Braintree PZ Supply
Demand Balance:
Bocking to
Braintree, Essex



Archaeological Strip, Map and Monitoring



Client: Anglian Water

OA East Report No: 1686 OASIS No: OA3-206602 NGR: TL7590 2538 -TL7501 2368



Braintree PZ Supply Demand Balance: Bocking to Braintree, Essex.

Archaeological Strip, Map and Monitoring

By Michael Green BSc and Gareth Rees BA MA ACIfA

With contributions by Sue Anderson BA MPhil MClfA, Chris Faine MA MSc AClfA, Rachel Fosberry AClfA, Alice Lyons MA MClfA and Sarah Percival MA MClfA

Editor: Rachel Clarke BA MCIfA

Illustrator: Séverine Bézie BA MA

Report Date: July 2016

© Oxford Archaeology East Page 1 of 37 Report Number 1686



Report Number: 1686

Site Name: Braintree PZ: Bocking to Braintree

HER Event No: BOCAW14

Date of Works: 25th August 2014 to 3rd March 2015

Client Name: Anglian Water

Client Ref: -

Planning Ref: 14681

Grid Ref: TL7590 2538 -TL7501 2368

Site Code: BOCAW14

Finance Code: XEXBPZ14

Receiving Body: Braintree Museum

Accession No: BOCAW14

Prepared by: Michael Green & Gareth Rees

Position: Project Officer Date: 07/07/16

Checked by: James Drummond-Murray Position: Senior Project Manager

Date: 07/07/16

Signed:

Disclaimer

This document has been prepared for the titled project or named part thereof and should not be relied upon or used for any other project without an independent check being carried out as to its suitability and prior written authority of Oxford Archaeology being obtained. Oxford Archaeology accepts no responsibility or liability for the consequences of this document being used for a purpose other than the purposes for which it was commissioned. Any person/party using or relying on the document for such other purposes agrees and will by such use or reliance be taken to confirm their agreement to indemnify Oxford Archaeology for all loss or damage resulting therefrom. Oxford Archaeology accepts no responsibility or liability for this document to any party other than the person/party by whom it was commissioned.

Jans and Many

Oxford Archaeology East,

15 Trafalgar Way, Bar Hill, Cambridge, CB23 8SQ

t: 01223 850500 f: 01223 850599

e: oaeast@thehumanjourney.net w: http://thehumanjourney.net/oaeast

© Oxford Archaeology East 2016 Oxford Archaeology Limited is a Registered Charity No: 285627



Table of Contents

Summary	5
1 Introduction	7
1.1 Location and scope of work	7
1.2 Geology and topography	7
1.3 Archaeological and historical background	7
1.4 Acknowledgements	9
2 Aims and Methodology	10
2.1 Aims	10
2.2 Methodology	10
3 Results	12
3.1 Introduction	12
3.2 Bocking to Panfield Lane (BOCAW14)	12
3.3 Finds Summary	14
3.4 Environmental Summary	15
4 Discussion and Conclusions	16
4.1 Site 1 (Chainage 1000-1250m)	16
4.2 Site 2 (Chainage 1550-1650m)	16
4.3 Metal-detecting finds	16
4.4 Significance	16
Appendix A. Trench Descriptions and Context Inventory	17
Appendix B. Finds Reports and Catalogues	23
B.1 Metalwork	
B.2 Metalworking Debris	24
B.3 Post-Roman Pottery	26
B.4 Ceramic Building Material	29
B.5 Miscellaneous finds	29
Appendix C. Environmental Reports	30
C.1 Faunal Remains	30
C.2 Environmental samples	30
Appendix D. Bibliography	32
Appendix E. Essex Historic Environment Record Summa	ary Sheets34
Appendix F. OASIS Report Form	36



List of Figures

Fig. 1	Site locations showing archaeological Sites 1 and 2 (black) and pipeline route (red)
Fig. 2	Essex HER entries within 500m of the easement
Fig. 3	Cropmark sites within the vicinity of the pipeline route
Fig. 4	Plan of Site 1, Chainage 1000m-1250m
Fig. 5	Plan of Site 2, Chainage 1550m-1650m
Fig. 6	Selected sections

List of Plates

Plate 1	Site conditions between Chainage 500m and 750m, facing north-east
Plate 2	Site 1: Cobbled surface 46, facing north
Plate 3	Site 2: Ditch 22, facing south
Plate 4	Site 2: Pit 20, facing north-east
Plate 5	Site 2: Ditch 27, facing east

List of Tables

Table B2.1	Quantity and weight of metal-working debris by context
Table B3.1	Pottery distribution by fabric at Site 1
Table B3.2	Pottery distribution by fabric and context in Field A2
Table B4.1	Ceramic building materials by fabric and form (fragment count) at Site 1
Table C2.1	Environmental samples from BOCAW14



Summary

Oxford Archaeology East undertook monitoring, strip and map recording, and excavation along the route of the Braintree PZ Supply\Demand Balance pipeline for Anglian Water. This report deals with those sites and findings uncovered on the route from Bocking (TL7590 2538), in the north, to Panfield Lane, Braintree (TL7501 2368), in the south, between the 25th August 2014 to 3rd March 2015.

Archaeological monitoring was required along virtually the entire length of the pipeline which ran for 2.2km. Three fields in the northern segment (Bocking to Braintree) were selected for strip and map excavation due to the presence of cropmarks, indicative of archaeological sites, recorded in the Historic Environment Record.

Two archaeological sites were uncovered along the route to the north of Braintree. Site 1 consisted of a cobbled surface or track which may have dated to the medieval period, while enclosures and other medieval features with evidence for metalworking (iron smithing) was uncovered at Site 2.

Monitoring of topsoil removal along the remainder of the route uncovered no significant archaeological features. A metal detector survey, conducted along the entire route, recovered Roman and medieval coins that probably represent casual loss, although their presence does indicate some activity in the vicinity during these periods.





1 Introduction

1.1 Location and scope of work

- 1.1.1 Archaeological monitoring, strip and map recording, and targeted excavation were conducted by Oxford Archaeology East (OA East) along the route of the Braintree PZ Supply/Demand balance pipeline extending from Bocking near Braintree to Ardleigh Reservoir near Colchester, Essex. This report covers those sections of the route running from north of the Deanery, Bocking (Figure 1; TL7590 2538) southwards for 2.2km to Panfield Road, Braintree. Other sections of the route are detailed in OA East reports 1685 and 1788 (Rees 2016a and b).
- 1.1.2 This archaeological monitoring and excavation along the route was undertaken in accordance with a Brief issued by Teresa O'Connor of Essex County Council (ECC) supplemented by Specifications prepared by OA East (Drummond-Murray 2014).
- 1.1.3 The work was designed to assist in defining the character and extent of any archaeological remains within the proposed development area, in accordance with the guidelines set out in *National Planning Policy Framework* (Department for Communities and Local Government March 2012).
- 1.1.4 The site archive is currently held by OA East and will be deposited with the appropriate county stores in due course.

