts were collected. Access into some of the proposed search areas was not possible due to the road layout and barriers.

4 Results

4.1 Introduction

- **4.1.1** The results of the dormouse survey are discussed below, where summaries of each of the survey areas have been provided. Full results are provided in Annexes A and B.
- **4.1.2** The locations of evidence of dormouse presence are shown on Figure 2.

Arup Survey Sites

4.1.3 The survey of the following areas was continued during 2015. Dormice had previously been recorded at the New Park Farm and Castleton areas. No dormice had been recorded within the Gwent Levels and Magor areas.

New Park Farm Area

4.1.4 A single dormouse was recorded during the June visit within this area. Dormouse nests have been recorded during further visits undertaken in July and September. An old dormouse nest and two dormice were recorded during the November survey.

Castleton Area

- 4.1.5 A single dormouse was present in the area south of Pen-y-lan Farm in June and dormouse nests have been recorded during further visits undertaken in July, September and November.
- 4.1.6 No evidence of dormouse was recorded in the Pound Hill area during the June, July and November surveys. A dormouse was present and three dormouse nests were recorded during the September survey.

Gwent Levels Area

4.1.7 Access was only granted in this area in August. A dormouse nest was recorded within a hedgerow south of Tata Steelworks. The tubes around Pye Corner were not present/easily found so these were replaced. These survey areas were extended in August 2015. The results from these areas are discussed below under the Tata Steel site and Pye Corner section.

Magor Area

4.1.8 The area was surveyed during June, August, October and November. Not all the original Arup tubes were found, so further tubes were placed in the surrounding area to compensate for this. No evidence of dormouse was recorded within this area. The results of the extended area are discussed below under the North of M4 and east of Junction 23A sections.

New Survey Sites

4.1.9 Nest tubes were installed in the following areas and surveys carried out during 2015. The results of the new survey areas are provided below.

Haul Road to Ifton Quarry

- **4.1.10** Roggiett Brake Quarry Woods: Nest tubes were installed in May 2015 and surveyed between August and November. No evidence of dormouse has been recorded.
- **4.1.11 Quarry Woods:** Nest tubes were installed in May 2015 and surveyed between August and November. No evidence of dormouse has been recorded.
- **4.1.12 Minnetts Lane Site:** Nest tubes were installed in June 2015 and surveyed between August and November. During the November survey seed heads of Old man's beard (*Clematis vitalba*) were found within one of the tubes, which may indicate the possible presence of dormouse, but it cannot be confirmed. No other evidence of dormouse has been recorded in this area.

North of M4 and East of Junction 23A

- **4.1.13 Knollbury Area (East End) Near Bencroft Road:** Nest tubes were installed in June 2015 and surveyed between August and November. No evidence of dormouse was recorded during the August survey. A single dormouse nest (the same nest) was recorded during the September and November survey.
- 4.1.14 Knollbury Woodland and Fields: Nest tubes were installed in June 2015 and surveyed during August and November. No evidence of dormouse was recorded during the August survey. The same single dormouse nest was recorded during the October and November survey, although a wood mouse was present during October.

Tata Steel Site and Pye Corner

- **4.1.15 Pye Corner Farm:** Access was granted to the Arup survey area during July 2015. As no nest tubes were found, further nest tubes were installed in the surrounding area. These tubes were surveyed in August and November and no evidence of dormouse was found.
- **4.1.16 Tata Steelworks:** Nest tubes were installed in August 2015 as an extension to the Gwent Levels survey area and after a dormouse nest had been recorded with a hedgerow south of the steelworks. The tubes were surveyed in September and November and a likely dormouse nest was recorded within scrub along an access track within Tata land.

North of M4 and East of Junction 29

4.1.17 Cefn Llogell: Nest tubes were installed in May 2015 and surveyed during July and November. Four dormouse nests were recorded during the survey in July. Five live dormice and nine nests were recorded in September and seventeen potential dormouse nests from old to new recorded in November.

North of M4 and East of Junction 29

4.1.18 Gwaunshonbrown Farm: Nest tubes were installed in May 2015 and surveyed between July and November. Two dormouse nests were recorded during the survey in July; five dormouse nests were recorded each in September and November.

4.1.19 Pound Hill Road Verges: Nest tubes were installed in June 2015 and surveyed between July and November. Three dormouse nests were recorded in November.

North of M4 Junction 29

- **4.1.20 Hedge off Penylan Road:** Nest tubes were installed in May 2015 and surveyed between July and November. One dormouse nest was recorded during the survey in July. This was recorded again in September. Two different dormouse nests were recorded in November.
- 4.1.21 M4 Road Verge near New Park Farm: Nest tubes were installed in June 2015 and surveyed between July and November. One dormouse nest with a dormouse present was recorded during the survey in July. Five live dormouse and five dormouse nests were recorded in September. Thirteen dormouse nests were recorded in November, including one with an adult and juvenile present.

South of M4 and West of Junction 29

- **4.1.22 By Pwll Diwaelod:** Nest tubes were installed in May 2015 and surveyed between August and November. No evidence of dormouse has been recorded.
- **4.1.23 Central Area at J28-29:** Nest tubes were installed in June 2015 and surveyed between July and November. A live dormouse was recorded in a wood mouse nest during the September survey. A wood mouse nest was recorded during the November survey.

Hazel Nut Searches

4.1.24 Hazel nut searches were carried out between 2nd and 20th November 2015 in additional locations to the nest tube surveys, undertaken in 2015. The locations, the number of nuts collected and the number opened by dormice are provided in the table below. The survey locations are shown on Figure 3.

Table 4.1: Hazelnut Survey Areas and Results

Survey area	Description	Number of nuts opened by mammals collected	Number of confirmed Dormouse opened nuts
A	Occasional small hazel on roundabout, occasionally fresh hazelnuts which were mostly uneaten. No hazel in verge to west or east.	20	0
В	Occasional small to mid-hazel trees with fresh, uneaten hazelnuts frequently found.	33	0
С	Few mid-size hazel trees, hazelnuts mostly old.	115	0
D	No hazel trees.	0	0
E	No hazel to the east of St Brides road, small hazel trees to the west with frequent uneaten fresh hazelnuts.	7	0
F	Occasional/frequent hazel trees to the north, few uneaten or fresh	70	0

Survey area	Description	Number of nuts opened by mammals collected	Number of confirmed Dormouse opened nuts
	hazelnuts found.		
G	Occasional small to mid-size hazel trees, fresh uneaten or squirrel eaten hazelnuts frequent.	25	0
Н	Not accessed.	0	0
I	Occasional mid-size hazel trees, hazelnuts mostly old.	32	0
J	Very few mid-size hazel trees, hazelnuts mostly old.	16	0
K	Very small few hazel trees, hazelnuts mostly old.	8	0
L	Occasional mid-size hazel trees, hazelnuts mostly old.	58	0
М	Abundant small and mid-size hazel trees, few hazelnuts found.	37	0
N	Small to mid-size hazels abundant/dominant at western end. Hazel trees much sparser further east where woodland has a distinct canopy and sprawling bramble and ivy ground flora.	46	0
0	Frequent small and mid-size hazel trees, frequent fresh hazelnuts	100	3
Р	No hazel trees.	0	0
Q	No hazel trees.	0	0
R	No hazel trees.	0	0

- **4.1.25** Dormouse gnawed hazelnuts were only found at Location O, which is south of the A48, west of Pound Hill in Castleton.
- **4.1.26** Several of the areas had either no hazel or no mammal opened hazelnuts, therefore no nuts were collected. Access could not be gained to Location H due to the road layout and barriers.

New Park Farm Results (Atkins)

- 4.1.27 The M4 widening scheme monitoring within the New Park Farm north and New Park Farm south areas which was previously undertaken by Jacobs in 2014 was continued by Atkins in 2015.
- 4.1.28 These sites were surveyed in March, May, August and October 2015. No evidence of any dormouse activity has been discovered at the New Park Farm south site. Within the road verge at the New Park Farm north site four dormice (one adult female and three juveniles (one female and 2 male) were recorded in a single box in October. No other evidence of dormouse was found.

5 Discussion

5.1 Introduction

- 5.1.1 The 2015 dormouse survey focused on the continued monitoring of Arup nest tubes in areas where dormouse had previously been recorded and also in areas where dormouse had not been recorded to ensure confidence in the likely absence of dormouse from these areas. The survey included areas where the required amount of survey effort had not been achieved during the 2014 survey season.
- In addition, survey effort was focused at the far eastern end of the new section of motorway near Magor, near the proposed Ifton Quarry haul road and other areas not previously surveyed during 2014. The survey in the area of the Castleton Junction was also extended into connected hedgerows to further investigate the distribution of dormouse in that area.

5.2 Survey Findings

- 5.2.1 Dormice have continued to be recorded in Arup survey sites within the New Park Farm and Castleton areas. A single dormouse nest was recorded within the hedgerow south of Tata Steelworks, where no evidence of dormouse had previously been recorded. No dormice have been recorded in the Arup tubes in the Magor area.
- 5.2.2 Within the 2015 new survey areas, no dormice have been recorded within the new areas at Tata Steelworks or Pye Corner. Possible evidence of dormouse was found within a tube within the proposed Ifton Quarry, no other dormouse evidence was found in this area.
- 5.2.3 Dormouse presence has been recorded in all the other 2015 new survey areas. These areas are both north and south of the existing M4 motorway between Junctions 28 and 29 at the western end and north of the M4 east of Junction 23A at the eastern end of the new section of motorway.
- 5.2.4 Dormouse nests and live dormice were frequently recorded at the western end of the new section of motorway throughout the survey period, whereas dormouse nests have only been recorded between September and November at the eastern end and only two confirmed nests have been recorded within this area.
- 5.2.5 Dormouse gnawed hazelnuts were only found at one location during the survey. This location was within the western part of the new section of motorway, south of the A48, west of Pound Hill in Castleton, within the same roadside verge where dormouse have been confirmed during the nest tube surveys.

5.3 Key Considerations

5.3.1 As dormouse is a European protected species, mitigation measures must be put in place prior to any construction works that could affect their habitats to protect the animals.

5.4 Further Surveys

5.4.1 Further monitoring of dormouse will be required pre-construction to inform the Method Statement which will be needed to support a European Protected Species licence application.

References

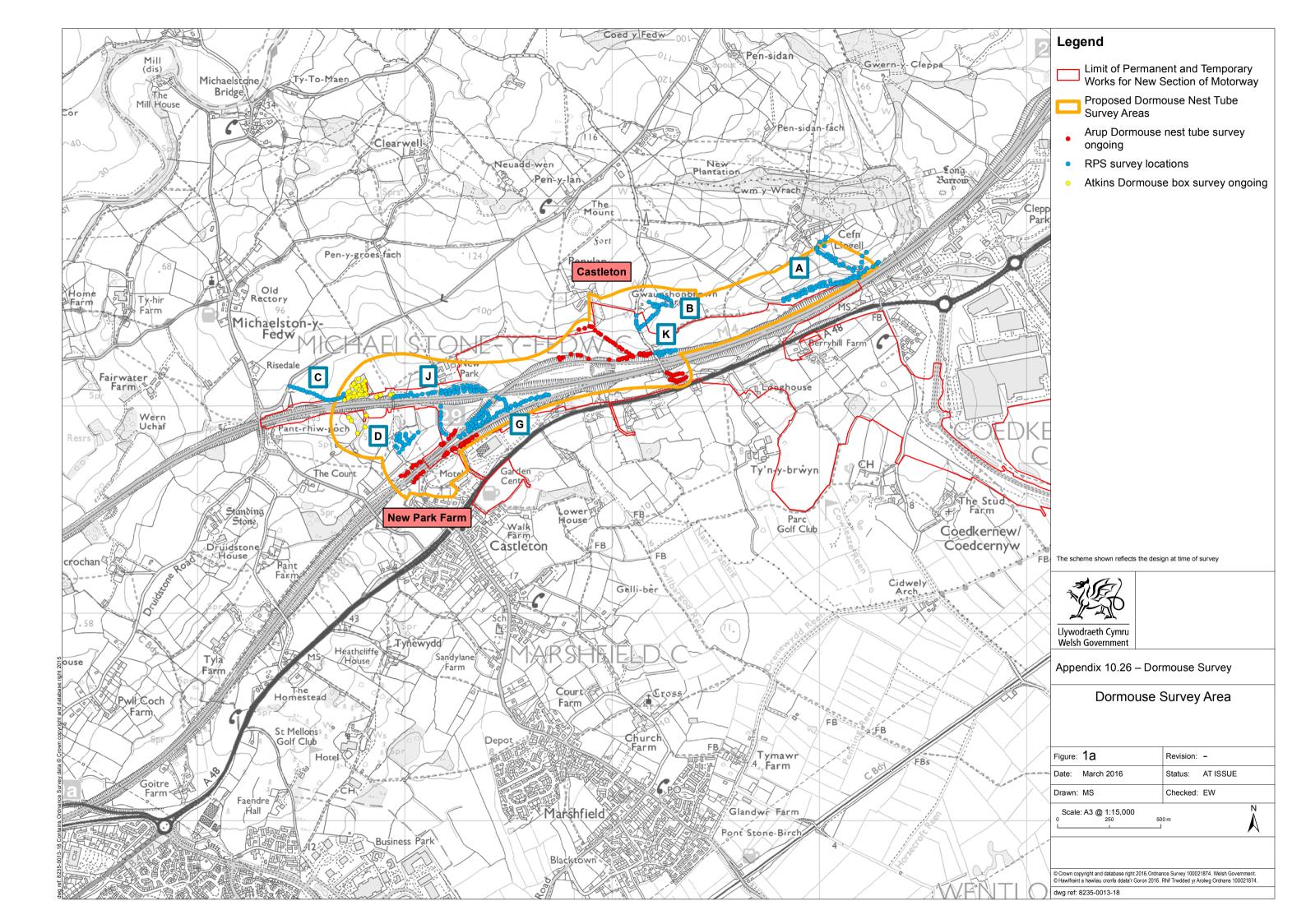
Bright, P.W., Mitchell, P. & Morris, P.A. 1994. *Dormouse distribution: survey techniques, insular ecology and selection of sites for conservation.* Journal of Applied Ecology. 31: 329–339

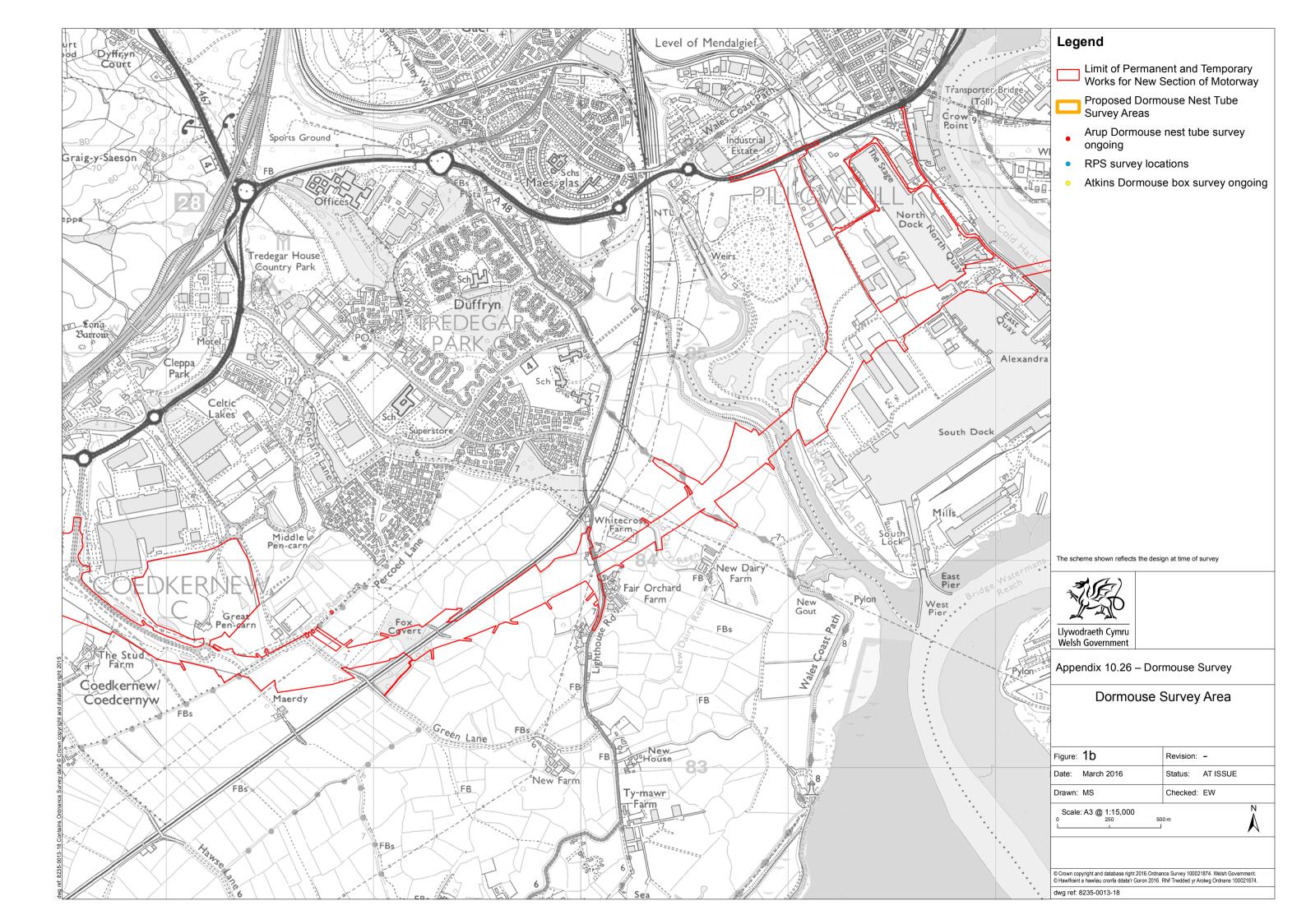
Bright, P.W., Morris, P.A and Mitchell-Jones, T, 2006. *The Dormouse Conservation Handbook- Second edition*. English Nature, Peterborough.

