Phase 1 Newcraighall, Musselburgh, East Lothian: Archaeological Works Data Structure Report

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On Behalf of: Persimmon Homes East Scotland Ltd

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Abstract

This report presents the results of an archaeological evaluation undertaken in respect of a proposed Phase 1 development at Newcraighall, Musselburgh, East Lothian.

The evaluation required an 8% sample of the 12ha site. This was restricted by the presence of services, mineshafts and boreholes. In total 3,882 linear meters were excavated.

Throughout the evaluation a stone lined culvert was uncovered, possibly connected to 19th C mining or as drainage to the culverted burn. A single isolated pit was also uncovered to the northwest of the site.

In the eastern portion of site four pits forming a short alignment were also uncovered. This possibly represents a prehistoric pit alignment. Several such alignments are known in the locale.

Further works may be required to fully determine the form and nature of the pits.

1 INTRODUCTION

1.1 Background

- 1.1.1 A programme of archaeological works comprising an archaeological evaluation is required by Persimmon Homes Ltd prior to the construction of Phase 1 of a mixed use development at Newcraighall, Musselburgh, East Lothian (NGR: NT 33493 671132). The need for, and scope of, the archaeological works has been determined by East Lothian Council who are advised on archaeological matters by Mr. Andrew Robertson of the East Lothian Council Archaeology Service (ELCAS).
- 1.1.2 The proposed development area (centred on NGR: NT 33493 671132; Figure 1) measures 34 ha in total. The topography of the site consists of a single gently undulating fallow field.
- 1.1.3 A total of 38 trenches were excavated across the site. A single isolated pit was recorded in the northern half of the site, together with what appeared to be small alignment of pits was within the eastern part of the site. One of the pits produced a single unclassified piece of iron slag.

1.2 Location

1.2.1 The total land take of the proposed development is in the region of 159ha of which Phase 1 covers approximately 12ha. The Phase 1 development area is located at the western edge of East Lothian and comprises a single wedge-shaped land parcel on the northern side of the A1. The site is bounded to the north and west by a freight rail line and to the east by the B6415.

1.3 Archaeological Background (Taken from EIA Report AOC Archaeology 2018)

1.3.1 Prehistoric and Roman (pre AD410)

- 1.3.1.1 No prehistoric remains are known within the site.
- 1.3.1.2 A range of prehistoric sites including pit alignments are known from cropmark evidence to the southeast of the site extending towards the north bank of the Esk. Five of these sites have been protected through Scheduling including two parallel northeast southwest aligned pit alignments and four enclosures at Eastfield (Sites 81 and 82). The longest of the pit alignments extends for 265m, while the enclosures vary in form including a 40m diameter enclosure within which a possible house platform has been identified and a circular enclosure apparently defined by two concentric palisades within which a possible circular internal structure was detected. A third enclosure apparently overlay one of the pit alignments whilst the fourth was formed by a semi-circular ditch enclosing an area above the banks of the Esk.
- 1.3.1.3 Two parallel north south pit alignments have been identified to the east (Sites 83 and 191) and west (Sites 86 and 87) of the City of Edinburgh Bypass at Newton and are Scheduled Monuments. Further cropmarks, possibly representing pits and quarries (Site 88) have been recorded on oblique

aerial photography southeast of Monkton House and are located within the Scheduled Area. Two ring ditches representing the remains of prehistoric houses have been protected through Scheduling at Castlesteads Park (Site 85).

- 1.3.1.4 Non-designated heritage assets associated or potentially associated with the Scheduled Monuments include (Site 120) a linear feature which extends for 35m on a north northwest to south southeast alignment across the east of the site immediately south of the A1 dual carriageway. Whilst Site 120 is undated, it could potentially project the course of the prehistoric pit alignment (Sites 83 and 91) northwards into the east of the site. Similarly, non-designated cropmarks of two pit alignments and an enclosure (Sites 53, 93 and 192) at Castlesteads could potentially represent continuations of the Scheduled remains known to the south (Site 87) and southeast (Site 85). An archaeological evaluation (Site 150) undertaken immediately north of the A1 in 2009 sought to confirm whether the pit alignments Scheduled at Eastfield (Sites 81 and 82) extended north of the A1. The evaluation confirmed the presence of both pit alignments (Site 95). A circular feature, thought from cropmark evidence to represent prehistoric settlement was found to be a post-medieval colliery, however the presence of pits suggested that the site lay on the fringes of a prehistoric settlement. A ring ditch (Site 178) recorded on aerial photographs immediately southwest of the A1/A720 interchange is also indicative of the presence of prehistoric settlement within this area as is the presence of a ring ditch and possible 'cairn circles' (Sites 94 and 178) identified from cropmarks to the east of the site at Old Craighall.
- 1.3.1.5 Other prehistoric remains or artefacts reported within 500m of the proposed development include a circular enclosure (Site 108) recorded from cropmarks to the southwest at Millerhill and string-marked pottery vessels (Site 90) reportedly found within a sand pit at Inveresk which were exhibited at the Scottish Exhibition in Glasgow in 1911.
- 1.3.1.6 The Scheduled remains of the major Roman fort and vicus (civilian settlement) at Inveresk (Site 71) lie east of the development within the 1km study area. The remains overlook the eastern banks of the Esk. The Scheduled remains of a series of marching or temporary camps (Site 180) are known east of the site again on the eastern bank of the Esk. Two Roman coins of the Emperor Trajan (Sites 46 and 80) were recovered from gardens in South Musselburgh and presumably result from casual loss by residents of the fort and vicus or the manuring of fields with waste from the fort. The NRHE further notes that 'traces of a Roman encampment' (Site 91, approx location) were once visible to the west of the Esk on Shire Haugh, although these remains had been lost by 1845.

1.3.2 Medieval (AD410 – AD 1485)

1.3.2.1 Medieval evidence in proximity to the site is limited to the discovery of small quantities of medieval pottery during works associated with construction of Queen Margaret University campus (Site 47) within the site (Sites 43 and 44). These include a single sherd of green glazed pottery (Site 45), found adjacent to Musselburgh Railway Station during the development and further sherds of 15th to 16th century material recovered from the fill of a furrow (Site 43). Further evidence of rig and furrow

has been identified to the east of the site at Monkton Lodge (Site 92). Monkton House (Site 121), located adjacent to the south-east boundary of the site, may have originated as a property of the Cistercian Newbattle Abbey, probably a grange. The Hays of Yester acquired the estate after the Reformation (RCAHMS 1929, 87-9, No.118 fig.112; Tranter 1962, 112-3),

1.3.2.2 The northeast of the site falls within the designated boundary of the Inventoried Battlefield of Pinkie (1547) (Site 52). Historic Scotland note that this was probably the single largest battle fought within Scotland, with the Scottish army, 22-23,000 strong, facing 15-19,000 English troops. It was also the final major battle fought between the separate Kingdoms of Scotland and England prior to the Union of the Crowns in 1603. It came as the culmination of Henry VIII's campaign to force the Scots' acceptance of a marriage alliance between his son Edward and Mary, Queen of Scots, known as the Rough Wooing. The battle was a major defeat for the Scots, causing the virtual destruction of their army. The Inventory boundary 'defines the area in which the main events of the battle are considered to have taken place (landscape context) and where associated physical remains and archaeological evidence occur or may be expected (specific qualities)' (Historic Scotland 2012). The Inventory mapping indicates that the movement of the Scottish forces (westwards in retreat) would have been in the vicinity of the site. The battle's entry on the Inventory notes that the probable location of the Scottish camp prior to the battle lay southwest of Musselburgh on land now occupied by the modern housing estates of Whitehill, Stoneyhill, Stoneybank and Eskview. However, the Inventory also notes that Patten (1548), recorded that the English deployed artillery in the lane to the south of Inveresk to bombard the Scottish camp, which could potentially place the Scottish camp to the south of Stoneyhill, possibly in closer proximity to the site, although no archaeological evidence for the camp has been identified. Mapping of historic battlefields is not an exact science and the possibility of remains associated with the battle being encountered during the development cannot be discounted.