1.2 Geology and topography

- 1.2.1 The majority of the pipeline routes lie on Lowestoft Formation Sand and Gravels overlying London Clay (http://mapapps.bgs.ac.uk/geologyofbritain/home.html). The pipeline crossed through predominantly arable farmland and pasture with segments also falling within more urban and residential areas around Braintree. The route lay at a height of 45m OD at its northernmost point and climbed steadily to 72m OD at Panfield Lane. From Braintree to Cressing the elevation of the route fell from 69m to 65m OD in a shallow valley before rising again to 69m OD at its southern end.
- 1.2.2 The route of the pipeline extended west from Bocking Deanery, crossing the River Blackwell, then turned south-west, roughly following the line of Deanery Hill. The route then went south through farmland for c.1km before turning and running adjacent to Panfield Lane: this section ended at the roundabout junction with Porter's Field.

1.3 Archaeological and historical background

1.3.1 A search of the Essex Historic Environment Record (EHER) was carried out for all sites within 500m of the route of the pipeline (Figure 2). This information has been supplemented by reference to published works in the vicinity of the sites identified. The northern end of the pipeline in Bocking crosses the designated Historic Conservation Area of Church Street, which contains numerous buildings and remains dating to the medieval and post-medieval periods.

Prehistoric

1.3.2 There is evidence for continuous human occupation in Essex from the Palaeolithic period onwards with flint scatters including tools having been recovered from across the county; associated particularly with ecotonal and estuarine environments (Wymer 1996, 2; Jacobi 1996, 10). The only evidence of early prehistoric activity from the Study Area



- comes from a single flint blade dated to the to Mesolithic period found during field walking at Doreward's Hall (EHER47071).
- 1.3.3 Across the county it is common to find Neolithic sites associated with earlier, Mesolithic, activity. There was an increasing emphasis towards estuarine locations and river terrace deposits. There are no sites of this period within the Study Area, however Neolithic Carinated Bowl pottery was recovered from Great Waltham, 10km to the south, indicating a Neolithic presence in this landscape (Healy 2012, 3).
- 1.3.4 River valleys, such as that of the Blackwater, continued in importance into the Bronze Age, with these corridors often being the focus of settlement and communication in the Middle and Later Bronze Age (Yates 2012, 31). Pottery dating to this period was recorded as being recovered from a gravel pit to the south-west of Doreward's Hall, Bocking in 1928 (EHER6264; EHER6275). This may indicate that a cremation cemetery was located in this area on the terrace gravels adjacent to the river.
- 1.3.5 There are no Iron Age sites within the Study Area, the nearest major sites are the settlement of Little Waltham 10km to the south and the cemetery at Boreham, 14km to the south (Sealey 2012, 40; 46).

Roman (AD43-c.410)

- 1.3.6 Two important Roman roads intersect to the south of the Study Area. The Chelmsford to Long Melford road runs north-east to south-west and passes 850m to the east of the pipeline route at Bocking (EHER6057). This road intersects with the course of Stane Street, which runs east to west through the centre of Braintree, 600m to the south of the pipeline route at Panfield Lane (EHER1226).
- 1.3.7 Although no major settlement appears to have been located in this area during the Roman period, evidence of occupation has been found. Cremations possibly dating to the Early Roman period (EHER6471) have been uncovered on Rosemary Avenue, 500m to the east of Panfield Lane, whilst a coin also dating to the Early Roman period was found at Bocking (EHER6344), close to the route of the pipeline. Another coin of Roman date has been found at Bovingdon Road, Bocking (EHER6263).

Saxon and Medieval

- 1.3.8 There is no known archaeological evidence for Saxon occupation in the area, however historical sources record that Bocking belonged to the Saxon thegn *Aetheric* in the late 10th century before he bequeathed it to the monks of Christchurch, Canterbury in c.995AD (Medlycott 1998). Part of his bequest may have included the Old Deanery, which is located 80m south of the route on the western side of the river.
- 1.3.9 Excavations at the Old Deanery uncovered ditches dating from the 12th to 14th century, however the majority of the standing remains, including a timber framed dovecote (EHER18014), date to the late medieval and post-medieval period (EHER28018; EHER18013).
- 1.3.10 Two manor houses that also date to this period are located in the Study Area. Bocking Hall, 225m to the north of the route, may have been the manor for the monks of Christchurch (EHER27991; EHER27990). Excavations here recovered medieval pottery (Newman 2012) pre-dating the rebuilding of the house in the 16th century (EHER48216).
- 1.3.11 The church of St Mary the Virgin in Bocking has a medieval origin, with the earliest component being some 13th-century scroll iron-work ornamentation on a 14th century doorway.



1.3.12 At the northern end of the route the pipeline began close to the track leading to the site of the medieval Doreward's Hall (EHER16311). The current timber framed house dates to the 16th century whilst a timber framed barn in the grounds dates from the 15th century (EHER16312). There are several other standing buildings which date from the medieval period in Bocking. These include the King William public house (EHER46895), where an evaluation uncovered medieval features (Ennis 2009; EHER47111), three timber framed buildings on Church Lane (EHER16310), an Alms House (EHER18420) and the Guildhall (EHER18426).

Post-medieval

1.3.13 There are numerous remains from the post-medieval period in the area, however none of these lie directly on the route of the pipeline. The northern part of the pipeline in Bocking crossed the designated Historic Conservation Area of Church Street where numerous buildings dating to this period stand. The closest of these are two timber framed houses 25m to the south-east of the route (EHER16313, EHER27987). Other buildings include an Alms House (EHER27988), the 17th century timber framed King William Inn (EHER27999) and the 18th-19th century Rose and Crown public house (EHER28002) as well as a further seven timber framed houses (EHER27994; EHER27995; EHER27996; EHER27997; EHER28000; EHER28001; EHER28003) and two 19th century brick buildings (EHER28004; EHER15858). A 19th century cloth mill stands 175m to the north-west of the route.

Cropmarks

- 1.3.14 There are 10 entries in the EHER for cropmarks, primarily plotted as part of the National Mapping Programme, which may represent archaeological features in or adjacent to the Study Area (Figure 2; Figure 3). The Brief for archaeological works highlighted two fields along the course of the route, west of Panfield Lane, where the pipeline crossed cropmarks likely to be of an archaeological nature. These cropmarks (EHER14177) consist of linear features possibly representing former field boundaries.
- 1.3.15 Cropmarks in the vicinity of north-west Braintree and Bocking consist primarily of linear features denoting the possible locations of former field boundaries (EHER14228; EHER14230; EHER14221; EHER14236; EHER14237), trackways and ring ditches (EHER8909; EHER14164).
- 1.3.16 A site identified to the south of Panfield, 200m to the west of the route, consists of linear cropmarks representing possible trackways and ring ditches (EHER6508). These features may be associated with a Roman villa thought to exist in the vicinity.

