

Archaeological Evaluation of land at Summerfield Nurseries, Barnsole Road, Staple, Kent CT3 1LD

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SWAT ARCHAEOLOGY

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1 INTRODUCTION AND SUMMARY

1.1 **Project Background**

1.1.1 Swale and Thames Survey Company (SWAT Archaeology) were commissioned by the client to carry out an archaeological evaluation of land at Summerfield Nurseries, Barnsole Road, Staple, Kent CT3 1LD. Works were monitored by senior archaeological officer at Kent County Council. The monitoring was carried out remotely by means of exchange of emails and photographs. Fieldwork commenced on 28th June and was completed by 2nd July 2021.

1.2 Planning Background

- 1.2.1 A planning application was granted by Dover District Council on the 30th October 2020 (Application 19/01362) for the erection of 11no. detached dwellings, 6no. affordable houses, garages, cycle bin/stores, vehicular access and associated parking. A Condition of archaeological works was attached to Planning Decision Notice and it was: (12) No development shall take place until the applicant, or their agents or successors in title, has secured the implementation of a programme of archaeological work in accordance with a written specification and timetable which has been submitted to and approved by the Local Planning Authority.
- 1.2.2 Reason: To ensure that features of archaeological interest are properly examined and recorded. These details are required prior to the commencement of the development as they form an intrinsic part of the proposal, the approval of which cannot be disaggregated from the carrying out of the rest of the development.
- 1.2.3 On the basis of the present archaeological information KCCHC advising Dover District Council recommended that the proposed development should be subject to a programme of archaeological works in order to clarify the archaeological elements within the site:
- 1.2.4 The evaluation works were undertaken in accordance with a written specification that was agreed in advance with the KCC Evaluation Manual Part B.

1.3 Site description, Geology and Topography

1.3.1 The application site is located is located within a triangular parcel of land that is contained by three Roads, Mill Lane, Mill Road and Summerfield on the eastern

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side of the hamlet of Staple which is to the south of Canterbury. The application site is totally within the boundaries of the former Summerfield Nursery.

- 1.3.2 The site is located on relatively flat plain gently descending to the north and eastwards. Slope changes 5 metres over a distance of 150 metres.
- 1.3.3 The Geological Survey of Great Britain (1:50,000) shows that the site is set on bedrock geology of Margate Chalk Member- Chalk. Superficial Deposits are recorded as Head- Clay & Silt. The NGR to centre of site is NGR 627776 156262 and the OD height is about 23m aOD.

2 ARCHAEOLOGICAL AND HISTORICAL BACKGROUND

- 2.1 The Proposed Development Area (PDA) is located close to a number of archaeological sites which have been highlighted below. The research area consisted of radius buffer of 500 metres from the site and comprises Historic Environmental Records showing Listed Building dated from High Medieval with majority being of Post Medieval period. Additionally records showing prehistoric assets have been researched within 1 km radius. These shows two records of Iron Age Period and three undated crop marks of which one is not recorded in HER.
- 2.1.1 Immediately to the east of PDA area, it is recorded a Post Medieval farmstead (MKE 86726) that is west of Chalk Farm (MKE 86728) that is Early Post Medieval farmstead comprising Post Medieval brewery and maltings(TR 25 NE 55).
- 2.1.2 On the opposite site of the road to Chalk Farm and 30metres to the north west from PDA area records shows Grade II Listed building The Black Pig Inn (TR 25 NE 207) that was constructed during Late Medieval and Post Medieval periods
- 2.1.3 Further north alongside Barnsole Road and within distance of 100 metres from the site records shows: High Medieval GANDER COURT FARMHOUSE(TR 25 NE 130), site Yard North of the Black Pig Inn (MKE86729) of Early Post Medieval Farmstead, Early Post Medieval Bamswell Cottage (TR 25 NE 114) and site of Late Post Medieval Farmstead north of Barnswell Cottage (MKE86730)
- 2.1.4 Alongside the Barnsole Road off to the South within distance of 100 metres records shows: Post Medieval Summerfield House (TR 25 NE 102), Early Post Medieval Cottage (TR 25 NE 119), Post Medieval well and gear (TR 25 NE 117) and Early Post Medieval Summer Field Farmstead
- 2.1.5 80 m to the west is the site of Barnsole Mill (TR 25 NE 295) which is Late Post Medieval wind mill
- 2.1.6 70m to the east from PDA area the site of a Limekiln (TR 25 NE 56) is located. It comprise post medieval chalk pit and limekiln
- 2.1.7 700metres to the west record shows metal detecting find (TR 25 NE 4) of Iron Age golden coin
- 2.1.8 950 metres off to the east Belgic ditches (TR 25 NE 41) were recorded
- 2.1.9 740 metres to the south cropmarks have been recorded (TR 25 NE 39).
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- 2.1.10 690 metres to the north and slightly westwards record of cropmark of possibly mound (TR 25 NE 238) is located.
- 2.1.11 1 km to the south west at NGR 627043, 155448 cropmarks were noted by the author. It comprises large circular feature surrounded by ring ditch and large linear feature running across the field. These are best visible on 1990 photographs.



Plate A: Aerial photo from 1990 showing cropmarks

2.1.12 All described above records are irrelevant in context of archaeological remains discovered on site during evaluation phase as they represent completely different periods.

2.2 Historic Maps

- 2.2.1 1st Edition OS map (1890) shows orchard and open field within PDA area
- 2.2.2 OS map (1900) shows orchard and open field that are the same as shown on the first map, with addition of the building. The building would be located within area occupied by Evaluation Trench 8. The Layout doesn't change until development of nursery in (1960-1990) when the area was densely covered with greenhouses.

3 METHODOLOGY

3.1 Introduction

3.1.1 All fieldwork was conducted in accordance with the methodology set out in the Specification (SWAT 2021) and carried out in compliance with the standards outlined in the Chartered Institute for Archaeologists' Standards Guidance for Archaeological Evaluations (ClfA 2014).

3.2 Fieldwork

- 3.2.1 A total of 13 evaluation trenches were excavated within the extents of the site.
- 3.2.2 Each trench was initially scanned by metal detector for surface finds prior to excavation. Excavation was carried out using a 360° mechanical excavator fitted with a toothless ditching bucket, removing the overburden to the top of the first recognisable archaeological horizon, under the constant supervision of an experienced archaeologist.

- 3.2.3 Where appropriate, trenches, or specific areas of trenches, were subsequently handcleaned to reveal features in plan and carefully selected cross-sections through the features were excavated to enable sufficient information about form, development date and stratigraphic relationships to be recorded without prejudice to more extensive investigations, should these prove to be necessary.
- 3.2.4 All archaeological work was carried out in accordance with LPA and ClfA standards and guidance. A complete photographic record was maintained on site that included 12 working shots; during mechanical excavation, following archaeological investigations and during back filling.
- 3.2.5 On completion, the trenches were made safe and left open in order to provide the opportunity for a curatorial monitoring visit. Backfilling was carried out once all recording, survey and monitoring had been completed.
- 3.2.6 Works were monitored by senior archaeological officer at Kent County Council, Ben Found. The monitoring was carried out remotely by means of exchange of emails and photographs.

3.3 Recording

- 3.3.1 A complete drawn record of the evaluation trenches comprising both plans and sections, drawn to appropriate scales (1:20 for plans, 1:10 for sections) was undertaken. The plans and sections were annotated with coordinates and aOD heights.
- 3.3.2 Photographs were taken as appropriate providing a record of excavated features and deposits, along with images of the overall trench to illustrate their location and context. The record also includes images of the Site overall. The photographic record comprises digital photography. A photographic register of all photographs taken is contained within the project archive.
- 3.3.3 A single context recording system was used to record the deposits. A full list is presented in Appendix 1. Layers and fills are identified in this report thus (100), whilst the cut of the feature is shown as [100]. Context numbers were assigned to all deposits for recording purposes. Each number has been attributed to a specific trench with the primary number(s) relating to specific trenches (*i.e.* Trench 1, 101+, Trench 2, 201+, Trench 3, 301+ etc.).

4 AIMS AND OBJECTIVES

- 4.1 The principle objective of the archaeological evaluation is to establish the presence or absence of any elements of the archaeological resource, both artefacts and ecofacts of archaeological interest across the area of the development.
- 4.2 To ascertain the extent, depth below ground surface, depth of deposit if possible, character, date and quality of any such archaeological remains by limited sample excavation.
- 4.3 To determine the state of preservation and importance of the archaeological resource if present and to assess the past impacts on the site and pay particular attention to the character, height/depth below ground level, condition, date and significance of any archaeological deposits.
- 4.4 The opportunity will also be taken during the course of the evaluation to place and assess any archaeology revealed within the context of other recent archaeological investigations in the immediate area and within the setting of the local landscape and topography. In general the work is to ensure compliance with the archaeological requirements from the Senior Archaeologist at Kent County Council that an archaeological evaluation to take place as a post-planning requirement, and to publish the results either on line, or through OASIS and/or in a local journal.

5 RESULTS

5.1 Introduction and Summary Results

- 5.1.1 Archaeological evaluation of land at Summerfield Nurseries, Barnsole Road, Staple, Kent CT3 1LD has exposed natural geology comprising orange-brown clay-sand-silt with occasional chalk flecking and angular stones.
- 5.1.2 A couple of geological test-pits TP A and TP B were excavated respectively in west end of trench 2 and north end of trench 13. Test pits were excavated throughout potential top colluvium to ascertain appropriate depth for archaeological horizon. Trenches 4, 7, 9 and 11 revealed clay horizon which contrasted with silt horizon in other trenches. To be clear both horizons are very similar in appearance and still comprise admixture of clay or silt to form remaining 40% of the sediment. In case of Trench 1, 2, 13 the clay horizon was exposed at the base of excavated features hence indicating that clay horizon is below archaeological horizon. The clay horizon in trenches 4, 7, 9 was exposed at low depth just

below 0.2metres thick topsoil which was a result of reducing the ground in the past to form levelled rectangular area.

- 5.1.3 Evaluation has exposed archaeological remains in Trenches 1, 2 and 13 comprising Early Neolithic pit truncated by Early Neolithic pit in Trench 1, slightly curvilinear double-ditch of Mid to Late Bronze Age date in Trench 2 and a Late Bronze Age to Early Iron Age subcircular pit in Trench 13.
- 5.1.4 Trench 12 revealed large modern intrusion and Trenches 3, 4, 5, 6, 7, 8, 9, 10 and 11 have exposed drainage pipes associated with former plant nursery infrastructure.

5.2 Trench Narratives

- 5.2.1 Trench 1 (Figure 5, Plates 21 and 22) was placed in southern part of the site in WNW-ESE alignment and measured 22.8 metre in length by 1.8metre in width and 0.55metre in depth. It exposed natural geology context (103) comprising orange-brown clay-sand-silt with infrequent chalk flecks. A Pit [108] cut by pit [104] was exposed at western end of this trench. Both features were extending into north wall of the trench.
- 5.2.2 Pit [108] had half oval shape in plan. Feature had vertical, slightly undercut sides and measured 0.7metre in width and was excavated to the depth of 0.62metre. The undercut sides are result of erosion.
- 5.2.3 Its fill sequence comprised 6 distinctive deposits that formed as a result of sedimentation processes. Contexts (113) and (114) representing material that collapsed of the feature walls after rain. Contexts (109), (110), (112), (113) comprise material washed down the pit derived from erosion of the surface around the pit. Except charred context (109) and (110) all other fills were looking very similar to surrounding natural. The charred contexts were full sampled. All other context were sieved on site.
- 5.2.4 Stratighraphically lowest fill (114) of pit [108] comprised orange-grey clay-sand-silt with infrequent angular stones. It was overlain by Fill (109) comprising orange-grey clay-sand-silt with infrequent charcoal flecks and subsequently was capped by context (113) comprising orange mottled brown clay-sand-silt with infrequent angular stones. That was capped by 0.1m-thick band (context 110) comprising dark-grey clay-sand-silt with moderate charcoal flecks.
- 5.2.5 Next in turn it was context (111) comprising orange clay-sand-silt with infrequent chalk flecks and pottery sherds and was capped on top by context (112) comprising orange clay-sand-silt without noticeable inclusions.