1.3.3 Post-Medieval (AD1485 –AD 1900)

1.3.3.1 Early maps of the area are schematic. Robert Gordon's map of 1636-52 (not illustrated) records only the thick vertical line of the Esk with settlements, or more probably small country estates shown at Montonhall [Monktonhall], Marishal [Niddrie Marichal], Niddrie [Niddrie Marichal] and Cragyhall [Craighall]. Curiously Niddrie Marichal is shown twice, where in reality it was a single seat in the possession of the Wauchopes. Cragyhall is placed to the south of Marishal where as in reality Craighall east of the Wauchopes seat. These discrepancies highlight the schematic nature of Gordon's map. Pont's map of 1636 is similarly schematic although it does locate a settlement "Foalbrigges" to the north of Newton. Blaeu's map of 1654 (not illustrated) is also schematic, although it is clearer, recording four estates extending south from Fisheraw [Fisherrow]: Stoney hill, Brunstoun, Whytt hill and Mountoun ha [Monktonhall] although Craighall is not shown. Adair's map of 1682 (not illustrated) is more detailed, showing Fisherrow and settlement on either side of the bridge at Musselburgh as well as estates at Whythil, Stoneyhil and Mountounhall and Nerotoun (Newton). However no activity can be clearly located within the site itself. Moll's map of 1745 (not shown) is particularly schematic although Crayg [Craighall] is shown to the west of the Esk between

Brounstoun and Edmondstoun [Edmondstone]. Craighall is alternatively known as Monkton House, which would explain references to Montonhall, Mountoun ha and Mountounhall on earlier maps.

1.3.3.2 Roy's Military Survey of 1752-55 (Figure 11.4) shows the site as open fields to the south of the farm of Edmiston Mains and to the north of 'Mountain' (Old Craighall) and Newton. Two farmsteads are shown close to the western site boundary at Caerney (Site 162) and Middlefield (Site 163). Laurie's maps of 1763 (not illustrated) and 1766 (Figure 11.5) are clearer than Roy and show the site and its surroundings in greater detail. Both Monkton (Old Craighall) and Newton are shown as is the farmstead at Cairnie (Site 162). The stream which passes from southwest to northeast across the site is also depicted. Immediately east of the stream, in proximity to the site boundary are three structures marked 'E Engine' (Site 164) indicating the presence of a colliery close to the site. Laurie also depicts a track or road (Site 165) extending northeastwards from Cairnie crossing the northern part of the site. Laurie also records for the first time a hedged enclosure to the south of Newhailes. This is subsequently recorded on Armstrong's 1773 map (not illustrated) as Wanton Walls (Site 23), this enclosure is shown, in progressively more detail, on Knox's map of 1812 (not illustrated), Thompson 1821 (not illustrated).



Figure 6 Extract from Roy 1752-55



Figure 7 Extract from Laurie 1766

- 1.3.3.3 Knox's map of 1816 shows the settlement of Old Craighall, labelled 'Craig Hall' (Site 100) with an inverted U-shaped block of buildings (Sites 99-103) west of the site. A house labelled 'Craig Hall', clearly Monkton House (Site 121), is depicted to the south east, labelled as being under the ownership of Sir John Hope. The New Statistical Account notes that the Barony of Pinkie was purchased in 1778 by 'the late Sir Archibald Hope of Craighall' and that the owner in the 1830s was Sir John Hope (NSA 1834-45, 281).
- 1.3.3.4 Kirkwood's Map of 1817 (not illustrated) is less detailed and does not show the East Engine (Site 164) to the south of Cairnie. However, it does show an abandoned colliery marked 'Old Engine' (Site 166) within the site to the northeast of Cairnie, suggesting that both the East Engine and its successor mine had been abandoned by 1817. Kirkwood also records the Whitehill Farmhouse (Site 51) west of the site. Thomson's 1832 Atlas of Scotland (Figure 11.6) shows an 'Engine' on the site of Kirkwood's 'Old Engine' (Site 121) suggesting that the colliery was in use. The engine is served by two tracks (Sites 167 and 168) one running eastwards towards Monktonhall, the other northwards. Sharp, Greenwood and Fowler's map of 1828 (not illustrated) lacks detail although it does record four buildings at Cairnie.
- 1.3.3.5 The First Edition Ordnance Survey mapping published in 1854 (Figure 11.7) shows the site as open ground laid out within fields with a road running through the north of the site (the alignment of this road has now been removed by the construction of Queen Margaret University, the A1 and the Millerhill sidings). A small colliery, comprising three buildings and a shaft (Site 42) is shown alongside the East Coast Mainline with a small siding serving the colliery. An 'Old Coal Pit' (Site 78) is recorded as a shaft set within a rectangular enclosure in the north of the site east of the land now occupied by QMUC. An engine house and shaft shown (Site 169) are shown in the southwest corner of the site relatively close to the East Engine (Site 164) first recorded by Laurie in 1766. In

view of the schematic nature of Laurie's map (Figure 11.5) it is unclear whether it is the same mine or given its absence from intervening maps a new sinking. A tramway (Site 171) is shown to extend south-southeast from the mine, running along the western boundary of the site. A further shaft (Site 157) is shown to the north of Old Craighall in the southeast corner of the site it presumably represents an abandoned working.

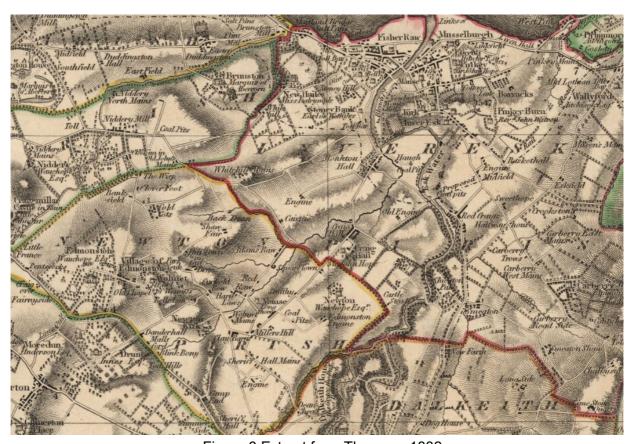


Figure 8 Extract from Thomson 1832



Figure 9 Extract from OS map 1854



Figure 10 Extract from OS map 1909

- 1.3.3.6 The railway is shown crossing two 'Iron Bridges', the first (Site 54) carried the railway over the Old Craighall Road (now the B6415) to the south of the site, the second carries it over a footpath running southwest across the site from Monktonhall. Although the footpath has now been diverted around the field margins, the railway still crosses the path on a bridge at this point. The farmstead at Cairnie (Site 162) is shown to the west of the site on ground now occupied by the Millerhill Marshalling Yard. A single building 'Carlehall' (Site 170) is shown alongside the road at the eastern edge of the site.
- 1.3.3.7 The site is shown substantially unchanged on the Ordnance Survey map of 1895 (not illustrated, although the collieries (Site 169 and Site 78) and tramway (Site 171) had been removed by this date. The former Mucklets Colliery (Site 42) is marked as 'Old Shaft' but its former extent is still shown. Similarly, the shaft (Site 157) west of Old Craighall continues to be shown however, being reported as 'Old Shaft'. Carlehall (Site 170) is recorded as a public house.
- 1.3.3.8 A linear structure (Site 73), characteristic of either a workshop or a row of cottages is shown on the Ordnance Survey map of 1895. The structure lines the northern side of the road between the East Coast Mainline and the colliery (Site 42). Named as Mucklets on later maps, this building considerably outlasted the colliery (abandoned by 1893), being recorded for the final time on the

1932 Ordnance Survey map (not illustrated). It had been removed by the time the 1947-8 edition (not illustrated) was surveyed.