1.4 Acknowledgements

1.4.1 The authors would like to thank Jo Everitt of Anglian Water who commissioned and funded the works. The sites were monitored by Teresa O'Connor whilst the archaeological works were managed by James Drummond-Murray. Mark LePort of @One Alliance managed the overall work on this segment of the pipeline and facilitated the archaeological works through provision of machines and drivers. The work was directed by Michael Green with assistance in the field from Graeme Clarke, James Fairbairn (who also carried out the site survey), Diogo Silva and Lucas Barnes. The author is grateful for specialist analysis from Rachel Fosberry, Sarah Percival, Alice Lyons, Chris Faine and Sue Anderson.



2 AIMS AND METHODOLOGY

2.1 Aims

- 2.1.1 The original aims of the pipeline project were set out in the Brief and Written Scheme of Investigation (O'Connor 2014; Drummond-Murray 2014) prior to the commencement of works. The objective of the monitoring was to mitigate against the effects of the groundworks in the development area and to determine as far as reasonably possible the presence/absence, location, nature, extent, date, quality, condition and significance of any archaeological deposits. In the areas where strip and map recording took place the objective was to document and characterise all features in the designated area.
- 2.1.2 The works also aimed to add to the current knowledge of conditions for the preservation of archaeological remains. Linear works such as these provide a valuable insight in to the depth and preservation of archaeological deposits and sites over a wide area, and it was recognised that the monitoring of this pipeline would provide an opportunity to characterise and map archaeological deposits on a large scale.
- 2.1.3 The aims and objectives of the excavation were developed with reference to the Regional Research Agendas (Medlycott 2011; Brown and Glazebrook 2000). The following research questions are of particular note for the sites encountered along the route of the pipeline in this area:
 - To establish or confirm the date and character of a representative sample of sites mapped by aerial photography
 - Site densities, land-use and locational preferences during the Roman period
 - Characterisation of medieval settlement forms and functions.

2.2 Methodology

- 2.2.1 The methodology used followed that outlined in the Brief and detailed in the Written Scheme of Investigation. Three segments of the route were highlighted prior to the commencement of works as requiring strip and map recording. These were at the following chainages:
 - 500m 800m on land north and west of the Deanery
 - 1000m 1250m on land south-west of the car park at Towerlands
 - · 2000m to Panfield Lane
- 2.2.2 Machine excavation was carried out on all parts of the route by a 360-type tracked excavator using a 1.8m wide flat bladed ditching bucket. Where archaeological deposits were identified, and in the three areas where strip and map recording was required, the machining took place under constant supervision by a suitably qualified and experienced archaeologist. Monitoring of the topsoil removal was carried out under archaeological supervision. Where potential archaeological features were identified prior to or during monitoring, and with the agreement of the site manager and local authority representative, the methodology reverted to that of strip and map. Trenches generally measured between 10m and 15m wide. Where overlying deposits were found to continue to a depth greater than that of the topsoil, further monitoring was conducted during the cutting of the pipe trench. Monitoring also took place of the pits at locations where the pipeline had to be drilled under roads and water courses.
- 2.2.3 Topsoil was scanned with a metal detector prior to stripping and all spoil, exposed surfaces and features exposed by the strip were scanned. All metal-detected and



- hand-collected finds were retained for inspection, other than those which were obviously modern.
- 2.2.4 All archaeological features and deposits were recorded using OA East's *pro-forma* sheets. Trench locations, plans and sections were recorded at appropriate scales and photographs were taken of all relevant features and deposits.
- 2.2.5 The site survey was carried out using a survey grade Leica 1200 dGPS.
- 2.2.6 Environmental samples were taken from archaeologically secure contexts for flotation and residue analysis. Two samples were taken from features located along this part of the pipeline, both from Site 2.
- 2.2.7 The site conditions were generally good (Plate 1), mostly located in ploughed arable fields or pasture with access pre-arranged by Anglian Water.



3 Results

3.1 Introduction

3.1.1 The results of the archaeological works are discussed below from north to south, along the route of the pipeline, beginning at Bocking. The route has been separated into chainages (measured in metres from the start of the route in Bocking going south) in order to aid description and location of the findings. Only chainages where archaeological features were uncovered are mentioned below. Topsoil varied in thickness from 0.10m to 0.40m whilst subsoil, where present, measured up to 0.4m thick. As expected, the greatest depths of subsoil were encountered in those fields which lay under pasture and had not recently been subject to ploughing. A comprehensive listing of topsoil depths and contexts excavated is recorded in Appendix A, supplemented by finds and environmental reports included as Appendices B and C.

3.2 Bocking to Panfield Lane (BOCAW14)

Site 1: Chainage 1000-1250m (Figure 4)

- 3.2.1 This part of the pipeline route passed adjacent to a golf course south of Panfield Road and 140m to the west of Panfield Lane. The trench in this area measured 10.20m wide, increasing to 16.4m wide at the south-western end where archaeological deposits were uncovered. Post-medieval pottery and ceramic building material (CBM) were recovered from the topsoil and subsoil. Three features were uncovered in this field: two linear features and one posthole.
- 3.2.2 Ditch **50** was orientated east to west and terminated 3.6m from the south-western baulk. It measured 0.70m wide and 0.14m deep and contained a single, firm dark grey clayey-silt fill (51) with charcoal and flint inclusions. Pottery dating to the early and high medieval periods, along with a pig mandible, was recovered from this feature (Appendix B3).
- 3.2.3 A large, shallow feature was located adjacent to the terminus of the ditch, running on a north-west to south-east alignment in the southern corner of the trench. This feature (45), measuring 15.9m long, 4.20m wide and 0.30m deep, had an irregular base and sides and contained two fills (Figure 6, Section 14). The lower fill (46) consisted of a light yellow-brown soft silty clay with frequent cobble inclusions measuring up to 0.1m in diameter (Plate 2). Medieval pottery dating to the late 12th to early 13th century and a copper alloy buckle plate (SF2) were recovered from this possible surface (Appendix B1; B3). The cobbles were overlain by a mid grey-brown soft silt (47) from which medieval pottery and abraded Roman CBM were recovered (Appendix B3; B4).
- 3.2.4 The upper fill of ditch **45** was truncated by a posthole (**48**), measuring 0.30m in diameter and 0.14m deep, which had a 'U' shaped profile (Figure 6, Section 15). A single piece of pottery dating to the medieval period was recovered from the only fill (49) of this feature. No other structural evidence was uncovered in this trench.

Site 2: Chainage 1550-1650m (Figure 5)

3.2.5 Two fields had been selected for strip and map excavation to the west of Panfield Lane before it crossed into the road. Archaeological deposits were encountered only at the northern end of these fields. Site 2 was uncovered in a trench measuring 50m from north to south and 11.50m wide. Removal of 0.2m to 0.3m of topsoil revealed eight linear features, two discrete features and one layer representing at least two phases of



medieval activity possibly associated with iron working. Post-medieval pottery and CBM were recovered from the topsoil and subsoil.

