

# Rescue Recording of an Eroding Inter-Tidal Peat Bed at Low Hauxley, Northumberland (6109)

February 2013



Staff from Archaeological Research Services Ltd undertaking recording work, February 2013.

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## **1 Introduction**

1.1 Staff from Archaeological Research Services Ltd (ARS Ltd) assisted by Jim Nesbitt (local volunteer archaeologist) undertook recording of an inter-tidal peat deposit at Low Hauxley, Northumberland, on 21<sup>st</sup> - 23<sup>rd</sup> December 2010 and 7<sup>th</sup> January 2013, and 11<sup>th</sup> - 12<sup>th</sup> February 2013. The work comprised a walk-over survey of the inter-tidal zone, survey of exposed areas of peat and submerged forest remains, cleaning and hand-drawn planning of the area of animal and human footprints, and rapid digital photography of the deposit and its context. Plaster casts of two hoof prints were also made.

1.2 The site lies in the inter-tidal zone (Figure 1) and work was limited due to tidal conditions to a period from first light until around midday, lasting 5 hours each day on average. The deposit was exposed for three days in December 2010 and five days in February 2013. An almost complete record was made on both occasions, prior to the peat bed being re-covered with sand. The site will only be revealed again during, or after, storm conditions and there was a period of two years between the two exposures recorded in this report. Storm conditions are likely to further damage or completely remove what is left of the site, so it is important to monitor the exposures and record newly exposed areas as soon as possible.

1.3 Three distinct areas of peat were recorded (Figure 2); the most southerly exposed section of the peat bed bearing human and animal footprints; a further section, likely to have been part of the same peat bed, exposed along the shoreline but not bearing footprints; and a substantial area of truncated peat bed/ancient land surface containing the remains of ancient woodland/forest. These deposits were surveyed using a Leica TC307 total station and mapping-grade GPS. The footprint exposures were planned at a scale of 1:20 making note of their length width and depth as well as a direction of travel where apparent.