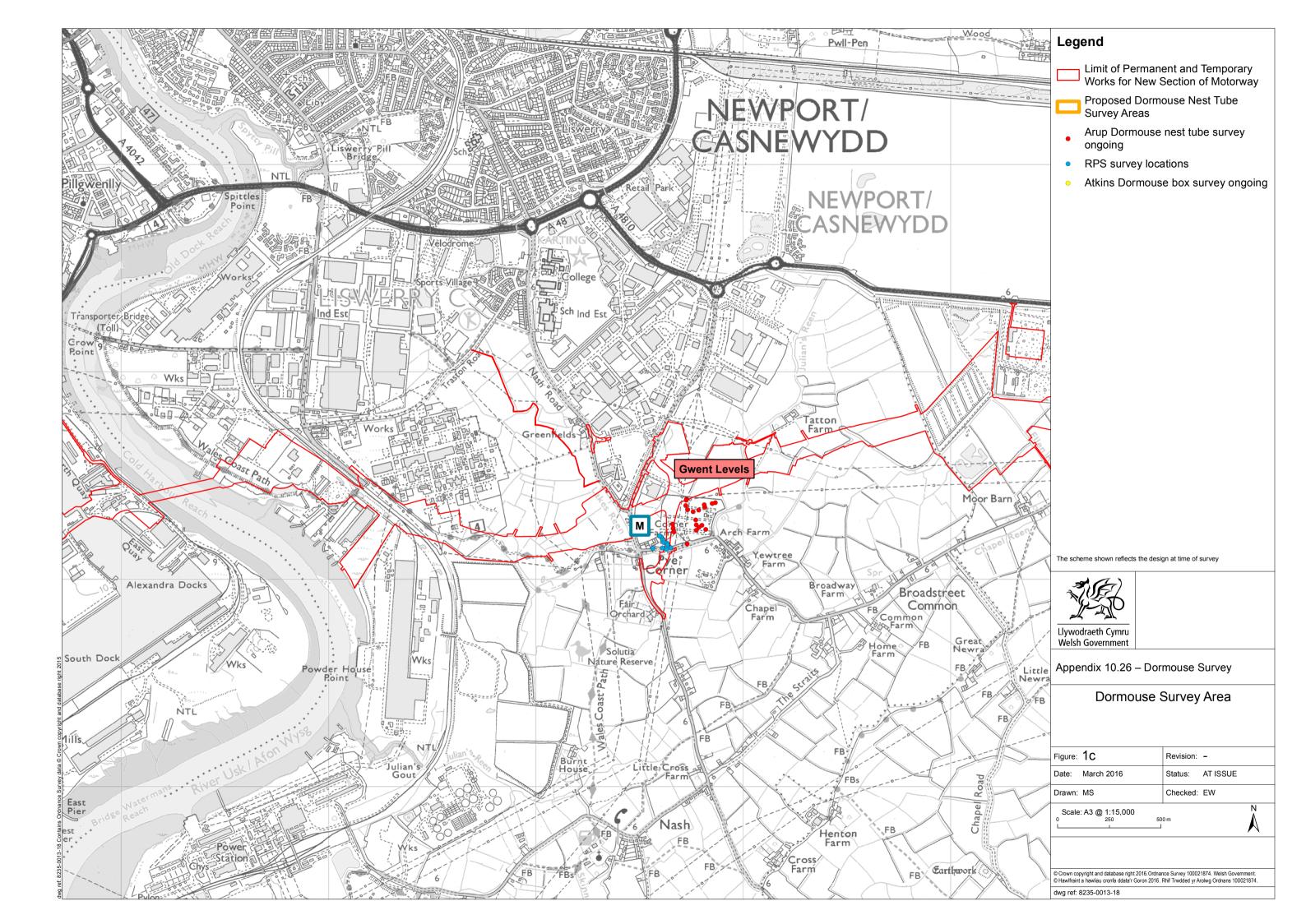
Great Britain (2010) *The Conservation of Habitats and Species Regulations 2010.* London, HMSO

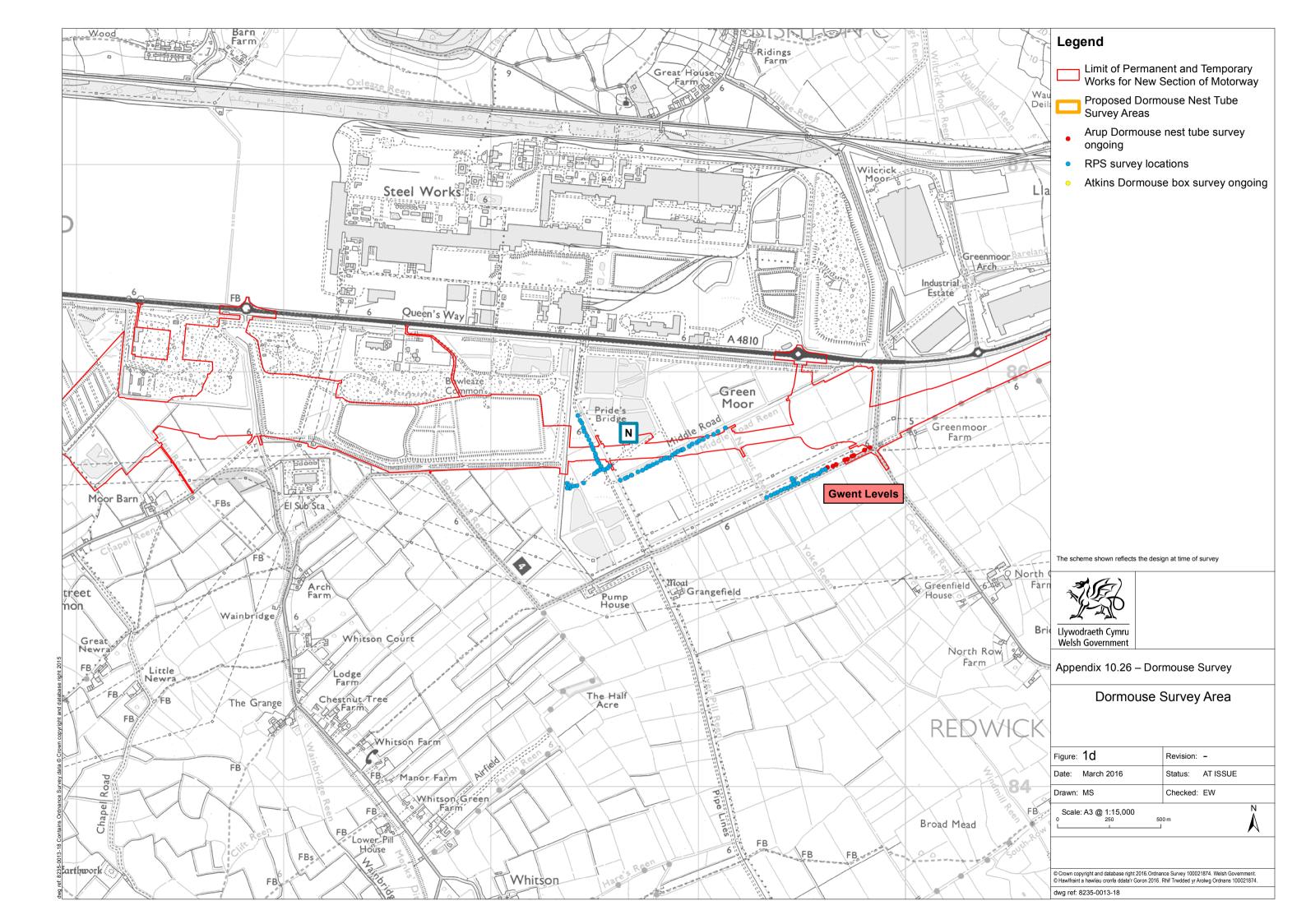
Great Britain (1981) *The Wildlife and Countryside Act* 1981 (as amended). London, HMSO. UK BAP (2005). UK Biodiversity Action Plan. List of priority species: http://www.ukbap.org.uk