- 1.3.3.9 A range of post-medieval Category A, B and C Listed Buildings are located with 1 km of the site. Four Listed buildings; Newton House including Walls and Gatepiers (Site 145, Category B); Newton Dovecot (Site 144, Category B); Newton Farmhouse (Site 143, Category B) and Newton Farm Steading and Gatepiers (Site 142, Category C) relate to the Newton estate to the south of the site. A further two Listed Buildings relate to the Monkton House Estate located to its southeast at Old Craighall; Monkton House (Sites 140 and 141, Category A Listed) and Old Craighall, Monkton Gardens with Sundial and Garden Walls (Sites 139 and 138 Category B Listed), the latter designation includes the Gardeners House (Site 138). Whitehall Mains Farmhouse (Site 51) is Category B Listed and is located west of the site on the opposite side of the Millerhill Marshalling Yard.
- 1.3.3.10 The village of Newcraighall was developed as a colliery village specifically to serve the mine. Listed structures within the village include cottages (Sites 11 – 15), a drinking fountain (Site 17), the parish church and hall (Site 18), the primary school (Site 19) and the Miners Welfare Institute (Site 20). Niddrie Cottage (Site 69) located on Newcraighall Road west of Newcraighall and northwest of the site is Category C Listed. Wanton Walls Farm (Site 23) is located north of Newcraighall and north of the site and is Category C Listed. Stoneyhill House (Site 59) north of the site is of mid 18th century date and is Category B Listed. Sites 58 and 57 south-east of Stoneyhill House are of mid 19th century date.
- 1.3.3.11 The Inventoried Garden and Designed Landscapes of Dalkeith House (Site 147) and Newhailes (Site 155) extend to within 1km, although the greater proportion of these designations, including their core areas, lie at a greater distance. Listed Buildings within the Newhailes estate located within 1 km of the site include the Category A Listed House (Site 62) and stables (Site 30) and numerous Category B Listed Structures within the estate policies including the grotto (Site 63), ice house (Site 61), dovecote (Site 28), cottages (Site 29) and main gate (Site 34). The western edge of the Inveresk (Musselburgh) Conservation Area (Site 156) extends into the west of the 1km assessment area.
- 1.3.3.12 The NRHE and HER and documentary and cartographic research undertaken by AOC have recorded numerous post-medieval artefacts and assets within 500m of the site boundary. Taken together these assets track the transformation of the area from a landscape of small estates and farms such as Newhailes (Sites 28-34 and 61-63); Stoneyhill (Sites 57 - 59) Brunstane (Sites 67 and 73); Wanton Walls farm (Site 23) and Whitehill Mains farm (Site 51), to industrial coal mining communities. The sites of numerous collieries are recorded within 1km of the site and include sites 1, 3, 21, 24, 39, 42 and 115. These range in scale from coalpits (Site 1) recorded in the fields to the north of Newcraighall, to Newcraighall Colliery (Site 3), a substantial late Victorian mine sunk to a depth of 249 metres in 1897 by the Benhar and Niddrie Coal Company. The workforce peaked at 810 prior to closure in 1968. The remains of a colliery, Mucklets Road (Site 42) was exposed during the construction of QMUC in 2005, while the infilled shaft of a further colliery (Site 95) was exposed to the north of the A1 in 2009. The sites of former miners' settlements are recorded at Old Craighall (Sites 123-128), Adams Row, Millerhill (Site 117) and Rotenraw (Site 129), and a brickworks is recorded at Edmondstone (Site 112).
- 1.3.3.13 Sixteen 19th or 20th century railway structures are recorded within the 1km study area (Sites 4 - 8, 22, 25, 26, 35, 36, 48, 49, 54, 111, 118 and 174). A range of post-medieval farmsteads, buildings and other structures of presumably agricultural origin are also recorded and include (Sites 23, 51, 58, 68, 73, 99, 100, 106, 124, 142, 143, 162 and 163).

1.3.4 Modern (AD 1900 to Present)

- 1.3.4.1 The site is shown substantially unchanged on the 1909 Ordnance Survey (Figure 11.8), apart from the amalgamation of fields. A sheepfold (Site 172) is shown west of Carlehall on the 1919 Ordnance Survey (not illustrated). The 1938 Ordnance Survey, published in 1944 (not illustrated) shows the site unchanged from 1919 although a 'works' (Site 173) is shown immediately west of Carlehall in the 1958 Ordnance Survey (not illustrated), 1968 Ordnance Survey (not illustrated) shows the works as a sewage farm. The immediate surroundings of the site had been transformed between the 1958 and the 1968 Ordnance Survey's with the construction of the Millerhill Marshalling Yard (Site 119), its over bridge (Site 49) and the Monktonhall Colliery 'superpit' (Site 115), immediately to the west. These works necessitated the construction of a railway loop (Site 174) from the east coast mainline through the centre of the site. The site is shown unchanged on the 1976-8, 1989 and 1993-5 Ordnance Surveys (not illustrated).
- 1.3.4.2 Other modern features reported within 1 km of the site include the campus of Queen Margaret University (Site 47), the club house (Site 55) and fountain (Site 56) at Monktonhall Golf Course, the Stoneyhill Community Centre (Site 60) and Musselburgh coachworks (Site 189). A patch of rough ground (Site 77) immediately north of the university access road, could either represent earlier colliery remains or material left over from the construction of the road.

2 **OBJECTIVES**

- 2.1 The objectives of the archaeological works are:
 - i) to determine and assess the character, extent, condition, quality, date and significance of any buried archaeological remains within the proposed development area through evaluation trenching;
 - ii) to advise and implement an appropriate form of mitigation, such excavation, postexcavation analyses and publication, given the infeasibility of preserving the archaeological material in situ, should significant archaeological remains be encountered.

3 **METHODOLOGY**

- 3.1 The archaeological evaluation was designed to meet the requirements of East Lothian Council as advised by Mr Andrew Robertson, and agreed through the submission of a Written Scheme of Investigation (WSI) (AOC 2018).
- 3.4 Trenches were opened by a tracked excavator equipped with 2.0 m wide bladed ditching bucket. Excavation was undertaken in shallow units/spits until the first significant archaeological horizon or geological deposits were reached. All machine excavation was supervised by an experienced field archaeologist and undertaken according to AOC Archaeology Group's standard operating procedures, and the methodology within the agreed WSI (AOC 2018).

RESULTS 4

- 4.1 The archaeological evaluation was undertaken between 14th - 18th January 2019 with weather conditions remaining favourable and archaeological visibility generally very good. The various detailed data gathered is presented as a series of appendices:
 - Appendix 1: Trench Record
 - Appendix 2: Photographic Register
 - Appendix 3: Context Register
 - Appendix 4: Drawing Register
 - Appendix 5: Finds Register
 - Appendix 6: Sample Register
- 4.2.2 The evaluation was initially to represent an 8% sample of 12ha, totalling some 4,800 linear meters of the area. However due to operational factors such as the presence of services to the northeast, reported mine shafts in the southwest and the site being bisected by a culverted burn the total linear meterage was therefore reduced. Therefore, a total of 38 trenches were excavated, totalling 3,882 linear meters, or 7,764 m².





Plate 3 Post-excavation view of Trenches

- 4.2.3 The site consisted of disused and overgrown agricultural farmland bisected by several desire paths. The landscape was gently undulating and overlooked by the A1 and East Main Railway. The site consisted of a fairly uniform soil matrix of a dark black-brown sandy loam, 0.33-0.60m in depth, overlying a subsoil of a mid-brown silty sand, 0.20-0.80m in depth, which in turn overlay the natural substratum of mid-yellow orange mottled sands and gravels. The natural substratum changed to a mid-greyish-brown clayey sand to the north west.
- 4.2.4 In trenches 2, 4, 6, 8, 10, 20 and 33 a stone lined culvert was recorded (Plate 2). The culvert was lime bonded and silted up at various points throughout the field. It likely represents either a more formal drainage into the burn (Figure 1) or associated with the 19th C mining works in the area.



Plate 4 View of stone culvert in Trench 2

A single isolated pit [24004] was recorded in Trench 24. Pit [2404] (Plate 3) measured 0.7m x 0.6m x 4.2.5 0.1m and was circular in plan with moderately sloping sides onto a flat base. The fill (2405) consisted of a mid-brownish grey sandy silt with no artefactual evidence.