- 5.2.6 Fills (109), (110), (111), (112) and (113) produced 72 contemporary potsherds dated to Early Neolithic Period, 3650/3500 to 3350 BC.
- 5.2.7 Fill (112) was truncated by later shallow sub-oval cut [104] with shallow to moderately sloping sides gradually breaking into slightly concave base. Feature measured 2.6metre in length by 1.2metre in width and 0.4metre in maximum depth. It was filled-up with 3 deposits. Primary fill (105) comprised firm, orange-yellow clay-sand-silt with infrequent chalk flecks measuring 2.6metre in width and 0.4metre in maximum depth. It was overlain by 0.05metre-thick band (context 106) comprising orange-grey clay-sand-silt with moderate charcoal flecks and it was subsequently capped on top by 0.25metre-thick band of orange-grey clay-sand-silt (Fill (107)) with infrequent chalk flecks and angular stones.
- 5.2.8 Fill (106) produced several potsherds dated to Early Neolithic/Later Prehistoric Period (3650 to 3350/1550 to 50 BC).
- 5.2.9 Trench 2 (Figure 6) was placed in southern part of the site in NW-SE alignment and measured 22.12metre in length by 1.8metre in width and 0.42metre in depth. An extension was dug along south-eastern part of this trench and measured 5.80metre in length by 1.8metre in width. Trench has exposed slightly curvilinear double ditch [204] and [206] at its south-eastern end. First mentioned linear [204] had moderately sloping sides gradually breaking into mainly flat base and measured 3.1metre in width by 0.45metre in depth. Its only fill context (205) comprised orange-grey clay-sand-silt with infrequent chalk flecks and angular stones. Several potsherds of Middle to Mid to Late Bronze Age, 1550 to 1150 BC were retrieved from this context. Another probably contemporary feature was revealed immediately to the north-west. Ditch [206] had also moderately sloping sides gradually breaking into slightly concave base and measured 2.4metre in width by 0.38metre in depth and was filled-in by fill (207) comprising orange-grey clay-sand-silt with infrequent angular stones.
- 5.2.10 Fill (205) of Ditch [204] was truncated by modern cut [208] measuring 1.02 metre in width by 0.39metre in depth of which only fill context (209) comprised pale grey clay-sand-silt with infrequent chalk flecks.
- 5.2.11 Trench 3 (Figure 4) was placed in central-western part of the site in E-W alignment and measured 31.3metre in length by 1.8metre in width and 0.43metre in depth. Trench has exposed natural geology context (303) comprising orange-grey clay-sand-silt with

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infrequent angular stones. A modern drain was exposed in this trench, no archaeological cuts or deposits were exposed here.

- 5.2.12 Trench 4 (Figure 4) was placed in central part of the site in E-W alignment and measured 25.9metre in length by 1.8metre in width and 0.53metre in depth. Trench has exposed natural geology context (403) comprising orange-grey clay-sand-silt with infrequent angular stones. A modern drain and plastic water pipe were exposed at western end this trench, no archaeological cuts or deposits were revealed here.
- 5.2.13 Trench 5 (Figure 4) was placed in western part of the site in NE-SW alignment and measured 18.1metre in length by 1.8metre in width and 0.51metre in depth. Trench has exposed natural geology context (503) comprising orange-grey clay-sand-silt with infrequent angular stones. A modern drain was exposed in this trench, no archaeological cuts or deposits were revealed here.
- 5.2.14 Trench 6 (Figure 4) was placed in western part of the site in SE-NW alignment and measured 26.3metre in length by 1.8metre in width and 0.48metre in depth. Trench has exposed natural geology context (603) comprising orange-grey clay-sand-silt with infrequent angular stones. A modern drain was exposed in central part of this trench, no archaeological cuts or deposits were revealed here.
- 5.2.15 Trench 7 (Figure 4) was placed in central part of the site in SE-NW alignment and measured 23.2metre in length by 1.8metre in width and 0.52metre in depth. Trench has exposed natural geology context (703) comprising orange-grey clay-sand-silt with infrequent angular stones. A modern drain and post-hole were exposed at western end this trench, no archaeological cuts or deposits were revealed here.
- 5.2.16 Trench 8 (Figure 4) was placed in north-western part of the site in N-S alignment and measured 27.9metre in length by 1.8metre in width and 0.48metre in depth. Trench has exposed natural geology context (803) comprising orange-grey clay-sand-silt with infrequent angular stones. Two modern drains were exposed in the middle of this trench, no archaeological cuts or deposits were revealed here.
- 5.2.17 Trench 9 (Figure 4) was placed in northern part of the site in E-W alignment and measured 32.55metre in length by 1.8metre in width and 0.54metre in depth. Trench has exposed natural geology context (903) comprising orange-grey clay-sand-silt with infrequent

angular stones. A modern drain was exposed in western part of this trench, no archaeological cuts or deposits were revealed here.

- 5.2.18 Trench 10 (Figure 4) was placed in northern part of the site in E-W alignment and measured 26.7metre in length by 1.8metre in width and 0.48metre in depth. Trench has exposed natural geology context (1003) comprising orange-grey clay-sand-silt with infrequent angular stones. A modern drain and two modern post-holes were exposed in this trench, no archaeological cuts or deposits were revealed here.
- 5.2.19 Trench 11 (Figure 4) was placed in north-eastern part of the site in N-S alignment and measured 26.9metre in length by 1.8metre in width and 0.47metre in depth. Trench has exposed natural geology context (1103) comprising orange-grey clay-sand-silt with infrequent angular stones. A modern drain was exposed in the middle part of this trench, no archaeological cuts or deposits were revealed here.
- 5.2.20 Trench 12 (Figure 4) was placed in central-eastern part of the site in N-S alignment and measured 24.74metre in length by 1.8metre in width and 0.49metre in depth. Trench has exposed natural geology context (1203) comprising orange-grey clay-sand-silt with infrequent angular stones. A modern cut [1204] was exposed in northern part this trench, no earlier archaeological cuts or deposits were revealed here.
- 5.2.21 Trench 13 (Figure 7) was placed in central part of the site in SE-NW alignment and measured 23.77metre in length by 1.8metre in width and 0.56metre in depth. Trench has exposed natural geology context (1303) comprising orange-grey clay-sand-silt with infrequent angular stones. A Pit [1304] continuing beyond west wall of the trench was exposed in the middle part of this trench.
- 5.2.22 Oval Pit [1304] had moderately sloping southern side and gently sloping, stepped northern side gradually breaking into concave base. It measured 2.6metre wide by 0.54metre in depth and was filled by a sequence comprising 4 deposits: (1305, 1306, 1307 and 1308). All fills formed as a result of natural sedimentary processes where material derived from erosion of feature sides and surrounding surface.
- 5.2.23 Primary fill (1305) was firm, pale orange clay-sand-silt with infrequent angular stones and measured 1.6metre in width and 0.28metre in depth. It was capped by Fill (1306) comprising orange-grey clay-sand-silt with infrequent chalk flecks. Context measured 1.23metre in width and 0.33metre in depth. Both contexts were very similar in appearance

and the boundary between them was indicated by line of charcoal flecks. Context (1306) was concealed by 0.05m-thin band (1307) of orange-grey clay-sand-silt with moderate charcoal flecks. Subsequently it was capped on top by broad fill (1308) comprising orange-grey clay-sand-silt with infrequent angular stones and pottery sherds.

5.2.24 Fills (1307) and (1308) have produced several potsherds of Late Bronze Age/Earliest Iron Age to Early Iron Age, 1150/900 to 600 BC date

5.3 Test pits

- 5.3.1 Test pit A was excavated to the depth of 2.4 metres below ground level revealed uniform brown stoneless sediment (203) throughout its profile overlaid with subsoil (202) comprising firm(dry) compaction, mid orangey brown silty loam with occ. chalk flecks and subangular flint. This context had diffused boundary with underlying unit. These were sealed with top soil (201) comprising soft compaction, dark brown silty loam (clayey silt slightly sandy) with occ. flints and modern stones. Natural sediment (203) comprised firm compaction, mid orangey brown silty loam with rare subangular flint. Downwards material gradually becomes yellowish brown, brighter and comprising more clay. The clay content was increasing with depth and was dominant from 1 metre below ground which was below bases of features excavated in trench 2. Frequent flint cobles were revealed at the base of the test pit accompanied by rare chalk. The context was identified to be a HEAD deposit. Small roots were common to the depth of 0.8 metres below topsoil and sparse further down.
- 5.3.2 Test pit B was excavated to the depth of 0.5 metres below the base of trench 13 at its north end and 0.85 metres below top ground level. It revealed clay horizon at depth of 0.6 metres below top ground level which is about 0.2 metres below the top op pit excavated in the trench.

6 CONCLUSIONS

- 6.1 The archaeological evaluation has been successful in fulfilling the primary aims and objectives of the Specification and exposed common stratigraphic sequence comprising top-soil and sub-soil concealing natural geology.
- 6.2 Several archaeological features of Neolithic, Bronze Age and Later Iron Age dates were exposed in southern and south-eastern part of the site. These consist of Early Neolithic pits

exposed in Trench 1, Late Bronze Age to Early Iron Age pit exposed in Trench 13 and Middle Bronze Age to Late Bronze Age slightly curvilinear double Ditch exposed in Trench 2.

- 6.3 Cluster of Neolithic features exposed in Trench 1 is particularly interesting due to its early date (3650/3500 to 3350 BC) and will require full excavation (100% sampling).
- 6.4 Slightly curvilinear double ditch exposed in Trench 2 although of a later date can be associated with potential agrarian enclosure extending eastwards.
- 6.5 This evaluation has, therefore, assessed the archaeological potential of land intended for development. The results of this work show that the proposed development will be having an impact on buried archaeological resource in southern and south-eastern part of the site.

7 FINDS

- 7.1 Finds comprise assemblages of flint work and pottery. A total of 52 worked lithics, all flint weighting a total of 630 g were presented and catalogued (see Appendix 3). A total of 95 sherds of pottery weighing a total of 1165 g were presented and catalogued (see Appendix 2 for full report).
- 7.2 All dates given throughout are circa. Several specific phases of activity are suggested and these are listed below. The estimate of the numbers of vessels may give an indication of the relative different degrees of activity that produced these assemblages, with regards to the amount or length of human presence and whether this site was nearer the centre of the activity or perhaps on the periphery of it. It should be noted however that as this pottery was recovered during an evaluation it may represent an incomplete picture of the activity present at this site.
- 7.3 Ceramic presence Main focus
- 7.3.1 Early Neolithic 3650/3500 to 3350 BC 17/22 vessels
- 7.3.2 Middle to Mid to Late Bronze Age 1550 to 1150 BC 1 vessel
- 7.3.3 Late Bronze Age to Earliest Iron Age/Earliest Iron Age 1150/900 to 600 BC 6/7 vessels
- 7.3.4 In addition, some less diagnostic material was also present:
- 7.3.5 Early Neolithic/Later Prehistoric 3650 to 3350/1550 to 50 BC 2 vessels
- 7.4 Fabrics and sources
- 7.4.1 All of the fabrics were flint tempered and likely of local manufacture. It was notable however that the matrices of the potting clays used for the Early Neolithic and potential Earliest Iron Age wares were effectively (macroscopically) identical, suggesting they might have been obtained from similar or perhaps the same sources. The fabric of the single instance of a Middle to Mid to Late Bronze Age ware was different.
- 7.5 Condition
- 7.5.1 Many of the sherds seem to have suffered some degree of surface loss or general denudation, though none of the intact surfaces or edges were significantly worn and all have a reasonable potential to be contemporary with their contexts. Their state may be a reflection of adverse soil conditions rather than an indication that the pieces had seen periods of surface exposure.

7.6 Early Neolithic, 3650/3500 to 3350 BC

- 7.6.1 All of the material identified as such derived from a single feature pit [108]. The group contained rims from 4 vessels, one showing shallow, worn, incised linear decoration confined to the rim top, another with a shallow linear rippled finish across the top and rim side. The latter was very similar to the ripple burnish on a body sherd also recovered from this feature. Though this rim top decoration does not continue onto the vessel side, which would be more definitive, it is likely that these vessels are Decorated Bowls that would date between 3650 and 3350 BC. The other rims were plain, though one of these had traces of an impressed line potentially of twisted cord just below. Such decoration is more common on Middle Neolithic wares and a date towards the later end of the Early Neolithic is preferred for this group at present because of the presence of this motif.
- 7.7 Middle to Mid to Late Bronze Age, 1550 to 1150 BC
- 7.7.1 This period was represented by a few sherds from the body and base of a single coarseware, which was the sole pottery recovered from ditch [204].
- 7.8 Late Bronze Age to Earliest Iron Age/Earliest Iron Age, 1150/900 to 600 BC
- 7.8.1 All of this material also derived from a single feature pit [1304] and little of it was specifically diagnostic. The rims from 2 vessels were present, the larger element being of near S-profiled type with a bevelled interior. There was also 1 sharp angled body sherd. No material was decorated and the fabrics of several sherds appear little different in character to some within the Early Neolithic group. The presence of the S-profiled vessel suggests a Late Bronze Age to Earliest Iron Age date is likely, whilst the fairly profuse generally finer tempering of this piece, plus the presence of some thin-walled sherds, are traits that are commonly encountered in assemblages of Earliest Iron Age date locally. It should be noted however that the characteristics of Late Bronze Age fabrics from the region are not well known at present, due to the low numbers of well identified assemblages, thus it is possible that the gritting and wall-thickness traits which are the basis for the Earliest Iron Age preference given here could potentially have an earlier origin within the Late Bronze Age.
- 7.9 Early Neolithic/Later Prehistoric 3650 to 3350/1550
- 7.9.1 All of this material also derived from a single feature pit [104] and little of it was specifically diagnostic. The material comprised two small body sherds.