Earliest features

- 3.2.6 The earliest features were two ditches, a pit and a layer located in the centre of the excavated area. The layer (24), measuring, 7.90m north to south and 7.40m east to west, consisted of a mid brown-grey firm silty-sand with frequent small flint inclusions and charcoal flecks which may have accumulated in a natural sub-oval hollow measuring 0.1m deep. Late 12th/early 13th century pottery as well as slag were recovered from this deposit.
- 3.2.7 This layer was truncated by an 'L' shaped ditch (**16**, **22** and **18**), located 19m from the northern baulk, which ran east-north-east to west-south-west for 6.16m before turning south-south-east for a further 10.90m where it terminated (Plate 3). This ditch measured up to 1.26m wide and 0.2m deep and contained a mid-dark grey-brown claysilt fill (17, 19 and 23) that produced pottery dating to the 12th to 15th century along with a lead fragment and metalworking debris (Appendix B1; Appendix B3).
- 3.2.8 The terminus of a second ditch (38) was located 0.5m to the east and may have been closely associated with the 'L' shaped ditch. This ditch, orientated east to west, measured 0.51m wide and 0.12m deep and contained a mid-grey soft silty-clay fill (39) from which no artefacts were recovered.
- 3.2.9 Ditch **38** was truncated at its western end by a sub-square pit (**40**), measuring 0.74m wide and 0.54m deep. The pit, which had steep sides and a flat base, contained a single dark-grey soft clayey-silt fill (41) from which a single sherd of early medieval pottery and a small amount of slag were recovered.

Later features

- 3.2.10 The earlier features were truncated by a curvilinear ditch that measured 17m from north-west to south-east (12) before kinking to the south-west (36) for a further 5.40m where it terminated. Measuring up to 0.7m wide and 0.16m deep this ditch had a 'U' shaped profile and concave base that became narrower towards the south. A homogeneous soft dark grey-brown clay-silt fill (13 and 37) filled the ditch and contained pottery dating to the 12th to 13th century along with a later medieval copper alloy loop buckle (Appendix B1; B3). An environmental sample from this feature produced charred cereals along with a large amount of hammerscale and charcoal (Appendix C2).
- 3.2.11 This curvilinear ditch was truncated at its northern end by a boundary ditch (**14**). This ditch, exposed for a distance of 14m long from east-north-east to west-south-west, was in excess of 1.5m wide and 0.27m deep with a shallow 'U' shaped profile and a concave base. A single friable olive brown clayey silt fill (15) was contained in this ditch, from which early medieval pottery was recovered.
- 3.2.12 Another ditch (**34**) was revealed to the south of the boundary ditch that ran from northwest to south-east from a terminus in the centre of the trench to the eastern baulk. Measuring 0.78m wide and 0.09m deep, this ditch contained a mid grey soft clayey-silt fill (35) from which slag and pottery dating to the early and high medieval period were recovered. This ditch was perpendicular to ditch **14** and roughly parallel with ditch **36**.
- 3.2.13 At the southern end of this feature a short length of another ditch (30), terminating 2.75m to the west of the eastern baulk, was uncovered. This ditch, measuring 0.7m wide and 0.39m deep, had a steep 'V' shaped profile and contained a single dark grey soft clayey-silt fill (31) from which 13th century pottery and slag were recovered (Figure



- 6, Section 9). An environmental sample from this feature produced charred cereals and legumes along with a large amount of hammerscale and charcoal (Appendix C2).
- 3.2.14 Two discrete features were bounded by ditch **22** to the west, **18** to the north and **36** to the east and south. One of these, a sub-rectangular pit (**20**), measuring 1.90m long, 1.34m wide and 0.42m deep, had steep sides and a flat base and contained a single mid grey soft clayey-silt fill (21) from which early and high medieval pottery was recovered (Plate 4).
- 3.2.15 Located 1.9m to the south of this pit was a small patch of burnt clay (29), measuring 0.35m in diameter, that may have been the result of localised *in-situ* burning (heat-affected natural) rather than a being distinct deposit.
- 3.2.16 An 'L' shaped ditch (**33**) was located to the east of layer 24 and ran for 6.10m north-east to south-west and 2.10 from north-west to south-east from where it presumably continued under the eastern baulk. This ditch, measuring 0.85m wide and 0.22m deep, contained a single mid grey soft clayey silt fill (**32**) from which a single sherd of pottery dating to the early medieval period was recovered.
- 3.2.17 Orientated north-west to south-east, a short length of ditch (25) was located to the south of layer (24). This ditch, measuring 4m long, 0.84m wide and 0.14m deep, had gently sloping concave sides and contained a mid greyish-brown soft clayey-silt fill (26) from which slag was recovered.
- 3.2.18 Located at the southern end of the trench was a slightly more substantial ditch (27) that was orientated roughly east to west (Plate 5). This ditch measured 1.40m wide and 0.52m deep, and had a 'V' shaped profile with a concave base. It contained a mid brown soft clayey-silt fill (28) from which eight sherds of early medieval pottery and a single sherd of medieval pottery were recovered, along with an iron nail, metalworking slag and the point of red-deer antler (Figure 6, Section 7; Appendix B1; B3; C1).

Chainage 1750-2200m

- 3.2.19 Strip and map monitoring within the remainder of the fields located to the west of Panfield Road uncovered one other possible archaeological deposit. This layer (55; not illustrated), consisting of a light yellow soft silty-sand and measuring 3m wide and 0.1m deep, contained two Roman coins dating to the 2nd and 4th centuries (Appendix B1). This layer may have been remnant subsoil filling a natural hollow.
- 3.2.20 Post-medieval pottery and CBM were recovered from the topsoil ans subsoil in this area, along with Roman and post-medieval coins from metal-detecting to the south of the area.

3.3 Finds Summary

- 3.3.1 *Metalwork*: Metalwork was recovered from seven different contexts; four of these contexts were related to features, one at Site 1 and three at Site 2; whilst the remaining three were unstratified finds from metal-detecting of the topsoil and subsoil. Artefacts dating to the Roman, medieval and post-medieval periods were recovered.
- 3.3.2 *Metalworking Debris*: A total of 21 pieces of metal-working debris weighing 1,815g was collected from nine excavated contexts. The assemblage comprises a mix of undiagnostic iron-rich debris and iron smithing slag including a hearth base.
- 3.3.3 *Post-Roman Pottery*: Pottery was collected from five contexts at Site 1 (86 sherds; 991g) and 13 contexts (75 sherds; 263g) at Site 2. It includes a variety of coarse and finer wares. Dating from both sites tends to indicate a peak of activity in the mid to late 12th to 13th century.



3.3.4 *Ceramic Building Material*: Seven fragments of CBM were recovered from one context at Site 1. These included floor/wall tiles that may date to the Roman period as well as a possible post-medieval quarry tile.

3.4 Environmental Summary

- 3.4.1 *Animal Bone*: A total of 35g of animal bone was recovered from both sites, including the point from a red-deer antler and a pig mandible.
- 3.4.2 Environmental Samples: Bulk samples were taken from ditch fills within the excavated area of Site 1. Both ditches sampled contained fills that contained large amounts of charcoal and slag and are thought to date to the early medieval period.