Plate 3 View of isolated pit [2404]

4.2.6 Trench 11 contained a small alignment of pits, [1115] (Figures 2 and 5, Plate). The alignment consisted of four pits, [1103-1112], spanning c.11m with irregular spacing. Two of the four pits were excavated, [1104] and [1108] (Plate). Pit [1104] was oval in plan with moderate sloping sides onto a rounded base, while [1108] had uneven sides onto a rounded base. All four pits were c.1.6m x 1m and filled by a mid brownish grey sandy silt.



Plate 4 General view of pits [1115]





Plate 5 View of sections of pits [1104] (left) and [1107] (right)

5 DISCUSSION

- 5.1 The small alignment of pits found during the evaluation possibly forms part of a larger pit alignment as also found within the surrounding area. A single find of unclassified iron working (McLaren, pers comm) was recovered from the fill of Pit [1104]. As per Section 1.3.1, there is a wide variety of prehistoric activity in the immediate area of the site, suggesting the potential for the features found here could possibly be related to a wider prehistoric landscape.
- 5.2 Pit alignments have been deemed problematic in their interpretation (Cameron & Mitchell, 2010:24). The variance in their form and function generally alters between sites, however, they are generally attributed to either functional or ritualistic practices. In many cases they are seen as 'pitted boundaries' either functioning as stock control (Haliday, 1982), quarry pits (Barber, 1985), as a 'conceptual and a physical boundary' (Cameron & Mitchell, 2010:26) or in some cases possibly even natural features (Carter, 1996).

6 CONCLUSION AND RECCOMENDATIONS

- 6.1 The archaeological works associated with the Phase 1 development at Newcraighall, Musselburgh, East Lothian has successfully determined that there is a localised survival of archaeological remains. In the southwest portion of the Phase 1 area a small section of a potentially larger pit alignment was uncovered. This feature would appear to form part of a larger prehistoric landscape in keeping with similar features in the wider landscape. However, the remainder of the Phase 1 area proved to be relatively sterile.
- 6.2 Further mitigation may be required in relation to the pit alignment. The scope and scale of any further works shall be determined by Mr Andrew Robertson of East Lothian Archaeology Service.

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Phase 1 Newcraighall, Musselburgh, **East Lothian: Archaeological Works Data Structure Report**

Section 2: Appendices

APPENDIX 1: Trench Record

Trench 1

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation** SE-NW

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4 m

B-Horizon - Mid brown sandy silt - 0.6-0.8m

Natural Mid orange mottled sand and gravel

Significant Features Other Features None Finds None

Trench 2

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation** SW-NF

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4 m

B-Horizon - Mid brown sandy silt - 0.2-0.3m

Natural Mid orange mottled sand and gravel

Significant Features Stone lined culvert

Other Features Rubble drains, NW-SE @ 10m, 25m, 30m

Finds None

Trench 3

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation** SE-NW

Topsoil - Mid greyish-black-brown silty loam - 0.4 m Soil make-up

> B-Horizon - Mid brown sandy silt - 0.2m Mid orange mottled sand and gravel

Natural Significant Features None

Other Features None Finds None

Trench 4

Dimensions 100m by 2.0m Excavated Area 200m² SW-NE **Excavated Orientation**

Topsoil - Mid greyish-black-brown silty loam - 0.4 m Soil make-up

B-Horizon - Mid brown sandy silt - 0.2-0.3m

Mid orange mottled sand and gravel Natural

Significant Features Stone lined culvert

Other Features Rubble drains, NW-SE @ 15m, 30m, 45m, 50m

Finds None

Trench 5

Dimensions 100m by 2.0m 200m² Excavated Area **Excavated Orientation**

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4 m

Natural Mid orange mottled sand and gravel

Significant Features

Other Features Ceramic Drains, N-S, @ 50m, 70m

Finds None

Trench 6

Dimensions 100m by 2.0m 200m² Excavated Area **Excavated Orientation** SW-NE

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4 m B-Horizon - Mid brown sandy silt - 0.2-0.3m

Mid orange mottled sand and gravel Natural

Significant Features Stone lined culvert

Other Features Rubble drains, NW-SE @ 10m, 15m, 25m, 34m, 45m, 47m, 60m

Finds None

Trench 7

Dimensions 100m by 2.0m 200m² Excavated Area **Excavated Orientation** SE-NW

Topsoil - Mid greyish-black-brown silty loam - 0.4 m Soil make-up

Mid orange mottled sand and gravel Natural

Significant Features None

Other Features Ceramic Drains, N-S, @ 12m, 27m, 42m, 59m, 81m

Finds None

Trench 8

Dimensions 100m by 2.0m 200m² Excavated Area **Excavated Orientation** SW-NE

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4 m

B-Horizon - Mid brown sandy silt - 0.2m Mid orange mottled sand and gravel

Stone lined culvert Significant Features

Other Features Rubble drains, NW-SE @ 20m, 24m, 50m, 72m, 91m

Finds None

Trench 9

Natural

Dimensions 100m by 2.0m

200m² Excavated Area SE-NW **Excavated Orientation**

Topsoil - Mid greyish-black-brown silty loam - 0.5 m Soil make-up

B-Horizon – Mid brown sandy silt – 0.2-0.4m

Natural Mid orange mottled sand and gravel

Significant Features None

Other Features Ceramic Drain, N-S, 5m, 22m, 45m

Finds None

Trench 10

Dimensions 100m by 2.0m Excavated Area 200m²

Excavated Orientation SW-NE

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4 m

B-Horizon - Mid brown sandy silt - 0.3m Mid orange mottled sand and gravel

Significant Features Stone lined culvert

Other Features Rubble drains, NW-SE @ 15m, 50m, 70m

Finds None

Trench 11

Natural

Dimensions 100m by 2.0m, 12mx12m Box

Excavated Area 200m², 144m² **Excavated Orientation** SE-NW

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.5 m

B-Horizon - Mid brown sandy silt - 0.2-0.4m

Mid orange mottled sand and gravel Natural

Significant Features Pit Alignment [1115]