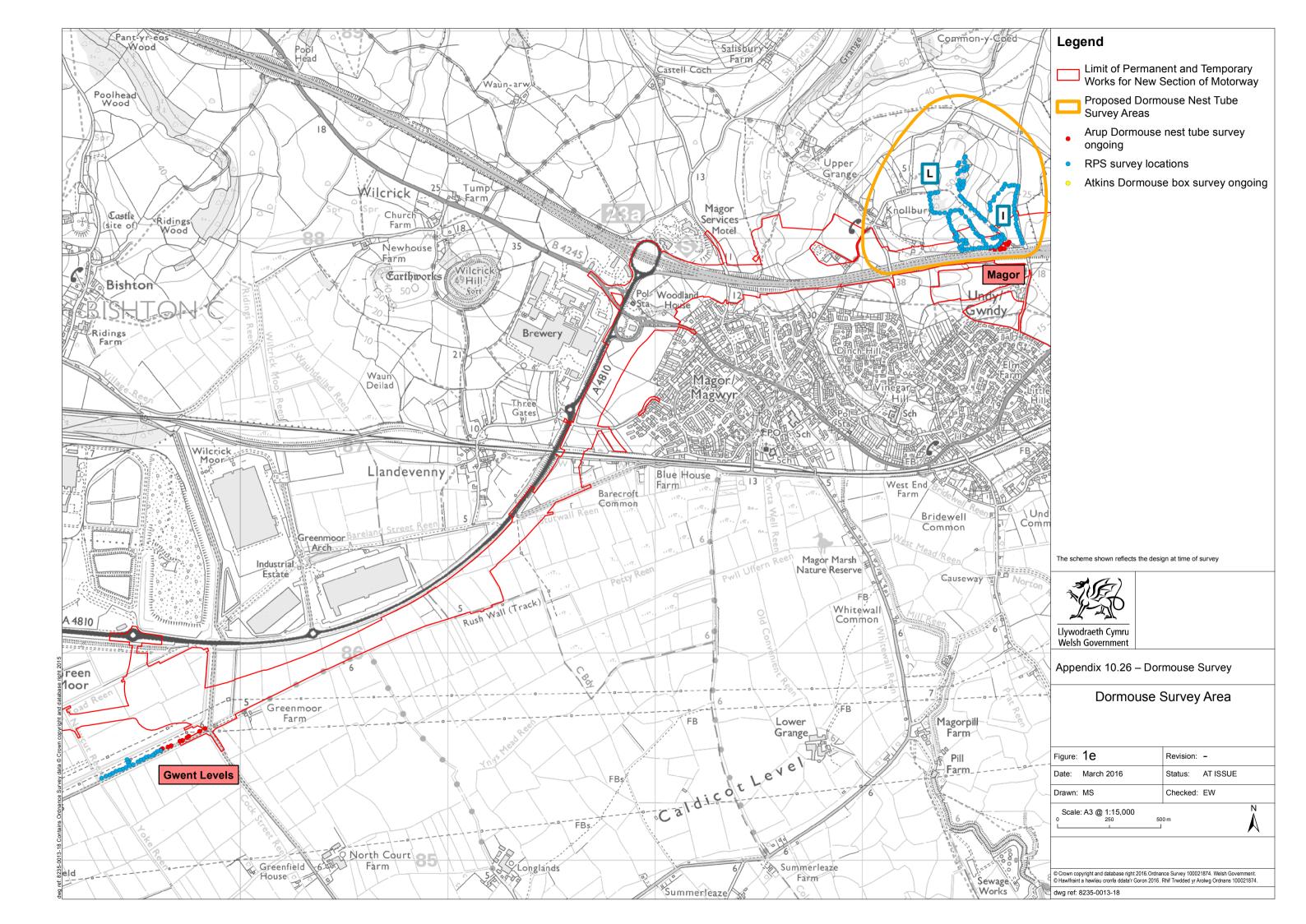
Figures

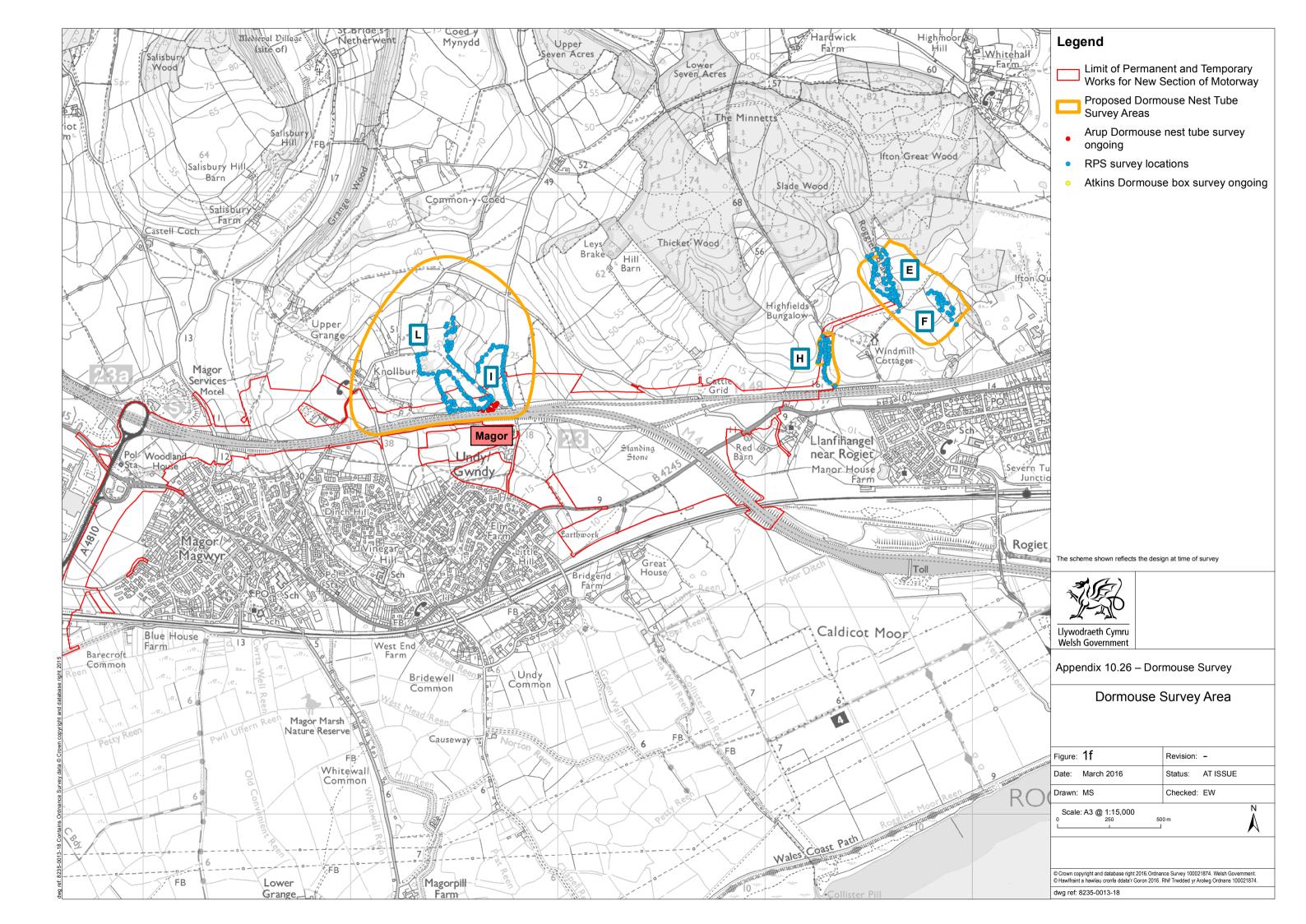


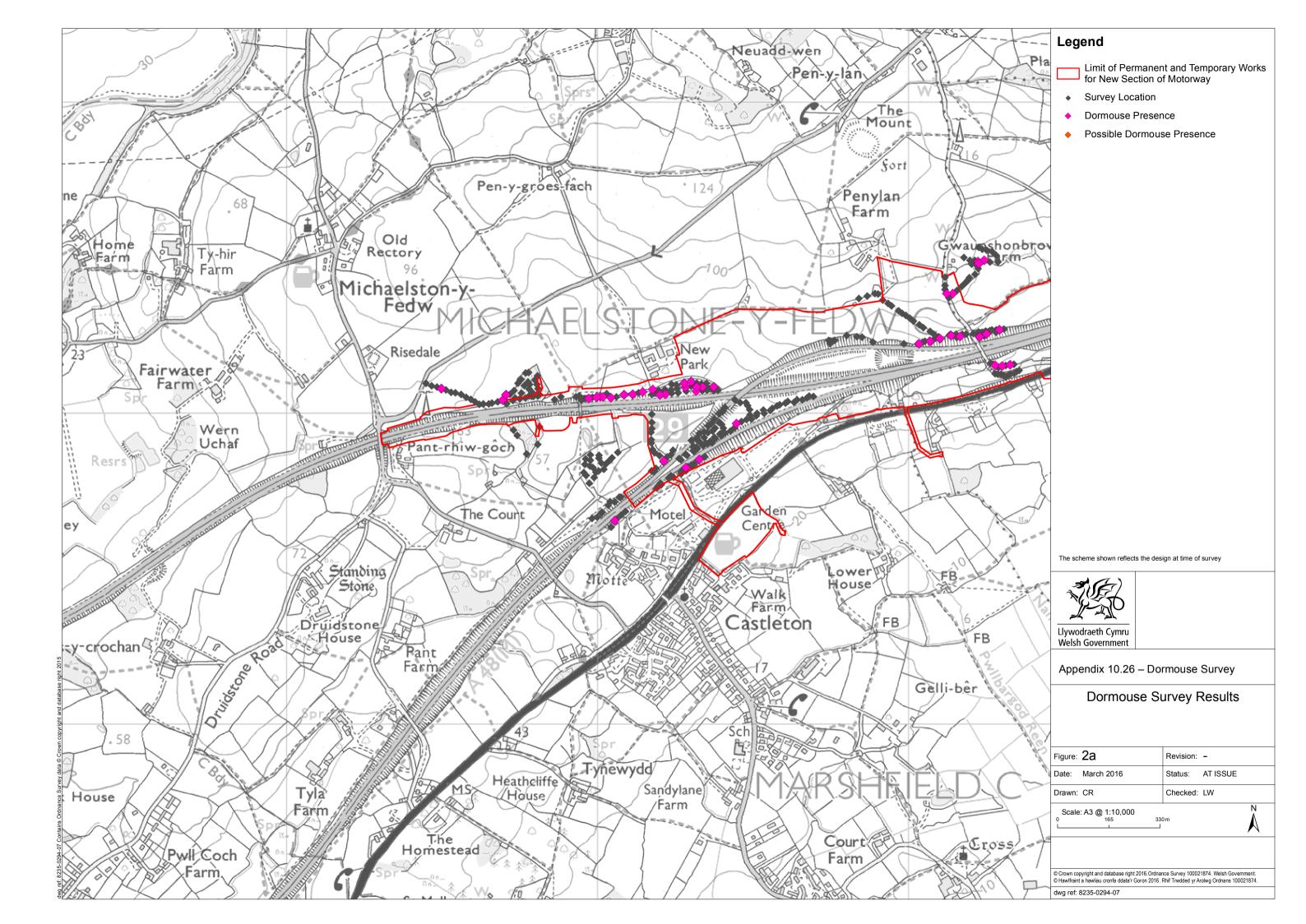


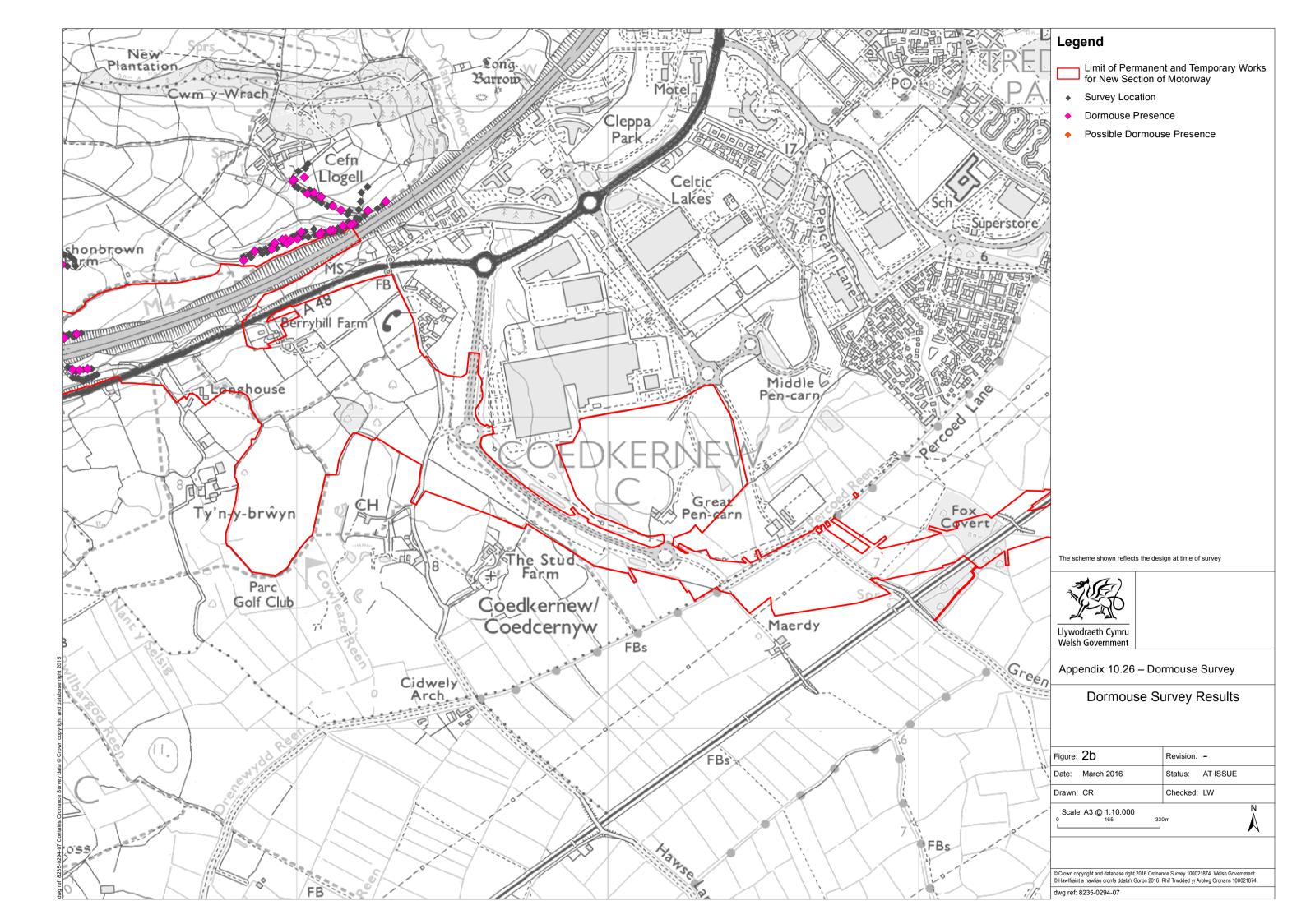


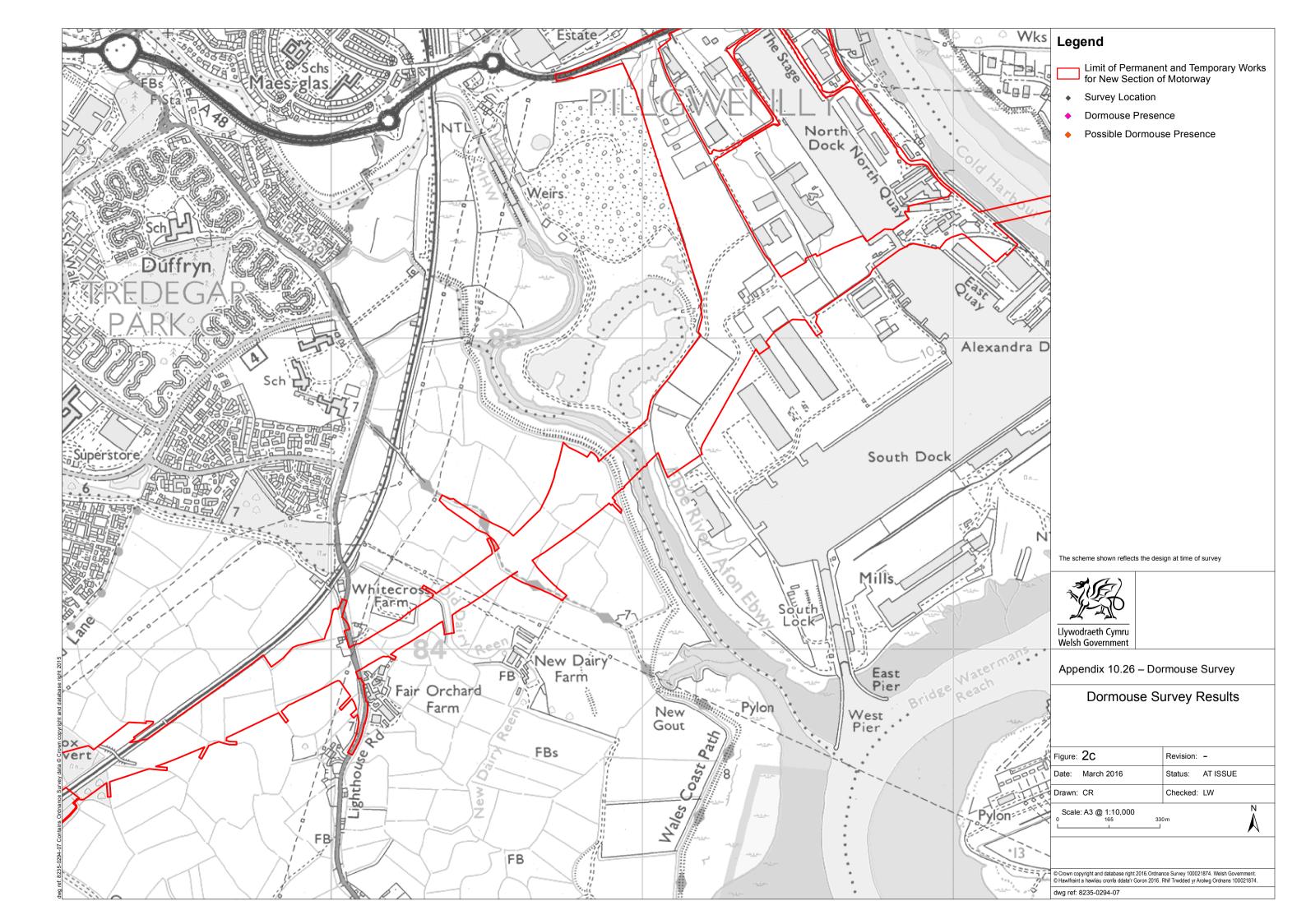


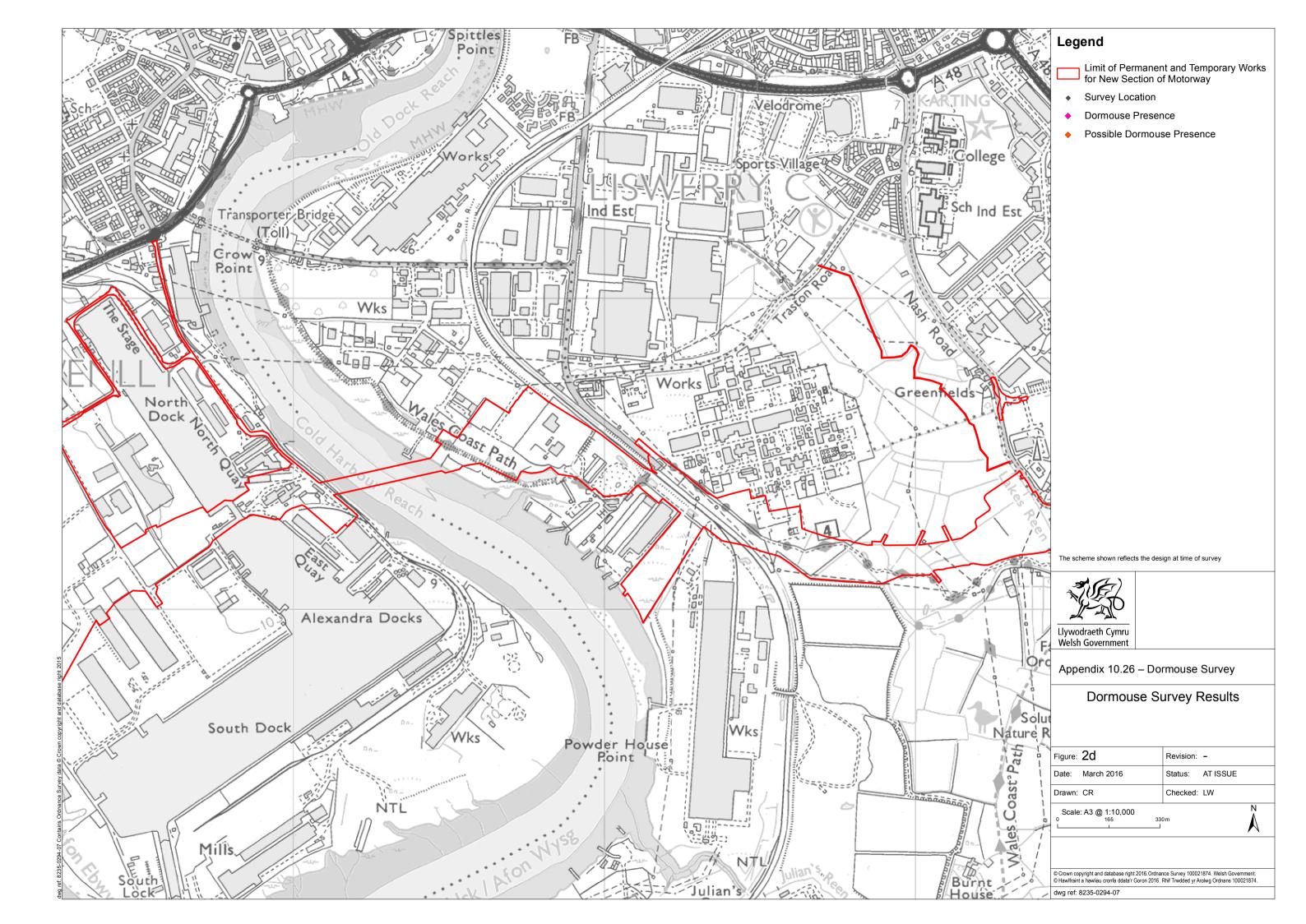


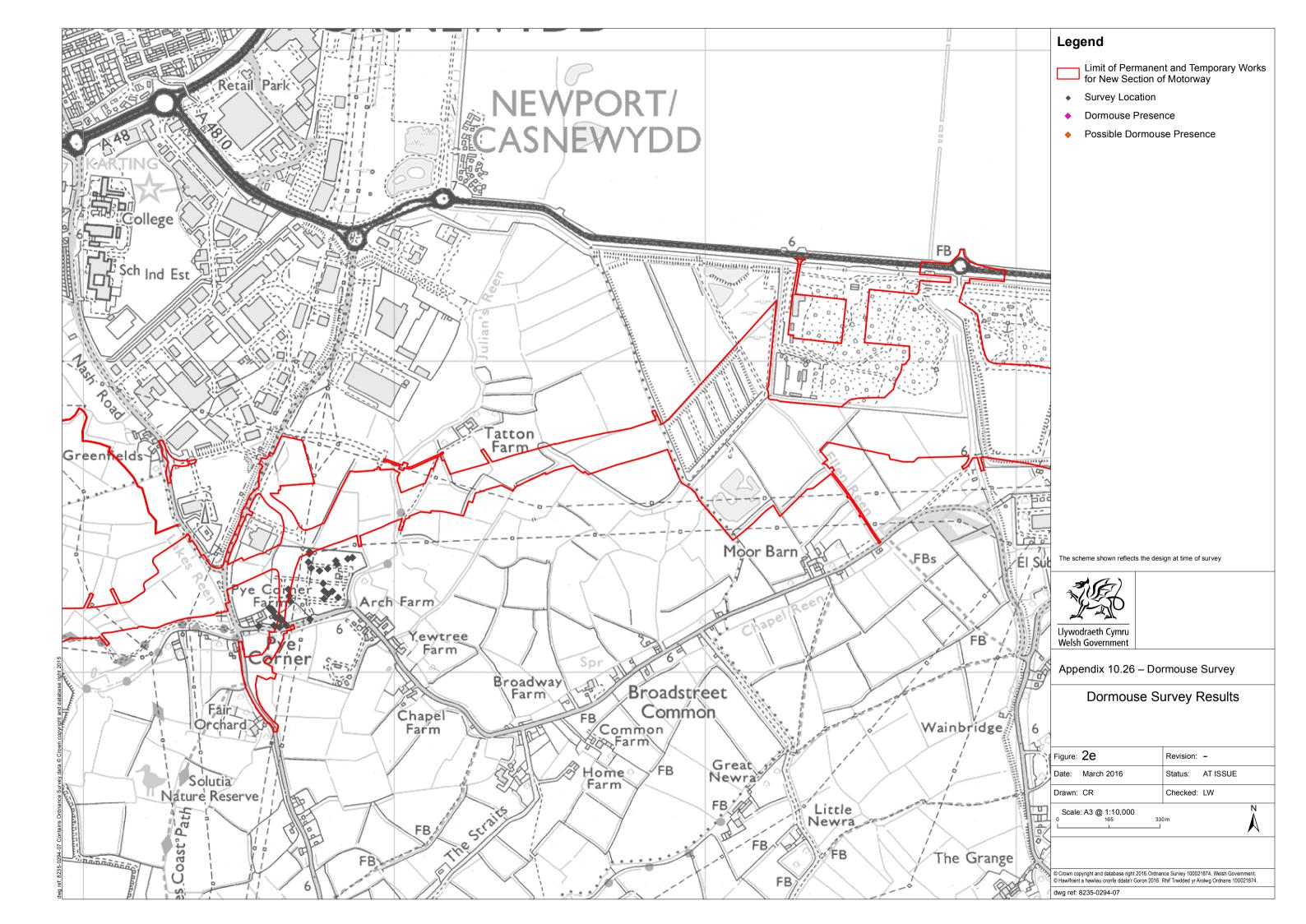


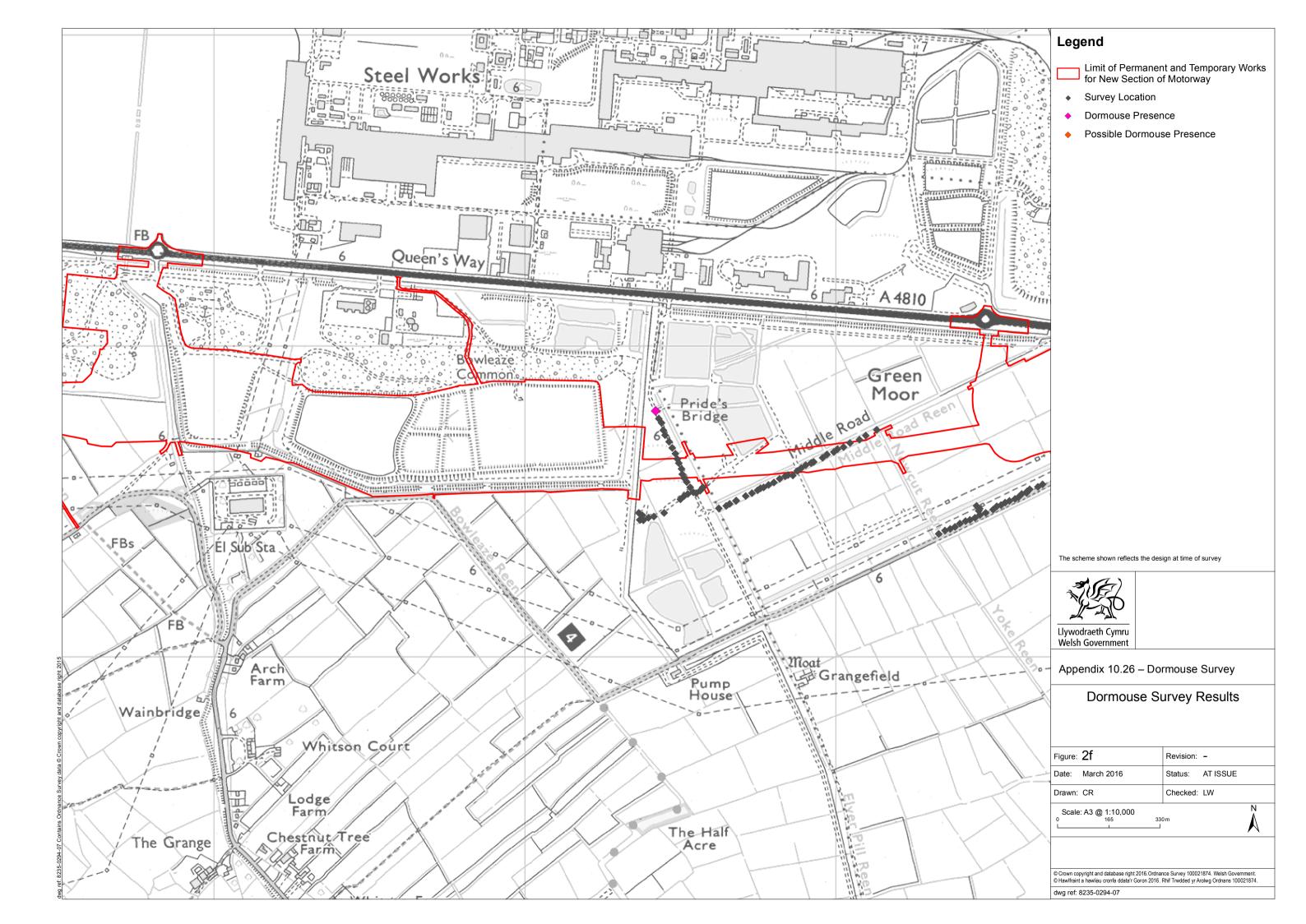


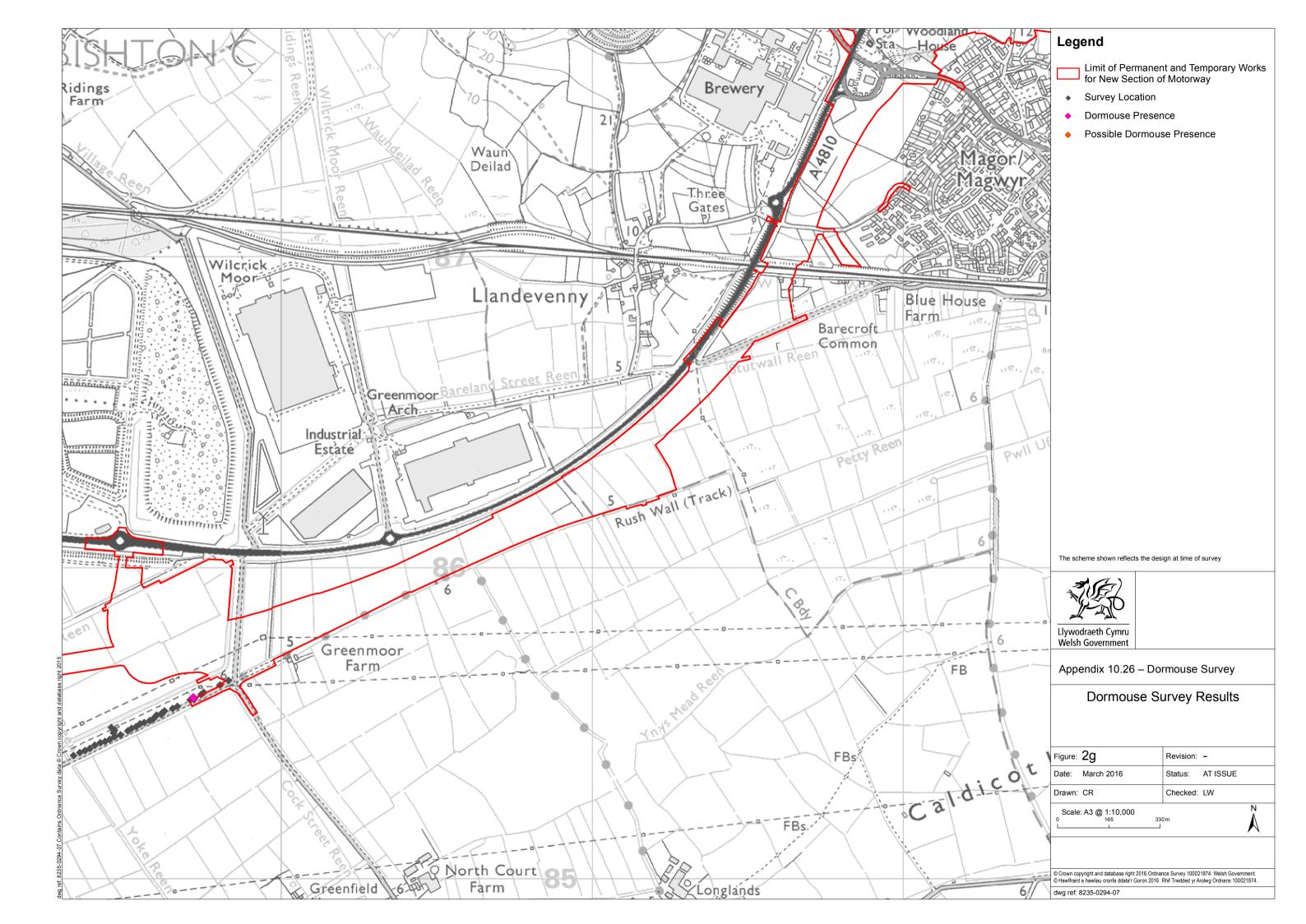


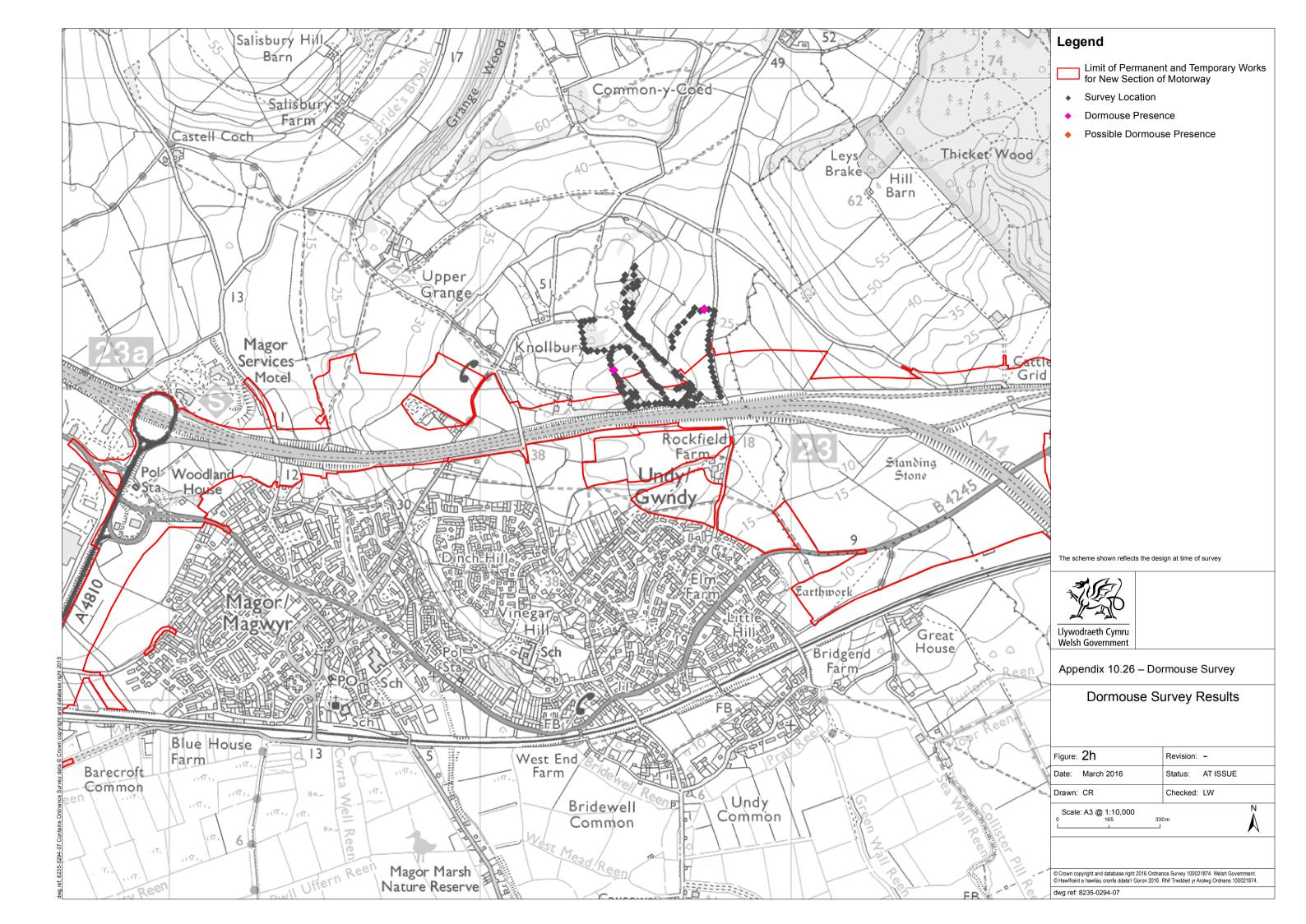


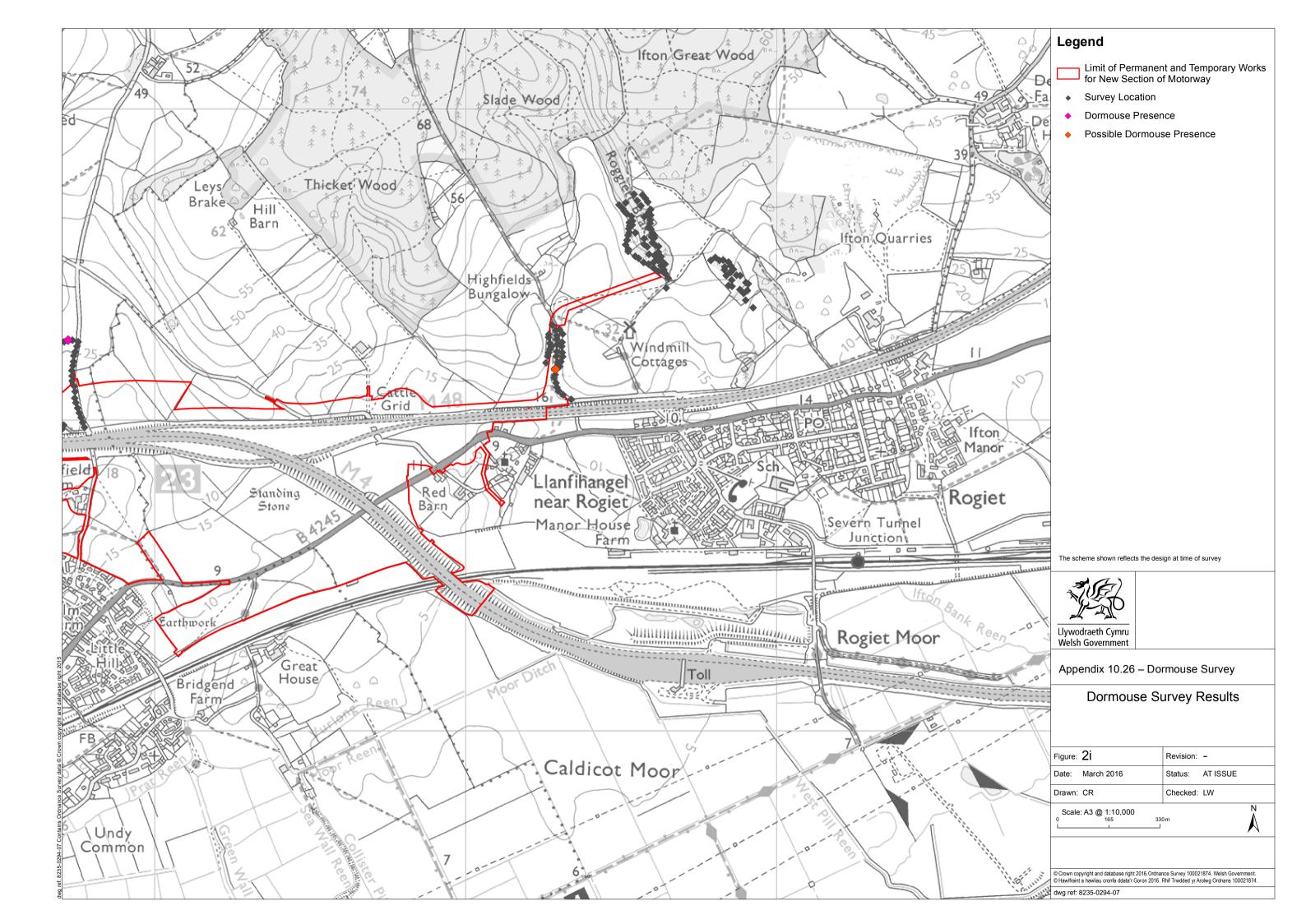


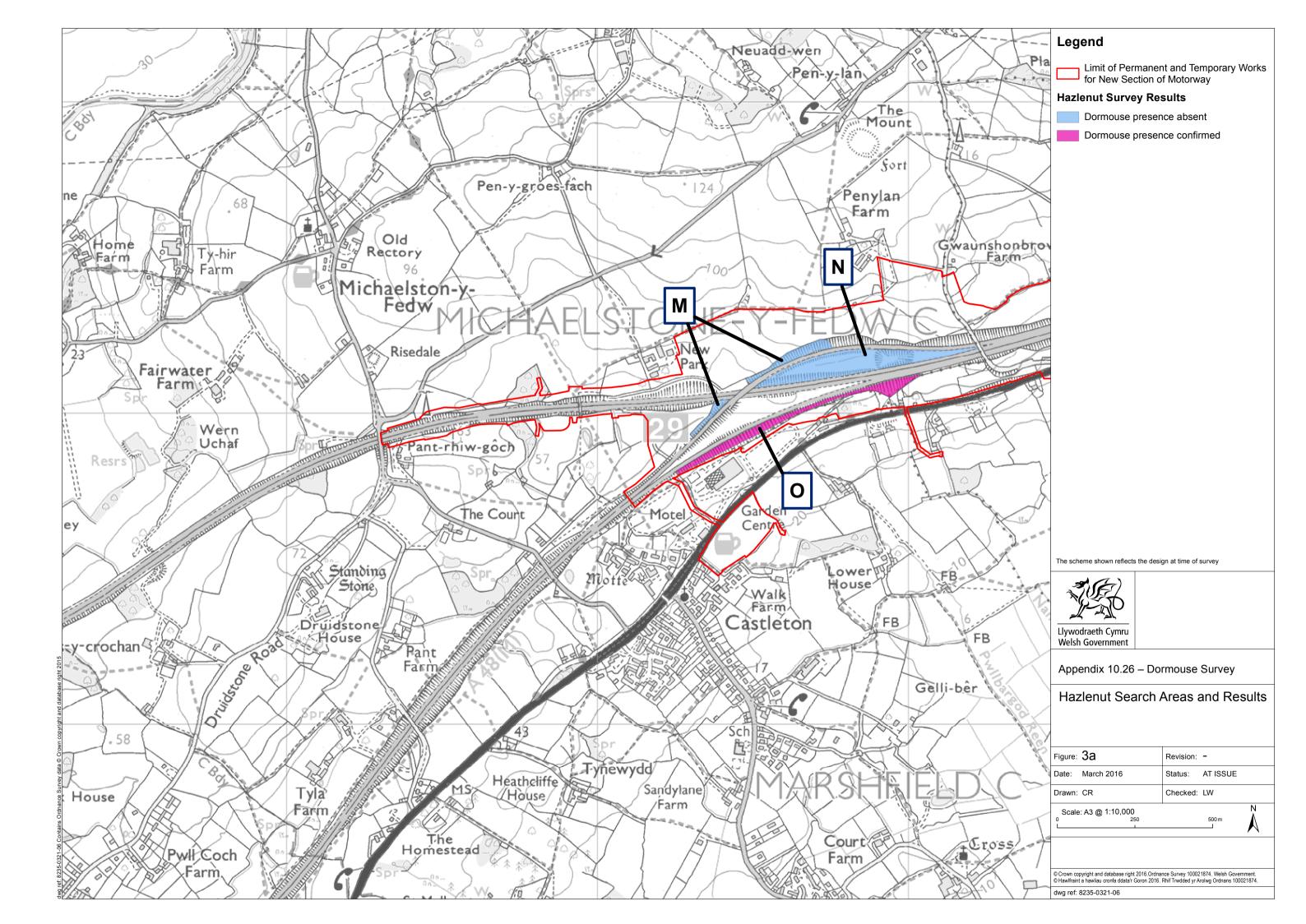


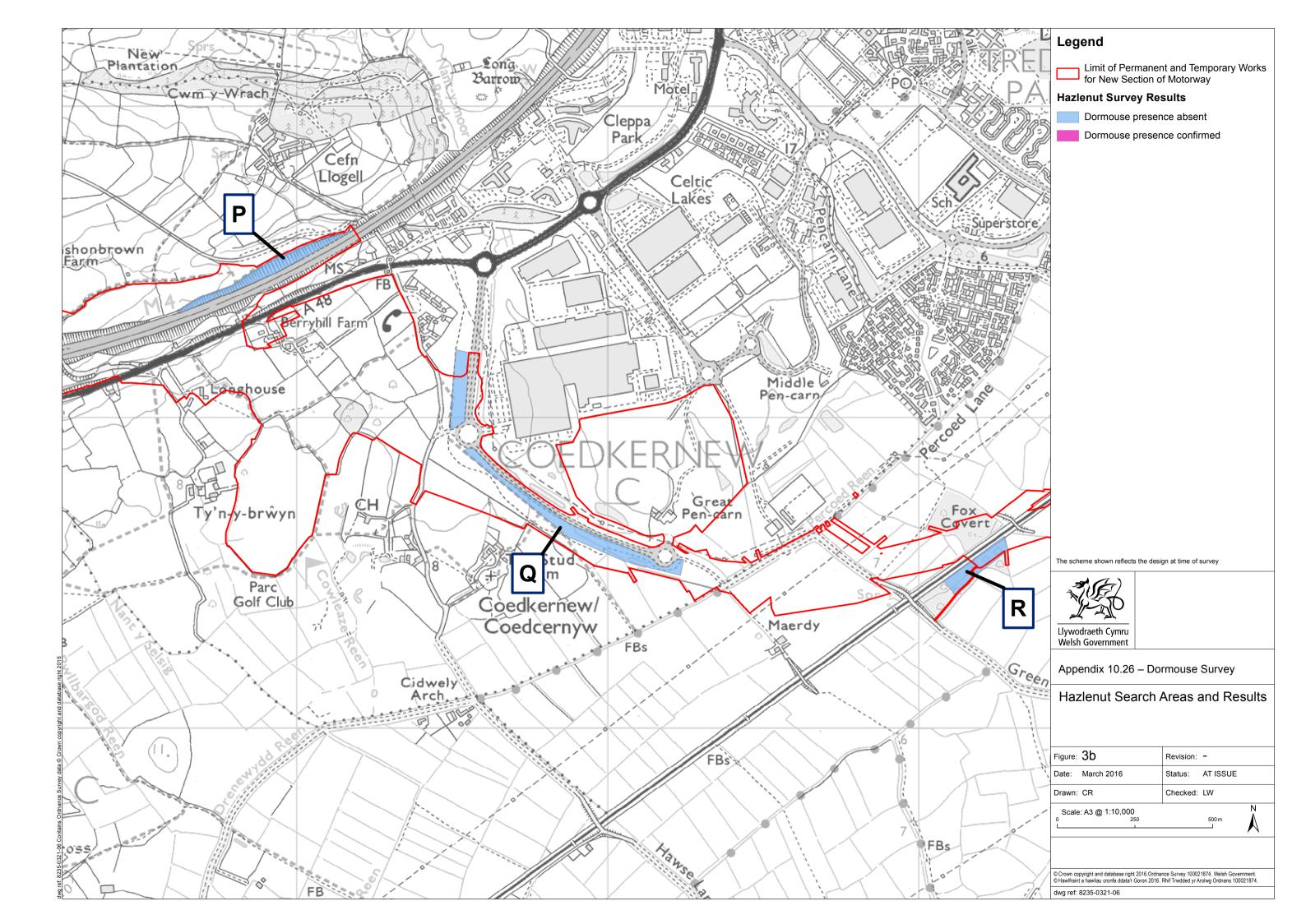


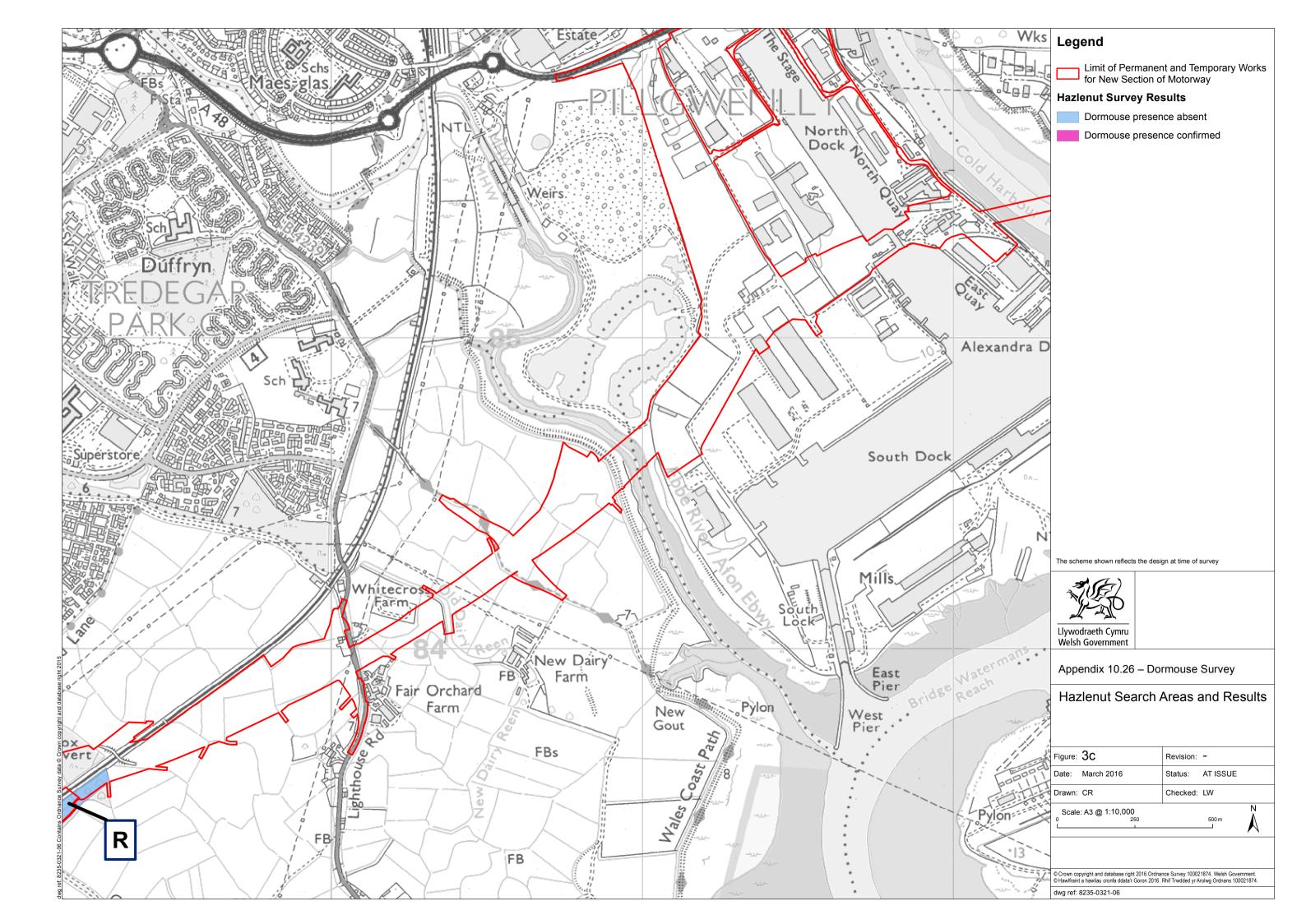


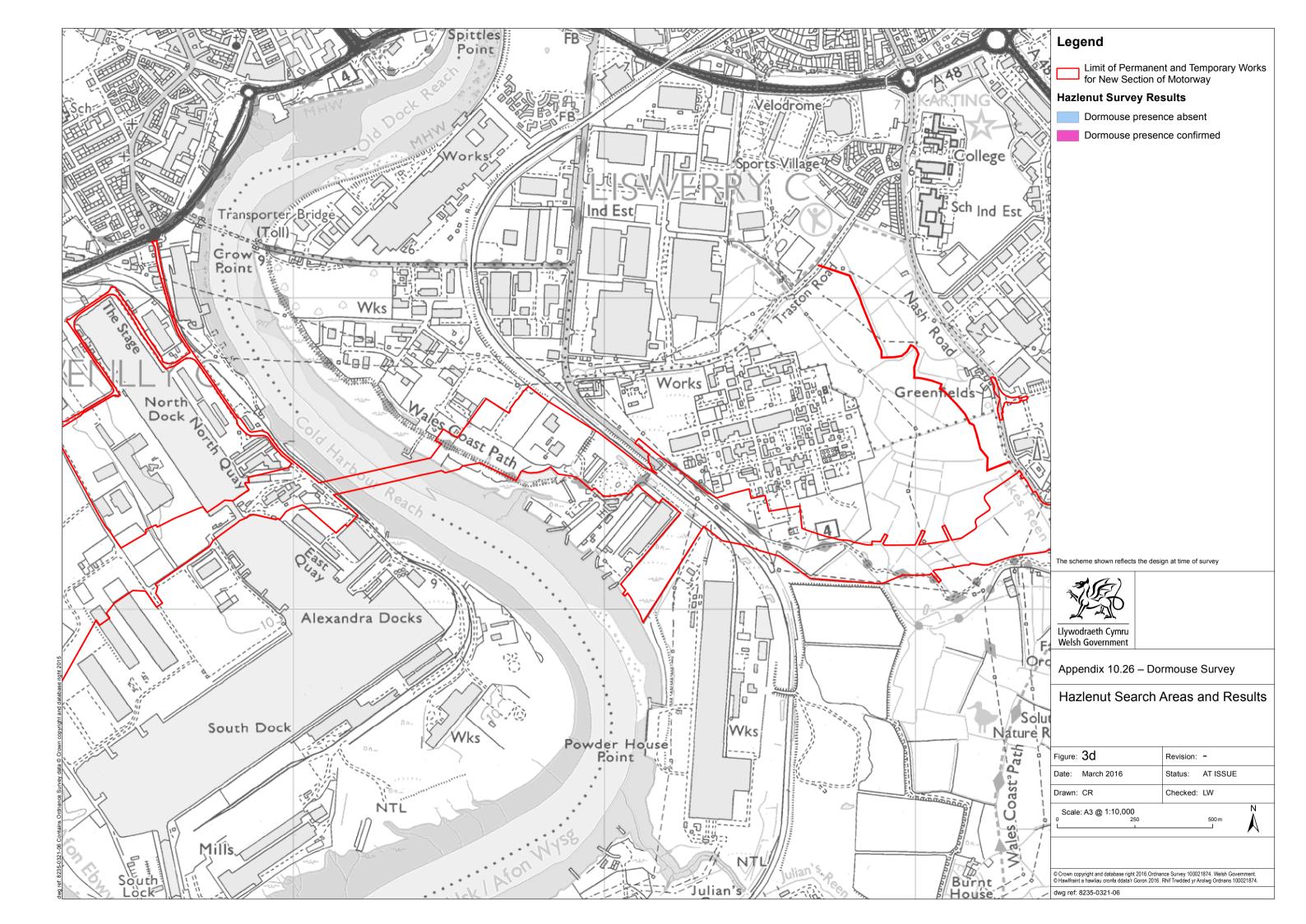


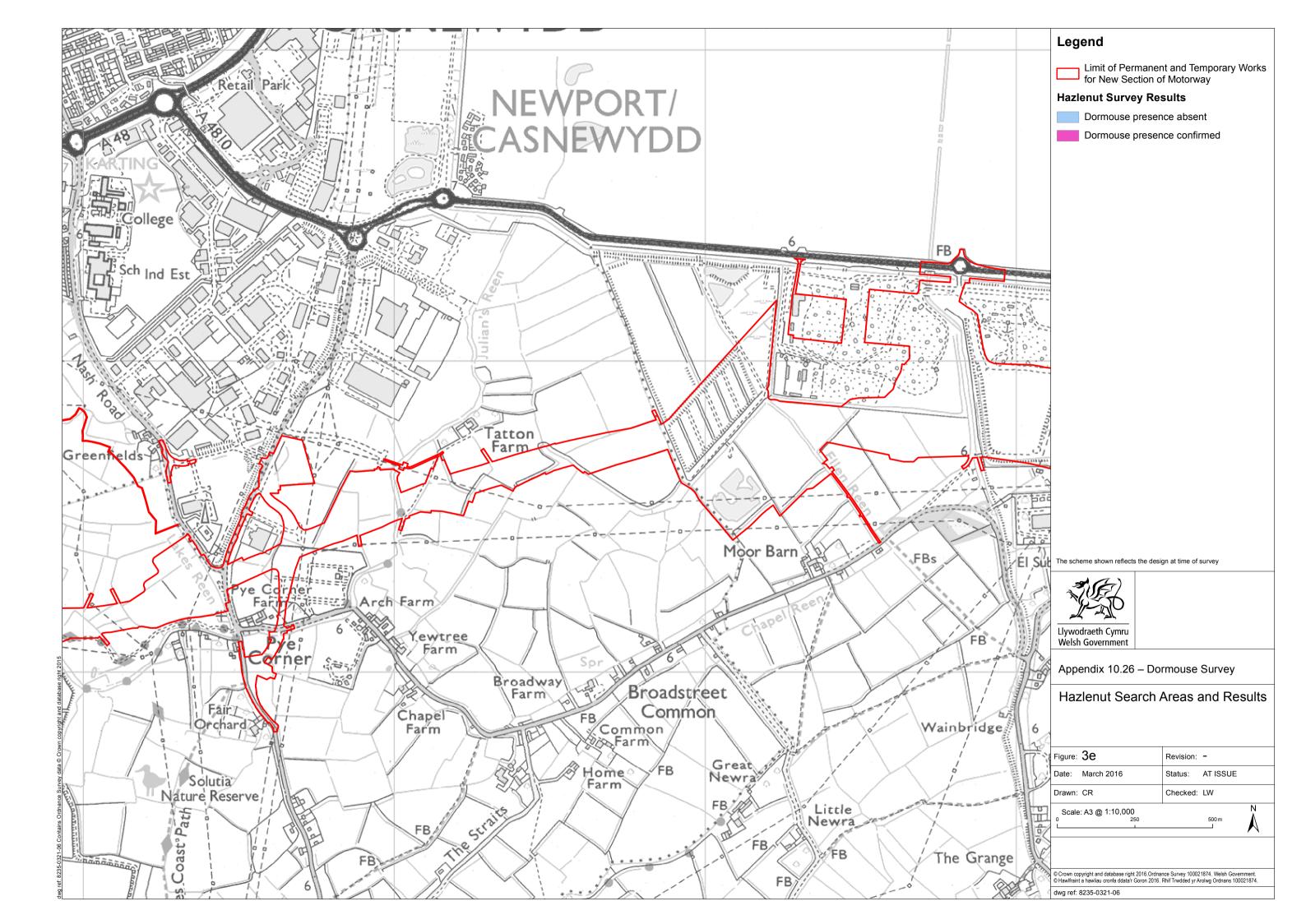


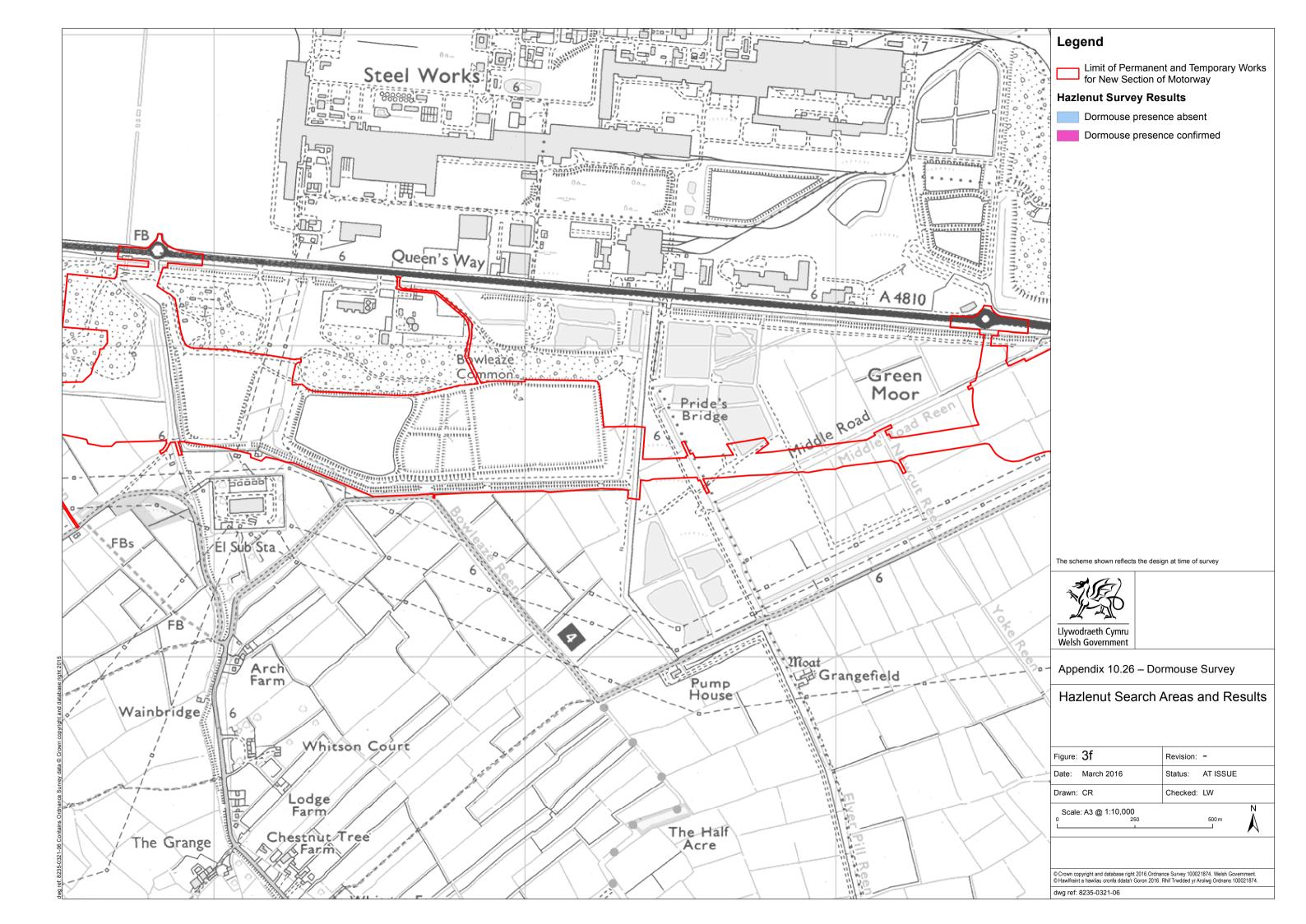


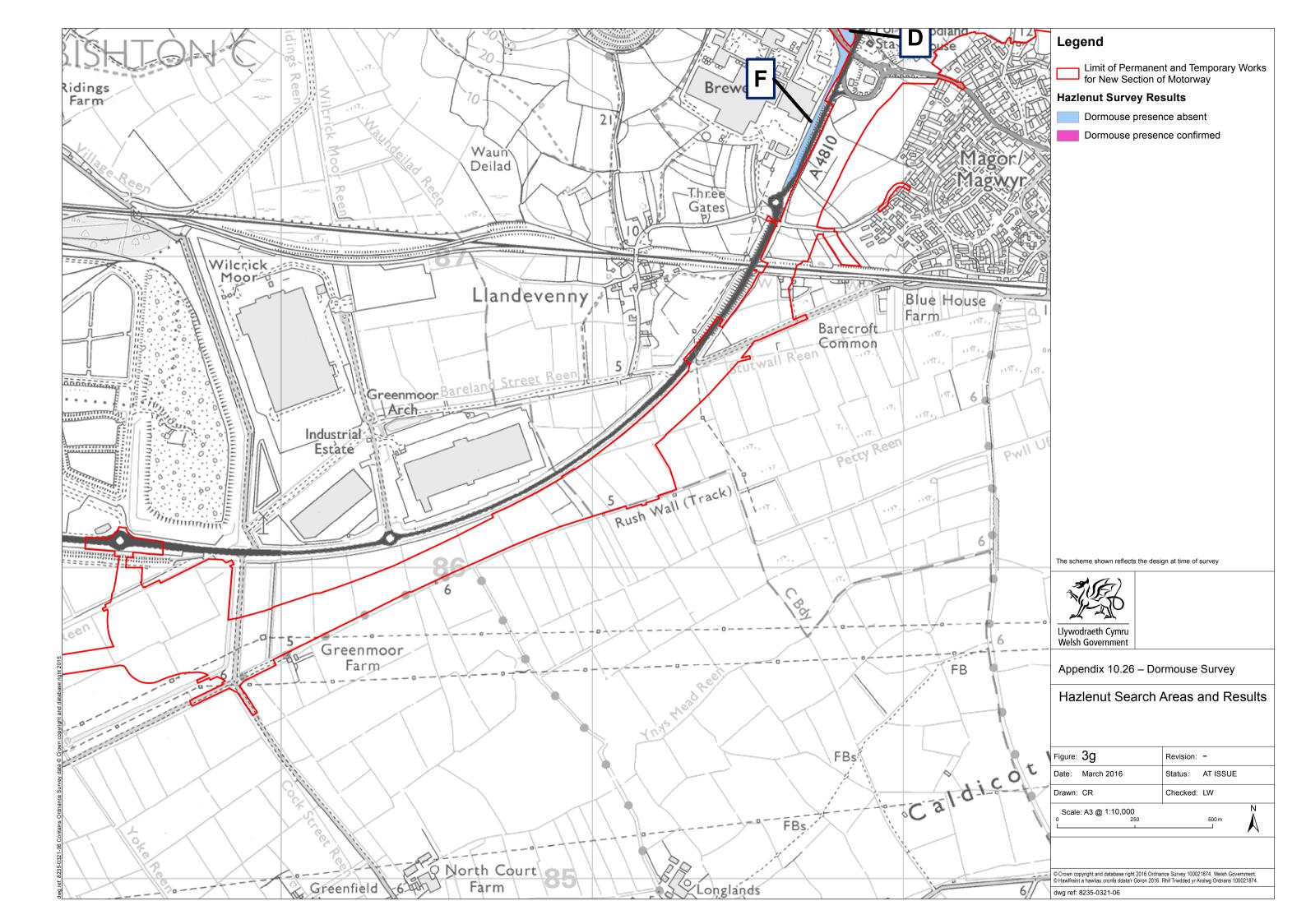


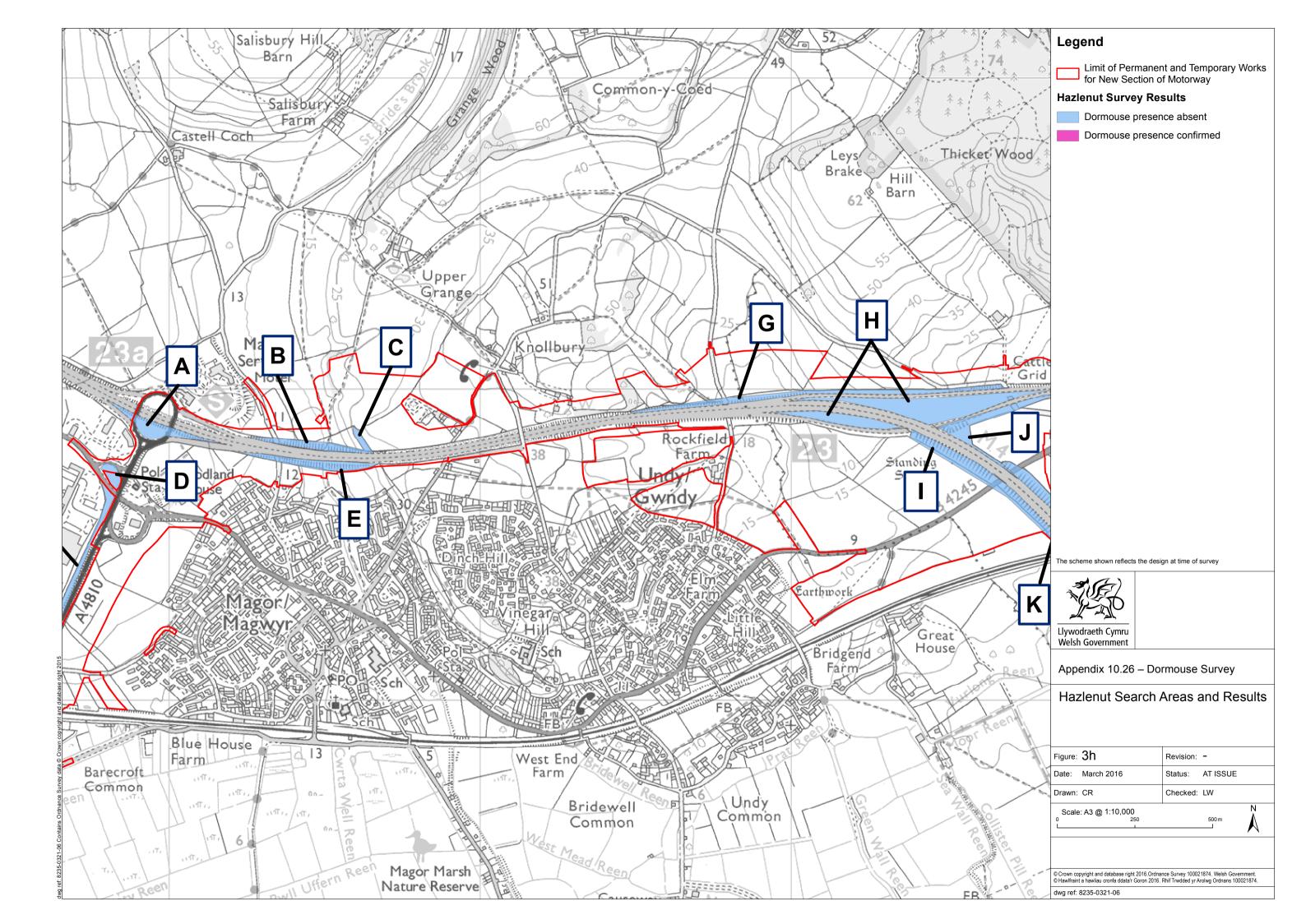


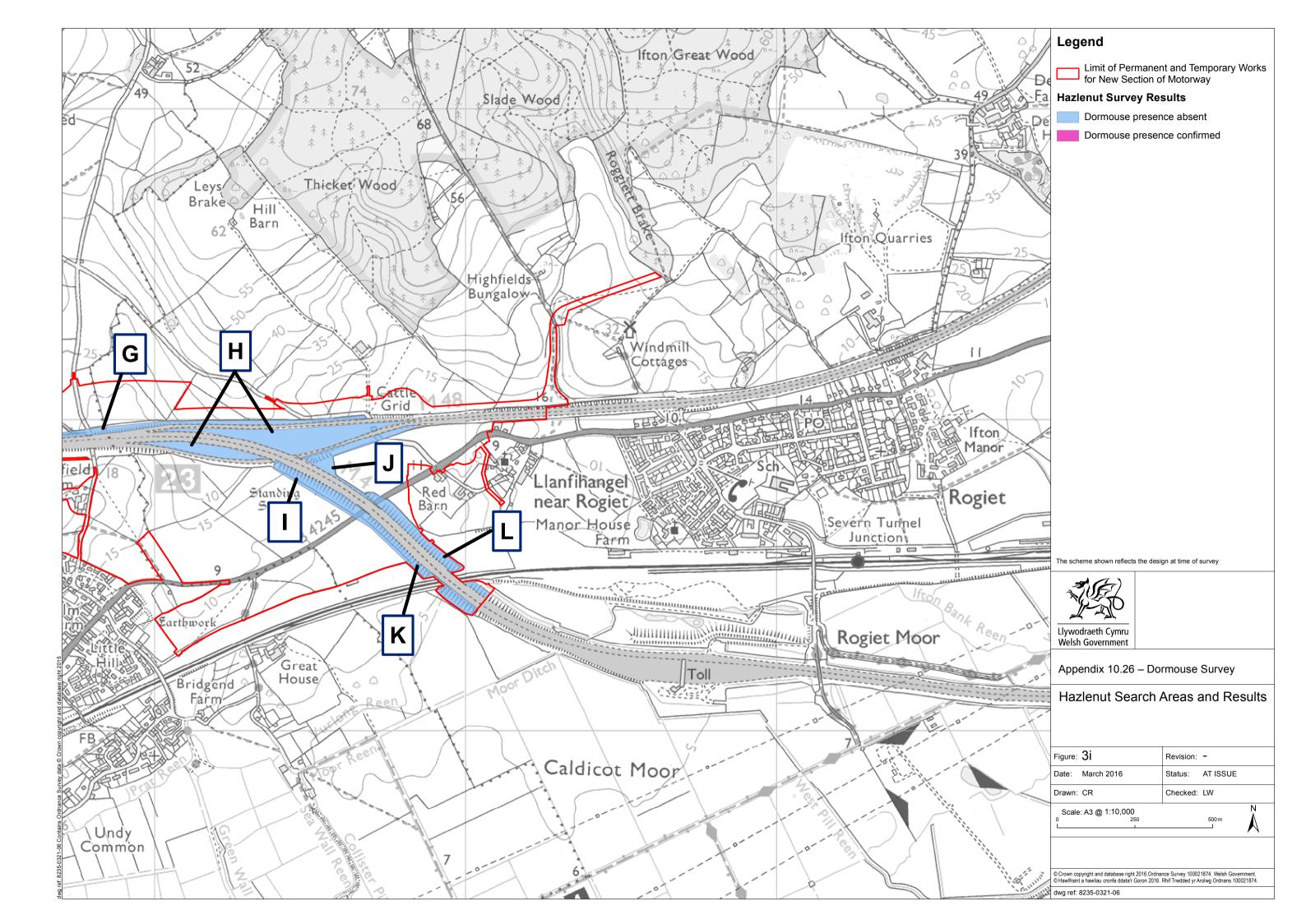












Hazel Dormouse Survey 2015

Annexes

Hazel Dormouse Survey 2015

Annex A – Full 2015 Arup Nest Tube Results

						Survey results			
Location ref	Location name	Tube Number	Installation date	Survey visit date	result	Survey visit date result	Survey visit date Survey visit date	Survey visit date	Survey visit date
D	A48 Road Verges SW	C29	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	•
	· ·	C42	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		C35	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		C24	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		C33	2014			29/07/2015 empty	16/09/2015 empty		dormouse present
		C41	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	•
		C36	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
	A48 Road Verges NW	D15	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		D9	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		D14	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		D18	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		D17	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		D16	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		D11	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		D12	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		D13	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