4 DISCUSSION AND CONCLUSIONS

4.1 Site 1 (Chainage 1000-1250m)

4.1.1 Archaeological features were uncovered in a small area adjacent to the golf course south of Panfield Road. These remains consisted of a single posthole (48), a ditch (50), a layer (52) and a cobbled surface possibly within a shallow ditch or hollow (45). The features all contained medieval pottery dating from the 12th to 13th century. The presence of the cobbled surface may indicate that this location lies on an historic routeway, whilst the association with a quantity of pottery in this area indicates that there is potential for medieval domestic activity to be located nearby.

4.2 Site 2 (Chainage 1550-1650m)

- 4.2.1 A total of 13 features were uncovered just below the topsoil strip at this site. A series of roughly contemporary small enclosures and associated features were uncovered that appear to date to the earlier medieval period and were apparently associated with metalworking (iron smithing). As well as pottery, slag, a possible hearth bottom and hammerscale were found in many of the features, suggesting that this may have been part of a small industrial area used for metalworking. At least two phases of medieval activity were identified, indicating some longevity of use and remodelling/maintenance of the enclosures. No structures could be seen that may have been associated with the industrial activities, but an area of *in situ* burning (29) may have been directly related to metalworking within the enclosures.
- 4.2.2 The ditches located at this site may relate to those recorded on aerial photographs of the area (EHER14177). It is likely that an industrial area such as this would lie on the outskirts of settlement, and as such it is possible that a previously unknown early medieval settlement lies nearby.

4.3 Metal-detecting finds

- 4.3.1 Although no features dating to the Roman period were uncovered along the route of the pipeline, it is notable that Roman coins were recovered along with other metalwork in the fields to the south of the pipeline, adjacent to Panfield Lane. It is possible that features in this area were ploughed out due to shallow topsoil depth.
- 4.3.2 These finds add to the picture of small scale Roman activity in this part of Braintree in this period, already recorded in the EHER.

4.4 Significance

4.4.1 Those findings at Sites 1 and 2 are of significance to the study of the early medieval development of Braintree and its surroundings. Metalworking sites from this period are not common and this adds to the significance of Site 2.

Report Number 1686



APPENDIX A. TRENCH DESCRIPTIONS AND CONTEXT INVENTORY

Trench Depths: Bocking to Braintree

BOCAW14	BOCAW14												
Chainage (m)	Topsoil Depth (m)	Subsoil Depth (m)	Features and Finds										
0-500	0.20	-	No features.										
500-700	0.3	0.1-0.3	No features. Pottery and CBM (post-med)										
750-800	0.3	0.2-0.3	No features. Pottery and CBM (post-med)										
1000-1250	0.1-0.4	0.1-0.2	Site 1. Medieval\Post-medieval										
1300-1550	0.3	0.05-0.4	No features.										
1550-1650	0.2-0.3	-	Site 2. Medieval										
1750-1850	0.3	0.1	1 feature. 2 Roman Coins										
2000-2200	0.2	0.1	No features. 2 Roman Coins. Post-med coins, pottery and CBM.										

© Oxford Archaeology East Page 17 of 37 Report Number 1686



Context Inventory

Site code:	Site	Context	Cut	Chain	Cat.	Туре	L	В	D	Colour	Fine comp	Compacti on	Shape in Plan	Side	B.o.S	Base	Orie ntati on	Profile
BOCAW14		1		500- 700	layer	topsoil			0.2	Mid brown	clayey silt	soft						
BOCAW14		2		500- 700	layer	subsoil			0.3	Light yellowish brown	silty clay	soft						
BOCAW14		3		750- 800	layer	topsoil	0		0.2									
BOCAW14		4		750- 800	layer	subsoil	0		0.3									
BOCAW14		5		1250- 1550	layer	topsoil	0		0.4	Mid brown	clayey silt	soft						
BOCAW14		6		1250- 1550	layer	subsoil	0		0.4	Light yellowish brown	silty clay	soft						
BOCAW14	2	7		1550- 1650	layer	topsoil	0		0.2	Mid brown	clayey silt	plastic						
BOCAW14	2	8		1550- 1650	layer	subsoil	0			Mid yellowish brown	silty clay	soft						
BOCAW14		9		2000- 2250	layer	topsoil	0			Mid brown	clayey silt	soft						
BOCAW14		10		2000- 2250	layer	subsoil	0		0.1									
BOCAW14	2	11		1550- 1650	layer	natural	0			Mid orangey yellow	clay	firm						
BOCAW14	2	12	12	1550-	cut	ditch	0	0.7	0.16				linear	gradu	imperc	concave	N-S	U



Site code:	Site	Context	Cut	Chain	Cat.	Туре	L	В	D	Colour	Fine	Compacti on	Shape in Plan	Side	B.o.S	Base	Orie ntati on	Profile
				1650										al	eptible			shaped
BOCAW14	2	13	12	1550- 1650	fill	ditch	0			Dark grey and orange brown	clayey sandy silt	un- compact						
BOCAW14	2	14	14	1550- 1650	cut	ditch	0	1.5	0.27				linear	gentle	imperc eptible	concave	E-W	wide shallow U shape
BOCAW14	2	15	14	1550- 1650	fill	ditch	0			Olive brown	clayey sandy silt	un- compact						
BOCAW14	2	16	16	1550- 1650	cut	ditch	0	1	0.1				linear	gentle slope	imperc eptible	concave	N-S	U shaped
BOCAW14	2	17	16	1550- 1650	fill	ditch	0	1	0.1	Mid greyish brown	silty sandy clay	firm						
BOCAW14	2	18	18	1550- 1650	cut	ditch	0	0.47	0.16				linear	steep	sharp	flat	E-W	bowl shaped
BOCAW14	2	19	18	1550- 1650	fill	ditch	0	0.47	0.16	Mid greyish brown	silty clay	plastic						
BOCAW14	2	20	20	1550- 1650	cut	pit	1.34	1.9	0.42				sub- circular	steep	sharp	flat		bowl shaped
BOCAW14	2	21	20	1550- 1650	fill	pit	1.34	1.9	0.42	Mid grey	clayey silt	soft						
BOCAW14	2	22	22	1550- 1650	cut	ditch	0	1.26	0.2				linear	gentle slope	gradual	concave	NW- SE	dish
BOCAW14	2	23	22	1550-	fill	ditch	0	1.26	0.2	Dark grey	clayey	soft						