8 ENVIRONMENTAL POTENTIAL

8.1 Introduction Aims and Objectives

8.1.1 Three samples were presented for assessment (see table 1 below). They were taken from charred fills of pits [108] and [1304] dated respectively to Early Neolith and Late Bronze Age periods. The aims of this assessment are to determine the significance and potential of the macro-remains in the samples and consider their use in providing information about diet, craft, crop-husbandry, feature function, environment and their potential to provide radiocarbon dates.

8.2 Sampling and processing methods

- 8.2.1 Samples were processed by QUEST using water-recycling Siraf type flotation system. These were approximately 3L to 5L and were wet-sieved into a 300mm mesh sieve and produced residues and flots. All samples were completely processed.
- 8.2.2 The flots were scanned under a low powered stereo-microscope with a magnification range of 10 to 40x. The whole flots were examined. The abundance, diversity and state of preservation of eco- and artefacts in each flot were recorded. A magnet was passed across each flot to record the presence or absence of magnetised material or hammerscale.
- 8.2.3 At this stage specimen haven't been identified and the numbers given are estimates but where only one item is present that has been noted. Identifiable charcoal >4mm in diameter has been described as that. Samples this size are easier to break to reveal the cross-sections and diagnostic features necessary for identification and are less likely to be blown or unintentionally moved around the site (Asouti 2006, ¶ 31; Smart and Hoffman, 1988, 178-179). Fragments smaller than this and larger than 2mmØ were scanned in case any fragments of twig or roundwood survived. Stem and branch-wood charcoal <4mm diameter are described here as 'flecks'.

8.3 Results

QUEST										Site	Name	: Newi	ngton									
Flot / Resi	due As	sessme	nt							Site	Code	SNS-E	V-21	Que	st Pro	oject	No.:	051/	21			
							Char	red	· · · · ·			Waterl	ogged	Moll	usca	Bone)					
Site code	Sample No.	Context No.	Volume processed (I)	Fraction (e.g. flot, residue, >300µm)	Flot weight (gm)	Description of matrix (%)	Charcoal (>4mm)	Charcoal (2-4mm)	Charcoal (<2mm)	Seeds	Chaff	Wood	Seeds	Whole	Fragments	Large	Small	Fragments	Insects	Magnetic particles	Artefacts	
SNS-EV-21	<3>	(110)	5.5	res		potential flint knapping		1	5									1			1	sherd
SNS-EV-21	<3>	(110)		flot	5g		1	5	5 5				1	1	1							
SNS-EV-21	<2>	(109)	3	res		potential flint knapping		1	4									1			1	
SNS-EV-21	<2>	(109)	1	flot	15g			5	5 5				1	1 1	1							
SNS-EV-21	<1>	(1308)	3	res				1	4					1							1	sherds
SNS-EV-21	<1>	(1308)	1	flot	<1g			1	5	1			1	1	1			1				
Key: 0 = Esti	imated Mi	inimum Nu	mber of	Specim	ens (M	NS) = 0; 1 = 1 to 25; 2 = 26 to 3	50; 3 = 5	1 to 7	5; 4 =	76 to	100; 5	5 = 101-	+									

- 8.3.1 The Plant remains comprise mostly unidentifiable charcoal flecks and single seeds. The Fragments of charcoal of identifiable size were found in sample <3>. One charred seed was found in samples <1>. Single waterlogged seed was found in each sample.
- 8.3.2 The faunal remains comprise: single terrestrial snail found in each sample; single bone fragment from samples <2> and <3> and low numbers of earthworm cocoons found in samples <1> and <3>.
- 8.3.3 The artefacts comprise single tiny unidentifiable pottery fragment recovered from samples <1> and <3> and flint flake recovered from sample <2>.

8.4 Discussion

8.4.1 Biases in Recovery, Residuality, Contamination

The likelihood of stratigraphic movement of small plant remains due to root action and faunal activity has appeared on examination of these samples. The terrestrial snail *Ceciliodes acicula* (Müller) can burrow well below the ground surface (Kerney & Cameron 1979, 149) and earthworms can carry small items such as seeds and small stones up to a metre down into the soil (Canti 2003, 143).

8.4.2 *Quality and type of preservation.*

The plant remains in these samples were preserved by charring. Charring of plant macrofossils occurs when plant material is heated under '…reducing conditions…' where oxygen is largely excluded (Boardman and Jones 1990, 2) leaving a carbon skeleton resistant to biological and chemical decay (Campbell *et al.* 2011,17). These conditions can occur in a charcoal clamp, the centre of a bonfire or pit or in an oven or when a building burns down with the roof excluding the oxygen from the fire (Reynolds, 1979, 57).

No plant remains were preserved by mineralisation (Green 1979, 281) or silicification (Robinson and Straker 1990), which means that there is no archaeobotanical evidence for the cess disposal or slow-burning aerated fires.

8.4.3 Potential and Significance

The density of charred plant remains per litre of sampled soil in these samples is low. This can mean that the plant remains are there as general background waste and may not be associated with the features. The only way to be certain that plant remains like these are of a specific date are is to obtain radiocarbon dates from those items (Pelling *et al.* 2015, 96).

8.4.4 *Recommendations for further work on these samples.*

Further work is not recommended on these samples unless the charcoal is needed for identification to select taxa suitable for radiocarbon dating.

9 ARCHAEOLOGICAL POTENTIAL AND SIGNIFICANCE

- 9.1 Archaeological remains were exposed within south east extent of the site comprising features dated to Early Neolithic, Middle and Late Bronze Age periods.
- 9.2 Early Neolithic remains are very rare and as such of national importance. The recovered remains points to domestic and flint knapping activity and are indicative for a site of small dwelling. The remains comprised cut features only. There is no potential for occupation horizon as this was destroyed by later agricultural activity.
- 9.3 The site has high potential for recovery of locally produced pottery of prehistoric period particularly Neolithic with associated C-14 samples and low potential for paleoenvironmental reconstruction. There is also high potential for recovery of locally produced flinwork.
- 9.4 Remains have high local importance as these are the oldest heritage asset exposed in the area.

10 IMPACT OF DEVELOPMENT PROPOSAL ON ARCHAEOLOGICAL REMAINS

The impact will be significant and would result in loss of any artefacts remaining in the ground. Features are located near top surface of the site at depth of 0.3- 0.5 metres and comprise shallow pits and ditches. These will be truncated by foundation trenches, road trenches, drainage and services

11 ACKNOWLEDGEMENTS

- 11.1 SWAT Archaeology would like to thank to the client for commissioning the project and thanks are extended to Ben Found, Senior Archaeological Officer at Kent County Council for his support and assistance during the fieldwork.
- 11.2 On behalf of the client project was directed by Dr Paul Wilkinson, MCIFA and fieldwork was carried out by Peter Cichy who also prepared text for this report. Site investigations were carried out by Django Rayner and Bartek Cichy who also prepared text and illustrations for this report.

12 ARCHIVE

- 12.1 General
- 12.2 The Site archive, which will include; paper records, photographic records, graphics and digital data, will be prepared following nationally recommended guidelines (SMA 1995; ClfA 2009; Brown 2011; ADS 2013).
- 12.3 All archive elements will be marked with the site/accession code, and a full index will be prepared. The physical archive comprises 1 file/document case of paper records & A4 graphics. The Site Archive will be retained at SWAT Archaeology offices until such time it can be transferred to a Kent Museum.

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APPENDIX 1 – HER FORM

Site Name: Archaeological Evaluation of land at Summerfield Nurseries, Barnsole Road, Staple, Kent CT3 1LD SWAT Site Code: SNS-EV-21

Site Address: As above

Summary: Swale & Thames Survey Company (SWAT Archaeology) was commissioned by The Client to undertake an archaeological evaluation of land at Summerfield Nurseries, Barnsole Road, Staple, Kent CT3 1LD

The archaeological programme was monitored by the Senior Archaeological Officer at Kent County Council. The Archaeological Evaluation consisted of 13 trenches, which recorded a relatively common stratigraphic sequence comprising topsoil and subsoil overlying natural geology.

Trenches 1, 2 and 13 exposed archaeological features of Early Neolithic to Late Bronze Age date.

Further mitigation in form of limited open SMS area is proposed.

District/Unitary: Dover District Council & Kent County Council Period(s): Neolithic, Bronze Age, Earliest Iron Age NGR (centre of site to eight figures) NGR 627776 156262 Type of Archaeological work: Archaeological Evaluation Date of recording: June/July 2021 Unit undertaking recording: Swale and Thames Survey Company (SWAT Archaeology) Geology: chalk bedrock capped by Head Deposits Title and author of accompanying report: SWAT Archaeology (P. Cichy; B. Cichy 2021) Archaeological Evaluation of land at Summerfield Nurseries, Barnsole Road, Staple, Kent CT3 1LD Location of archive/finds: SWAT. Archaeology. Graveney Rd, Faversham, Kent. ME13 8UP Contact at Unit: Paul Wilkinson

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Figures





Figure 1: Site location map, scale 1:10000.



Scale:1: 1250

Figure 2: Trench location in relation to OS map





Figure 3:Trench location in relation to development; scale 1:1000



Figure 4A: Trench location (trenches 1-5 and 13) - Southern area; scale 1:500





Figure 4B: Trench location (trenches 6-12) - Northern area; scale 1:500



Figure 5: Trench 1 plan and sections



Figure 6: Trench 2 plan and sections



Figure 7: Trench 13 plan and sections

Plates



Plate 1: The site, viewing from north.



Plate 2: Evaluation Trench 1. Looking north-west with one- and two-metre scales.



Plate 3: Evaluation Trench 2. Looking north-west with two-metre scale.



Plate 4: Geological test-pit at NW end of Trench 2. Looking north-west with two-metre scale.



Plate 5: Evaluation Trench 3. Looking west with two-metre scale.



Plate 6: Evaluation Trench 4. Looking east with two-metre scale.



Plate 7: Evaluation Trench 5. Looking north-east with two metre scale.





Plate 9: Evaluation Trench 7. Looking north-west with two metre scale.





Plate 11: Evaluation trench 9. Looking east with two-metre scale.



Plate 12: Evaluation Trench 10. Looking west with two metre scale.



Plate 13: Evaluation Trench 11. Looking north-east with two metre scale.



Plate 14: Evaluation Trench 12. Looking north-east with two metre scale.



Plate 15: Geological test-pit at northern end of Trench 12. Looking south-west.



Plate 16: Evaluation Trench 13. Looking south-east with two-metre scale.



Plate 17: Half-sectioned Bronze Age Pit [1304] exposed in Trench 13. Looking west with two metre scale.



Plate 18: Geological test-pit at north-western end of Trench 13. Looking south-east with two-metre scale.



Plate 19: Potential Modern cut exposed in Trench 12. Looking east with two-metre scale.



Plate 20: Double Ditch [204] and [206] exposed in Trench 2. Looking north with two metre scales.



Plate 21: Sub-oval Pit [104] exposed in Trench 1. Looking north-east with one- and two-metre scales.



Plate 22: Pit [108] exposed at western end of Trench 1. Looking north with one and two metre scales.