	A48 Road Verges NE	D13 D29	2014	01/06/2015	empty	29/07/2013 empty 29/07/2015 empty	16/09/2015 empty	12/11/2015	
	ATO HOUR VEIGES INL	D25	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
				01/06/2015	• •			12/11/2015	
		D24 D22	2014	01/06/2015	empty	29/07/2015 empty 29/07/2015 empty	16/09/2015 empty 16/09/2015 empty	12/11/2015	
		D27	2014 2014	01/06/2015	empty	• •	16/09/2015 empty 16/09/2015 empty	12/11/2015	
					empty	29/07/2015 empty			
		D26	2014	01/06/2015	empty	29/07/2015 old dormouse nes		12/11/2015	
	A40 D I.V	D2	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
	A48 Road Verges SE	D1	2014		old dormouse nest	29/07/2015 old dormouse nes			old dormouse nest
		C37	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	• •
		C38	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 old dormouse nest		
		C40	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		C30	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		C31	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		C32	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		C39	2014		old dormouse nest	29/07/2015 old dormouse nes			dormouse present
		C23	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		D19	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	
		D21	2014	01/06/2015	dead leaves	29/07/2015 empty	16/09/2015 empty	12/11/2015	empty
		D23	2014	01/06/2015	empty	29/07/2015 empty	16/09/2015 empty	12/11/2015	empty
	verge south of Pen-y-lan	Far C1	2014	01/06/2015	empty	27/07/2015 empty	16/09/2015 empty	11/11/2015	empty
		C2	2014	01/06/2015	empty	27/07/2015 old dormouse nes	t 16/09/2015 empty	11/11/2015	empty
		C3	2014	01/06/2015	empty	27/07/2015 empty	16/09/2015 empty	11/11/2015	empty
		C4	2014	01/06/2015	dormouse present	27/07/2015 empty	16/09/2015 empty	11/11/2015	empty
		C5	2014	01/06/2015	empty	27/07/2015 empty	16/09/2015 empty	11/11/2015	empty
		C6	2014	01/06/2015	empty	27/07/2015 empty	16/09/2015 green leaves	11/11/2015	empty
		C7	2014	01/06/2015	empty	27/07/2015 empty	16/09/2015 empty	11/11/2015	