Site code:	Site	Context	Cut	Chain	Cat.	Туре	L	В	D	Colour	Fine	Compacti on	Shape in Plan	Side	B.o.S	Base	Orie ntati on	Profile
				1650							silt							
BOCAW14	2	24		1550- 1650	layer	spread	9	9	0.1	Mid brownish grey	silty clay	firm						
BOCAW14	2	25	25	1550- 1650	cut	furrow	0	0.84	0.14				linear	gentle slope	gradual	concave	NW- SE	dish shaped
BOCAW14	2	26	25	1550- 1650	fill	furrow	0	0.84	0.14	Mid greyish brown	clayey silt	soft						
BOCAW14	2	27	27	1550- 1650	cut	ditch	0	1.4	0.52				linear	steep	sharp	V- shaped	E-W	V- shaped
BOCAW14	2	28	27	1550- 1650	fill	ditch	0	1.4	0.52	Mid brown	clayey silt	soft						
BOCAW14	2	29		1550- 1650	layer	burnt natural	0.4	0.3	0.03	Mid red	clay	firm						
BOCAW14	2	30	30	1550- 1650	cut	ditch	0	0.7	0.39				linear	steep	sharp	V- shaped	E-W	V- shaped
BOCAW14	2	31	30	1550- 1650	fill	ditch	0	0.7	0.39	Dark grey	clayey silt	soft						
BOCAW14	2	32	33	1550- 1650	fill	ditch	0	0.85	0.22	Mid grey	clayey silt	soft						
BOCAW14	2	33	33	1550- 1650	cut	ditch	0	0.85	0.22				linear	gentle slope	gradual	concave	NE- SW	bowl
BOCAW14	2	34	34	1550- 1650	cut	furrow	0	0.78	0.09				linear	gentle slope	gradual	concave	NW- SE	dish
BOCAW14	2	35	34	1550- 1650	fill	furrow	0	0.78	0.09	Mid grey	clayey silt	soft						
BOCAW14	2	36	36	1550-	cut	ditch	0	0.57	0.12				linear	gentle	gradual	concave	NW-	bowl



Site code:	Site	Context	Cut	Chain	Cat.	Туре	L	В	D	Colour	Fine comp	Compacti on	Shape in Plan	Side	B.o.S	Base	Orie ntati on	Profile
				1650										slope			SE	
BOCAW14	2	37	36	1550- 1650	fill	ditch	0	0.57	0.12	Dark grey	silt	soft						
BOCAW14	2	38	38	1550- 1650	cut	gully	0	0.51	0.12				linear	gentle slope	gradual	concave	E-W	dish
BOCAW14	2	39	38	1550- 1650	fill	gully	0	0.51	0.12	Mid grey	silty clay	soft						
BOCAW14	2	40	40	1550- 1650	cut	pit	0	0.75	0.54				sub- circular	steep	sharp	flat		wide U shape
BOCAW14	2	41	40	1550- 1650	fill	pit	0	0.75	0.54	Dark grey	clayey silt	soft						
BOCAW14	1	42		1000- 1250	layer	topsoil	0		0.3	Mid brown	silt	soft						
BOCAW14	1	43		1000- 1250	layer	subsoil	0		0.2	Light yellowish brown	clayey	soft						
BOCAW14	1	44		1000- 1250	layer	natural				Light yellow	clay	plastic						
BOCAW14	1	45	45	1000- 1250	cut	trackway	15.9		0.3				irregular	gentle slope	gradual	irregular	E-W	
BOCAW14	1	46	45	1000- 1250	fill	trackway	15.9	1	0.1	Light yellowish brown	silty clay	soft						
BOCAW14	1	47	45	1000- 1250	fill	trackway	15.9		0.2	Mid greyish brown	silt	soft						
BOCAW14	1	48	48	1000- 1250	cut	posthole	0	0.3	0.14				circular	steep	sharp	concave		U shape



Site code:	Site	Context	Cut	Chain	Cat.	Туре	L	В	D	Colour	Fine comp	Compacti on	Shape in Plan	Side	B.o.S	Base	Orie ntati on	Profile
BOCAW14	1	49	48	1000- 1250	fill	posthole	0	0.3	0.14	Dark grey	clay	firm						
BOCAW14	1	50	50	1000- 1250	cut	ditch	0	0.7	0.14				linear	gentle slope	gradual	concave	NE- SW	bowl
BOCAW14	1	51	50	1000- 1250	fill	ditch	0	0.7	0.14	Dark grey	clayey silt	firm						
BOCAW14	1	52		1000- 1250	layer		0			Mid yellowish grey	silt	soft						
BOCAW14	2	53		1750- 1850	layer	topsoil	0		0.3	Mid brown	clayey silt	soft						
BOCAW14	2	54		1750- 1850	layer	subsoil	0		0.1	Light yellow	silty clay	soft						
BOCAW14	2	55		1750- 1850	layer		0			Light greyish yellow	sandy silt	loose						



APPENDIX B. FINDS REPORTS AND CATALOGUES

B.1 Metalwork

By Chris Faine

Introduction

B.1.1 Metalwork was recovered from seven different contexts along the route of the pipeline between Bocking and Braintree. Four of these contexts were related to features, one at Site 1 and three at Site 2; whilst the remaining three were unstratified finds from metal-detecting of the topsoil and subsoil. Four artefacts, dating to the Roman, medieval and post-medieval periods were recovered from context 9, the number assigned to topsoil at Chainage 2000-2200. Along with the other finds catalogued, they are likely to be the result of casual loss rather than deliberate deposition.

Site 1

B.1.2 SF 2 (context 46, ditch 45) Copper alloy single loop buckle with plate. Rectangular frame with pin attached but broken. Outside edge displays three filed grooves on back. Mid 14th-15th century.

Site 2

- B.1.3 SF 3 (context 37, ditch **36**) Copper alloy single loop buckle. Rectangular frame with two knops at each corner. Mid 14th-15th century.
- B.1.4 SF 10 (context 23, ditch 22) Unidentifiable formless lead fragment. Date uncertain.
- B.1.5 SF 11 (context 28, ditch **27**). Square section iron nail with round head. Length: 36mm Head width: 14.5mm. Date: Uncertain.

Unstratified

- B.1.6 SF 1 (context 2, subsoil 500m to 700m) Silver half groat of Edward III (1327-1377). "Pre-Treaty" type. Series E (1354-55 AD). Mint mark: Cross 2 (North 2000). Obverse: +EDW[ARDVS] REX ANGLI Z FRANC. Crowned bust facing within a tressure of nine arches Reverse: Outer: +POS/VI DEV/ADIVT/OREM. Inner: CIVI/TAS/LON/DON; Long cross dividing the inscriptions with three pellets in each quadrant.
- B.1.7 SF 4 (context 9 topsoil 2000m-2200m) Copper alloy radiate (270-285 AD). Reverse: PIETAS AVG. Indistinct but may be sacrificial implements. Tetricus (271-274 AD). Diameter:17.9mm
- B.1.8 SF 5 (context 9 topsoil 2000m-2200m) Copper alloy radiate of Tetricus (271-274 AD). Reverse: Illegible. Diameter: 26mm
- B.1.9 SF 6 (context 9 topsoil 2000m-2200m) Silver 1817 Half-crown of George III (1760-1820 AD). Obverse: Large bust with Laurel. Reverse: Crowned garter and shield. Diameter: 19.3mm
- B.1.10 SF 7 (context 9 topsoil 2000m-2200m) Lead alloy uniface token. Diameter: 24mm. Features a design of a linear cross with angles sub-divided by two half crosses, with two pellets in the gaps. Post-medieval.
- B.1.11 SF 8 (context 55, subsoil 1750m-1850m) Copper alloy sesterstius of Faustina (c.176-180 AD). Obverse: Inscription illegible. Reverse: DIANA LVCIFERA Diana standing holding a lighted torch. RIC III, p.350 no.170. Diameter: 28mm



B.1.12 SF 9 (context 55, subsoil 1750m-1850m) Copper alloy nummus of Constantine (330-335 AD.) Obverse: Helmeted bust facing right. Inscription Illegible. Reverse: Two standing figures facing centre. Possibly GLORIA EXERCITVS. Diameter: 16.6mm.