APPENDIX II

A spot-dating catalogue and summary report on the pottery from an archaeological evaluation at Summerfield Nurseries, Staple, Kent

Site Code: SNS-EV-21

Analyst: Paul Hart Last updated: 20.08.2021

For: The Swale and Thames Archaeology Survey Company

Contents

1. Summary

- 2. Period-based review
- 2.1. Early Neolithic, 3650/3500 to 3350 BC
- 2.2. Early Neolithic/Later Prehistoric, 3650 to 3350/1550 to 50 BC
- 2.3. Middle to Mid to Late Bronze Age, 1550 to 1150 BC
- 2.4. Late Bronze Age to Earliest Iron Age/Earliest Iron Age, 1150/900 to 600 BC
- 3. Comment
- 4. Bibliography

Appendix (PDF version only)

- 5. Quantification and spot-dating of the pottery assemblage
 - 5.1. Methodology
 - 5.2. Period Codes employed
 - 5.3. Abbreviations used in 5.4
 - 5.4. Catalogue: Quantification and spot-dating of the pottery, with notes

1. Summary

A total of 95 sherds of pottery weighing a total of 1165 g were presented and catalogued. All dates given throughout are *circa*. Several specific phases of activity are suggested and these are listed below. The estimate of the numbers of vessels may give an indication of the relative different degrees of activity that produced these assemblages, with regards to the amount or length of human presence and whether this site was nearer the centre of the activity or perhaps on the periphery of it. It should be noted however that as this pottery was recovered during an evaluation it may represent an incomplete picture of the activity present at this site.

Ceramic presence	Main focus	
	-	
Early Neolithic	3650/3500 to 3350 BC	17/22 vessels
		•
Middle to Mid to Late Bronze Age	1550 to 1150 BC	1 vessel
0		
Late Bronze Age to Earliest Iron Age/Earliest Iron Age	1150/900 to 600 BC	6/7 vessels
6 6, 6	,	,

In addition, some less diagnostic material was also present:

Early Neolithic/Later Prehistoric	3650 to 3350/1550 to 50 BC	2 vessels

Fabrics and sources

All of the fabrics were flint tempered and likely of local manufacture. It was notable however that the matrices of the potting clays used for the Early Neolithic and potential Earliest Iron Age wares were effectively (macroscopically) identical, suggesting they might have been obtained from similar or perhaps the same sources. The fabric of the single instance of a Middle to Mid to Late Bronze Age ware was different.

Condition

Many of the sherds seem to have suffered some degree of surface loss or general denudation, though none of the intact surfaces or edges were significantly worn and all have a reasonable potential to be contemporary with their contexts. Their state may be a reflection of adverse soil conditions rather than an indication that the pieces had seen periods of surface exposure.

Early Neolithic, 3650/3500 to 3350 BC

All of the material identified as such derived from a single feature. The group contained rims from 4 vessels, one showing shallow, worn, incised linear decoration confined to the rim top, another with a shallow linear rippled finish across the top and rim side. The latter was very similar to the ripple burnish on a body sherd also recovered from this feature. Though this rim top decoration does not continue onto the vessel side, which would be more definitive, it is likely that these vessels are Decorated Bowls that would date between 3650 and 3350 BC. The other rims were plain, though one of these had traces of an impressed line potentially of twisted cord just below. Such decoration is more common on Middle Neolithic wares and a date towards the later end of the Early Neolithic is preferred for this group at present because of the presence of this motif.

Middle to Mid to Late Bronze Age, 1550 to 1150 BC

This period was represented by a few sherds from the body and base of a single coarseware, which was the sole pottery recovered from its feature.

Late Bronze Age to Earliest Iron Age/Earliest Iron Age, 1150/900 to 600 BC

All of this material also derived from a single feature and little of it was specifically diagnostic. The rims from 2 vessels were present, the larger element being of near S-profiled type with a bevelled interior. There was also 1 sharp angled body sherd. No material was decorated and the fabrics of several sherds appear little different in character to some within the Early Neolithic group. The presence of the S-profiled vessel suggests a Late Bronze Age to Earliest Iron Age date is likely, whilst the fairly profuse generally finer tempering of this piece, plus the presence of some thin-walled sherds, are traits that are commonly encountered in assemblages of Earliest Iron Age date locally. It should be noted however that the characteristics of Late Bronze Age fabrics from the region are not well known at present, due to the low numbers of well identified assemblages, thus it is possible that the gritting and wall-thickness traits which are the basis for the Earliest Iron Age preference given here could potentially have an earlier origin within the Late Bronze Age.

2. Period-based review

The material listed as being contemporary or residual within its context typically has the potential to be so based solely upon its condition, that is -a consideration of the size and also the number of sherds present and particularly whether the material is fresh, slightly abraded or significantly worn. The nature of the contexts and their stratigraphic relationships are unknown and unconsidered at this stage.

Potential relationship	In contexts	Sherds	Vessels
Contemporary	(109), (110), (111), (112), (113).	71	17/22
Residual			
Unclear			
Total		71	17/22

2.1. Early Neolithic, 3650/3500 to 3350 BC

All of this material derived from feature [108]. The assemblage was solely composed of flint tempered fabrics, most showing a moderate scatter of irregularly distributed flint grits of small to large (coarse) size, which often protruded above the surface. The character of this gritting is very typical of some types of Early Neolithic wares seen in assemblages locally, though similar looking material can occasionally occur in a few later periods. The fabrics present typically if not solely exhibit a notably micaceous very fine sandy silty matrix which shows fairly frequent grey-black small spots and streaks, the consistency suggesting a similar or single source for the raw 'clay' used. A similar character was noted amongst the sherds of potential Earliest Iron Age date from this site (see section 2.4.). The material has often been fired to various brownish surface colours with grey-black cores, whilst a few sherds show dull orangey surfaces and a couple feature darkish red thin skins. Some sherds show a soft burnished dark black-brown or grey-black exterior, many having suffered some loss of this thin skin.

Only a few form and decorative elements were present; notable are:

- 7 rim sherds from a vessel with a rim that has a thickened exterior, the rim top appearing worn and showing shallow incised lines mostly at right-angles to the interior, sometimes angled, with a gently curving concave neck below; in (109) and (110).
- 3 small rim sherds from a vessel with a very neatly made externally thickened overhanging rim, who's curving surface shows a shallow/subtle tooled linear rippled effect across the top and side, very similar to the ripple burnish on a body sherd noted below; in (111).
- 2 conjoining sherds from a single thick-walled vessel with a short out-turned rounded rim, the rim top soft burnished; in (113).
- 1 small simple rim, possibly slightly everted, with traces of a single horizontal impressed line potentially of twisted cord just below; in (112).
- 1 small body sherd with a slight carination and neat soft burnished exterior; in (109).
- 1 small body sherd with an angled shoulder/carination, possibly formed by finger pinching and smoothed over; in (111).
- 1 medium sized body sherd with an area/zone of close-set tooled ripple burnish on the exterior, as seen on the very neat rim noted above; in (109).

The linear decorated and ripple burnished wares likely derive from Decorated Bowls, which would date between 3650 and 3350 BC. The twisted cord which may well be present on the rim noted above is more typical of the succeeding Middle Neolithic. As Ebbsfleet Ware may have first developed around 3500 BC, a date between 3500 and 3350 BC is preferred for this group at present, presuming it is broadly related and not accruing in sequence, also given the lack of any highly decorated Middle Neolithic wares in the site assemblage.

2.2. Early Neolithic/Later Prehistoric, 3650 to 3350/1550 to 50 BC

Potential relationship	In contexts	Sherds	Vessels
Contemporary	(106).	2	2
Residual			
Unclear			
Total		2	2

This material comprised 2 small body sherds with soft burnished surfaces. The fabrics are not dissimilar to some of the less coarsely gritted Early Neolithic sherds within [108], but they could easily be Later Prehistoric, being finer wares of Middle to Mid to Late Bronze Age date or broadly Iron Age.

2.3. Middle to Mid to Late Bronze Age, 1550 to 1150 BC

Potential relationship	In contexts	Sherds	Vessels
Contemporary	(205).	9	1
Residual			
Unclear			
Total		9	1

This comprised:

- Base and body sherds likely from a barrel/bucket/tub shaped vessel; in (205).

It was manufactured in a very heavily coarsely gritted fabric, the grits sitting proud on all surfaces, this probably a result of subsequent surface denudation. Notably, the fabric was not as obviously micaceous as was the case with most of the other fabrics in the site assemblage, suggesting that at this time the raw 'clay' was obtained from a different, though presumably still local, source.

2.4. Late Bronze Age to Earliest Iron Age/Earliest Iron Age, 1150/900 to 600 BC

Potential relationship	In contexts	Sherds	Vessels
Contemporary	(1307), (1308).	13	6/7
Residual			
Unclear			
Total		13	6/7

All of this material derived from feature [1304]. It contained few specifically diagnostic pieces, while the matrices of the fabrics and the tempering characteristics of several of the sherds were very similar or identical to material of Early Neolithic date within [108]. No decorated wares were present; the form sherds comprised:

- A medium sized rim (2 conjoining sherds) from a near S-profiled type jar/bowl with an everted bevelled rim, in a fairly profusely fine to medium gritted flint tempered fabric; in (1307).
- 1 body sherd with a sharp angled junction in a fabric with moderate small to occasionally coarser grits; in (1308).
- 1 thick-walled simple upright rim with pulled exterior lip; in (1308).

The form of the S-profiled sherd from (1307) is more likely to be Late Bronze Age to Earliest Iron Age, while the tempering is potentially more characteristic of the latter period. It should be noted however that Late Bronze Age pottery is not well represented and understood locally (Macpherson-Grant 2011), thus the precise tempering and wall thickness traits of the fabrics of this period, which could include forerunners of some that are characteristic of the succeeding period, are unclear at present.

The fabric of the other sherd from (1307), no more worn, was identical to some of the Early Neolithic wares within (109). It was also similar to the sharply angled body sherd from (1308). The latter could technically be late Early Neolithic, as a possible parallel, though decorated, occurs locally at Court Stairs Pegwell (not reviewed at this time). Such forms are not typical of that period however and they occur much more commonly in the Late Bronze Age and Earliest Iron Age (and for a time afterwards). Coarsewares seen in some local assemblages of Earliest Iron Age date can occasionally exhibit fabrics that are somewhat similar to the classic Early Neolithic ware type discussed here. Particularly given the presence of the fairly profusely gritted S-profiled vessel, but also the sharply angled plain body sherd and a few thin-walled body sherds (though noting that some of the Early Neolithic sherds are similarly thin-walled), an Earliest Iron Age date is preferred for this group at present.

3. Comment

As this report concerns material recovered from an evaluation and there is a possibility that further fieldwork might be conducted in the near future, which could lead to the recovery of additional pottery, no formal statement on the relative academic value or recommendations for future analysis or reporting have been given in this stage. Such matters can be concluded if further material is recovered and an assessment report on all of the pottery is written, prior to any final stage of site reporting. Some points are worth considering going forward, however.

With regards to the opportunities to recover additional material that could not only help to tighten the dating of the current assemblage, but potentially provide comparative data that would be particularly useful for the study of pottery in East Kent, the most import aspects of this assemblage are the ceramics and contexts that date to the:

- Early Neolithic.
- Late Bronze Age to Earliest Iron Age/possibly Earliest Iron Age.

The reporting and publication of securely dated assemblages from these periods, especially if transitional, would always be welcome. Ideally, the pottery would be supported by associated radiocarbon dates and any future excavation work could bear this in mind, re the identification and recovery of material suitable for such dating, with this aspect factored-in to the budgeting.

Also, if a further stage of work provides additional material related to [1304], then the current group from this context should be reviewed in light of this, considering in particular if there are any parallels with definitively Late Bronze Age wares. It should also be considered whether it is possible that some Early Neolithic material might be included within this context; ie. is there an Early Neolithic context that is intercutting or nearby, from which material could have been disturbed and redeposited?

4. Bibliography

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Appendix

5. Quantification and spot-dating of the pottery assemblage

5.1. Methodology

The sherds were examined in good light using a hand lens of x10 magnification and were catalogued on a context, total quantity, bulk weight (calculated to the nearest gram), period, ware type, estimate of the number of vessels per ware, condition and date preference basis. They are listed in date order from the earliest to the latest. No information about the contexts or their stratigraphic relationships was known unless stated. In the notes, the pieces are typically plain or less diagnostic body sherds unless stated otherwise.

All dates given are *circa*.

It should also be noted that:

- All form and decorative pieces are noted and described in the catalogue and their presence is highlighted by the inclusion of the word 'DRAW'.
- No material has been separated out by date or re-bagged at this stage, in anticipation of a potential subsequent phase of work and the recovery of further material, which may influence the dating of some of the less diagnostic elements from this evaluation. Before any assessment report on the sum of the finds from this site is written, all of the material from the evaluation can be reconsidered and the overall catalogue updated if needed.