		C8	2014	01/06/2015	dormouse nest	27/07/2015 empty	16/09/2015 empty	11/11/2015	empty
		C9	2014	01/06/2015	empty	27/07/2015 empty	16/09/2015 empty	11/11/2015	empty
		C10	2014	01/06/2015	dormouse nest	27/07/2015 dormouse nest	16/09/2015 empty	11/11/2015	old dormouse nest
		C11	2014	01/06/2015	dormouse nest	27/07/2015 empty	16/09/2015 empty	11/11/2015	empty
		C12	2014	01/06/2015	empty	27/07/2015 empty	16/09/2015 empty	11/11/2015	empty
		C13	2014	01/06/2015	empty	27/07/2015 empty	16/09/2015 empty	11/11/2015	
		C14	2014	01/06/2015	empty	27/07/2015 empty	16/09/2015 empty	11/11/2015	
		C15	2014	01/06/2015	empty	27/07/2015 empty	16/09/2015 empty	11/11/2015	
		C16	2014	01/06/2015	empty	27/07/2015 empty	16/09/2015 empty	11/11/2015	
		C101	2014	01/06/2015	empty	27/07/2015 empty	16/09/2015 empty	11/11/2015	
	Pound Hill	E1	2014	04/06/2015	empty	27/07/2015 empty	16/09/2015 empty	11/11/2015	
	. vana riiii	E2	2014	04/06/2015	empty	27/07/2015 empty	16/09/2015 empty	11/11/2015	
		E3	2014	04/06/2015		27/07/2015 empty	16/09/2015 empty 16/09/2015 dormouse nest	11/11/2015	
		LJ	2014	04/00/2013	empty	ZIJOIJZOID EMPLY	TOTOST ZOTO GOTTIOUSE HEST		Cilipty
		E4	2014	04/06/2015	empty	27/07/2015 empty	16/09/2015 empty	11/11/2015	omnty

				Survey results						
Location ref	Location name	Tube Number	Installation date	Survey visit date	result	Survey visit date result	Survey visit date	Survey visit date	Survey visit date	Survey visit date
		E5	2014	04/06/2015	empty	27/07/2015 empty	16/09/2015	dormouse present	11/11/2015	empty
		E6	2014	04/06/2015	empty	27/07/2015 woodmouse prese	r 16/09/2015	dormouse nest	11/11/2015	empty
		E7	2014	04/06/2015	empty	27/07/2015 empty	16/09/2015	empty	11/11/2015	empty
		E8	2014	04/06/2015	empty	27/07/2015 empty	16/09/2015	empty	11/11/2015	empty
		E9	2014	04/06/2015	empty	27/07/2015 empty	16/09/2015	empty	11/11/2015	empty
		E10	2014	04/06/2015	empty	27/07/2015 empty	16/09/2015	empty	11/11/2015	empty
		E11	2014	04/06/2015	empty	27/07/2015 empty	16/09/2015	empty	11/11/2015	empty
		E12	2014	04/06/2015	empty	27/07/2015 empty	16/09/2015	empty	11/11/2015	empty