B.2 Metalworking Debris

By Sarah Percival

Introduction and methodology

- B.2.1 A total of 21 pieces of metalworking debris (MWD) weighing 1,815g was collected from nine excavated contexts. The assemblage comprises a mix of undiagnostic iron-rich debris and iron smithing slag, including a hearth base.
- B.2.2 The complete assemblage was recorded by type by context. The MWD was scanned with a magnet to establish the presence of iron and was counted and weighed to the nearest whole gramme.

Context	Quantity	Weight	Туре	Description	Site	Cut	Feature Type
17	1	145	Miscellaneous	Curved vitrified dense possible hearth base	2	16	Ditch
19	1	121	Iron smithing slag	Rusty, vacuoles, one surface vitrified	2	18	Ditch
21	5	286	Iron smithing slag	Rusty, vacuoles, one surface vitrified	2	20	Pit
24	6	142	Iron smithing slag	Rusty, vacuoles, one surface vitrified	2	0	Spread
28	1	89	Iron smithing slag	Rusty, vacuoles	2	27	Ditch
31	1	17	Iron smithing slag	Rusty, vacuoles, one surface vitrified	2	30	Ditch
35	1	827	Iron smithing slag	Plano-convex smithing hearth base rusty with numerous vacuoles and sand adhering to base	2	34	Furrow
37	3	65	Miscellaneous	Vitrified lumps probably smithing slag	2	36	Ditch
41	2	123	Iron smithing slag	Rusty, vacuoles	2	40	Pit
Total	21	1815					

Table B2.1: Quantity and weight of metal-working debris by context

Description

- B.2.3 Undiagnostic, miscellaneous iron rich metalworking debris was found in two contexts. A curved lump of dense vitrified material found in fill 17 of ditch 16 may be a hearth base while two pieces of rusty iron rich debris with numerous voids were found in fill 37 of ditch 36.
- B.2.4 The smithing slag is composed of a fused mass of iron rich material, again with numerous vacuoles and voids. Smithing slag was found in seven contexts including the fills of pits **20** and **40** and ditches **18**, **27** and **30** and spread 24. The hearth base was recovered from ditch **34**. The base is dense and heavy with a flat or slightly concave top



and curved base. The underside has sand and debris adhering from contact with the hearth structure in which it formed.

Discussion

B.2.5 None of the material is intrinsically datable but it is probably medieval in keeping with the pottery finds from the features.



B.3 Post-Roman Pottery

By Sue Anderson

Introduction

B.3.1 Pottery was collected from five contexts at Site 1, and thirteen contexts at Site 2.

Methodology

B.3.2 Quantification was carried out using sherd count, weight and estimated vessel equivalent (eve). The minimum number of vessels (MNV) within each context was also recorded, but cross-fitting was not attempted unless particularly distinctive vessels were observed in more than one context. A full quantification by fabric, context and feature is available in the archive. All fabric codes were assigned from the Suffolk post-Roman fabric series, which includes East Anglian and Midlands fabrics, as well as imported wares (equivalent Essex fabrics were noted). Form terminology follows MPRG (1998) and rim forms follow the Essex type series (e.g. Drury 1993; Cunningham 1985). Local wares were identified based on Cotter (2000), and Hedingham wares (Walker 2012) from kiln samples supplied by Helen Walker. Recording uses a system of letters for fabric codes. The results were input directly onto an Access database.

Site 1: Chainage 1000-1250

B.3.3 Eighty-six sherds of pottery (991g) were recovered from five contexts at Site 1. A full catalogue by context is available in the archive. Table B.3.1 shows the quantification by fabric.

Description	Fabric date range	Fabric	No	Wt (g)	eve	MNV
Early medieval sandy ware	11th-M.13th c.	13	7	155	0.18	7
Early medieval ware gritty	11th-M.13th c.	13	5	62		4
Early medieval ware transitional	L.11th-13th c.	13T	15	166		13
Medieval coarseware	12th-14th c.	20	31	254	0.05	30
Medieval coarseware gritty	L.11th-13th c?	20	12	149		12
Medieval coarseware micaceous	12th-14th c.	20	6	88	0.06	6
Hedingham coarseware	L.12th-13th c.	20D	1	28	0.10	1
Colchester-type ware	L.13th-M.16th c.	21A	5	52	0.10	4
Hedingham fine ware	M.12th-13th c.	22	2	28		2
Sandy orange wares	13th-16th c.	21	1	7		1
Post-medieval slipwares	17th-19th c.	40	1	2		1
Totals			86	991	0.49	81

Table B.3.1: Pottery distribution by fabric at Site 1

- B.3.4 Sixty-two sherds were recovered from the two fills of feature **45**. This group includes examples of all the early and high medieval fabrics shown in Table B.3.1. Six jar rims are present, the range of types (B4, H1 and E2) suggesting that the contexts were of broadly 13th-century date.
- B.3.5 Posthole **48** (fill 49) contained one body sherd of medieval micaceous greyware.
- B.3.6 Ditch **50** (fill 51) contained 19 body and base sherds of early and high medieval coarsewares. A small sherd of post-medieval blackware with white slip decoration externally was probably intrusive.



B.3.7 Two sherds of medieval coarseware and a jug rim fragment (type B4, L.12th-E.13th c.) of Colchester-type ware came from layer 52.

Site 2: Chainage 1550–1650

B.3.8 Seventy-five sherds (263g) of pottery were recovered from 13 contexts at Site 2. A full catalogue is available in the archive. Table B.3.2 shows the quantification by fabric.