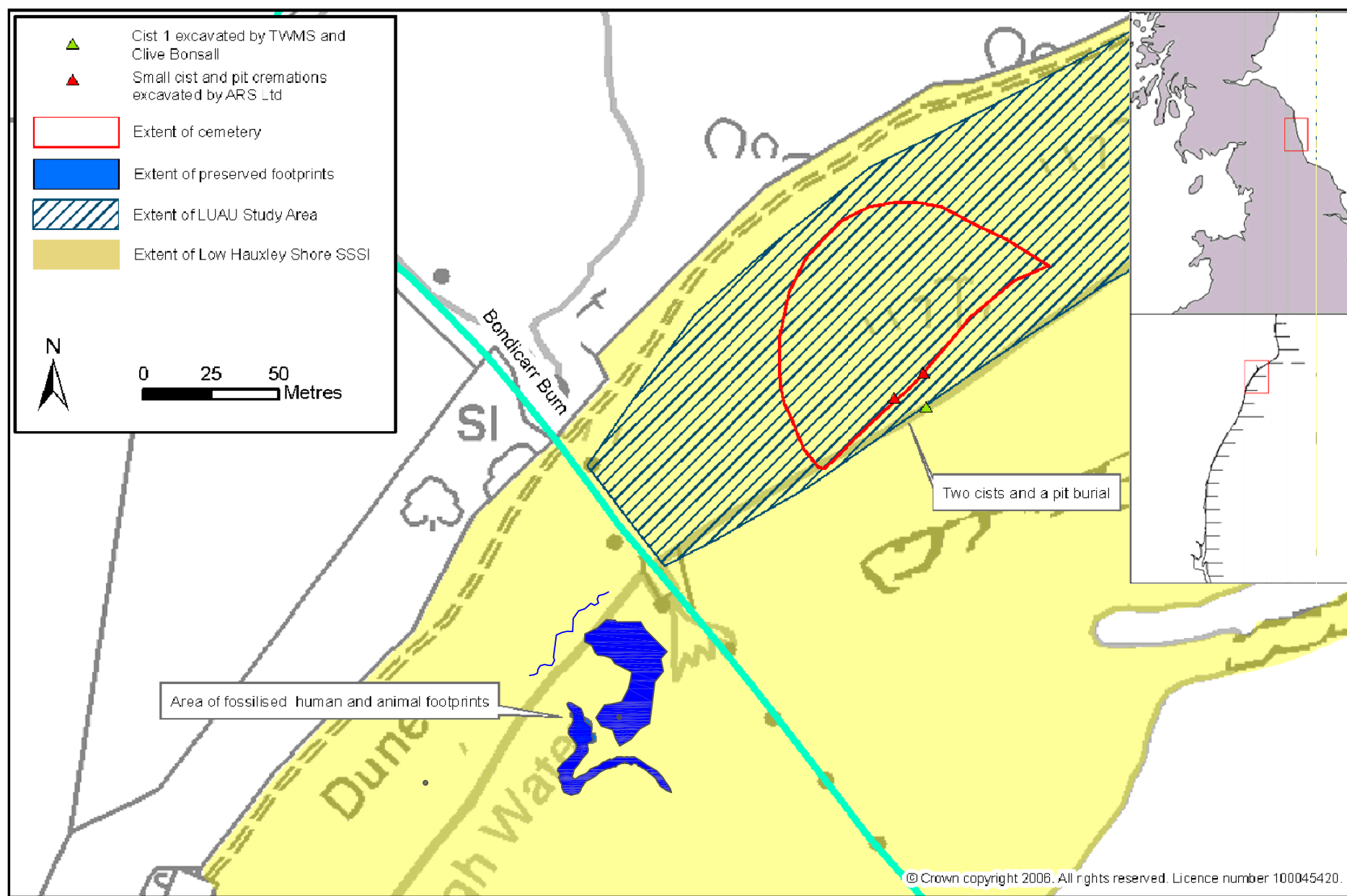
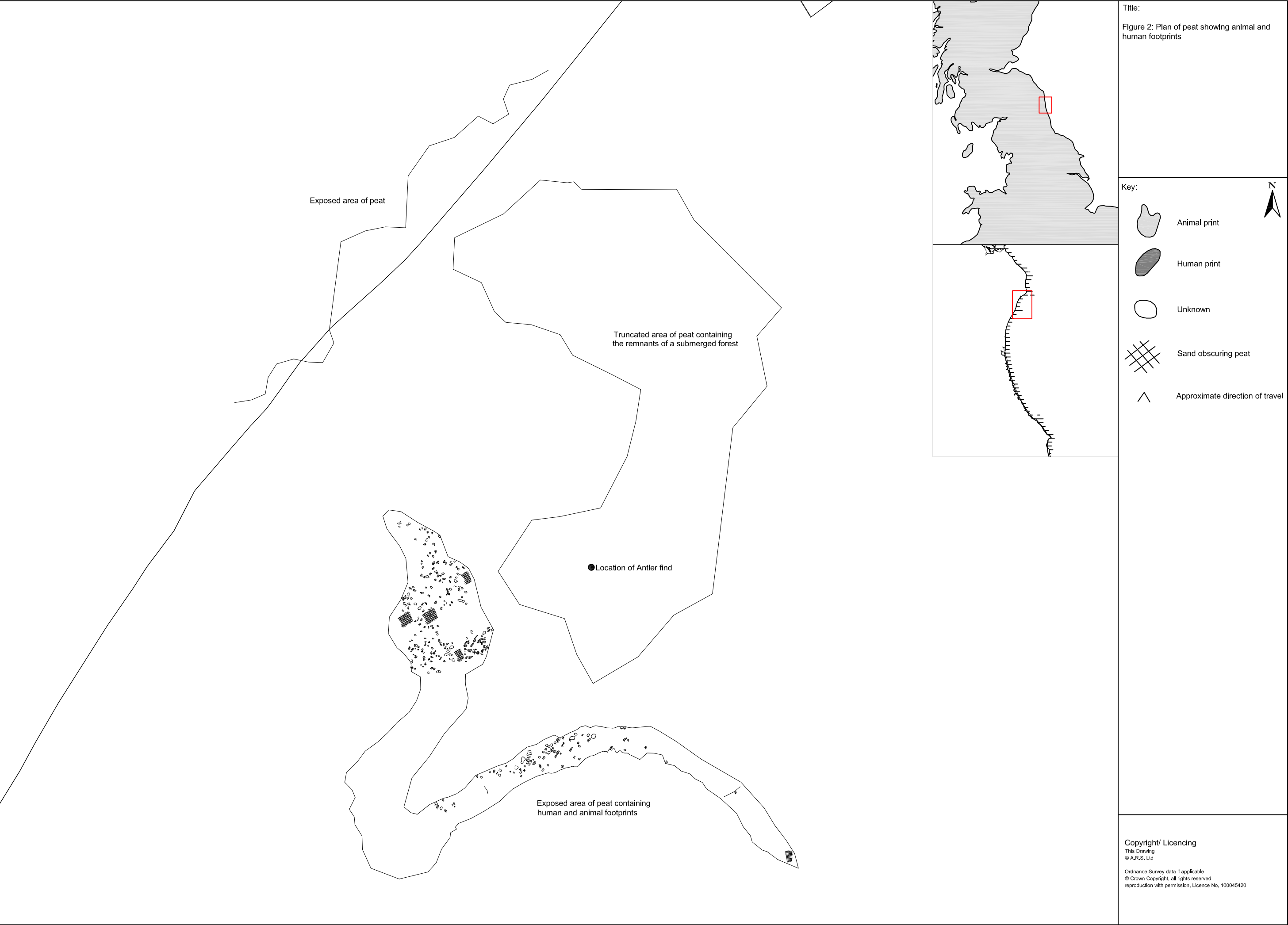


Figure 1 Location map of peat deposit at Low Hauxley with extent of cist cemetery to north outlined



## 2 Southerly section of peat bed containing preserved human and animal footprints

2.1 An area of 213m<sup>2</sup> of exposed peat bed was recorded in the inter-tidal zone at Low Hauxley. Clear indications of human footprints, as well as animals with cloven-feet were abundant across the deposit and a total of 269 potential footprint depressions were recorded (Figures 3-5). Where possible these have been interpreted as either human or animal and this reveals 90 human prints and 88 animal prints. It was unclear during the recording process how, exactly, most of the prints matched up to form potential tracks, although there were a small number of instances where fairly clear human and animal tracks were evident (Figures 6-8).

2.2. The dimensions (length, width and depth) of each hollow within the peat were recorded and are listed in Appendix 1 at the end of this report. The foot prints consist of human footprints of various sizes, although in none of them could individual toes be identified. This, together with their generally smoothed edge appearance suggests that the humans were wearing footwear of some sort. The human footprints vary in size from 80mm to an average of around 220mm (although some are longer than this but due to smudging and slipping or dragging of the foot) suggesting that both adults and children were present. The animal footprints were of two general types: cloven hoofed and large more circular-shaped prints. The cloven hoof prints may represent several different types of animals as there is variation in shape, size and form. The plaster cast of the cloven-hoof print is large and measures approximately 80mm long and together with its shape and form indicates a large *cervid* (Andy Hammon pers comm.) and the most likely candidate for this is red deer (Bang and Dahlstrøm 2011, 22 and 74). Red deer are an indigenous species that naturally inhabit forest and woodland. Their range has, therefore, decreased with the progressive de-forestation of Britain. Red deer can adapt to open environments, as evidenced by their presence on the moorlands of northern England and Scotland today, although this habitat change has resulted in a size decrease (Grant 1981, 206; Staines 1991, 497; Yalden 1999, 104).