Other Features Ceramic Drain, N-S, 11m, Furrow @ 90m

Finds None

Trench 12

Dimensions 100m by 2.0m 200m² Excavated Area

Excavated Orientation

Soil make-up Topsoil – Mid grevish-black-brown silty loam – 0.4 m

> B-Horizon - Mid brown sandy silt - 0.3m Mid orange mottled sand and gravel

Significant Features None

Other Features Rubble drains, NW-SE @ 20m, 30m, 60, 80m

Finds None

Trench 13

Natural

Dimensions 100m by 2.0m Excavated Area 200m² SE-NW **Excavated Orientation**

Topsoil - Mid greyish-black-brown silty loam - 0.5 m Soil make-up

B-Horizon – Mid brown sandy silt – 0.2-0.4m

Natural Mid orange mottled sand and gravel

Significant Features None

Other Features Rubble Drain, N-S, 2m

Finds None

Trench 14

Dimensions 100m by 2.0m

200m² Excavated Area **Excavated Orientation** E-W

Topsoil - Mid greyish-black-brown silty loam - 0.4 m Soil make-up

B-Horizon - Mid brown sandy silt - 0.3-0.4m

Natural Mid orange mottled sand and gravel

Significant Features None

Other Features Rubble drains, NW-SE @ 10m, 20m

Finds None Finds None

Trench 15

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation** SE-NW

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.5 m

> B-Horizon - Mid brown sandy silt - 0.4m Mid orange mottled sand and gravel

Significant Features None Other Features None Finds None

Trench 16

Natural

Natural

Dimensions 100m by 2.0m Excavated Area 200m² SW-NE **Excavated Orientation**

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.3 m

> B-Horizon – Mid brown sandy silt – 0.2m Mid orange mottled sand and gravel

Significant Features

Other Features Rubble drains, NW-SE, 10m, 80m, Ceramic Drain 90m, Furrow

Finds None Finds None

Trench 17

Dimensions 100m by 2.0m 200m² Excavated Area **Excavated Orientation** E-W

Topsoil - Mid greyish-black-brown silty loam - 0.4 m Soil make-up

B-Horizon - Mid brown sandy silt - 0.2m

Natural Mid orange mottled sand and gravel

Significant Features None Other Features None Finds None

Trench 18

Natural

Dimensions 100m by 2.0m

200m² Excavated Area **Excavated Orientation** SW-NE

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4m

> B-Horizon - Mid brown sandy silt - 0.2m Mid orange mottled sand and gravel

Significant Features None

Other Features Rubble drains, NW-SE, 10m

Finds None Finds None

Trench 19

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation NE-SW**

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4 m

Natural Mid orange mottled sand and gravel

Significant Features None Other Features None Finds None

Trench 20

Dimensions 100m by 2.0m Excavated Area 200m² SW-NE **Excavated Orientation**

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.39m

Mid orange mottled sand and gravel Natural

Significant Features Stone lined culvert

Other Features Rubble drains, NW-SE, 10m

Finds None Finds None

Trench 21

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation NE-SW**

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.35 m

Natural Mid orange mottled sand and gravel

Significant Features None Other Features None Finds None

Trench 22

Natural

Dimensions 80m by 2.0m Excavated Area 160m² SW-NE **Excavated Orientation**

Topsoil - Mid greyish-black-brown silty loam - 0.38m Soil make-up

> B-horizon - Mid brown sandy silt 0.35m Mid orange mottled sand and gravel

Significant Features None

Other Features Rubble drains, NW-SE, 10m

Finds None Finds None

Trench 23

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation** SE-NW

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.38m

B-horizon - Mid brown sandy silt 0.4m

Natural Mid orange mottled sand and gravel

Significant Features None Other Features Ceramic Drain, N-S @ 25m, 50m, 63m, 75m

Finds None

Trench 24

Dimensions 100m by 2.0m, 10x10m Box

Excavated Area 200m², 100m² **Excavated Orientation** SE-NW

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.35m

Natural Mid orange mottled sand and gravel

Significant Features Pit [2404]

Other Features Ceramic Drain, N-S @ 15m, 24m, 33m, 60m, 75m, 87m

Finds None

Trench 25

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation** SE-NW

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.5m

Natural Mid orange mottled sand and gravel

Significant Features

Other Features Rubble Drain, N-S @ 10m, 13m, Asbestos water pipe @ 70m

Finds None

Trench 26

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation** SE-NW

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.38m

B-horizon - Mid brown sandy silt 0.4m

Natural Mid grey clayey sand onto mid orange sandy gravel

Significant Features

Other Features Ceramic Drain, N-S @ 25m, 50m, 63m, 75m

Finds None

Trench 27

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation** SSE-NNW

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.5m

B-horizon, from 10m - Mid brown sandy silt 0.2m

Natural Mid grey clayey sand onto mid orange sandy gravel

Significant Features None Other Features None Finds None

Trench 28

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation** SE-NW

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4m

Natural Mid orange sand

Significant Features None

Other Features Rubble Drain @ 11m

Finds None

Trench 29

Dimensions 80m by 2.0m Excavated Area 160m² NE-SW **Excavated Orientation**

Soil make-up Topsoil – Mid greyish-black-brown silty loam – 0.4m

B-horizon - Mid brown sandy silt 0.36m

Natural Mid orange sand

Significant Features None

Other Features Rubble Drain @ 26m, 35m, 43m Finds None

Trench 30

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation** NF-SW

Topsoil - Mid greyish-black-brown silty loam - 0.4m Soil make-up

B-horizon - Mid brown sandy silt 0.2m

Natural Mid orange sand

Significant Features None

Other Features Rubble Drain @ 26m, 35m, 43m

Finds None

Trench 31

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation NE-SW**

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4m

Mid orange sand Natural

Significant Features None Other Features None Finds None

Trench 32

Dimensions 100m by 2.0m 200m² Excavated Area NE-SW **Excavated Orientation**

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4m

Subsoil - Mid brownish grey silty clay - 0.2-0.3m

Natural Mid orange sand

Significant Features

Other Features Ceramic Drain @ 19m, 30m, 37m, 61m, 72m, 76m, 83m, 94m

Finds None

Trench 32

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation NE-SW**

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4m

Subsoil - Mid brownish grey silty clay - 0.2-0.3m

Natural Mid orange sand

Significant Features None

Other Features Ceramic Drain @ 19m, 30m, 37m, 61m, 72m, 76m, 83m, 94m, Asbestos

pipe 51m

Finds None

Trench 33

Dimensions 50m by 2.0m 100m² Excavated Area SE-NW **Excavated Orientation**

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4m

Natural Mid orange sand Significant Features Stone lined culvert

Other Features None Finds None

Trench 34

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation** SW-NE

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4m

Natural Mid orange sand

Significant Features None Other Features Ceramic Drain @ 15m, 38m, 51m, 57m, 62m, 72m, 77m, 82m, Asbestos

Pipe @ 33m

Finds None

Trench 35

Dimensions 100m by 2.0m Excavated Area 200m² E-W **Excavated Orientation**

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4m

Subsoil - Mid brown sandy silt - 0.6m

Natural Mid orange sand

Significant Features None

Other Features Rubble drain @ 23m, 40m, 70m

Finds None

Trench 36

Dimensions 100m by 2.0m Excavated Area 200m² **Excavated Orientation** SW-NE

Topsoil - Mid greyish-black-brown silty loam - 0.4m Soil make-up

Subsoil - Mid brown sandy silt - 0.6m

Natural Mid orange sand

Significant Features None

Other Features Rubble drain @ 13m, 28m, 33m, 45m, 56m, 62m, 67m, Asbestos pipe @

18m

Finds None

Trench 37

Dimensions 100m by 2.0m 200m² Excavated Area **Excavated Orientation** SE-NW

Soil make-up Topsoil – Mid greyish-black-brown silty loam – 0.4m

Natural Mid orange sand

Significant Features None

Other Features Modern pits with colliery waste @60m

Finds None

Trench 38

Dimensions 80m by 2.0m 160m² Excavated Area **Excavated Orientation** SE-NW

Soil make-up Topsoil - Mid greyish-black-brown silty loam - 0.4m

Natural Mid orange sand

Significant Features None Other Features None Finds None

APPENDIX 2: Context Descriptions

Context	Description
001	Mid-dark blackish-brown sandy loam
001	Topsoil
002	Mid brown sandy silt
002	Subsoil/B-horizon
	Mid yellow-orange mottled sand and mid orange grey
003	gravel
	Natural
004	Mid greyish brown clayey sand frequent stone inclusions Natural
	Oval cut with moderately sloping sides onto a rounded
1104	base, 1.4m x 1.0m x 0.5m
	Possible Prehistoric Pit, part of alignment [1115]
	Mid brownish-grey sandy silt, occasional small sub-
1105	rounded stone inclusions and infrequent large sub-
	rounded stones. Slag fragment. 0.3m in depth
	Upper Fill of Pit [1105]
44000	Dark brownish-grey sandy silt, occasional small rounded
11006	stones. 0.22m in depth.
	Basal Fill of Pit [1105]
4407	Oval cut, moderately sloping side at west, uneven side at
1107	east, onto a rounded base. 1.6m x 1.0m x 0.26m
	Possible Prehistoric Pit, part of alignment [1115]
4400	Mid brownish-grey sandy silt, occasional small rounded
1108	stones and very infrequent sub-rounded stones.
	Fill of Pit [1107]
1109	Oval cut, 1.2m x 0.8m (at L.O.E) Possible Prehistoric Pit, part of alignment [1115]
	Mid brownish grey sandy silty.
1110	Fill of Pit [1109]
	Oval cut, 1.6m x 1.5m
1111	Possible Prehistoric Pit, part of alignment [1115]
	Mid brownish grey sandy silt.
1112	Fill of Pit [1111]
	NW-SE Linear, shallow, gradual sloping sides
1113	Probable Furrow
4444	Mid brown sandy silt
1114	Fill of Furrow [1113]
	Pit alignment running NW-SE consisting of four oval pits
	on various alignments, [1104], [1107], [1109] and [1111].
1115	A possible fifth was observed at the NW of section,
	however too obscured to be certain.
	Possible Prehistoric Pit Alignment
	NW-SE Linear, shallow, gradual sloping sides, 4.0m x
1504	2.5m x 0.2m
	Probable Furrow
1505	Mid brown sandy silt
	Fill of Furrow
0404	Circular in plan, moderately sloping sides onto a flat base.
2404	0.7m x 0.6m x 0.1m
	Cut of pit
2405	Mid brownish grey sandy silt Fill of pit [2404]
	Fill OI pit [2404]