		E13	2014	04/06/2015	empty	27/07/2015 empty	16/09/2015	empty	11/11/2015	empty
		E14	2014	04/06/2015	empty	27/07/2015 empty	16/09/2015	empty	11/11/2015	empty
		E15	2014	04/06/2015	empty	27/07/2015 empty	16/09/2015	empty	11/11/2015	empty
		E16	2014	04/06/2015	empty	27/07/2015 empty	16/09/2015	empty	11/11/2015	empty
		E17	2014	04/06/2015	empty	27/07/2015 empty	16/09/2015	empty	11/11/2015	empty
M	Road south of TATA Steely	vc A1	2014		no access	13/08/2015 empty	17/09/2015	empty	25/11/2015	empty
		A3	2014		no access	13/08/2015 empty	17/09/2015	empty	25/11/2015	empty
		A17	2014		no access	13/08/2015 empty	17/09/2015	empty	25/11/2015	empty
		A2	2014		no access	13/08/2015 empty	17/09/2015	empty	25/11/2015	empty
		A4	2014		no access	13/08/2015 empty	17/09/2015	empty	25/11/2015	empty
		A10	2014		no access	13/08/2015 dormouse nest	17/09/2015	dormouse nest	25/11/2015	old nest
		A8	2014		no access	13/08/2015 empty	17/09/2015	empty	25/11/2015	empty
		A111	2014		no access	13/08/2015 empty	17/09/2015	empty	25/11/2015	empty
		A5	2014		no access	13/08/2015 empty	17/09/2015	empty	25/11/2015	empty
		A115	2014		no access	13/08/2015 empty	17/09/2015	empty	25/11/2015	woodmouse
1	Verge north of Rockfield F	ar I1	2014	04/06/2015	empty	10/08/2015 empty	08/10/2015	empty	06/11/2015	empty
		12	2014	04/06/2015	empty	10/08/2015 empty	08/10/2015	empty	06/11/2015	empty
		13	2014	04/06/2015	empty	10/08/2015 empty	08/10/2015	empty	06/11/2015	empty
		14	2014	04/06/2015 r	not found	10/08/2015 not found	08/10/2015	not found	06/11/2015	not found
		15	2014	04/06/2015 r	not found	10/08/2015 not found	08/10/2015	not found	06/11/2015	not found
		16	2014	04/06/2015 r	not found	10/08/2015 not found	08/10/2015	not found	06/11/2015	not found
		17	2014	04/06/2015 r	not found	10/08/2015 not found	08/10/2015	not found	06/11/2015	not found
		18	2014	04/06/2015 r	not found	10/08/2015 not found	08/10/2015	not found	06/11/2015	not found
		19	2014	04/06/2015 r	not found	10/08/2015 not found	08/10/2015	not found	06/11/2015	not found
		I10	2014	04/06/2015 r	not found	10/08/2015 not found	08/10/2015	not found	06/11/2015	not found