Other cloven-hoof prints visible in the peat have a form indicating the presence of wild boar and the ones shown in Figure 8 compare closely in size and form with the walking wild boar prints recorded by Bang and Dahlstrøm (2011, 22 and 73). The second plaster cast, although less detailed, is from an even bigger animal. This print is much more rounded in shape and measure between 100mm and 110mm in diameter, The hoof was also much more deeply embedded indicating this was a much heavier animal. The print from which the plaster cast was taken clearly showed that the hoof had either slipped forward or was dragged backwards so as to leave a secondary area of print behind the main circular print. The shape and size of this print indicates that it is from a *bovid* (Andy Hammon pers comm.) and the shape compares with that for modern cattle (Bang and Dahlstrøm 2011, 22 and 74), although its larger size would suggest an earlier and larger form of wild cattle, namely aurochs.

2.3 Eight pieces of substantial timber (in excess of 0.15m length) were noted in the surface of the deposit, although in most cases it was not clear from surface examination whether these had been worked or not (Figure 9). One sample of timber was recovered from the surface of the peat as part of the North East Rapid Coastal Zone Assessment and subsequent analysis by Maisie Taylor revealed that this had been worked, and probably with the use of stone tools.

## Timber

By Maisie Taylor

2.4 The timber sample is 405mm long, 71mm wide and between 12 and 22mm thick. It is more or less parallel sided but tapers slightly in thickness (see Fig. 13). One face has bark at one end but a torn surface at the other. The other face is flat and smooth with slight parallel marks across the grain. One side is rounded with the bark wrapped round, the other is chamfered quite sharply. The transverse section of the piece suggests that it is roundwood which is either distorted or worked. The pith can clearly be seen, and the early wood is undistorted. The later growth is compressed, however, making it difficult to distinguish post depositional distortion from modification.

2.5 Using the scoring scale developed by the Humber Wetlands Project (Van de Noort, Ellis, Taylor and Weir 1995 Table 15.1) this piece scores 4. The condition scale is based primarily on examination of the surface of the wood and the data which was recorded from that examination. The condition score reflects whether each type of analysis might be profitably applied, it is not intended as a recommendation for various analyses or treatment. A score of 5 would mean that all or any of the processes detailed from museum conservation to species identification might be worth applying to the material. A score of 0 would mean that it was unsuitable for the application of any of the listed analysis. A score of 4, therefore means that most forms of analysis might be suitable.

|   | MUSEUM<br>CONSERVATION | TECHNOLOGY<br>ANALYSIS | WOODLAND<br>MANAGEMENT | DENDRO-<br>CHRONOLOGY | SPECIES<br>IDENTIFICATION |
|---|------------------------|------------------------|------------------------|-----------------------|---------------------------|
| 5 | +                      | +                      | +                      | +                     | +                         |
| 4 | -                      | +                      | +                      | +                     | +                         |
| 3 | -                      | +/-                    | +                      | +                     | +                         |
| 2 | -                      | +/-                    | +/-                    | +/-                   | +                         |
| 1 | -                      | -                      | -                      | -                     | +/-                       |
| 0 | -                      | -                      | -                      | -                     | -                         |

Table 1. Table showing condition scores for the Low hauxley timber.

2.6 The wood is, therefore, very well preserved despite being compressed. It appears to be diffuse porous which, together with the compression, makes macro identification difficult. Compression (as indicated by diameter), can be an indicator of dessication (French and Taylor 1985, Taylor 1998), although it may not necessarily be recent. Desiccation might have occurred at any time (or times) since deposition of the wood with subsequent re-wetting.

2.7 An 'assemblage' of one piece of wood is bound to be problematic, especially where burial conditions have lead to compression and distortion. There are, however, enough features characteristic of working with stone tools to make it likely that it has been intentionally modified rather than distorted post-depositionally. The piece is parallel sided and debris from working with stone tools is often parallel sided (Jorgensen 1985 figs 35-7). It has one torn face, and controlled tearing of wood is a known technique in regular use (Jorgensen 1985 fig 41). The other face is flat and smooth with slight parallel marks across the grain. These are similar traces to those first recognised at Star Carr, where there were parallel, transverse cut marks between deeper grooves (Mellars, Schadla-Hall, Lane and Taylor 1998 Figs 4.8; 4.9). The clearest evidence for working,

however, lies with the chamfered edge which cuts sharply and evenly across the grain. Worked wood from both the Mesolithic and early Neolithic is very rare in this country, which means that there is virtually no data about stone axe techniques. Recent work on material from Star Carr suggests that the wood-working techniques are quite sophisticated by c 8,000 cal. BC, but there are clear indications that the techniques associated with stone tools were quite different to those employed for metal. It is also seems that many of these techniques were rapidly lost once metal tools arrived. A study of the woodworking from the Early Bronze Age timber circle at Holme (Brennand and Taylor 2003) shows that, as early as 2049BC, there is no trace of the distinctive debris generated by working wood with stone tools.