APPENDIX 3: Photographic Record

Camera 1

Frame	Description	From
1	Registration	-
2-4	View of site entrance	Various
5-11	Pre-excavation view of site	Various
12	Post-excavation view of Trench 1	NW
13	View of cleared area for compound	S
14	Post-excavation view of Trench 3	SE
15	Post-excavation view of Trench 5	SE
16	Post-excavation view of Trench 7	SE
17	Post-excavation view of Trench 9	SE
18	Post-excavation view of Trench 2	NE
19	Post-excavation view of Trench 4	NE
20	Post-excavation view of Trench 11	SE
21	Post-excavation view of Trench 13	SE
22	Post-excavation view of Trench 15	SE
23	Post-excavation view of Trench 17	W
24	Post-excavation view of Trench 19	SW
25	View of stone culvert in Trench 21	SW
26	Post-excavation view of Trench 21	SW
27	Post-excavation view of Trench 20	SW
28	Post-excavation view of Trench 22	SW
29	View of culvert covered by terram	-
30	Post-excavation view of Trench 23 – first 30m	NW
31	View of Borehole Trench 23	SE
32	Post-excavation view of Trench 23 – remainder	NW
33	Post-excavation view of Trench 24	NW
34	Post-excavation view of 10m x 10m box Trench 24	N
35-38	View of Asbestos pipe Trench 25	S
39	Post-excavation view of Trench 25	SE
40	Post-excavation view of Trench 26	SE
41	Post-excavation view of Trench 27	S
42	Post-excavation view of Trench 28	SW
43	Post-excavation view of Trench 29	W
44	Post-excavation view of Trench 30	W
45	Post-excavation view of Trench 31	W
46	Post-excavation view of Trench 33	SE
47	Post-excavation view of Trench 35	W
48	View of modern pits in Trench 37	SE
49	Post-excavation view of Trench 37	SE

50	Post-excavation view of Trench 38	S
51-52	Post-excavation view of Trench 36	NE
53-58	Views of Pit Alignment [1115]	Various
59-60	Terram over Pit alignment	Various
61-70	Post-condition shots of site	Various

Camera 2

Frame	e Description	
1	Post-excavation view of Trench 6	W
2-3	Post-excavation view of Stone Culvert Trench 2	E
4-5	Post-excavation view of Stone Culvert Trench 4	E
6-7	Post-excavation view of Stone Culvert Trench 6	E
8	Post-excavation view of Trench 10	E
9	Post-excavation view of Trench 8	E
10	Post-excavation view of Trench 12	E
11	Post-excavation view of Trench 14	E
12	Post-excavation view of Trench 16	SW
13	Post-excavation view of Trench 18	SW
14-16	North-facing section of Pit [1104]	N
17-18	Southeast-facing section of Furrow [1113]	SE
19-20	Southwest-facing section of furrow	SW
21	E-facing section of pit [2404]	E
22-23	Plan view of Pit [2404]	W
24	Post-excavation view of Trench 32	SW
25	Post-excavation view of Trench 34	SW
26	Plan view of Pit [1109]	E
27	Plan view of Pit [1107]	E
28	Plan view of Pit [1111]	S
29-31	Pit Alignment [1115]	E
32-34	Pit Alignment [1115]	W
35-37	N-facing section of Pit [1107]	S

APPENDIX 4: Sample Register

Sheet No.	Drawing No.	Description	Scale
110.		N. faring and the of Dit (4404)	
1	1.1	N-facing section of Pit [1104]	1:10
1	1.2	SE-facing section of Pit [2404]	1:10
1	1.3	N-facing section of Pit [1107]	1:10
1	1.4	Plan of Pit Alignment [1115]	1:50
1	1.5	Plan of Pit [2404]	1:20
2	2.1	Plan of Furrow [1113]	1:20
2	2.2	Plan of Furrow [1504]	1:50
2	2.3	SE-facing section of Furrow [1113]	1:10
2	2.4	SW-facing section of Furrow [1504]	1:10

APPENDIX 5: Finds Register

No.	Context	Description	Material
1	1105	Coin	Copper

APPENDIX 6: Sample Register

Context	Litres(I)
1105	20
1108	20
2405	10

APPENDIX 7: 'Discovery and Excavation in Scotland' Report

LOCAL AUTHORITY:	East Lothian Council
PROJECT TITLE/SITE NAME	Phase 1 Newcraighall, Musselburgh, East Lothian
PROJECT CODE:	AOC 24621
PARISH:	Inveresk
NAME OF CONTRIBUTOR:	Steven Watt
NAME OF ORGANISATION:	AOC Archaeology Group
TYPE(S) OF PROJECT:	Archaeological Evaluation
NMRS NO(S)	None
SITE/MONUMENT TYPE(S):	Prehistoric
SIGNIFICANT FINDS:	Possible Prehistoric Pit Alignment
NGR (2 letters, 6 figures)	NT 33493 671132
START DATE (this season)	14 th January 2019
END DATE (this season)	18 th January 2019
PREVIOUS WORK (incl. DES ref.)	None
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	This report presents the results of an archaeological evaluation undertaken in respect of a proposed Phase 1 development at Newcraighall, Musselburgh, East Lothian. The evaluation required an 8% sample of the 12ha site. This was restricted by the presence of services, mineshafts and boreholes. In total 3,882 linear meters were excavated. Throughout the evaluation a stone lined culvert was uncovered, possibly connected to 19th C mining or as drainage to the culverted burn. A single isolated pit was also uncovered to the northwest of the site. In the eastern portion of site four pits forming a short alignment were also uncovered. This possibly represents a prehistoric pit alignment. Several such alignments are known in the locale. Further works may be required to fully determine the form and nature of the pits.
PROPOSED FUTURE WORK:	To be confirmed.
CAPTION(S) FOR ILLUSTRS:	
SPONSOR OR FUNDING BODY:	Persimmon Homes East Scotland Ltd
ADDRESS OF MAIN CONTRIBUTOR:	Edgefield Road Industrial Estate, Loanhead, Midlothian, EH20 9SY
EMAIL ADDRESS:	Steven.Watt@aocarchaeology.com
ARCHIVE LOCATION (intended/deposited)	Archive to be deposited in NMRS