Hazel Dormouse Survey 2015

Annex B - Full 2015 RPS Nest Tube Results

						Survey results			
Location ref Location name	Tube Number	GPS location	Installation date	Survey visit date	result	_	result	Survey visit date	result
A Cefn Llogell	1		18/05/2015	30/07/2015	empty	•	dormouse and nest	•	dormouse nest
	2		18/05/2015	30/07/2015	empty	22/09/2015	old nest	06/11/2015	dormouse nest
	3		18/05/2015	30/07/2015	empty	22/09/2015	woven grass	06/11/2015	dormouse nest
	4		18/05/2015	30/07/2015	empty	22/09/2015	empty	06/11/2015	empty
	5		18/05/2015	30/07/2015	woodmouse nest	22/09/2015	dormouse and nest	06/11/2015	dormouse nest
	6		18/05/2015	30/07/2015	empty	22/09/2015	empty	06/11/2015	empty
	7		18/05/2015	30/07/2015	empty	22/09/2015	dormouse nest with w	06/11/2015	empty
	8		18/05/2015	30/07/2015	old dormouse nest	22/09/2015	empty	06/11/2015	dormouse nest
	9		18/05/2015	30/07/2015	empty	22/09/2015	empty	06/11/2015	old nest
	10		18/05/2015	30/07/2015	dormouse nest	22/09/2015	dormouse and nest	06/11/2015	old nest
	11		18/05/2015	30/07/2015	empty	22/09/2015	empty	06/11/2015	empty
	12		18/05/2015	30/07/2015	empty	22/09/2015	empty	06/11/2015	empty
	13		18/05/2015	30/07/2015	empty	22/09/2015		06/11/2015	• •
	14		18/05/2015	30/07/2015	empty	22/09/2015	• •	06/11/2015	• •
	15		18/05/2015	30/07/2015	empty	22/09/2015		06/11/2015	• •
	16		18/05/2015	30/07/2015	empty	22/09/2015		06/11/2015	• •
	17		18/05/2015	30/07/2015	empty	22/09/2015	• •	06/11/2015	
	18		18/05/2015	30/07/2015	empty	22/09/2015		06/11/2015	• •
	19		18/05/2015	30/07/2015	empty	22/09/2015		06/11/2015	• •
	20		18/05/2015	30/07/2015	empty	22/09/2015	•	06/11/2015	_
	21		18/05/2015	30/07/2015	empty	22/09/2015	• •		dormouse nest
	22		18/05/2015	30/07/2015	empty	22/09/2015	• •	06/11/2015	• •
	23		18/05/2015	30/07/2015	empty	22/09/2015			dormouse nest
	24		18/05/2015	30/07/2015	empty	22/09/2015	•	06/11/2015	_
	25		18/05/2015	30/07/2015	empty	22/09/2015			hedge removed
	26		18/05/2015	30/07/2015	empty	22/09/2015			hedge removed
	27		18/05/2015	30/07/2015	empty	22/09/2015			hedge removed
	28		18/05/2015	30/07/2015	empty	22/09/2015	• •		hedge removed
	29		18/05/2015	30/07/2015	empty		dormouse nest	06/11/2015	
	30		18/05/2015	30/07/2015	empty		woodmouse nest	06/11/2015	• •
	31		18/05/2015	30/07/2015	empty		likely woodmouse nes		
	32		18/05/2015	30/07/2015	empty	22/09/2015	• •	06/11/2015	• •
	33		18/05/2015	30/07/2015	empty		dormouse and nest	06/11/2015	• •
	34		18/05/2015	30/07/2015	empty	22/09/2015		06/11/2015	• •
	35		18/05/2015	30/07/2015	empty	22/09/2015		06/11/2015	• •
	36		18/05/2015	30/07/2015	empty	22/09/2015	• •	06/11/2015	• •
	37		18/05/2015	30/07/2015	empty	22/09/2015		06/11/2015	• •
	38		18/05/2015	30/07/2015	woodmouse nest		old nest, nuts	06/11/2015	• •
	39		18/05/2015	30/07/2015	empty	22/09/2015		06/11/2015	• •
	40		18/05/2015	30/07/2015	woodmouse nest		dormouse and nest		dormouse nest
	41		18/05/2015	30/07/2015	woodmouse nest	22/09/2015		06/11/2015	• •
	42		18/05/2015	30/07/2015	empty	22/09/2015			dormouse nest
	43		18/05/2015	30/07/2015	empty	22/09/2015			dormouse nest
	44		18/05/2015	30/07/2015	empty	22/09/2015		06/11/2015	• •
	45		18/05/2015	30/07/2015	empty		leaves and berries		dormouse nest
	46		18/05/2015	30/07/2015	empty	22/09/2015	•	06/11/2015	_
	47		18/05/2015	30/07/2015	empty	22/09/2015	aamaged	06/11/2015	aamagea

							Survey results		
Location ref	Location name	Tube Number	GPS location	Installation date	Survey visit date	result	Survey visit date result	Survey visit date	result
		48		18/05/2015		dormouse nest	22/09/2015 empty	•	dormouse nest
		49		18/05/2015		empty	22/09/2015 dead leaves		woodmouse nest
		50		18/05/2015		woodmouse nest	22/09/2015 damaged	06/11/2015	
		51		18/05/2015		empty	22/09/2015 old dormouse nest		dormouse nest
		52		18/05/2015		empty	22/09/2015 woodmouse		dormouse nest
		53		18/05/2015	30/07/2015	empty	22/09/2015 old nest	06/11/2015	dormouse nest
		54		18/05/2015	30/07/2015	empty	22/09/2015 empty	06/11/2015	empty
		55		18/05/2015	30/07/2015	empty	22/09/2015 empty	06/11/2015	empty
		56		18/05/2015	30/07/2015	empty	22/09/2015 2 woodmouse and n	e: 06/11/2015	empty
		57		18/05/2015	30/07/2015	empty	22/09/2015 empty	06/11/2015	dormouse nest
		58		18/05/2015	30/07/2015	empty	22/09/2015 empty	06/11/2015	empty
		59		18/05/2015	30/07/2015	empty	22/09/2015 old nest	06/11/2015	woodmouse nest
		60		18/05/2015	30/07/2015	empty	22/09/2015 old nest	06/11/2015	dormouse nest
		61		18/05/2015	30/07/2015	empty	22/09/2015 empty	06/11/2015	empty
		62		18/05/2015	30/07/2015	empty	22/09/2015 woodmouse nest	06/11/2015	old nest
		63		18/05/2015	30/07/2015	empty	22/09/2015 empty	06/11/2015	empty
		64		18/05/2015	30/07/2015	empty	22/09/2015 dormouse nest	06/11/2015	empty
		65		18/05/2015	30/07/2015	empty	22/09/2015 empty	06/11/2015	empty
		66		18/05/2015	30/07/2015	empty	22/09/2015 empty	06/11/2015	empty
		67		18/05/2015	30/07/2015	empty	22/09/2015 empty	06/11/2015	dormouse nest
		68		18/05/2015	30/07/2015	empty	22/09/2015 empty	06/11/2015	dormouse nest
		69		18/05/2015	30/07/2015	dormouse nest	22/09/2015 empty	06/11/2015	empty
		70		18/05/2015	30/07/2015	empty	22/09/2015 empty	06/11/2015	empty
		71		18/05/2015	30/07/2015	empty	22/09/2015 empty	06/11/2015	empty
		72		18/05/2015	30/07/2015	empty	22/09/2015 old nest	06/11/2015	empty
		73		18/05/2015	30/07/2015	empty	22/09/2015 empty	06/11/2015	dormouse nest
		74		18/05/2015	30/07/2015	empty	22/09/2015 some green leaves	06/11/2015	empty
		75		18/05/2015	30/07/2015	empty	22/09/2015 damaged	06/11/2015	• •
		76		18/05/2015	30/07/2015	empty	22/09/2015 empty	06/11/2015	empty
		77		18/05/2015	30/07/2015	empty	22/09/2015 old nest	06/11/2015	empty
		78		18/05/2015	30/07/2015	empty	22/09/2015 empty	06/11/2015	empty
		79		18/05/2015		empty	22/09/2015 empty	06/11/2015	empty
		80		18/05/2015		empty	22/09/2015 empty	06/11/2015	• •
		81		19/05/2015		empty	22/09/2015 empty	06/11/2015	
		82		19/05/2015		old dormouse nest		06/11/2015	• •
		83		19/05/2015		empty	22/09/2015 dormouse nest	06/11/2015	
В	Gwaunshonbrown Farm	84		19/05/2015		empty	22/09/2015 empty	16/11/2015	• •
		85		19/05/2015		empty	22/09/2015 dormouse nest	16/11/2015	
		86		19/05/2015		empty	22/09/2015 empty	16/11/2015	• •
		87		19/05/2015		empty	22/09/2015 empty	16/11/2015	• •
		88		19/05/2015		empty	22/09/2015 empty	16/11/2015	• •
		89		19/05/2015		empty	22/09/2015 old bracken	16/11/2015	• •
		90		19/05/2015		empty	22/09/2015 empty	16/11/2015	
		91		19/05/2015		empty	22/09/2015 empty	16/11/2015	• •
		92		19/05/2015		empty	22/09/2015 empty	16/11/2015	
		93		19/05/2015		empty	22/09/2015 empty		dormouse nest
		94		19/05/2015		empty	22/09/2015 dormouse nest		dormouse nest
		95		19/05/2015	27/07/2015	empty	22/09/2015 dormouse nest	16/11/2015	dormouse nest

							Survey results			1
Location ref	Location name	Tube Number	GPS location	Installation date	Survey visit date	result		result	Survey visit date	result
		96		19/05/2015	-	empty	22/09/2015		16/11/2015	1
		97		19/05/2015		empty	22/09/2015		16/11/2015	
		98		19/05/2015		empty	22/09/2015	• •	16/11/2015	empty
		99		19/05/2015		empty	22/09/2015	5 empty	16/11/2015	• •
		100		19/05/2015	27/07/2015	empty	22/09/2015		16/11/2015	empty
		101		19/05/2015	27/07/2015	empty	22/09/2015	5 empty	16/11/2015	empty
		102		19/05/2015		empty	22/09/2015	• •	16/11/2015	• •
		103		19/05/2015		empty	22/09/2015	• •	16/11/2015	• •
		104		19/05/2015	27/07/2015	empty	22/09/2015	5 empty	16/11/2015	empty
		105		19/05/2015	27/07/2015	empty	22/09/2015	5 tree removed	16/11/2015	5 tree removed
		106		19/05/2015	27/07/2015	empty	22/09/2015	5 empty	16/11/2015	empty
		107		19/05/2015	27/07/2015	empty	22/09/2015	i empty	16/11/2015	empty
		108		19/05/2015	27/07/2015	empty	22/09/2015	i empty	16/11/2015	empty
		109		19/05/2015	27/07/2015	empty	22/09/2015	5 tree removed	16/11/2015	5 tree removed
		110		19/05/2015		empty	22/09/2015	5 empty	16/11/2015	empty
		111		19/05/2015	27/07/2015	dormouse nest	22/09/2015	5 dormouse nest	16/11/2015	dormouse nest
С	Hedge off Penylan Road	112		20/05/2015		empty		5 woodmouse nest	16/11/2015	empty
		113		20/05/2015	27/07/2015	empty	09/09/2015	5 grass/seeds	16/11/2015	empty
		114		20/05/2015	27/07/2015	empty	09/09/2015	_	16/11/2015	empty
		115		20/05/2015	27/07/2015	empty	09/09/2015	i empty	16/11/2015	dormouse nest
		116		20/05/2015	27/07/2015	empty	09/09/2015	i empty	16/11/2015	empty
		117		20/05/2015	27/07/2015	empty	09/09/2015	5 empty	16/11/2015	empty
		118		20/05/2015	27/07/2015	empty	09/09/2015	5 empty	16/11/2015	empty
		119		20/05/2015	27/07/2015	woodmouse nest	09/09/2015	5 woodmouse nest	16/11/2015	empty
		120		20/05/2015	27/07/2015	empty	09/09/2015	i empty	16/11/2015	empty
		121		20/05/2015	27/07/2015	empty	09/09/2015	i empty	16/11/2015	empty
		122		20/05/2015	27/07/2015	empty	09/09/2015	5 empty	16/11/2015	empty
		123		20/05/2015	27/07/2015	empty		5 woodmouse nest	16/11/2015	• •
		124		20/05/2015	27/07/2015	empty	09/09/2015	5 empty	16/11/2015	empty
		125		20/05/2015	27/07/2015	woodmouse nest	t 09/09/2015	5 empty	16/11/2015	empty
		126		20/05/2015	27/07/2015	empty	09/09/2015	5 empty	16/11/2015	empty
		127		20/05/2015	27/07/2015	empty	09/09/2015	5 empty	16/11/2015	empty
		128		20/05/2015		old dormouse nest	st 09/09/2015	old nest	16/11/2015	empty
		129		20/05/2015		empty	09/09/2015	5 green hazel leaves	16/11/2015	dormouse nest
D	by Pwll Diwaelod	130		20/05/2015		empty	09/09/2015	5 empty	16/11/2015	• •
		131		20/05/2015	05/08/2015	empty	09/09/2015	5 empty	16/11/2015	empty
		132		20/05/2015		empty	09/09/2015	5 empty	16/11/2015	empty
		133		20/05/2015		empty	09/09/2015	5 empty	16/11/2015	
		134		20/05/2015	05/08/2015	empty	09/09/2015	5 empty	16/11/2015	empty
		135		20/05/2015	05/08/2015	empty	09/09/2015	5 empty	16/11/2015	empty
		136		20/05/2015		empty	09/09/2015	5 empty	16/11/2015	empty
		137		20/05/2015	05/08/2015	empty	09/09/2015	5 empty	16/11/2015	empty
		138		20/05/2015	05/08/2015	empty	09/09/2015	5 empty	16/11/2015	empty
		139		20/05/2015	05/08/2015	empty	09/09/2015	5 empty	16/11/2015	empty
		140		20/05/2015	05/08/2015	empty	09/09/2015	5 empty	16/11/2015	empty
		141		20/05/2015	05/08/2015	empty	09/09/2015	5 empty	16/11/2015	empty
		142		20/05/2015	05/08/2015	empty	09/09/2015	ិ empty	16/11/2015	empty
		143		20/05/2015	05/08/2015	empty	09/09/2015	5 empty	16/11/2015	empty

							Survey results		
Location ref	Location name	Tube Number	GPS location	Installation date	Survey visit date	result	Survey visit date result	Survey visit date	result
		144		20/05/2015	05/08/2015	empty	09/09/2015 empty	16/11/2015	empty
		145		20/05/2015	05/08/2015	empty	09/09/2015 empty	16/11/2015	empty
		146		20/05/2015	05/08/2015	empty	09/09/2015 empty	16/11/2015	empty
		147		20/05/2015	05/08/2015	empty	09/09/2015 empty	16/11/2015	empty
		148		20/05/2015	05/08/2015	empty	09/09/2015 empty	16/11/2015	empty
		149		20/05/2015	05/08/2015	empty	09/09/2015 empty	16/11/2015	empty
		150		20/05/2015	05/08/2015	empty	09/09/2015 empty	16/11/2015	empty
		151		20/05/2015	05/08/2015	empty	09/09/2015 empty	16/11/2015	empty
		152		20/05/2015	05/08/2015	empty	09/09/2015 empty	16/11/2015	empty
		153		20/05/2015	05/08/2015	empty	09/09/2015 empty	16/11/2015	horse damage
		154		20/05/2015	05/08/2015	empty	09/09/2015 horse damage	16/11/2015	horse damage
		155		20/05/2015	05/08/2015	empty	09/09/2015 horse damage	16/11/2015	horse damage
		156		20/05/2015	05/08/2015	empty	09/09/2015 empty	16/11/2015	empty
		157		20/05/2015	05/08/2015	empty	09/09/2015 empty	16/11/2015	empty
		158		20/05/2015	05/08/2015	empty	09/09/2015 horse damage	16/11/2015	horse damage
E	Roggiett Brake Quarry Woo	159		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		160		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		161		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		162		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		163		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		164		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		165		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		166		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		167		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		168		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		169		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		170		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		171		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		172		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		173		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		174		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		175		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		176		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		177		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		178		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty
		179		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	
		180		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	
		181		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	
		182		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	
		183		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	
		184		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	
		185		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	
		186		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	
		187		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	
		188		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	
		189		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	
		190		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	
		191		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015	empty

Location ref	Lasation name							
	Location name	Tube Number	GPS location	Installation date	Survey visit date	result	Survey results Survey visit date result	Survey visit date result
		192		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		193		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		194		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		195		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		196		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		197		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		198		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		199		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		200		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		201		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		202		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		203		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		204		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		205		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		206		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		207		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		208		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		209		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		210		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		211		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		212		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		213		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		214		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		215		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		216		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		217		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		218		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		219		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		220		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		221		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		222		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		223		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
		224		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
_		225		26/05/2015	04/08/2015	empty	14/09/2015 empty	06/11/2015 empty
F C	Quarry woods	226		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015 empty
		227		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015 empty
		228		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015 empty
		229		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015 empty
		230		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015 empty
		231		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015 empty
		232		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015 empty
		233		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015 empty
		234		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015 empty
		235		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015 empty
		236		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015 empty
		237		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015 empty
		238		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015 empty
		239		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015 empty