2.8 The piece of wood assessed here displays several indications of working. It has been photographed and recorded in detail and no further work on it is required. A single piece of worked wood, however, of whatever date or context, is only of limited value. If more wood can be retrieved from the same deposit or its environs, and if a proportion of it is worked, then the assemblage will be of national importance. Although this wood is in good condition (as far as surface detail is concerned), it is also very vulnerable to physical damage and erosion. If further wood is exposed, a wood specialist should inspect the material *in situ* as soon as possible. A sampling strategy specific to the site must be designed at an early stage so that the maximum amount of data can be retrieved as quickly as possible. A reasonable sized assemblage of wood from such an early context must advance research into the techniques for using stone tools.

## Dating

2.9 A sample of twigs was taken from immediately below the surface of the deposit for radiocarbon dating and these are presented in Table 2 below. This peat has provided the earliest dating evidence so far for an inter-tidal peat in the Low Hauxley inter-tidal peat 'complex' and this is in line with expectations given that the sediment unit is at a lower elevation than the other observed peat layers observable in the cliff-face section. The dates of 5330–5210 cal BC and 5220–4990 cal BC (see Table 1 below), show that this peat formed during the late Mesolithic period in the final centuries of the 6<sup>th</sup> millennium cal BC. Although the sample only provided dates for the basal deposit, the deposit is very shallow, being only 6cm thick, and so was probably only short-lived as a wet peaty deposit. In order for the footprint impressions to have survived the peat must have been soft and damp when they were made and then dried out rapidly, and perhaps covered in sand, very shortly afterwards. Therefore, it is difficult to entertain a scenario whereby the footprints could be much later than the *terminus post quem* provided by the Late Mesolithic dates from the base of the deposit. This makes both the peat, the footprints and the substantial quantity of worked wood surviving in this deposit highly significant historic assets, and extremely rare ones, particularly as this is a section of coastline under continuous and severe erosion due to rising sea levels.

| Sample                 | laboratory code | $\delta^{13}\text{C}$ (‰) | radiocarbon age (BP) | calibrated date range (95% confidence) |
|------------------------|-----------------|---------------------------|----------------------|----------------------------------------|
| 750<br>(Low Hauxley E) | OxA-22735       | -25.5                     | 6296 $\pm$ 34 BP     | 5330–5210 cal BC                       |
| 750<br>(Low Hauxley E) | SUERC-30015     | -28.1                     | 6160 $\pm$ 35 BP     | 5220–4990 cal BC                       |

Table 2. Radiocarbon dates from the Low Hauxley peat.