5.2. Period Codes employed

Period	Code		Date	e (ci	irca)	
Early Neolithic	EN	3650		-	3350	BC
Middle Neolithic	MN	3350		-	2700	BC
Later Prehistoric	LP	1550		-	50	BC
Middle Bronze Age	MBA	1550		-	1350	BC
Mid to Late Bronze Age	MBA-LBA	1350		-	1150	BC
Late Bronze Age	LBA	1150		-	1000/900	BC
Earliest Iron Age	EIA	1000/900		-	600	BC
Iron Age	IA	1000/900	BC	-	50	AD

5.3. Abbreviations used in 5.4

Wear		
L	:	Light
М	:	Moderate

5.4. Catalogue: Quantification and spot-dating of the pottery, with notes

Context				herds	Total weight (g)					
Context:	Information on the na	ture of the context if known.								
Start date:	Start date: Likely commencement date of the context based on the pottery evidence.									
End date:	<i>End date:</i> Likely end date of the context based on the pottery evidence.									
Dating:	Dating: Individual elements, potential groups and related observations.									
Comments:	s: Highlighting elements, wares and issues of note. DRAW: Notes the presence of form or decorated sherds.									
Quantity	Period	Ware	Vessels	Wear	Date preference					
	Notes.									
(106) [104]		2	sherds	20 g					
Context:										
Start date:	Nothing certainly be	fore 3650 BC.								
End date:	Nothing certainly aft	er 50 BC.								
Dating:	Unclear; little specif	ic data. The fabrics are not dissin	milar to s	ome of t	he less coarsely gritted EN					
	sherds in [108], but o	could equally be LP (broadly MBA	A type fine	er wares	or IA) on their own merits.					
	There is however a v	ery slight preference/likelihood	for them	being E	N, given the EN presence in					
	[108] presumably ne	earby. Review in light of context a	associatio	ons and a	any further discoveries.					
Comments:	2 small body sherds w	vith soft burnished surfaces.								
Quantity	Period	Ware	Vessels	Wear	Date preference					
2	EN/LP	Flint tempered	2	L	?3650-3350/50 BC					
((<u> </u>		<u> </u>						
(109) [108			26	sherds	470 g					
Context:										
Start date:	Nothing certainly be	fore 3650 BC and possibly after 3	3500 BC.							
End date:	Nothing certainly aft	er 3350 BC.	· C 1							
Dating:	Many sherds show so	ome surface loss but none are sig	nificantly	worn (1	their state could be a result					
	of the soli condition	s rather than a sign of exposure	J, all are	likely ro	elated, potentially context-					
	bowl 2650 to 2250 I	IN. MOST may derive from a sing	le Decora	ieu/soi	ithern Decorated tradition					
	NR See note in (112)	oc overall.								
Commonts:	Fabrics generally mic	J. Deaous very fine candy silty with fai	rly froque	nt grov-k	lack small spots and streaks					
comments.	Small to large thick a	nd thin-walled sherds mostly hod	lv sherds	typically	with a moderate scatter of					
	irregularly distribute	d flint grits of small to large (co	arse) size	typicall	v protruding often fired to					
	brownish colours with	n grev-black cores. Some sherds sh	ow a soft	burnishe	d dark black-brown or grev-					
	black exterior, many	having suffered some loss of this t	hin skin. 6	mostly	medium sized rims possibly					
	from the same mediu	m-walled vessel, a bowl with a ge	ntle conca	ve neck	and a rim with a thickened					
	exterior, the rim top s	howing shallow incised lines most	ly at right-	angles, s	sometimes angled, appearing					
worn. 1 small body sherd with a slight carination and neat soft burnished exterior. 1 medium size										
	sherd with an area/zone of close-set tooled ripple burnish on the exterior, as seen on a very neat									
	from (111) [108]. 2 thick-walled plain body sherds conjoin to a large panel from another vessel, som									
	exterior surface loss, t	hough the interior appears fairly fr	esh.							
	DRAW.		F							
Quantity	Period	Ware	Vessels	Wear	Date preference					
Comments: Quantity 2 (109) [108 Context: Start date: End date: Dating: Comments:	Nothing certainly be Nothing certainly be Nothing certainly be Nothing certainly be Nothing certainly aff Many sherds show se of the soil condition contemporary and F bowl, 3650 to 3350 I NB. See note in (112) Fabrics generally mica Small to large thick a irregularly distributed brownish colours with black exterior, many I from the same mediu exterior, the rim top s worn. 1 small body sh sherd with an area/ze from (111) [108]. 2 th exterior surface loss, th	fore 3650 BC and possibly after 3 fore 3650 BC and possibly after 3 for 3650 BC and po	Vessels 2 2 3500 BC. 3500 BC.	wares being E ons and a Wear L sherds sherds worn (f likely ro ted/Sou nt grey-b typically typically burnishes o mostly ave neck angles, s nished ex exterior rge pano	N, given the EN presence any further discoveries. Date preference ?3650-3350/50 47 their state could be a reselated, potentially contentially contentially contentially contentially contentiated tradition black small spots and streat vith a moderate scatter y protruding, often fired vd dark black-brown or gr medium sized rims possi and a rim with a thicker sometimes angled, appear sterior. 1 medium sized bo r, as seen on a very neat rel from another vessel, so					

(110) [108] 20 sherds 2									
Context:									
Start date:	date: Nothing certainly before 3650 BC and possibly after 3500 BC.								
End date:	Nothing certainly aft	er 3350 BC.							
Dating:	Some denuded surfaces, surface loss and edge rounding, but some of this may be due to fabric								
	softness and soil c	onditions, none are significan	tly worn,	, all ar	e likely related, context-				
	contemporary and E	N. 1 conjoin with a sherd in (109) noted.						
	NB. See note in (112)		<u> </u>	. (100)					
<i>Comments:</i>	Small to medium size	d sherds, mostly body and in simil	ar fabrics	to (109)	, with 1 rim that conjoins to				
	one in (109) {not in	cluded in vessel estimate. Some	sneras sr	low grit	s protrucing from denuced				
	surfaces and 1 a simil	a loss of a soft but hisfied thin surface	e SKIII. 2 II or chorde	ave pate from [1]	19 ther variously brown to				
	orangev as generally s	een in [108]	ci siicius						
	DRAW.								
Quantity	Period	Ware	Vessels	Wear	Date preference				
20	EN	Flint tempered	?6	L	3650-3350 BC				
		*							
(111) [108]			10	sherds	91 g				
Context:									
Start date:	Nothing certainly be	fore 3650 BC and possibly after 3	3500 BC.						
End date:	Nothing certainly aft	er 3350 BC.							
Dating:	Some edge rounding	/slight wear, though the surfaces	appear fa	irly fres	sh and all are likely related,				
	potentially context-o	contemporary and EN.							
	NB. See note in (112)								
Comments:	Small sherds, mostly b	ody, in micaceous very fine sandy s	ilty fabrics	with fai	rly frequent grey-black small				
	spots and streaks. 3	small rims sherds (2 conjoining) f	rom a sin	gle vess	el, with a very neatly made				
	externally thickened	curving overhanging rim who's cu	arving sur	face sho	ws a shallow/subtle tooled				
	Inear rippied effect a	cross the top and side, very similar	to the rip	pie burn	isn on a body sherd in (109)				
	smoothed over Most	of the body sherds show smoothe	d surfaces	ssibiy iu though	denuded on some with the				
	flints sitting proud	of the body sherds show shloothe	u surfaces	, though	a denuded on some with the				
	DRAW.								
Quantity	Period	Ware	Vessels	Wear	Date preference				
10	EN	Flint tempered	?2/3	L	3650-3350 BC				
(112) [108]			9:	sherds	36 g				
Context:									
Start date:	Nothing certainly be	fore 3650 BC and possibly after 3	3500 BC.						
End date:	Nothing certainly aft	er 3350 BC.							
Dating:	Small and mostly no	t particularly diagnostic element	ts, likely ı	related	to the other EN material in				
	[108], though notabl	y 1 sherd potentially shows twist	ted cord d	lecorati	on, that more typically MN.				
	NB. Consider the rel	ationship of the contexts from [108]. Is (112) fr	om a higher level within a				
	gradually accruing	the leek of one other could extend	Into per	naps th	e earlier part of the MN?				
	chord could indicate	the lack of any other certain MN	cingle new	iod /nh	presence of this decorated				
	the EN range 3500-3	2350 BC	single per	liou/pii	ase, lays at the later end of				
Comments:	Small shords most he	ydy 1 showing some slight incised	/scored li	nes on a	exterior (grit-drag?) 1 more				
commentes.	heavily worn shord showing a partial linear groove on the interior 1 small medium welled simple rim								
	possibly slightly everted, with traces of a single horizontal impressed line notentially of twisted cord just								
	below. The latter is more typical of the Middle Neolithic and as Ebbsfleet Ware may have first developed								
	around 3500 BC a date between 3500 and 3350 BC is preferred for now, given lack of any other certain								
	MN in [108].								
	DRAW.								
Quantity	Period	Ware	Vessels	Wear	Date preference				
2	EN	Flint tempered	2	М	3650-3350 BC				
7	EN	Flint tempered	?2/3	L	3650/3500-3350 BC				

(113) [108]			6	sherds	80 g							
Context:			•									
Start date:	Nothing certainly be	fore 3650 BC and possibly after 3	3500 BC.									
End date:	Nothing certainly aft	er 3350 BC.										
Dating:	Likely EN, given simi	larities in fabric to others in [10	8].									
_	NB. See note in (112)).	-									
Comments:	3 small body sherds,	1 showing some loss of a soft burn	nished ext	erior sui	face skin. 3 other sherds (2							
	conjoining to a largeish panel) from a single thick-walled vessel with a short out-turned rounded rim, the											
	rim top soft burnished	l, the exterior with frequent protru	ding coars	e grits.								
	DRAW. Deriod Ware Vessels Wear Determederance											
Quantity	Period	Ware	Vessels	Wear	Date preference							
6	EN	Flint tempered	2/3	L	3650-3350 BC							
			-		107							
(205)[204]			9	sherds	135 g							
Context:	Marking and the last											
Start date:	Nothing certainly be	fore 1550 BC.										
Ena aate:	Nothing certainly aft	er 1150 BC.		-hl								
Dating:	No diagnostic data b	eyond the very heavy coarse gri	itting, whi	ch coul	a occur in several periods,							
	pottory from this co	toxt norhans this could range	nt a dictu	nn a sin rhod /nl	augh-discupted cromation							
	Speculation only: co	nsider the nature and denth of t	the contex	t and t	he location of the material							
	within.	isider the nature and depth of t		xt and t	ic location of the material							
Comments:	Small to mostly medi	um sized sherds in a notably hea	avily and	coarselv	gritted fabric, which is not							
Commenter	obviously micaceous	as the EN fabrics from [108], thus f	from differ	ent sour	ces. The grits sit very proud							
	on all surfaces, the ext	erior buff, interior orange. 2 base s	herds, res	t body.								
	DRAW.											
Quantity	Period	Ware	Vessels	Wear	Date preference							
9	MBA>MBA-LBA	Flint tempered	1	L	1550-1150 BC							
(1307) [13	04]		3	sherds	31 g							
Context:												
Start date:	Unclear, but potentia	ally after 1150/900 BC.										
End date:	Nothing certainly aft	er 600 BC.										
Dating:	Both elements are in	a similar micaceous fabric but v	with diffe	rent ten	pering. 1 element is likely							
	LBA>EIA, perhaps E	A. The other is less diagnostic a	nd could	potentia	illy relate, but the fabric is							
	also identical to son	ie EN sherds in (109). This seco	nd eleme	nt is no	more worn than the first.							
	could it have been d	isturbed and ireship redeposited	u irom an baca data	EN CON	text nearby? Check for any							
	in the FIA however	Review in light of any additional	futuro fin	s. siinna de	in coarse labries can occur							
Comments	Small to medium size	sherds neither significantly worn	Iuture III	u3.								
commentes.	DRAW	sheres, herener significantly worm										
Ouantity	Period	Ware	Vessels	Wear	Date preference							
1	EN/?EIA	Flint tempered	1	L	1150/900-600 BC							
	, Medium-ish sized med	lium-thinnish walled body sherd w	vith moder	ate fine t	to coarse spaced protruding							
	grits. Identical in color	ur, thickness and character to EN sh	herds in (1	09), alsc	similar to sharply angled							
	sherd in (1308) [1304	·].										
2	LBA>EIA/?EIA	Flint tempered	1	L	1150/900-600 BC							
	Z LBA>EIA/:EIA Finit tempered I L 1150/900-600 BC											
	Conjoin to a medium	sized rim from a near S-profiled ty	vpe jar/bov	wl, with	a flat-topped everted angled							
	Conjoin to a medium neck (giving a deep be	sized rim from a near S-profiled ty velled interior to the rim), fairly sh	vpe jar/bov arp neck ji	wl, with unction a	a flat-topped everted angled and a convex rounded profile							
	Conjoin to a medium neck (giving a deep be below, broken shortly	sized rim from a near S-profiled ty velled interior to the rim), fairly sh v after the return, thinnish-walled,	pe jar/bov arp neck j with fairly	wl, with unction a 7 profuse	a flat-topped everted angled and a convex rounded profile e fine to medium grits, fairly							
	Conjoin to a medium neck (giving a deep be below, broken shortly micaceous.	sized rim from a near S-profiled ty velled interior to the rim), fairly sh v after the return, thinnish-walled,	pe jar/bov arp neck j with fairly	wl, with unction a 7 profuse	a flat-topped everted angled and a convex rounded profile e fine to medium grits, fairly							