							Survey results		
Location ref	Location name	Tube Number	GPS location Insta	llation date	Survey visit date	result	Survey visit date result	Survey visit date	result
		240		26/05/2015	-	empty	14/09/2015 empty	23/11/2015	
		241		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015	empty
		242		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015	empty
		243		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015	empty
		244		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015	empty
		245		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015	empty
		246		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015	empty
		247		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015	empty
		248		26/05/2015	05/08/2015	empty	14/09/2015 empty	23/11/2015	empty
G	Central area at J28-29	249		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		250		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		251		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		252		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		253		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		254		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		255		02/06/2015	30/07/2015	woodmouse nest	09/09/2015 woodmouse nest	12/11/2015	empty
		256		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		257		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		258		02/06/2015	30/07/2015	empty	09/09/2015 woodmouse nest	12/11/2015	empty
		259		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		260		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	woodmouse
		261		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		262		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		263		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		264		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		265		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		266		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		267		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		268		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	woodmouse
		269		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	woodmouse
		270		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		271		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		272		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	• •
		273		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		274		02/06/2015		empty	09/09/2015 dormouse present		dormouse nest
		275		02/06/2015		empty	09/09/2015 empty		woodmouse x2
		276		02/06/2015		empty	09/09/2015 empty	12/11/2015	• •
		277		02/06/2015		empty	09/09/2015 empty	12/11/2015	
		278		02/06/2015		empty	09/09/2015 empty	12/11/2015	• •
		279		02/06/2015		empty	09/09/2015 empty	12/11/2015	• •
		280		02/06/2015		empty	09/09/2015 empty		woodmouse x3
		281		02/06/2015		empty	09/09/2015 empty	12/11/2015	• •
		282		02/06/2015		empty	09/09/2015 empty	12/11/2015	
		283		02/06/2015		empty	09/09/2015 empty	12/11/2015	• •
		284		02/06/2015		empty	09/09/2015 empty	12/11/2015	
		285		02/06/2015		empty	09/09/2015 empty	12/11/2015	
		286		02/06/2015		empty	09/09/2015 empty	12/11/2015	• •
		287		02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty

						Survey results		
Location ref	Location name	Tube Number	GPS location Installation date	Survey visit date	result	Survey visit date result	Survey visit date	result
		288	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	
		289	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		290	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		291	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		292	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		293	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		294	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		295	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		296	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		297	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		298	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		299	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		300	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		301	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		302	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	• •
		303	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		304	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		305	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		306	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		307	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		308	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		309	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		310	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		311	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		312	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		313	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		314	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
		315	02/06/2015	30/07/2015	empty	09/09/2015 empty	12/11/2015	empty
Н	Minnetts Lane site	316	02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	empty
		317	02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	empty
		318	02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	empty
		319	02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	• •
		320			empty	14/09/2015 empty	23/11/2015	
		321			empty	14/09/2015 empty	23/11/2015	
		322			empty	14/09/2015 empty	23/11/2015	
		323			empty	14/09/2015 empty		Old Man's beard
		324	02/06/2015		empty	14/09/2015 empty	23/11/2015	• •
		325			empty	14/09/2015 empty	23/11/2015	
		326			empty	14/09/2015 empty	23/11/2015	
		327			empty	14/09/2015 empty	23/11/2015	
		328			empty	14/09/2015 empty	23/11/2015	
		329			empty	14/09/2015 empty	23/11/2015	
		330			empty	14/09/2015 empty	23/11/2015	
		331	02/06/2015		empty	14/09/2015 empty	23/11/2015	
		332			empty	14/09/2015 empty	23/11/2015	
		333			empty	14/09/2015 empty	23/11/2015	
		334			empty	14/09/2015 empty	23/11/2015	
		335	02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	empty
					• •	• •		

							Survey results		
Location ref	Location name	Tube Number	GPS location	Installation date	Survey visit date	result	Survey visit date result	Survey visit date	result
- 20.0.33.		336		02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	1
		337		02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	• •
		338		02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	• •
		339		02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	• •
		340		02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	• •
		341		02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	• •
		342		02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	empty
		343		02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	empty
		344		02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	empty
		345		02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	empty
		346		02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	empty
		347		02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	empty
		348		02/06/2015	28/07/2015	empty	14/09/2015 empty	23/11/2015	empty
1	Knollbury area (East end) nε	349		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		350		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		351		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	likely woodmouse nest
		352		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		353		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		354		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		355		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		356		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		357		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		358		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		359		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		360		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		361		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		362		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		363		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		364		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		365		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		366		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		367		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		368		03/06/2015	05/08/2015	empty	24/09/2015 dormouse nest	06/11/2015	old dormouse nest
		369		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		370		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		371		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	• •
		372		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	• •
		373		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	• •
		374		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	
		375		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	empty
		376		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	• •
		377		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	• •
		378		03/06/2015	05/08/2015	empty	24/09/2015 empty	06/11/2015	
J	M4 Road Verge accessed via			11/06/2015	29/07/2015	empty	09/09/2015 green leaves		woodmouse x2
		380		11/06/2015	29/07/2015	empty	09/09/2015 empty	12/11/2015	• •
		381		11/06/2015	29/07/2015	empty	09/09/2015 old dormouse nes		• •
		382		11/06/2015	29/07/2015	empty	09/09/2015 empty	12/11/2015	• •
		383		11/06/2015	29/07/2015	empty	09/09/2015 green leaves	12/11/2015	dormouse nest

							Survey results			
Location ref	Location name	Tube Number	GPS location	Installation date	Survey visit date	result	Survey visit date	result	Survey visit date	result
		384		11/06/2015	-	empty	•	dormouse nest with v	•	dormouse nest
		385		11/06/2015	29/07/2015	empty		old dormouse nest		dormouse nest
		386		11/06/2015	29/07/2015	empty	09/09/201	5 empty	12/11/2015	nut cache (likely woodmouse)
		387		11/06/2015	29/07/2015	empty	09/09/201	dormouse present	12/11/2015	empty
		388		11/06/2015	29/07/2015	empty	09/09/201	5 empty	12/11/2015	empty
		389		11/06/2015	29/07/2015	empty	09/09/201	5 empty	12/11/2015	dormouse nest
		390		11/06/2015	29/07/2015	empty	09/09/201	5 empty	12/11/2015	dormouse nest
		391		11/06/2015	29/07/2015	empty	09/09/201	5 empty	12/11/2015	woodmouse nest
		392		11/06/2015	29/07/2015	se nest and dormous	e 09/09/201	woodmouse nest	12/11/2015	dormouse nest
		393		11/06/2015	29/07/2015	empty	09/09/201	woven nest	12/11/2015	empty
		394		11/06/2015		empty	09/09/201	5 empty	12/11/2015	empty
		395		11/06/2015	29/07/2015	empty	09/09/201	5 empty	12/11/2015	empty
		396		11/06/2015	29/07/2015	empty	09/09/201	5 empty	12/11/2015	• •
		397		11/06/2015	29/07/2015	empty	09/09/201		12/11/2015	• •
		398		11/06/2015	29/07/2015	empty	09/09/201	• •		dormouse and juvenile dormouse
		399		11/06/2015		empty	09/09/201	• •	12/11/2015	• •
		400		11/06/2015	29/07/2015	empty		woodmouse and nest		• •
		401		11/06/2015		empty	• •	dormouse present	12/11/2015	
		402		11/06/2015		empty	09/09/201		12/11/2015	• •
		403		11/06/2015	29/07/2015	empty	09/09/201		12/11/2015	• •
		404		11/06/2015		empty	09/09/201		12/11/2015	• •
		405		11/06/2015	29/07/2015	empty		green leaves	12/11/2015	• •
		406		11/06/2015		empty	09/09/201		12/11/2015	• •
		407		11/06/2015		empty	09/09/201		12/11/2015	
		408		11/06/2015		empty	09/09/201			dormouse nest
		409		11/06/2015	29/07/2015	empty	09/09/201	• •		dormouse nest
		410		11/06/2015	29/07/2015	empty	09/09/201		12/11/2015	
		411		11/06/2015	29/07/2015	empty	09/09/201	• •	12/11/2015	• •
		412		11/06/2015	29/07/2015	empty	09/09/201			dormouse nest
		413		11/06/2015	29/07/2015	empty	09/09/201			dormouse nest
		414		11/06/2015		empty	09/09/201		12/11/2015	• •
		415		11/06/2015		empty		dormouse and nest		dormouse nest
		416		11/06/2015		empty		dormice x2 and nest	12/11/2015	• •
		417		11/06/2015	29/07/2015	empty	09/09/201	• •	12/11/2015	• •
		418		11/06/2015		empty	09/09/201	• •	12/11/2015	• •
		419		11/06/2015	29/07/2015	empty	09/09/201		12/11/2015	• •
		420		11/06/2015		empty		old woodmouse nest		• •
		421		11/06/2015		empty	09/09/201		12/11/2015	
		422		11/06/2015	29/07/2015	empty	09/09/201		12/11/2015	• •
		423		11/06/2015		empty	09/09/201			dormouse nest
		424		11/06/2015		empty	09/09/201		12/11/2015	• •
1/	Da., and 1100 Dec. 424	425		11/06/2015		empty	09/09/201		12/11/2015	• •
K	Pound Hill Road Verges	426		12/06/2015		empty	09/09/201		11/11/2015	• •
		427		12/06/2015		empty	09/09/201	• •	11/11/2015	• •
		428		12/06/2015		empty	09/09/201		11/11/2015	
		429		12/06/2015		empty	09/09/201			dormouse nest
		430		12/06/2015		empty	09/09/201		11/11/2015	• •
		431		12/06/2015	29/07/2015	empty	09/09/201	o empty	11/11/2015	етіріу

							Survey results		
Location ref	Location name	Tube Number	GPS location	Installation date	Survey visit date	result	Survey visit date result	Survey visit date	result
	•	432		12/06/2015	29/07/2015	empty	09/09/2015 empty	11/11/2015	dormouse nest
		433		12/06/2015	29/07/2015	empty	09/09/2015 empty	11/11/2015	empty
		434		12/06/2015	29/07/2015	empty	09/09/2015 empty	11/11/2015	empty
		435		12/06/2015	29/07/2015	empty	09/09/2015 empty	11/11/2015	empty
		436		12/06/2015	29/07/2015	empty	09/09/2015 empty	11/11/2015	empty
		437		12/06/2015	29/07/2015	empty	09/09/2015 empty	11/11/2015	empty
		438		12/06/2015	29/07/2015	empty	09/09/2015 empty	11/11/2015	dormouse nest
		439		12/06/2015	29/07/2015	empty	09/09/2015 empty	11/11/2015	empty
L	Knollbury Woodland and fie	440		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	empty
		441		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	empty
		442		24/06/2015	10/08/2015	empty	08/10/2015 damaged	16/11/2015	damaged
		443		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	empty
		444		24/06/2015	10/08/2015	empty	08/10/2015 damaged	16/11/2015	damaged
		445		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	empty
		446		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	• •
		447		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	empty
		448		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	
		449		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	• •
		450		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	
		451		24/06/2015	10/08/2015	empty	08/10/2015 damaged	16/11/2015	_
		452		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	
		453		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	• •
		454		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	
		455		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	• •
		456		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	• •
		457		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	S
		458		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	• •
		459		24/06/2015	10/08/2015	empty	08/10/2015 damaged	16/11/2015	•
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		461		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	
		462		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	
		463		24/06/2015	10/08/2015	empty	08/10/2015 damaged	16/11/2015	_
		464		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	
		465		24/06/2015	10/08/2015	empty	08/10/2015 damaged	16/11/2015	_
		466		24/06/2015	10/08/2015	empty	08/10/2015 damaged	16/11/2015	_
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		468		24/06/2015	10/08/2015	empty	08/10/2015 damaged	16/11/2015	_
		469		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	
		470		24/06/2015	10/08/2015	empty	08/10/2015 damaged	16/11/2015	_
		471		24/06/2015	10/08/2015	empty	08/10/2015 damaged	16/11/2015	_
		472		24/06/2015	10/08/2015	empty	08/10/2015 damaged	16/11/2015	_
		473		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	
		474		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	
		475		24/06/2015	10/08/2015	empty	08/10/2015 damaged	16/11/2015	_
		476		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	
		477		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	
		478		24/06/2015	10/08/2015	empty	08/10/2015 damaged	16/11/2015	_
		479		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	етіріу

### 24/05/2015 20/08/2015 empty 08/10/2015 divraged 20/12/015 empty 08/10/2015 empty 08/10/2015	Location ref Location name	Tube Number							
### 24/05/2015 20/08/2015 empty 08/10/2015 divraged 20/12/015 empty 08/10/2015 empty 08/10/2015			GPS location	Installation date	Survey visit date	result	Survey visit date result	Survey visit date	result
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482 24/05/2015 0.0708/2015 empty 0.8/10/2015 empty 0		481					08/10/2015 empty	16/11/2015	empty
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165 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 16/11/201		483		24/06/2015	10/08/2015		08/10/2015 empty	16/11/2015	empty
486 24/06/2015 10/08/2015 empty 88/10/2015 empty 16/11/2015 empty 16/11/201				24/06/2015	10/08/2015			16/11/2015	empty
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488 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 489 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 491 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 492 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 493 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 494 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 495 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 496 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 497 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 498 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 499 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 490 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 491 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 492 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 493 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 494 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 495 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 496 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 497 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 498 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 499 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 490 24/hb/2015 10/hb/2015 empty 08/11/2015 empty 16/11/2015 empty 491 24/hb/201		486		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	damaged
489 24/06/2015 1,0/08/2015 empty 08/10/2015 empty 16/11/2015 empty 49/2 (24/06/2015 1,0/08/2015 empty 08/10/2015 empty 16/11/2015 empty 40/2 (24/06/2015 1,0/08/2015 empty 08/10/2015 empty 08/10/2015 empty 16/11/2015 empty 40/2 (24/06/2015 empty 08/10/2015 empty 08/10/2015 empty 16/11/2015		487		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	empty
490 24/05/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 16/11/20		488		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	empty
491 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 16/11/201		489		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	empty
492 44/8/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 1493 24/86/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 1494 24/86/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 1495 24/86/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 1496 24/86/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 1497 24/86/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 1497 24/86/2015 10/08/2015 empty 08/10/2015 empty 08/10/2015 empty 16/11/2015 empty 1499 24/86/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 1499 24/86/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 16/11/2015 empty 15/11/2015 empty 15/11/2015 empty 15/11/2015 empty 16/11/2015 empty		490		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	empty
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494 24/06/2015 10/08/2015 empty 68/10/2015 empty 16/11/2015 empty 495 24/06/2015 10/08/2015 empty 68/10/2015 empty 16/11/2015 empty 496 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 497 24/06/2015 10/08/2015 empty 08/10/2015 damaged 498 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 499 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 500 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 501 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 502 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 503 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 504 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 505 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 506 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 damaged 506 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 damaged 507 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 damaged 508 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 damaged 509 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 damaged 510 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 damaged 511 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 damaged 512 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 damaged 513 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 damaged 514 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 empty 515 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 empty 516 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 517 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 518 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 em		492		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	empty
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497 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 damaged 498 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 15/02/2015 empty 16/11/2015 empty 15/02/2015 empty 16/11/2015 empty 15/02/2015 empty 16/02/2015 empty 16/02/		495		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	empty
198 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 16/11/20		496		24/06/2015	10/08/2015	empty	08/10/2015 empty	16/11/2015	empty
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506 24/06/2015 10/08/2015 empty 08/10/2015 dormouse nest and w 16/11/2015 ddamaged 507 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 damaged 508 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 damaged 509 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 damaged 511 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 damaged 511 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 512 24/06/2015 10/08/2015 empty 08/10/2015 empty 16/11/2015 empty 513 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 empty 514 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 empty 515 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 empty 517 24/06/2015 10/08/2015 empty 08/10/2015 damaged 16/11/2015 damaged 518 24/06/2015 10						empty	• •		_
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575 19/08/2015 17/09/2015 empty 25/11/2015 empty	

							Survey results		
Location ref	Location name	Tube Number	GPS location	Installation date	Survey visit date	result	Survey visit date result	Survey visit date	result
		576		19/08/2015	17/09/2015	empty	25/11/2015 woodmouse nest	, 110 313130	
1	Middle reen east	577		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		578		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		579		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		580		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		581		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		582		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		583		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		584		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		585		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		586		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		587		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		588		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		589		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		590		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		591		19/08/2015	17/09/2015	empty	25/11/2015 empty		
I	Middle Reen west	592		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		593		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		594		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		595		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		596		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		597		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		598		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		599		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		600		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		601		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		602		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		603		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		604		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		605		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		606		19/08/2015	17/09/2015	empty	25/11/2015 empty		
f	tracks	607		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		608		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		609		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		610		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		611		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		612		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		613		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		614		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		615		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		616		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		617		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		618		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		619		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		620		19/08/2015	17/09/2015	empty	25/11/2015 empty		
f	tracks 2	621		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		622		19/08/2015	17/09/2015	empty	25/11/2015 empty		
		623		19/08/2015	17/09/2015	empty	25/11/2015 empty		

							Survey results			
Location ref	Location name	Tube Number	GPS location	Installation date	Survey visit date	result	Survey visit date	result	Survey visit date	result
		624		19/08/2015	17/09/2015	empty	25/11/2015	empty		
		625		19/08/2015	17/09/2015	empty	25/11/2015	empty		
		626		19/08/2015	17/09/2015	empty	25/11/2015	empty		
		627		19/08/2015	17/09/2015	empty	25/11/2015	empty		
		628		19/08/2015	17/09/2015	empty	25/11/2015	empty		
		629		19/08/2015	17/09/2015	empty	25/11/2015	empty		
		630		19/08/2015	17/09/2015	empty	25/11/2015	empty		
		631		19/08/2015	17/09/2015	empty	25/11/2015	empty		
		632		19/08/2015	17/09/2015	empty	25/11/2015	empty		
		633		19/08/2015	17/09/2015	empty	25/11/2015	woodmouse x4		
		634		19/08/2015	17/09/2015	empty	25/11/2015	empty		
		635		19/08/2015	17/09/2015	empty	25/11/2015	empty		
		636		19/08/2015	17/09/2015	empty	25/11/2015	dormouse nest		