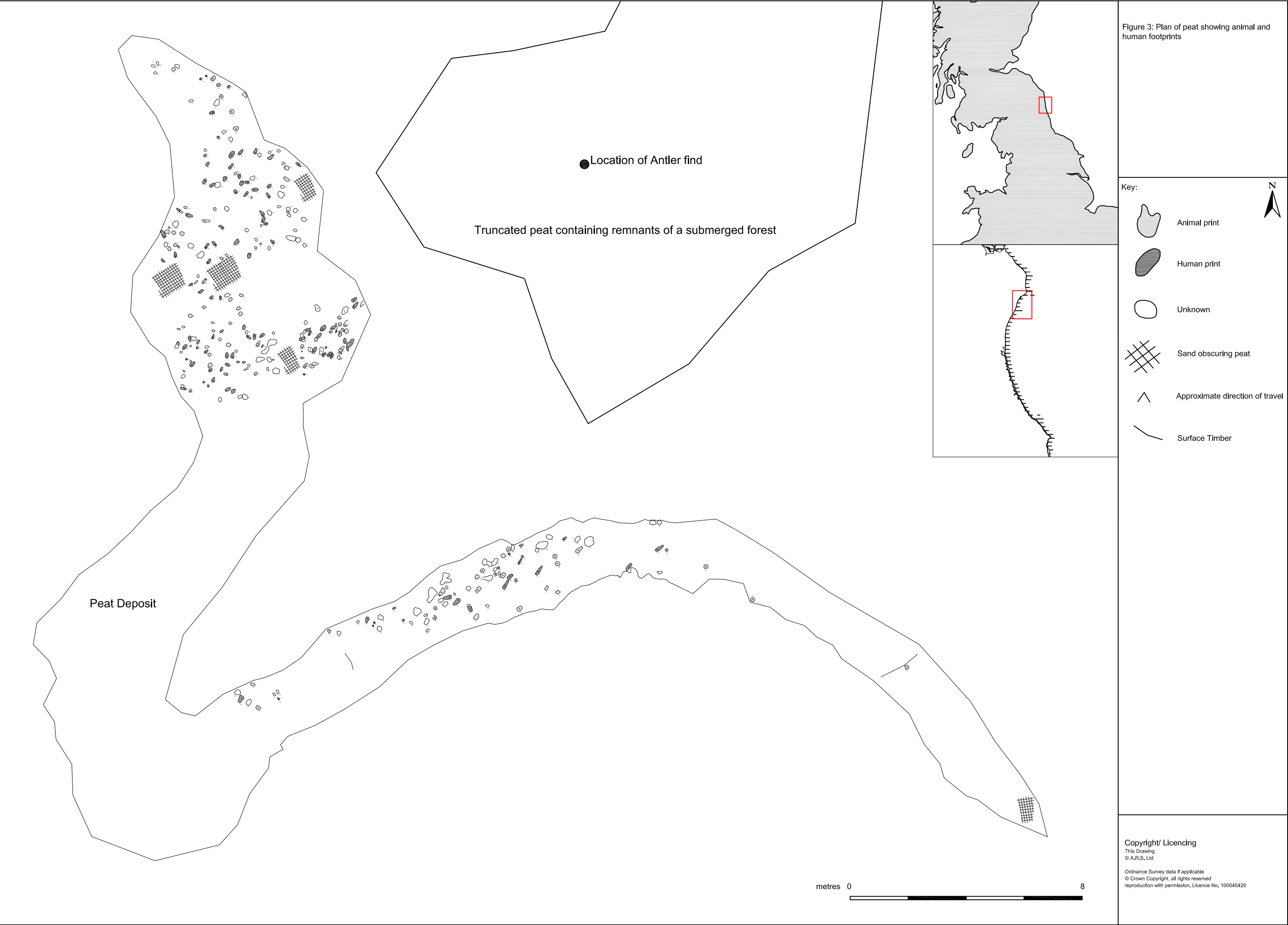




Figure 4: Detailed plan of recorded footprints and other hollows in the upper section of peat

Key:

- |                                                                                     |              |                                                                                      |                     |                                                                                       |                                 |
|-------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|---------------------------------|
|  | Animal print |  | Unknown             |  | Approximate direction of travel |
|  | Human print  |  | Sand obscuring peat |  | Surface Timber                  |

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Figure 5: Detailed plan of recorded footprints and other hollows in the lower section of peat



Key:

- Animal print
- Human print
- Unknown
- Sand obscuring peat
- Approximate direction of travel
- Surface Timber



Figure 6: Human footprint trail, direction of movement is towards the camera (scale = 2m).



Figure 7: Human footprint trail, direction of movement is away from the camera (scale = 0.25m).



Figure 8: Animal hoofprint (probably wild boar) trail with cloven hoofs and size suggesting red deer, direction of movement is away from the camera (scale = 0.25m).



Figure 9: Surface timber in the newly exposed area of the peat bed.

### 3 Peat exposed along the shoreline not containing any preserved footprints

3.1 A further section of peat was recorded eroding along the shoreline to the northwest of the deposit which contains preserved animal and human footprints. This peat bed did not contain any recognisable footprint impressions; however several large timbers were noted in the surface of this deposit. The timbers did not appear to be worked and were left *in-situ*.

### 4 Truncated area of peat containing remnants of a submerged forest and red deer antler

4.1 An area of 504m<sup>2</sup> of exposed peat/ancient land surface containing remnants of woodland/forest was recorded to the north of the peat bed containing the human and animal footprints (Figure 10). This consisted of a heavily truncated peat bed containing substantial tree trunks and tree boles. The tree trunks were predominantly aligned east / west suggesting a marine inundation and the toppling of trees in this direction. The shoreward section of this peat bed contained large areas of detrital peat and dislodged timbers with a significant covering of boulders.

4.2 A piece of red deer antler was recovered from within this ancient woodland land surface on Friday 8<sup>th</sup> February 2013 and donated to the project team (Figure 11). The exact location of the antler find was surveyed in using a total station.



Figure 10: Submerged forest to the north of the original peat bed exposure, looking west (scale = 1m).



Figure 11: Red deer antler discovered within the submerged forest peat (scale = 0.15m).

### **Conclusion**

This peat layer has high potential to yield further archaeological material, wood and animal remains for this significant period of human history (Late Mesolithic) about which little is known from this region. As it contains waterlogged timber, some of which appears to have been worked (Fig. 13), there is potential for considerable information gain in relation to woodland modification and timber working techniques as well as gaining further insight into the kind of tools and equipment people at this time produced. Furthermore, it has the opportunity to shed light on much bigger questions relating to the final drowning of the North Sea, the Mesolithic coastal settlement of northern England at this time as well as details of how people lived, procured resources and adapted to and managed their environment. Perhaps most significantly, this deposit may be contemporary with, and relate to, the Mesolithic occupation site known to exist 50m to the north of the peat below the Bronze Age cemetery that is eroding out of the cliff section and which is to be investigated and recorded as part of a Heritage Lottery-funded project. These are questions of national and international significance and this site, which is under severe and continuous erosion, has the ability to contribute significant information to these questions. The layer is usually protected by up to 1m of sand in places, however this is removed during storm events and the peat layer is exposed and further eroded. Sampling the deposit for worked timber and other finds remains a priority as is something that could potentially be incorporated into the Heritage Lottery-funded project.



Figure 12. Cleaning sand off the peat bed to expose footprints and hoof prints for recording.



Figure 13. Timber sample that appears to have been worked (scale – 0.25m).

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**APPENDIX 1 All recorded imprints in peat deposit with maximum dimensions.**