(1308) [13	04]		10 :	sherds	97 g							
Context:												
Start date:	Nothing certainly be	fore 1150/900 BC.										
End date:	Nothing certainly after 600 BC.											
Dating:	Little specific data, though there is a preference at present for all to be broadly related, context-											
	contemporary, LBA>	EIA and perhaps EIA.										
Comments:	Small to medium sized medium and thin-walled sherds, none very significantly worn, most only lightly											
	so, some with surface	loss and edge rounding. The fabric	c matrices	are mic	aceous and similar to the EN							
	material in [108], sug	gesting a similar source. The grit	ting of sor	ne sher	ds is also similar to that EN							
	material. 1 sharply an	gled body sherd could perhaps be	of late EN	V/early 1	MN date (a possible parallel,							
	though decorated, occ	urs at Court Stairs Pegwell), though	n such forn	ns are no	ot typical and it is more likely							
	to be later. 1 small sir	nple rim present, too basic to be s	pecifically	diagnos	tic, though similar examples							
	have been noted in LB	A (Morris 2006) and EIA (Couldrey	2007) ass	semblage	es from Kent, as well as in the							
	Earlier Neolithic (Mac	pherson-Grant 2011).										
	DRAW.											
Quantity	Period	Ware	Vessels	Wear	Date preference							
2	LBA>EIA/?EIA	Flint + grog tempered	2	L	1150/900-600 BC							
	Body sherds, moderat	e small to coarse grits, 1 oxidised.	-	-								
8	LBA>EIA/?EIA	Flint tempered	2/3	L>M	1150/900-600 BC							
	5 thin-walled oxidised	body sherds from a single vessel, r	noderate s	small to	medium grits, slightly more							
	worn than rest. 1 med	ium sized medium-walled body she	erd with a	sharp ar	gled ?neck junction,							
	moderate small to occ	asionally coarser grits, similar to th	ne body sh	erd in (1	.307) [1304]. 2 small sherds							
	might relate to latter o	or be from a third vessel, 1 a thick-v	valled sim	ple uprig	ght rim with pulled exterior							
	lip.											
Totals			95 :	sherds	1165 g							

APPENDIX III

A spot-dating catalogue and summary report on the worked lithics from an archaeological evaluation at Summerfield Nurseries, Staple, Kent

Site Code: SNS-EV-21

Analyst: Paul Hart Last updated: 27.08.2021

For: The Swale and Thames Archaeology Survey Company

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- 2. Period-based review
- 3. Comment

Appendix (PDF version only)

- 4. Quantification and spot-dating of the worked lithics
 - 4.1. Methodology
 - 4.2. Period Codes employed
 - 4.3. Key to catalogue 4.4
 - 4.4. Catalogue: Quantification and spot-dating of the worked lithics, with notes

1. Summary

A total of 52 worked lithics, all flint, weighing a total of 630 g, were presented and catalogued. All dates given throughout are *circa*. Two main phases of activity are indicated, these occurring during the Earlier Neolithic and the Later Prehistoric, in the latter case between the Middle Bronze Age and the Earliest Iron Age. Both of these groups of material derived from different contexts and both were accompanied by pottery, the dating of which has informed the ranges applied to the flintwork.

Lithic presence	Main focus	
Early Neolithic	3650/3500 to 3350 BC	34 flints
Middle Bronze Age to Earliest Iron Age/Earliest Iron Age	1550/900 to 600 BC	18 flints
	-	

Geology and patination

The underlying geology comprised brickearth of varying thickness, which gradually changed into sand that overlayed chalk bedrock (Peter Cichy *pers. comm.*). Such geologies do not promote the production of those strong obvious patinas (such as chalk-soil type patinas) that are frequently useful in helping to identify whether otherwise undiagnostic flintwork is more likely to be contemporary or residual within its context. This is a significant issue for this site. The majority of the flintwork present does exhibit a yellowy sheen patina, of varying stronger to more subtle hues, the latter often difficult to determine with certainty unless a piece has been subsequently chipped. This patina type is commonly found in such (and various other) geologies locally and it has been seen to occur on material which is likely or effectively context-contemporary, meaning its presence gives little assistance in the issue of identifying residual material. This is not a particular problem for the Early Neolithic assemblage on this site, but is for the later group, for by that time the overburdens will have had the maximum period of opportunity to have accrued a varied selection of residual flintwork.

Raw materials

All of the flint types used are akin to material that is commonly encountered in chalk-soil and brickearth geologies in East Kent and there is no evidence that any has or needs to have been imported any significant distance.

Early Neolithic, 3650/3500 to 3350 BC

All of this material derived from a single feature and was accompanied by pottery of the given date. None of the flintwork needs to be significantly residual and all are potentially context-contemporary. The presence of a single decent blade and no bladelets is notable. This may be a result of biased deposition or an accident of recovery, though the absence of bladelets could suggest that the intentional production of such had largely been abandoned by this time and that the group could date to the later end of its overall Earlier Neolithic range, in line with the dating suggested for the pottery.

The tools predominantly have thin edges and would have functioned primarily as cutting implements (though knife edges, particularly when blunt, can also be used to scrape, of course). No boldly worked formal scrapers in classic Neolithic style were recovered, the only scrapers present being several small, simply worked, hollow scrapers. A couple of serrated flakes were also recovered. The tool-type profile within this group could be a reflection that resource-specific activities were being conducted at this site, though given that this material was recovered during an evaluation it may represent only a partial and incomplete record of the surviving evidence.

Middle Bronze Age to Earliest Iron Age/Earliest Iron Age 1550/900 to 600 BC

All of the Later Prehistoric material derived from a single feature and it was accompanied by pottery that has been dated between 1150/900 and 600 BC, broadly Late Bronze Age to Earliest Iron Age, with a focus on the latter period being preferred at present. Most of the flintwork is probably context-contemporary and a few could potentially be residual, though to what degree is unclear. One of the more decent looking flakes might pre-date the Middle or Late Bronze Age, though the lack of specifics, particularly when earlier flintwork of a specific date has already been identified in the site assemblage, makes the ambiguous material almost irrelevant as far as useful site data is concerned.

All of the retouched tools are simply worked and mostly function as end or hollow scrapers, while the expediently utilised flakes are generally cutting implements (one is a scraper). One of the scrapers has a narrow convex edge that may be akin to the scrapers with steep, narrow, nosed, working edges that occur occasionally in contexts of Middle and Mid to Late Bronze Age date (1550 to 1150 BC overall). Whether this piece is residual and results from the activity of this date that has been suggested in the pottery from this site is unclear.

2. Period-based review

The contexts which contain evidence of period-diagnostic lithics are listed below, along with an estimate of the maximum number of lithics present. The material listed as contemporary or residual typically has an important *potential* to be so, though this should always be considered in light of the nature of the context, the vertical distribution of the material and any other associated finds. This is important because the nature of the underlying geology can make the certain identification of residual flintwork a significant issue for this site.

Potential relationship	In context	Quantity
Contemporary group	(109).	34
Total		34

Early Neolithic, 3650/3500 to 3350 BC

The pottery that occurred in this context was of the preferred date given. The flintwork, which all potentially relates to it, comprised a fairly decent looking collection, the flakes all small to medium size, often thinnish and with long flakes (sometimes short-long) dominating. Remnant cortex was infrequent and the coverage was less than 50% on all except 1 piece of shatter. There were a couple of instances of thin buff and creamy coloured cortexes, often rough, also some material with white patinated natural facets, though Bullhead Bed flint was the most common raw material identifiable. All of these types are commonly found in chalk-soil and brickearth geologies locally, but an increased or preferential use of the latter has particularly been noted in other Earlier (and Later) Neolithic assemblages from the region and further afield. There were a couple of blade-like flakes present, but notably only 1 really decent blade (long and narrow) and no quality bladelets. This is somewhat untypical for an Earlier Neolithic assemblage and if this profile has not been biased by selective deposition or is an accident of recovery, it could perhaps be reflecting that this group belongs to a late stage of the industry, particularly in regard to the absence of intentional classic bladelets. Such a late date would be in line with the preferred date for the pottery. Of the tools, cutting implements were thoroughly dominant. Most pieces were simply utilised without modification, these typically being flakes with thin edges. Of the retouched element, the majority of the retouch present was of limited extent and small or fine and marginal. A couple of simple hollow scrapers and serrated flakes were present, while the retouched knives were mostly basically utilised flakes with very small areas of retouch, except for the 1 quality blade, which showed extensive retouching along both lateral edges (further detail is recorded in the catalogue).

Nearly all of the potential waste also showed some degree of fine scarring, though whether this was incidental abrasion caused post-discard and prior to subsequent inclusion within the context (perhaps from stockpiling or a period of exposure and trampling), or reflected some limited expedient use, is unclear at this time.

Potential relationship	In context	Quantity
Contemporary group	(1308).	18
Total		18

Middle Bronze Age to Earliest Iron Age/Earliest Iron Age, 1550/900 to 600 BC

The pottery that occurred in this context was dated as potentially Late Bronze Age to Earliest Iron Age, 1150 to 600 BC, with a slight preference for the latter period. The flintwork was mostly a somewhat poor looking collection, the majority likely related and potentially contemporary with the pottery. A couple of pieces, including 1 more decent looking blade-like flake, could be slightly or more significantly earlier, but nothing definitive was present. An element of residual material would usually be expected however, particularly in an assemblage of such a late date as far as Prehistoric flintworking industries are concerned.

Simply utilised flakes outnumbered retouched tools. The latter were all on small flakes showing minimal marginal retouch and would most typically be Middle Bronze Age and later. One tool, a scraper on Bullhead Bed flint, showed a small convex edge that could be more reflective of the nosed scraper types that can more typically be Middle to Mid to Late Bronze Age (1550 to 1150 BC). This piece could be residual in context and related to other potential evidence of this period in the pottery assemblage from this site, though the late end of this range is in line with the earlier end of the date range suggested for the pottery. This was a very simply made piece and whether the form was intentional or not, the issue of contemporaneity will not be solved here because of the problem of certainly identifying residual material as a consequence of the underlying geology.

From the remnant cortex the raw materials used mostly comprised nodules with various thin, often rough, buff cortexes. There were also several instances of Bullhead Bed flint and a couple with white patinated natural facets. Though the precise nature of what was available in the local geology and the overburden is unknown at this time, all of this material is akin to that which commonly occurs in chalk-soil and brickearth geologies in East Kent.

3. Comment

As this report concerns material recovered from an evaluation and there is a possibility that further fieldwork might be conducted in the near future, which could lead to the recovery of additional lithics, no formal statement on the relative academic value or recommendations for future analysis or reporting have been given in this stage. Such matters can be concluded if further material is recovered and an assessment report on all of the lithics is written, prior to any final stage of site reporting. Some points are worth considering going forward, however.

It would be useful to have a sample of any natural flint that is present within the immediate overburden and the underlying geology. The Later Prehistoric industries would typically use whatever material was easily available in the immediate vicinity, while in the Earlier Neolithic good quality material was preferred and could be imported if necessary. All of the raw material evidenced in the assemblage was likely available locally, though a question to be answered is whether it was available on site.

Currently, none of the material present is particularly worthy of illustration (further detail can be found in the catalogue) and the usefulness of the Later Prehistoric assemblage is hindered by the previously noted problem of certainly identifying residual material as a result of the underlying geology.