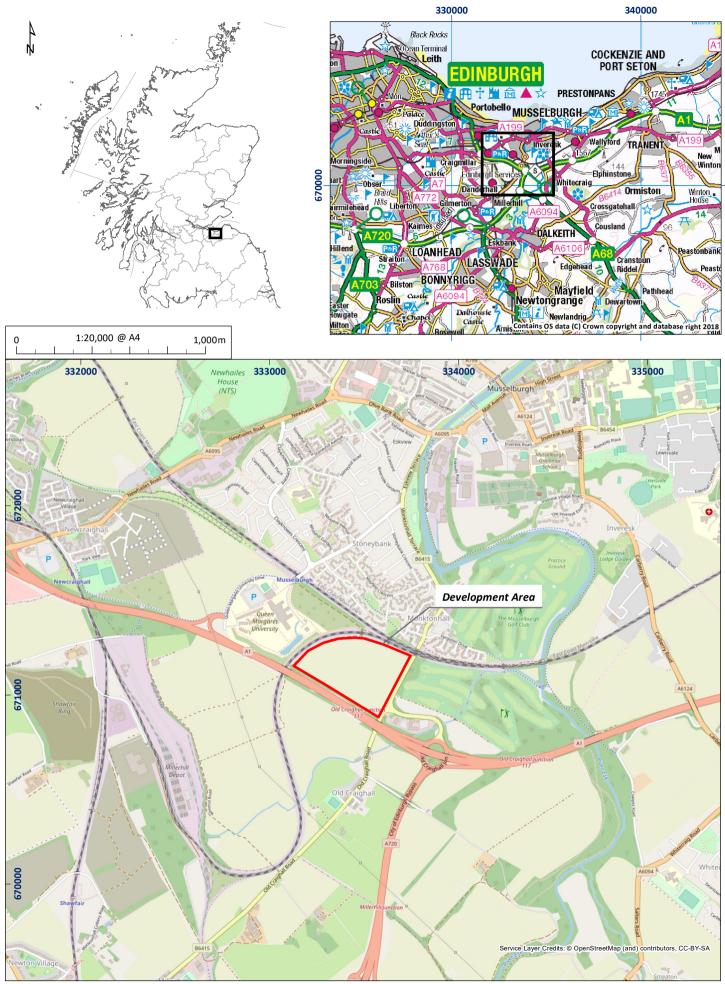


Figure 1: Site location plan

01/24621/DSR/01/01

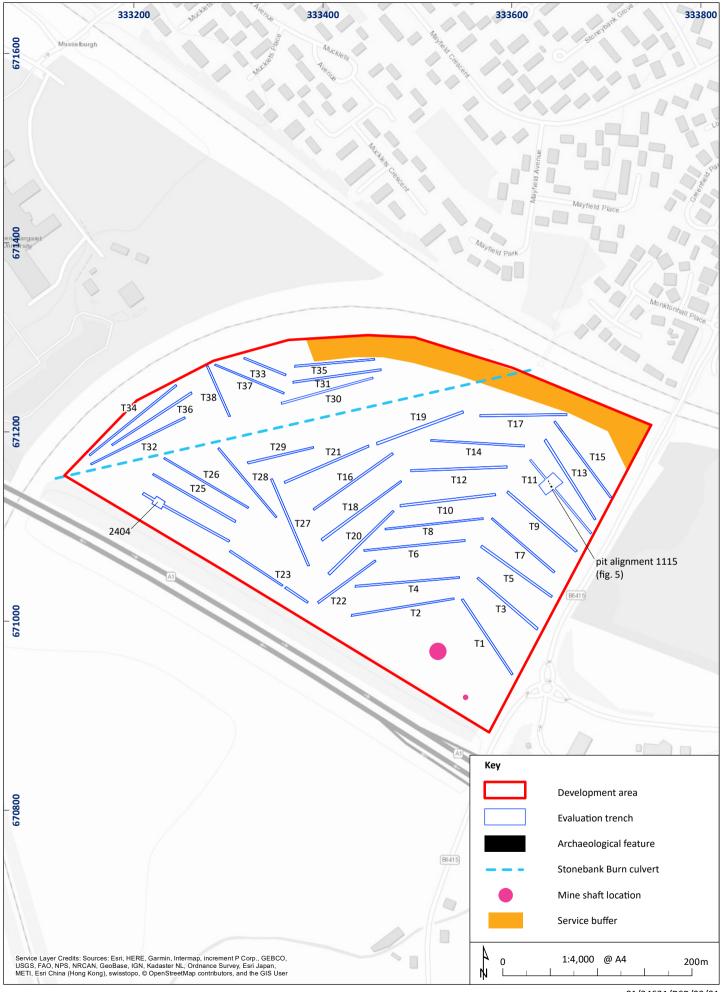


Figure 2: Trench location plan

01/24621/DSR/02/01

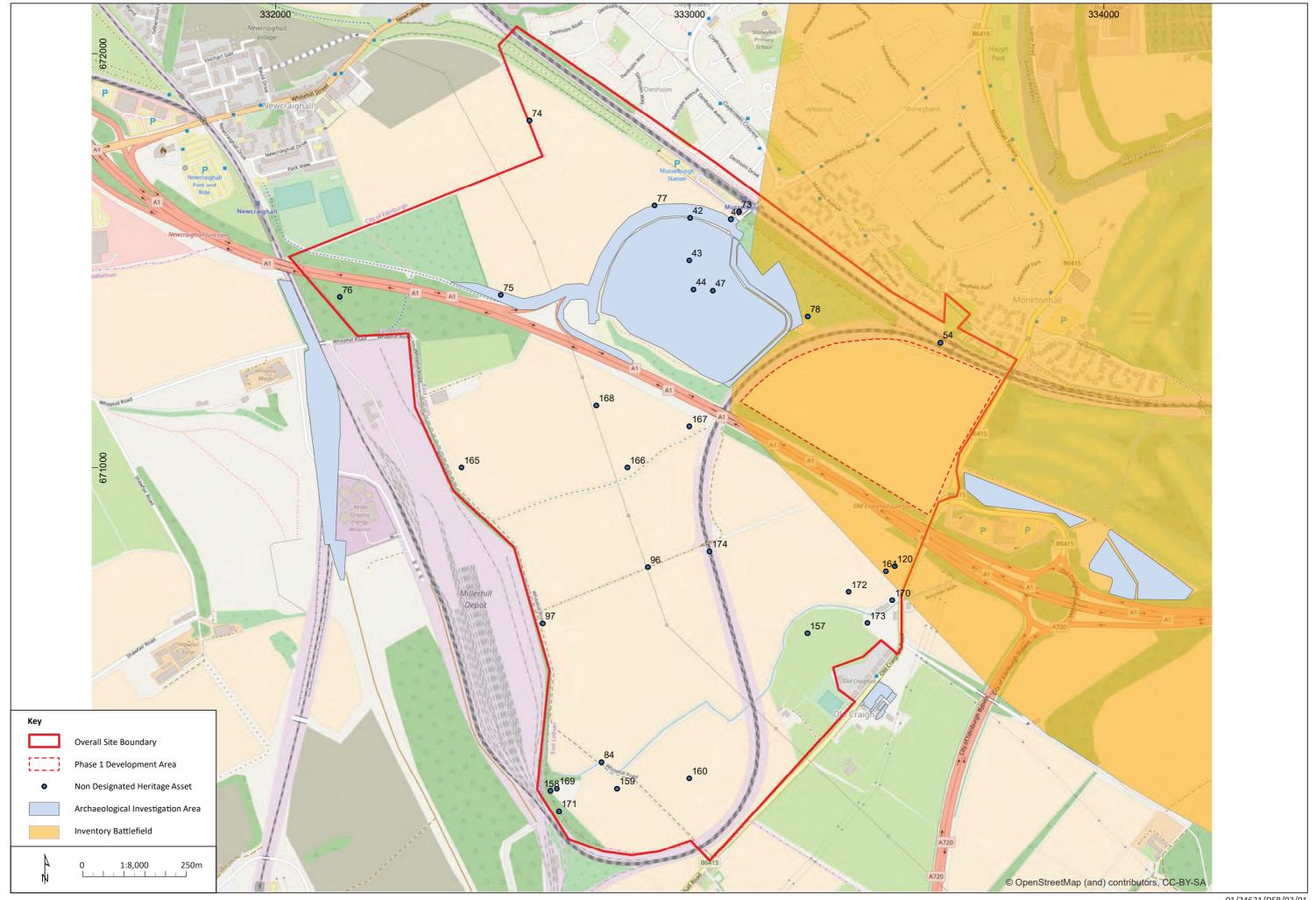


Figure 3: Heritage Assets around site area