| Footprint No | Human/Non-human/Unknown | Length (mm) | Width (mm) | Depth (mm) |
|--------------|-------------------------|-------------|------------|------------|
| 1            | Human                   | 230         | 130        | 40         |
| 2            | Human                   | 300         | 120        | 70         |
| 3            | Unknown                 | 320         | 280        | 80         |
| 4            | Animal                  | 130         | 140        | 30         |
| 5            | Unknown                 | 290         | 150        | 50         |
| 6            | Animal                  | 160         | 120        | 50         |
| 7            | Unknown                 | 190         | 130        | 50         |
| 8            | Human                   | 170         | 80         | 20         |
| 9            | Unknown                 | 160         | 150        | 50         |
| 10           | Human                   | 280         | 140        | 30         |
| 11           | Animal                  | 120         | 130        | 30         |
| 12           | Human                   | 90          | 40         | 20         |
| 13           | Animal                  | 190         | 120        | 60         |
| 14           | Animal                  | 150         | 90         | 40         |
| 15           | Human                   | 220         | 120        | 40         |
| 16           | Human                   | 250         | 140        | 20         |
| 17           | Human                   | 290         | 90         | 60         |
| 18           | Animal                  | 240         | 130        | 90         |
| 19           | Human                   | 200         | 100        | 20         |
| 20           | Human                   | 220         | 100        | 40         |
| 21           | Human                   | 250         | 110        | 40         |
| 22           | Unknown                 | 190         | 120        | 50         |
| 23           | Animal                  | 130         | 70         | 30         |
| 24           | Human                   | 230         | 100        | 40         |
| 25           | Animal                  | 130         | 60         | 80         |
| 26           | Unknown                 | 200         | 120        | 100        |
| 27           | Human                   | 190         | 100        | 50         |
| 28           | Human                   | 210         | 110        | 50         |
| 29           | Unknown                 | 230         | 90         | 45         |
| 30           | Human                   | 170         | 70         | 30         |
| 31           | Human                   | 300         | 140        | 60         |
| 32           | Unknown                 | 180         | 150        | 30         |
| 33           | Animal                  | 140         | 100        | 50         |
| 34           | Unknown                 | 140         | 120        | 50         |
| 35           | Animal                  | 110         | 120        | 60         |
| 36           | Unknown                 | 180         | 160        | 50         |
| 37           | Unknown                 | 180         | 150        | 50         |
| 38           | Animal                  | 70          | 80         | 10         |
| 39           | Animal                  | 140         | 120        | 30         |
| 40           | Animal                  | 150         | 50         | 40         |
| 41           | Animal                  | 230         | 120        | 40         |
| 42           | Human                   | 200         | 110        | 40         |
| 43           | Human                   | 180         | 100        | 50         |
| 44           | Human                   | 240         | 90         | 90         |
| 45           | Unknown                 | 130         | 110        | 40         |
| 46           | Animal                  | 190         | 100        | 90         |
| 47           | Animal                  | 240         | 90         | 50         |
| 48           | Animal                  | 110         | 90         | 50         |

| Footprint No | Human/Non-human/Unknown | Length (mm) | Width (mm) | Depth (mm) |
|--------------|-------------------------|-------------|------------|------------|
| 49           | Animal                  | 190         | 120        | 70         |
| 50           | Unknown                 | 210         | 130        | 90         |
| 51           | Animal                  | 180         | 120        | 30         |
| 52           | Human                   | 220         | 100        | 90         |
| 53           | Animal                  | 80          | 100        | 50         |
| 54           | Human                   | 160         | 100        | 90         |
| 55           | Animal                  | 120         | 90         | 50         |
| 56           | Unknown                 | 130         | 70         | 60         |
| 57           | Human                   | 80          | 70         | 40         |
| 58           | Animal                  | 130         | 140        | 60         |
| 59           | Human                   | 100         | 80         | 40         |
| 60           | Human                   | 210         | 110        | 70         |
| 61           | Human                   | 180         | 140        | 80         |
| 62           | Animal                  | 120         | 100        | 70         |
| 63           | Human                   | 190         | 100        | 60         |
| 64           | Human                   | 200         | 120        | 80         |
| 65           | Human                   | 230         | 100        | 90         |
| 66           | Human                   | 220         | 130        | 80         |
| 67           | Unknown                 | 180         | 100        | 90         |
| 68           | Unknown                 | 200         | 170        | 80         |
| 69           | Unknown                 | 160         | 110        | 60         |
| 70           | Animal                  | 100         | 80         | 50         |
| 71           | Animal                  | 100         | 100        | 70         |
| 72           | Human                   | 160         | 100        | 70         |
| 73           | Animal                  | 230         | 150        | 70         |
| 74           | Animal                  | 180         | 130        | 80         |
| 75           | Human                   | 190         | 100        | 80         |
| 76           | Unknown                 | 200         | 110        | 60         |
| 77           | Animal                  | 200         | 160        | 70         |
| 78           | Animal                  | 130         | 100        | 60         |
| 79           | Human                   | 170         | 100        | 50         |
| 80           | Unknown                 | 210         | 170        | 50         |
| 81           | Unknown                 | 160         | 150        | 50         |
| 82           | Human                   | 160         | 100        | 80         |
| 83           | Human                   | 210         | 100        | 100        |
| 84           | Animal                  | 180         | 100        | 50         |
| 85           | Human                   | 200         | 90         | 30         |
| 86           | Animal                  | 140         | 150        | 50         |
| 87           | Human                   | 200         | 90         | 50         |
| 88           | Human                   | 230         | 110        | 70         |
| 89           | Animal                  | 140         | 100        | 40         |
| 90           | Animal                  | 60          | 70         | 40         |
| 91           | Human                   | 210         | 100        | 50         |
| 92           | Human                   | 230         | 80         | 70         |
| 93           | Animal                  | 140         | 100        | 60         |
| 94           | Unknown                 | 170         | 100        | 80         |
| 95           | Human                   | 200         | 160        | 90         |
| 96           | Unknown                 | 260         | 260        | 100        |
| 97           | Human                   | 150         | 80         | 70         |
| 98           | Human                   | 240         | 120        | 80         |