Appendix

4. Quantification and spot-dating of the worked lithics

4.1. Methodology

A prime aim is to provide a useful catalogue that combines a record of key characteristics (permitting a degree of preservation and some re-analysis by record), with individual spot-dating information and an overall comment on the worked lithic content of the context and its implications. Each piece has been considered on its individual merits. Where some pieces have the potential to be part of related groups which may be able to be dated with a narrower, more specific range than many of their individual components, such dates have sometimes been applied to less diagnostic material and the possibilities are commented upon in the context notes. Details about the nature of the context and any pottery recovered, which inform the interpretation, are noted where known.

The artefacts were examined using a hand lens of x10 magnification and were catalogued on a context, type, character, weight (calculated to the nearest gram, with a minimum of 1g), condition, period and potential relationship to context basis. Their suitability for illustration on their own merits was also noted. Within each context the artefacts have been listed first in order of type (waste, retouched, utilised) and then date (earliest to latest). The bulk weight of the flintwork from each context was also recorded.

All dates given throughout are *circa*.

Period	Code		Date	e (circa)	
Mesolithic	Μ	9200	-	4000	BC
Neolithic	Ν	4000	-	2300	BC
Earlier Neolithic (First and Early to early Middle Neolithic)	EN	4000	-	3350/3000	BC
Earlier Beaker period	EBK	2450	-	2000	BC
Early Bronze Age	EBA	2100	-	1550	BC
Lithic Later Bronze Age (Later Prehistoric: MBA>EMIA+)	LLBA	1550	-	350+	BC
Middle Bronze Age	MBA	1550	-	1350	BC
Mid to Late Bronze Age	MBA-LBA	1350	-	1150	BC
Late Bronze Age	LBA	1150	-	1000/900	BC
Earliest Iron Age	EIA	1000/900	-	600	BC
Early to Mid Iron Age	EMIA	600	-	350	BC

4.2. Period Codes employed

4.3. Key to catalogue 4.4.

Class	Italic PP	- :s :	Class of artefact, listed individually under its context. Ordered as Waste, Retouched and Utilised, then by date, then by the strength of patina if appropriate to the site: strongest (residual?) to lightest/unpatinated (possibly contemporary when occurring in a patinating environment). Additional notes of interest in italics; including: Denotes the presence of platform preparation abrasion
FS	11	÷	Flake shape or core type
r5 Elal	vo char	-	Trake shape of core type.
TTUR	c snup		Chart or equat, width come as or greater than length
	3 1	•	Short of Squat: which same as of greater than length.
		:	Long: length greater than width.
	N	:	Narrow: blade proportions but not a true blade.
	В	:	Blade: length twice or more width, with parallel sides and dorsal ridge/s.
	BL	:	Bladelet: blade less than 12mm wide.
Со	ore type	е	
	1/2/	:	The number of platforms.
FT		-	Flake or core type.
	Р	:	Primary: complete/nearly complete cover of cortex on the dorsal surface.
	S	:	Secondary: lesser amount of cortex.
	Т	:	Tertiary: no cortex.
	/	:	Near, ie. '/T': nearly/effectively a tertiary flake.
RM	,	-	Raw material type.
Natural	Ν	:	Naturally shattered, unpatinated surface.
Patina	0		Old natinated (often strongly) naturally broken surface of flint
	0W		As Ω showing a strong white natina
	06		As Ω showing a mottled grey-white nating
Ruff	SB	:	A smooth nale creamy huff thin cortex directly overlaying the flint matrix
Dujj		:	Thin rough huff cortex directly overlying the flint matrix.
		÷	Thin rough buff cortex everying a thick white sub-cortex
		:	Mixed buff and a buff washed grow black cortex thin slightly rough
		÷	Dele grow buff context thin alightly rough weathered leading
		:	This sectors with watch as a CDD and DC
	MB	:	I nin cortex with patches of RB and BG.
Darĸ	G	:	Glauconitic Bulinead Bed fiint.
	TG	:	Very thin, smooth, dark greeny-grey/black cortex.
	Bb	:	Thin, dark black cortex, slightly rough, overlaying a red rind.
White	RW	:	Off-white/creamy coloured thin rough cortex.
	SW	:	Off-white/creamy coloured thin smooth cortex.
Black+	2	:	Mixed patchy black and grey flint.
	3	:	Mixed patchy black and brown to translucent yellowy-brown flint.
	4	:	Mixed patchy black, grey and brown to translucent yellowy-brown flint.
	7	:	Graduating black to brown/translucent yellowy-brown flint.
	8	:	Graduating black, grey and brown to translucent yellowy-brown flint.
Brown	13	:	Translucent pale greyish yellow-brown flint with minor black flint spots/streaks.
Quality	b	:	Generally small cherty inclusions, whether occasional or frequent, which likely do not
			significantly affect knapping; good quality raw material.
	С	:	A moderate content of small to medium-sized cherty inclusions and/or flaws which
			likely will affect the knapping quality to some degree; moderate quality.
	d	:	Moderate to frequent small and/or medium and large-sized cherty inclusions and/or
			flaws which significantly affect the knapping quality; poor raw material.
Н		-	Hammer type.
	Н	:	Hard stone (eg. a cobble of rolled flint or quartzite).
	SS	:	Soft stone (combined hard and soft characteristics, typically mostly hard hammer
			characters with a platform lip; a cortexed flint nodule perhaps).
	S	:	Soft organic (eg. antler, bone, wood).
W		-	Weight in grams (minimum 1g).

Patina		-	Patina present?
	Ν	:	None.
	М	:	Moderate (well established colours but coverage is patchy).
	G	:	Grey.
	W	:	White.
	Y	:	Yellowy sheen.
D		-	Potential/certain post-discard chipping/breakage damage present?
	F	:	Some slight chipping but overall fairly fresh.
	В	:	Burnt.
	PO	:	Chipped or broken post-patination.
	?	:	Denotes damage present but not certainly post-discard; might be from use.
Ι		-	Worthy of future illustration? Initial estimate of pieces of prime interest.
	Y	:	Yes.
	?	:	Possibly, dependent upon context and associations.
	1 etc.	:	Number assigned to an illustration or photograph provided with this report.
Period		-	Potential date range, defined by Period Codes.
	>	:	To.
	<	:	No later than.
	/	:	Or.
	-	:	No firm or usefully compact date range.
Preferen	ce	-	Date preferred at this time. Sometimes a tighter but more intuitive opinion.
Α		-	Association with the context.
	С	:	Has a good potential to be contemporary with the context.
	R	:	Residual.
	Blank	:	No preference at this time.

Key to abbreviations for notes

А	:	Advanced (patina).	nat	:	Natural.
abr	:	Abrupt (retouch).	nr	:	Near.
adj	:	Adjacent.	obv	:	Obviously.
B	:	Blade (flake).	oppos	:	Opposite.
back	:	Backed.	PP	:	Platform preparation (abrasion).
bifac	:	Bifacial (retouch).	pat	:	Patina.
BL	:	Bladelet (flake).	plat	:	Platform.
brk	:	Break.	poss	:	Possible.
convx	:	Convex.	prim	:	Primary (flake).
cortx	:	Cortex.	prob	:	Probably.
dentic	:	Denticulate (retouch).	prx	:	Proximal (flake).
dir	:	Direct (retouch).	resid	:	Residual.
dist	:	Distal (flake).	ret	:	Retouch.
dors	:	Dorsal (flake).	RM	:	Raw material.
E	:	Early (patina).	RU	:	Re-use.
eg	:	Example.	S	:	Strong (patina).
exp	:	Expedient.	sec	:	Section.
fl	:	Flake.	SH	:	Short (flake).
frag	:	Fragment.	signif	:	Significant/ly.
incip	:	Incipient (cones of percussion).	sm	:	Small.
inc	:	Including.	SQ	:	Squat (flake).
inv	:	Inverse (retouch).	subseq	:	Subsequent.
irreg	:	Irregular.	term	:	Termination (flake).
L	:	Long (flake).	tert	:	Tertiary (flake).
lat	:	Lateral (flake).	triang	:	Triangular.
lrg	:	Large.	trunc	:	Truncating/truncated.
vent	:	Ventral (flake).	u-w	:	Use-wear.
М	:	Moderate (patina).	util	:	Utilised.
marg	:	Marginal (retouch).	V/v	:	Very.
med	:	Medium (size).			-
mod	:	Moderate.			

4.4. Catalogue: Quantification and spot-dating of the worked lithics, with notes

Context]	otal lithics	Total weigh	t (g)	
Context:	Information o	n the	natu	re of the c	ontex	t if kn	own.			••••••			
Potterv:	Date of any po	otterv	from	or the ce	ramio	c date	of the context	if kn	own				
Notes:	Elements and	trend	ls of i	nitial inte	rest.				-				
Summary:	Dates (see key	7 to al	obrev	iations >,	< and	l / in 4	.3 above) and	l rela	tion	ships to conte	ext.		
Class		FS	FT	RM	H	Ŵ	Patina	D	Ι	Period	Preference	A	
(109) [108	8]									34 lithics	2	79 g	
Context:													
Pottery:	EN, 3650/350	0-30	00 BC										
Notes:	A fairly decen	t look	ing c	ollection,	all sn	nall to	medium sized	l, ofte	en th	innish and w	ith long flakes		
	(sometimes sh	10rt-l	ong)	dominatiı	ng. Co	rtex ir	frequent and	less	than	50% coverag	ge on all except 1 pi	ece	
	of shatter. Bul	lhead	Bed	the most	comn	ion ra	w material id	entifi	able	A couple of l	blade-like flakes bu	t	
	only 1 really d	lecen	cent blade (long and narrow) and no quality bladelets, this somewhat untypical for an EN										
	group, which i	if not	biase	d by selee	ctive o	dispos	al or recovery	/ coul	d be	reflecting a l	ate stage of the		
	industry, part	iculaı	·ly pe	rhaps in r	egard	l to the	e absence of in	ntent	iona	l classic blade	elets. Cutting		
	implements d	omin	ant. A	ll of the r	etouc	h pres	ent is limited,	, sma	ll or	fine and mar	ginal; most pieces a	re	
	simply utilised	d (thi	n edg	es). A cou	ple of	fserra	ted flakes and	l simj	ple h	ollow scrape	rs; the retouched		
	knives are mo	stly b	asica	lly utilise	d piec	ces wit	h very small a	areas	of r	etouch, all ex	cept for the quality		
	blade, which s	hows	exte	nsive reto	uch.	Nearly	all of the pot	entia	l wa	ste shows sor	ne fine scarring.		
Summary:	All potentiall	y a re	elate	d group o	of EN	date a	nd associate	d wit	th th	e pottery. So	ome might be resi	dual	
	to a degree, b	outno	one n	eeds to o	r obv	viously	y pre-dates t	he pe	erio	d. If the sam	ple if not biased, th	1e	
	group might	be la	te wi	thin its ra	ange,	akint	to the sugges	tion		le for the po	ttery, though even	SO	
	the general la	ACK O	r qua	lity blade	es is i	iotabi	e and may m	ore	ікеі	y be due to t	blased deposition	or	
Class	chance recov	ery.	ΓT	DM		147	Datian	σ	T	Devríad	DuraGaussian	4	
Wasto		гз	ГІ	КМ	П	VV	Puunu	D	1	Perioa	Prejerence	A	
Flako		c	c	DB2c	и	6	Burnt	P			EN	D	
Flake		Jial	otly h	Ind L	11	0	Durne	D		-	LIN	Λ	
Flake (PP)		R	s s	G7h	S	2	N2 V2	F		M>FBA	FN	C	
		Sm	narre	w hut sla	nted	cm ar	ea corty 1 lat	othe	r lat	straighter th	inner hut without	C	
		ohv	ious	hrasion	Some	chins	/hrks dist end	ł	i iat	straighter th	inner but without		
Core shatte	r	-	Т	?G3c	-	64	γ?	2		-	EN	С	
Gore shatte	1	Lar	י סish i	rreg angu	lar ni	ece sh	attered along	, flaw	s 1.	edge shows 2	small projecting p	Paks	
		trin	imed	bv ret.	iai pi	000,01		, 11411	0.1		sinui projecting p	cuno	
Waste?				~ j									
Flake frag (dist)	L?	S	TG-b	-	2	Burnt	В		-	EN	R	
Flake frag (distal)	-	S	SW3c		2	Y	?		-	EN	?	
Flake frag (dist. chips)	-	Т	3c	-	1	Y?	?		-	EN	?	
Flake frag (dist)	-	Т	13b	-	1	N? Y?	?		-	EN	?	
Flake		L	Т	2b	S?	1	Y?	?		-	EN	С	
		Sm,	thin,	snap brks	s 1 th	in lat.					1		
Flake		L	/T	RW4b	-	9	N? Y?	?		-	EN	С	
		Chi	os an	d brks.			I.				I		
Shatter		-	S	RB4c	-	13	Y?	?		-	EN	С	
Retouched													
Knife		В	Т	2b	S	8	Y	F		M>EBK	EN	С	
		Oua	lity lo	ong narro	w B, l	argelv	single dors r	idge.	1 up	per lat some	dir steep semi-abr		
		mai	g ret	followed	bv di	r fine s	emi-abr scars	s alor	ig re	st of thinner	lat, the lower part		
		tow	ards	the pointe	ed tip	also s	howing inv al	or ma	rgre	et. Other lat in	nv semi-abr then ab	r	
		mai	g ret	on upper	halft	o mid	point, followe	ed by	dir a	abr marg ret a	along rest of lat, all		
		forr	ning a	an unever	n edge	e.		5		2			
Serrated fla	ike	S	Р	4b	Н	3	Y?	?		N	EN	С	
		Sm	sana	t area of	serrat	ions a	long thin stra	ight (list (end.			