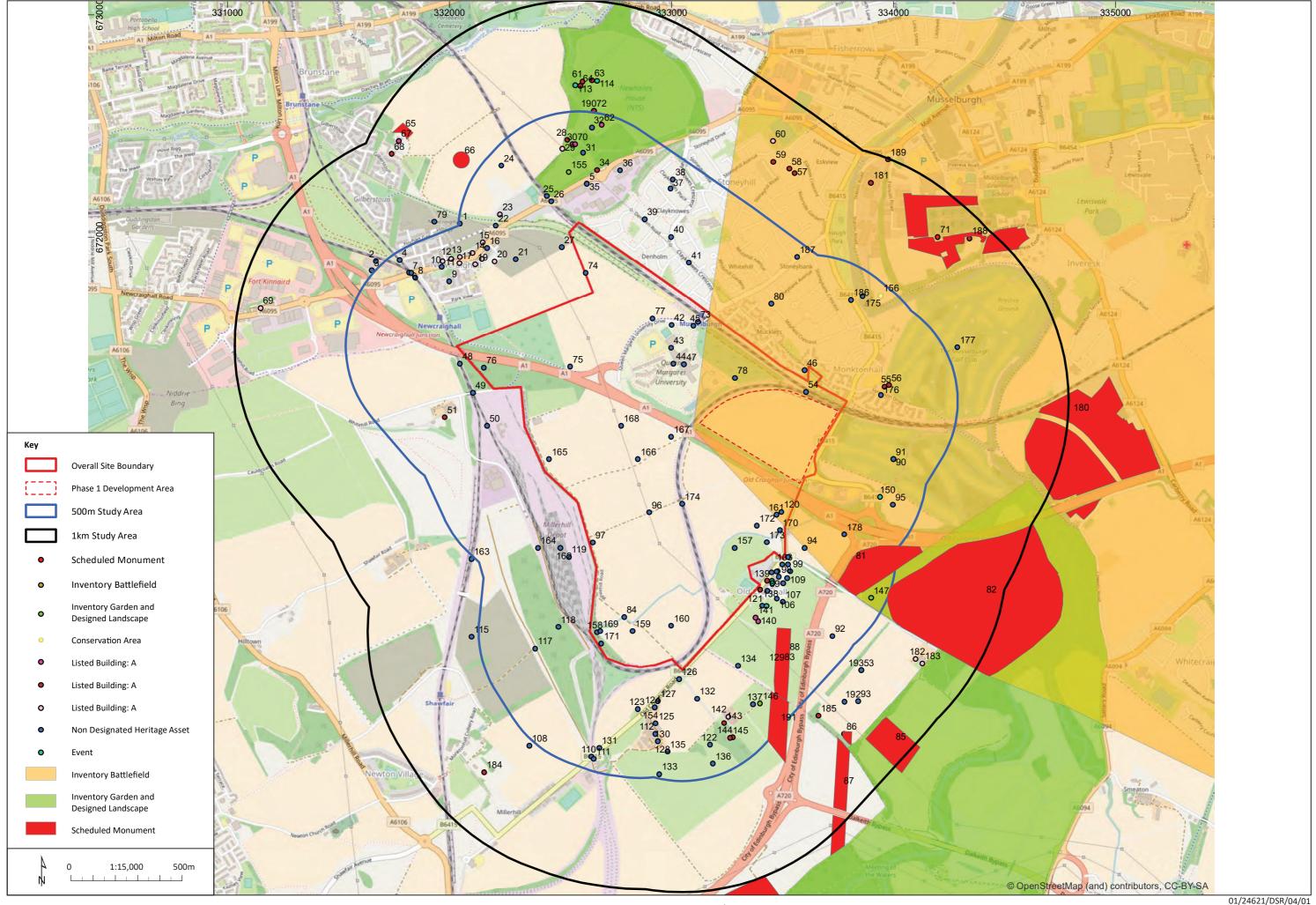


Figure 4: Heritage Assets around site area

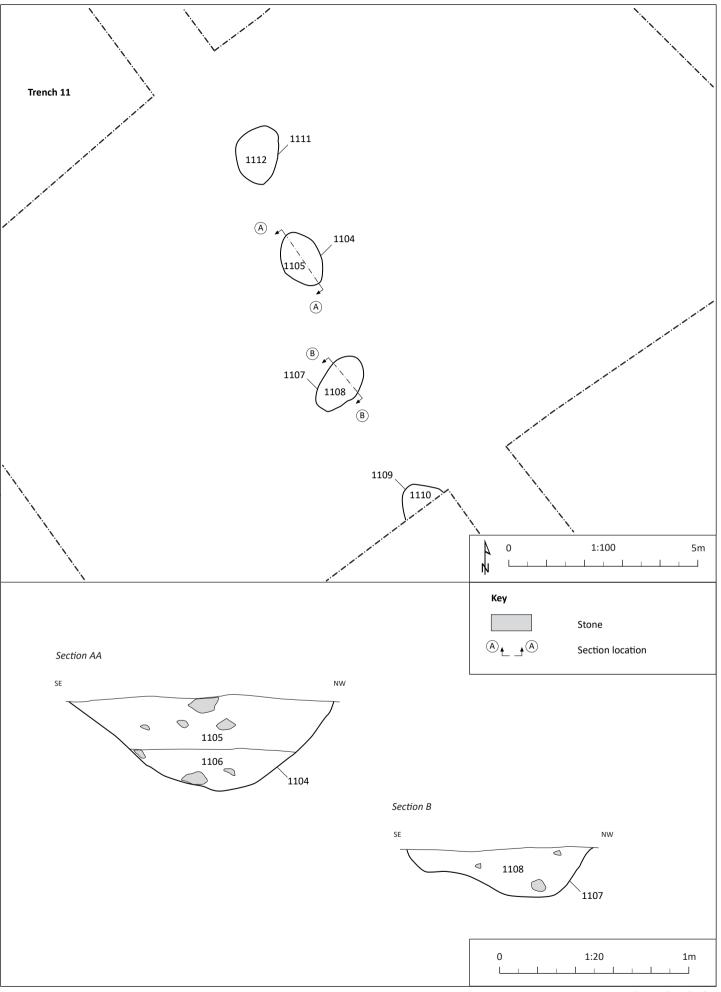
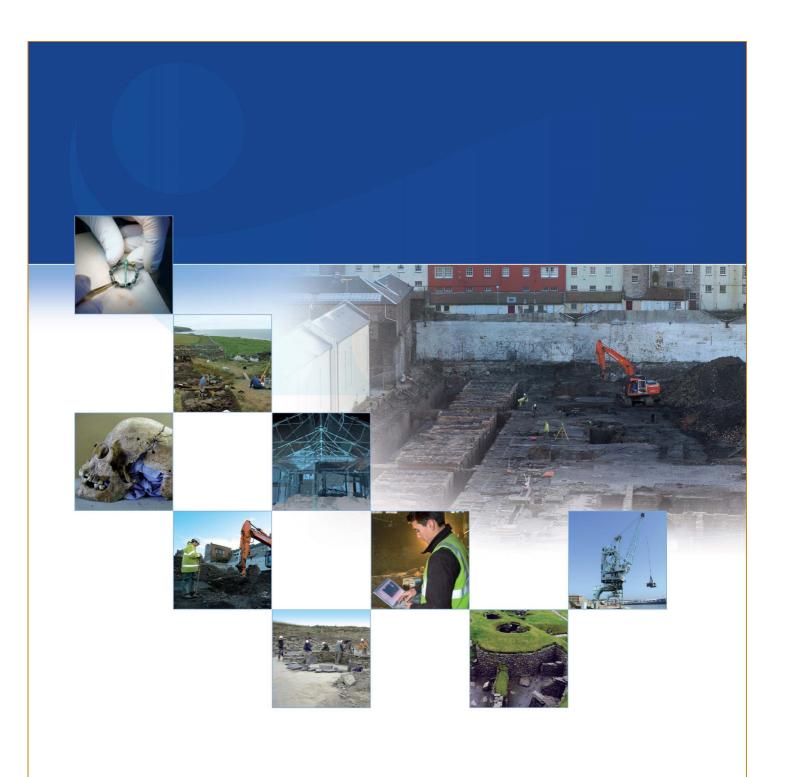


Figure 5: Pit Alignment [1115], plan and sections

01/24621/DSR/05/01





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