| <b>Footprint No</b> | <b>Human/Non-human/Unknown</b> | <b>Length<br/>(mm)</b> | <b>Width<br/>(mm)</b> | <b>Depth<br/>(mm)</b> |
|---------------------|--------------------------------|------------------------|-----------------------|-----------------------|
| 99                  | Unknown                        | 230                    | 190                   | 90                    |
| 100                 | Animal                         | 120                    | 70                    | 40                    |
| 101                 | Animal                         | 150                    | 120                   | 50                    |
| 102                 | Animal                         | 160                    | 160                   | 60                    |
| 103                 | Unknown                        | 200                    | 120                   | 80                    |
| 104                 | Human                          | 270                    | 90                    | 90                    |
| 105                 | Human                          | 270                    | 150                   | 90                    |
| 106                 | Human                          | 250                    | 160                   | 50                    |
| 107                 | Animal                         | 120                    | 130                   | 60                    |
| 108                 | Unknown                        | 130                    | 110                   | 40                    |
| 109                 | Human                          | 190                    | 130                   | 80                    |
| 110                 | Animal                         | 80                     | 100                   | 50                    |
| 111                 | Unknown                        | 160                    | 100                   | 40                    |
| 112                 | Unknown                        | 170                    | 130                   | 60                    |
| 113                 | Human                          | 220                    | 100                   | 90                    |
| 114                 | Animal                         | 190                    | 190                   | 90                    |
| 115                 | Animal                         | 190                    | 120                   | 60                    |
| 116                 | Animal                         | 200                    | 70                    | 80                    |
| 117                 | Human                          | 170                    | 120                   | 60                    |
| 118                 | Animal                         | 150                    | 100                   | 70                    |
| 119                 | Unknown                        | 190                    | 210                   | 100                   |
| 120                 | Unknown                        | 350                    | 90                    | 130                   |
| 121                 | Animal                         | 100                    | 80                    | 60                    |
| 122                 | Human                          | 180                    | 120                   | 60                    |
| 123                 | Human                          | 130                    | 140                   | 80                    |
| 124                 | Unknown                        | 200                    | 150                   | 80                    |
| 125                 | Human                          | 220                    | 130                   | 80                    |
| 126                 | Unknown                        | 240                    | 180                   | 90                    |
| 127                 | Animal                         | 170                    | 150                   | 50                    |
| 128                 | Human                          | 290                    | 130                   | 100                   |
| 129                 | Human                          | 310                    | 70                    | 70                    |
| 130                 | Animal                         | 140                    | 120                   | 50                    |
| 131                 | Unknown                        | 200                    | 100                   | 30                    |
| 132                 | Animal                         | 180                    | 130                   | 70                    |
| 133                 | Human                          | 200                    | 100                   | 50                    |
| 134                 | Animal                         | 250                    | 180                   | 80                    |
| 135                 | Unknown                        | 150                    | 130                   | 70                    |
| 136                 | Unknown                        | 290                    | 200                   | 60                    |
| 137                 | Unknown                        | 160                    | 120                   | 50                    |
| 138                 | Unknown                        | 150                    | 130                   | 50                    |
| 139                 | Unknown                        | 180                    | 160                   | 60                    |
| 140                 | Unknown                        | 190                    | 160                   | 40                    |
| 141                 | Unknown                        | 300                    | 180                   | 50                    |
| 142                 | Unknown                        | 230                    | 230                   | 50                    |
| 143                 | Unknown                        | 200                    | 140                   | 80                    |
| 144                 | Human                          | 200                    | 100                   | 50                    |
| 145                 | Human                          | 200                    | 110                   | 50                    |
| 146                 | Human                          | 210                    | 130                   | 70                    |
| 147                 | Human                          | 220                    | 80                    | 40                    |
| 148                 | Human                          | 140                    | 100                   | 60                    |

| Footprint No | Human/Non-human/Unknown | Length (mm) | Width (mm) | Depth (mm) |
|--------------|-------------------------|-------------|------------|------------|
| 149          | Unknown                 | 170         | 170        | 60         |
| 150          | Human                   | 210         | 100        | 50         |
| 151          | Human                   | 200         | 100        | 40         |
| 152          | Human                   | 200         | 100        | 70         |
| 153          | Human                   | 200         | 140        | 90         |
| 154          | Human                   | 220         | 140        | 80         |
| 155          | Human                   | 160         | 120        | 50         |
| 156          | Unknown                 | 180         | 130        | 70         |
| 157          | Human                   | 180         | 90         | 50         |
| 158          | Unknown                 | 190         | 140        | 60         |
| 159          | Human                   | 230         | 120        | 80         |
| 160          | Human                   | 150         | 100        | 90         |
| 161          | Unknown                 | 140         | 100        | 50         |
| 162          | Human                   | 300         | 160        | 70         |
| 163          | Human                   | 220         | 100        | 50         |
| 164          | Human                   | 220         | 130        | 50         |
| 165          | Unknown                 | 160         | 140        | 40         |
| 166          | Unknown                 | 120         | 100        | 80         |
| 167          | Human                   | 270         | 120        | 50         |
| 168          | Unknown                 | 136         | 078        | -          |
| 169          | Unknown                 | 142         | 083        | -          |
| 170          | Unknown                 | 119         | 082        | -          |
| 171          | Animal                  | 135         | 122        | -          |
| 172          | Unknown                 | 184         | 119        | -          |
| 173          | Animal                  | 081         | 068        | -          |
| 174          | Animal                  | 063         | 070        | -          |
| 175          | Animal                  | 173         | 119        | -          |
| 176          | Animal                  | 141         | 115        | -          |
| 177          | Animal                  | 115         | 087        | -          |
| 178          | Animal                  | 139         | 136        | -          |
| 179          | Unknown                 | 145         | 082        | -          |
| 180          | Unknown                 | 244         | 167        | -          |
| 181          | Unknown                 | 161         | 117        | -          |
| 182          | Human                   | 188         | 100        | -          |
| 183          | Animal                  | 153         | 134        | -          |
| 184          | Animal                  | 158         | 073        | -          |
| 185          | Unknown                 | 155         | 086        | -          |
| 186          | Animal                  | 093         | 089        | -          |
| 187          | Unknown                 | 159         | 123        | -          |
| 188          | Unknown                 | 216         | 191        | -          |
| 189          | Human                   | 249         | 165        | -          |
| 190          | Unknown                 | 222         | 152        | -          |
| 191          | Animal                  | 126         | 170        | -          |
| 192          | Animal                  | 156         | 093        | -          |
| 193          | Unknown                 | 114         | 055        | -          |
| 194          | Animal                  | 070         | 092        | -          |
| 195          | Unknown                 | 147         | 068        | -          |
| 196          | Animal                  | 119         | 132        | -          |
| 197          | Unknown                 | 126         | 149        | -          |
| 198          | Unknown                 | 088         | 088        | -          |