Serrated flake	L	Т	4c	?	6	Y	PO		Ν	EN	С
	Woi	rn sei	rations b	oth tł	nin lats	s of B-like fl	. PO ex	dam	lage?		
Knife	L	S	G3b	H?	8	N? Y?	?		-	EN	С
	1 la	t stee	p and low	ver pa	ırt witl	h cortx (dir	scarrin	ig on	i cortxd), oth	er thin with scars, lov	wer
	part	t of la	t short le	ngth o	dir sen	<u>ni-abr ret th</u>	inning	thic	ker part.	•	
Knife (nat back)	L	S	G3b	Н	22	N? Y?	?		-	EN	С
	1 th	ck lat	t cortx, ot	her th	in wit	h scarring a	and sma	all ar	rea inv semi-a	abr ret at corner of d	ist
	brk.							-			
Knife (nat back, PP?)	L	S	G3c	Н	21	N?			-	EN	С
	Cor	txd di	ist, 1 shor	t stee	p lat v	vith sm area	a inv se	mi-a	ıbr marg ret,	other lat thin	
	war	ıderiı	ng with so	carrin	g.			r	T	I	
Hollow scraper (<i>n b, PP?</i>)	В	S	TG2b	Н	21	Y?	?		-	EN	С
	1 th	ick co	ortexed la	it, oth	er thin	with inv m	arg ste	ep s	emi-abr ret a	long lower half form	ing
	2 sh	allov	v concave	hollo	WS, SİI	nilar hollov	v on oth	her l	at oppos.		
?Hollow scraper	L	T	4b	2	3	N? Y?			-	EN China Chi	
	Sm,	1 ste	ep lat, otł	ier th	in with	n scars and	on lowe	er pa	art small irreg	g hollow of dir semi-	abr
	ret.	-			-			r			
Hollow scraper/piercer	L	Т	?G4c	<u>?</u>	6	<u>N? Y?</u>	?		-	EN	С
	Sm	fl, are	ea of heav	ily ch	ipped	relict platfo	rm. 1 u	ippe	r lat shows b	road slightly uneven	
	noll	0W 0	f air semi	-abr r	et whi	ch also isol	ates a p	ooint	ed tip (with o	chip/brk scar) at the	
Ming and fight (and hard)	proz	ximal	corner.	1	10	NO VO	2	1		EN	C
MISC. ret. flake (<i>nat back</i>)		5	GZC	-	12		<u>'</u>		- 1:1: -11		Ľ
	Silg	ntiy c	oncave m		part I	lat is thin v	With Sol	me c	iir shallow se	emi-abr mar ret and	
Miss not fishe	scar	тing, т	upper an	<u>a iow</u>	er stee	vo	HOIIOV	v scr	aper?	EN	C
MISC. ret. liake	L Cm	l thin	40 hoth low	- onlot		I í chort longt	- fr		- nding to hing	EN ad dist and 1 lat din	L
	SIII,	uiiii,	other in	er lau	s show	i abr		etiea	ading to ming	ed dist end, 1 lat dif	
Misc ret flake	sem	п-арі Т	2C3b		2	v_2	2			EN	C
Mise. ret. nake	Som	ı na mi	nor scarri	ing or	thin l	1: ats 1 thick	i nrov sh		ler sm area d	ir marg shallow ret	
	(PP	?).		ing of		ats, I thick		iouit	iei sili alea u	in marg shanow let	
Utilised		,									
Flake – knife	S	S	OW3c	Н	14	Y?	?		-	EN	С
Flake – knife	L	Т	4b	-	3	Y	PO		-	EN	С
Flake – knife (<i>nat back</i>)	L	S	G3b	?	8	Y?	?		-	EN	С
Flake – knife (<i>nt bk, PP?</i>)	S	?S	N3b	Н	7	N?	?		-	EN	С
	1 st	eep la	at, other t	hin w	ith sca	rring. Some	e repea	ted o	chipping on p	lat.	
Flake – knife	L	Т	13b	-	1	N? Y?	?		-	EN	С
Flake – knife	L	Т	?G3c	-	2	Y	?		-	EN	С
Flake – knife	L	/T	G7b	S?	3	N? Y?	?		-	EN	С
	Rep	eated	l chipping	g on p	lat.						
Flake – knife (PP?)	L	/T	TG4b	H?	4	Y	PO		-	EN	С
	Chip	os, plu	us some p	oss e	x dama	age.					
Utilised?											
Flake	L	S	RB2b	Н	17	Y	PO		-	EN	?
Flake – knife	L	Т	4c	-	1	Y?	?		-	EN	С
	Min	or sc	arring of	thin a	nd thi	cker edges.	Residu	al?			
Flake	BL	/T	RB4b	-	1	N? Y?	?		-	EN	С
	Not	class	ic, triang	sec, a	cciden	t? Chips.			•	•	
Shatter – knife	-	/T	G3c	-	5	Y?	?		-	EN	С
	Sm	area	dir scarri	ng 1 t	hin ed	ge poss u-w	v. Other	larg	ger scars and	chips.	
				Ĭ							

(1308) [13	804]									18 lithics	35	51 g	
Context:													
Pottery:	LBA>EIA/?EIA	A, 115	50/90	0-600 BC									
Notes:	, Mostly a some	what	poor	· looking o	collec	tion. w	vith a couple of	of mo	re de	ecent looking	flakes. The retouche	d	
	flakes are all s	mall	and v	vith minir	nal m	argina	l retouch: 1 h	lade-	like	flake might p	re-date. but the rest		
	could well be	LLBA	. with	some or	all po	tentia	llv contempo	rarv v	with	the pottery. 1	of these, a scraper (on	
	Bullhead flint	Bullhead flint), shows a small convex/nosed edge, which may more typically be MBA>MBA-LBA. Though											
	this is a very s	his is a very small and simple piece, it might be of this date and thus could be residual in context but											
	related to oth	elated to other potential evidence of this period (pottery) in the site assemblage. The problem of											
	identify residu	dentify residual material on this site as a consequence of the underlying geology is a significant issue.											
Summary	The majority	likel	v rel	ated and	LLRA	and i	otentially c	ontei	nno	rary with the	e nottery A counle	of	
Summary.	nice majority interpretated and LEDA and potentiany contemporary with the pottery. A couple of pieces could be slightly or more significantly earlier, but there is no specific definitive data												
Class	proces cours	FS	FT	RM	H	W	Patina	D	1	Period	Preference	Α	
Waste		10	11	10.1			1 utinu		-	101100	Trejerenee	21	
Core - sing	le nlat	1	S	RC3h	-	74	Burnt	R		_		R	
Core - sing	ie plat	Thi		rtoy and r	-	7 T	burnt	ating	aror	- ulation light	- ly hurnt 1 platf faca	I	
		TIII	LK, CU	n incin co	nany	nd bol	ow an area o	atilig f ronc	gran	l chinning an	d adi a fow sm		
		nor		le nicip cc	nies a	romou	ow all alea o	riepe	atec	i chipping and	u auj a iew sili		
2Corro /ahat	tore	IIdi	DW/		Scal	100	d15.	2			211.0.4		
?core/shat	ter	- T	P	KB8C	-	100		<u> </u>		-	CLLBA		
147 - 2		Lrg	ish ov	val piece, o	aors (cortex,	vent nat shat	terec	+ SI	n area sm sh	ort flake removals.		
Waste?			(77	0.001									
Flake (<i>chips</i>	s, scars)	L	/T	?G2b	H?	1	Y	PO		-	-	?	
Shatter		-	S	SB3-	-	37	N? Y?	B?		-	-	R	
		Dor	's mo	stly cortx	with	a few s	sm fl removal	s aro	und	edge, 1 sm ar	ea bifacial flaking, ve	ent	
		mos	stly g	ranulated	-shat	tered,	poss lightly h	eated					
Retouched													
End scrape	r (<i>PP?</i>)	S	S	G3b	Н	11		?		? <mba-lba< td=""><td>?MBA>MBA-LBA</td><td></td></mba-lba<>	?MBA>MBA-LBA		
		Sm,	thick	, 1 lat cor	tx, ot	her lat	stepped/bro	kn, th	e lat	s converging	at narrow convex di	st	
		end	shov	ving dir al	or ma	rg ret	(nosed-like; i	ntent	iona	l?)			
End scraper		S	?S	N2c	Н	9	N?	?		-	LLBA		
•		Thi	ck squ	uat, steep	dist e	end she	ort length dir	abr r	et.				
Hollow scra	aper	L	S	G3c	H?	8	N? Y?			-	?LLBA		
		Sm	short	-L mostly	v cort	x vent	noorly flawe	d pro	bh a	fl 1 uneven t	hick uncortxd lat sho	w	
		sma	all sha	allow holl	ow of	dir ah	r ret.	(,) p1 (, 5 u				
Misc ret fla	ake	L	S	0G13h	-	1	Y7	2		-	-		
		Sm B-like but oblique and not classic 1 steen lat other thin Plat truncated obliquely by								W			
		dir	ahr re	et adi thir	yuc a	er lat s	hows inv ahr	unev	en n	narg ret	i uncated obliquely t	Jy	
Iltilisod		un		, auj tim	l			unev					
Elako knji	fo 2+piorcor	T	т	4h	cc	0	V2	2			22-MBAIRA		
riake – Killi	e :+piercer		1 ontle	-+U oking	55	7	1:	:		-	::NMDA-LDA	1	
2Chatter 1	mifo	Dec		UKIIIB.		17	V	DO			211.D.4		
?Snatter - k		-	/P	GBZU	-	1/	I V	2		-	(LLBA		
Shatter – Ki	11fe	-	1	ZC	-	/	Y	? 		-	?LLBA		
Flake – knit	te	5	5	BPZD	Н	22	Burnt	В		-	-	K	
		Cor	tx 1 l	ower lat, r	est o	t both	lats thin with	scarı	ing,	lightly burnt	I	1	
Flake – side	e scraper (<i>n b</i>)	L	S	BG4b	H	8	Y?	?		-	-		
		1 st	eep la	at with ch	ips ar	nd scar	s, oppos lat s	teep	with	cortx.			
Flake – knif	fe	S	Р	OW2b	Н	12	Y	?		-	-		
Flake – knif	fe	L	/T	GB7b	H?	2	N?	?		-	-		
Flake – knif	fe	S	S	BW3b	H?	2	N?	?		-	-		
Flake – knif	fe (nat back)	L	S	MB4b	Н	16	?N ?MGW	?		-	-		
		1 th	ick st	eep cortx	d lat.	other	lat thin with	chips	and	scars.			
Utilised?				1									
Flake – knif	fe (<i>nat hack</i>)	S	/P	RB?3h	н	17	Y + Burnt	В		_	-	R	
	- (buck)	112	t cort	xd dist hi	inged	other	lat thin with	ching	and	hrks some f	rom/nost heating	<u> </u>	
		oth	ers II-	w? Lightl	v hur	nt	iac cinii witii	empe	and	51 NJ, 50 MC I	ioni, post neuting,		
		0.00			, 501								
Totals			1			l	<u> </u>			52 lithics	60	0 g	
Totals										52 milles	03	U g	