| Footprint No | Human/Non-human/Unknown | Length (mm) | Width (mm) | Depth (mm) |
|--------------|-------------------------|-------------|------------|------------|
| 199          | Human                   | 216         | 128        | -          |
| 200          | Animal                  | 049         | 052        | 020        |
| 201          | Animal                  | 064         | 074        | -          |
| 202          | Unknown                 | 189         | 157        | 070        |
| 203          | Unknown                 | 212         | 153        | 080        |
| 204          | Animal                  | 085         | 097        | 080        |
| 205          | Animal                  | 060         | 121        | -          |
| 206          | Unknown                 | 122         | 080        | 040        |
| 207          | Unknown                 | 256         | 264        | 100        |
| 208          | Unknown                 | 132         | 076        | 040        |
| 209          | Unknown                 | 220         | 149        | 080        |
| 210          | Unknown                 | 166         | 067        | 060        |
| 211          | Animal                  | 116         | 120        | 040        |
| 212          | Animal                  | 121         | 178        | 050        |
| 213          | Unknown                 | 486         | 287        | 090        |
| 214          | Unknown                 | 175         | 118        | 0601       |
| 215          | Unknown                 | 205         | 123        | 070        |
| 216          | Animal                  | 281         | 132        | 070        |
| 217          | Human                   | 271         | 127        | 060        |
| 218          | Human                   | 307         | 150        | 060        |
| 219          | Human                   | 279         | 138        | 070        |
| 220          | Animal                  | 225         | 136        | 080        |
| 221          | Unknown                 | 098         | 094        | -          |
| 222          | Unknown                 | 079         | 062        | 010        |
| 223          | Unknown                 | 446         | 383        | 090        |
| 224          | Unknown                 | 165         | 146        | 060        |
| 225          | Animal                  | 236         | 135        | 070        |
| 226          | Unknown                 | 128         | 083        | 070        |
| 227          | Animal                  | 161         | 140        | 050        |
| 228          | Animal                  | 148         | 120        | 060        |
| 229          | Unknown                 | 399         | 202        | 100        |
| 230          | Unknown                 | 214         | 170        | 090        |
| 231          | Unknown                 | 179         | 134        | 080        |
| 232          | Unknown                 | 286         | 158        | 090        |
| 233          | Unknown                 | 157         | 089        | 050        |
| 234          | Animal                  | 082         | 090        | 040        |
| 235          | Animal                  | 086         | 125        | 020        |
| 236          | Unknown                 | 110         | 075        | 020        |
| 237          | Animal                  | 229         | 138        | 050        |
| 238          | Human                   | 242         | 133        | 064        |
| 239          | Human                   | 337         | 124        | 053        |
| 240          | Animal                  | 103         | 096        | 026        |
| 241          | Animal                  | 140         | 135        | 060        |
| 242          | Animal                  | 088         | 068        | 060        |
| 243          | Human                   | 233         | 051        | 075        |
| 244          | Animal                  | 088         | 075        | 005        |
| 245          | Human                   | 376         | 102        | 054        |
| 246          | Animal                  | 165         | 104        | 059        |
| 247          | Animal                  | 128         | 165        | 048        |
| 248          | Animal                  | 174         | 140        | 024        |

| Footprint No | Human/Non-human/Unknown | Length (mm) | Width (mm) | Depth (mm) |
|--------------|-------------------------|-------------|------------|------------|
| 249          | Animal                  | 136         | 147        | 061        |
| 250          | Animal                  | 125         | 125        | 045        |
| 251          | Unknown                 | 442         | 268        | 111        |
| 252          | Unknown                 | 228         | 149        | 040        |
| 253          | Human                   | 117         | 074        | 030        |
| 254          | Animal                  | 284         | 143        | 098        |
| 255          | Unknown                 | 226         | 138        | 049        |
| 256          | Unknown                 | 328         | 316        | 126        |
| 257          | Human                   | 296         | 091        | 076        |
| 258          | Unknown                 | 180         | 089        | 036        |
| 259          | Human                   | 338         | 107        | 083        |
| 260          | Animal                  | 065         | 097        | 034        |
| 261          | Unknown                 | 224         | 130        | 006        |
| 262          | Unknown                 | 144         | 150        | 065        |
| 263          | Animal                  | 134         | 147        | 061        |
| 264          | Animal                  | 130         | 146        | 060        |
| 265          | Animal                  | 136         | 150        | 057        |
| 266          | Animal                  | 152         | 198        | 079        |
| 267          | Animal                  | 143         | 156        | 080        |
| 268          | Unknown                 | 201         | 109        | 060        |
| 269          | Animal                  | 139         | 082        | 004        |