Description	Fabric date range	Fabric	No	Wt (g)	Eve	MNV
Early medieval sandy wares	11th-M.13th c.	13	21	139		13
Early medieval ware gritty	11th-M.13th c.	13	3	62		3
Early medieval ware transitional	L.11th-13th c.	13T	6	33		5
Medieval coarseware	12th-14th c.	20	20	213	0.40	9
Medieval coarseware gritty	L.11th-13th c?	20	17	270	0.17	14
Medieval coarseware micaceous	12th-14th c.	20	1	5		1
Hedingham fine ware	M.12th-13th c.	22	6	6		1
Sandy orange wares	13th-16th c.	21	1	9		1
Totals			75	737	0.57	47

Table B.3.2: Pottery distribution by fabric and context in Field A2

- B.3.9 Layer 24 contained 12 sherds of early and high medieval pottery, including a gritty ware jug handle with thumbing along the edges, and two jars with type B4 rims, suggesting a late 12th to early 13th-century date.
- B.3.10 Fills 17, 19 and 23 of L-shaped ditch **16**, **18**, **22** produced 21 sherds of eight early and high medieval vessels, including a jar rim (type H1, M–L. 13th c.) in a gritty fabric similar to Colchester-type ware.
- B.3.11 Pit 40 (fill 41) contained a single body sherd of early medieval ware (Fabric 13T).
- B.3.12 Curvilinear ditch **12** and **36** (fills 13 and 37) produced six body and base sherds of early and high medieval coarsewares, suggesting a 12th/13th-century or later date.
- B.3.13 Boundary ditch **14** contained only a single sherd of gritty early medieval ware.
- B.3.14 Six body and base sherds of early and high medieval coarsewares were recovered from ditch **34** (fill 35). The early medieval wares are abraded and the medieval coarseware is similar to Colchester-type ware, perhaps indicating a 13th-century or later date.
- B.3.15 Ditch **30** (fill 31) contained four sherds of medieval coarseware, of which one is a jar rim (type C1) similar to an example from the Middleborough kiln assemblage (Cotter 2000, fig. 35, 6th row, 3rd rim) and probably of 13th-century date.
- B.3.16 Pit **20** (fill 21) contained six sherds of early and high medieval coarsewares, including a possible jug handle, and a base fragment of a vessel in a fabric similar to Colchester-type ware.
- B.3.17 One body sherd of gritty early medieval ware came from ditch 33.
- B.3.18 Ditch **27** (fill 28) contained eight sherds of early medieval wares, seven sherds of a single medieval coarseware jar with a type B4 rim (*cf.* Drury 1993, no. 52) and a body sherd of sandy orange ware.



Discussion

- B.3.19 Pottery recovered from both sites includes a variety of coarse and finer sandy fabrics of handmade early and wheelmade high medieval types, recorded under the generic Essex fabric groups 13 and 20. The evidence from the few datable and diagnostic sherds suggests that activity flourished in the mid to late 12th and 13th centuries, with few sherds of later date evident in the assemblage.
- B.3.20 The fabrics and forms are comparable with local assemblages such as the larger groups from Rivenhall (Drury 1993), Ardleigh (Walker 2009) and Colchester (Cunningham 1982; Cotter 2000).



B.4 Ceramic Building Material

By Sue Anderson

Introduction

B.4.1 CBM was collected from one context at Site 1.

Methodology

B.4.2 The assemblage was quantified (count and weight) by fabric and form. Fabrics were identified on the basis of macroscopic appearance and main inclusions. The width, length and thickness of bricks and tiles were measured where possible, but roof tile thicknesses were only measured when another dimension was available. Features such as peg hole shapes, glaze, mortar and firing were recorded as appropriate.

Site 1 assemblage

B.4.3 Seven fragments of CBM (577g) were recovered from ditch **45** (fill 47). A full catalogue is available in the archive. Table B.4.1 provides a summary of the types and fabrics.

Fabric	code	RBT	FT?	RTM	RT	UN
fine sandy	fs	1				1
fs with flint	fsf	1	1			
coarse sandy	cs			1		
medium sandy with flint	msf				2	
Totals		2	1	1	2	1
Total weights (g)		434	46	62	33	2

Table B.4.1: Ceramic building materials by fabric and form (fragment count) at Site 1

- B.4.4 Two fragments of abraded Roman tile (RBT) in dense fine fabrics were identified, measuring 30mm and 35mm thick. This is the typical range of thicknesses for Roman flanged *tegulae* and wall/floor tiles.
- B.4.5 A fragment of tile in a fine sandy flint-tempered fabric had a chamfered edge and is likely to be a floor tile (FT). It is 43mm thick and has a reduced upper surface but shows no signs of glazing. It may be a post-medieval quarry tile, or possibly a Roman tile.
- B.4.6 One small abraded fragment with no original surfaces remains unidentified (UN).

B.5 Miscellaneous finds

By Sue Anderson

Clay tobacco pipe

B.5.1 Subsoil (2) contained an abraded stem fragment of a clay pipe with a bore diameter of 2.4mm, suggesting a 17th/18th-century date.



APPENDIX C. ENVIRONMENTAL REPORTS

C.1 Faunal Remains

By Chris Faine

C.1.1 Thirty-five grammes of bone were recovered from Sites 1 and 2, with three fragments identifiable to species. Context 28 (ditch **27**) contained a point from a red deer antler tine, while fill 51 (ditch **50**) contained a pig mandible from an adult male animal.

C.2 Environmental samples

By Rachel Fosberry

Introduction

C.2.1 Two bulk samples were taken from Site 2 ditch fills (fill 31 of ditch **30**, and fill 37 of ditch **36**) in order to assess the quality of preservation of plant remains and their potential to provide useful data on the palaeoenvironment and economy. Both ditches contained fills that contained large amounts of charcoal and slag date to the medieval period.

Methodology

C.2.1 The total volume (up to 20 litres) of each bulk sample was processed by water flotation (using a modified Siraff three-tank system) for the recovery of charred plant remains, dating evidence and any other artefactual evidence that might be present. The floating component (flot) of the samples was collected in a 0.3mm nylon mesh and the residue was washed through 10mm, 5mm, 2mm and a 0.5mm sieve. Both flot and residues were allowed to air dry. A magnet was dragged through each residue fraction prior to sorting for artefacts. Any artefacts present were noted and reintegrated with the handexcavated finds. The dried flots were subsequently sorted using a binocular microscope at magnifications up to x 60 and a complete list of the recorded remains are presented in Table C2.1. Identification of plant remains is with reference to the Digital Seed Atlas of the Netherlands and the authors' own reference collection. Nomenclature is according to Zohary and Hopf (2000) for cereals and Stace (1997) for other plants. Carbonized seeds and grains, by the process of burning and burial, become blackened and often distort and fragment leading to difficulty in identification. Plant remains have been identified to species where possible. The identification of cereals has been based on the characteristic morphology of the grains and chaff as described by Jacomet (2006).

Quantification

C.2.1 For the purpose of this initial assessment, items such as cereal grains and legumes have been scanned and recorded qualitatively according to the following categories

```
# = 1-10, ## = 11-50, ### = 51+ specimens #### = 100+ specimens
```

Items that cannot be easily quantified such as charcoal and magnetic residues have been scored for abundance

+ = rare, ++ = moderate, +++ = abundant



Results

C.2.2 Preservation of plant remains in both samples is by carbonisation and is generally poor. Charred cereal grains are abraded but can be identified as wheat (*Triticum* sp.) by their morphology. A single fragment of a legume, possibly a pea (*Pisum* sp.) is also present in Sample 1. Hammerscale in the form of flakes and spheroids of iron oxide are common in both samples.

Sample No.	Context No.	Cut No.	Cereals	Legumes	Hammerscale	Charcoal	Pottery
1	31	30	#	#	+++	++	#
					+++		
2	37	36	#			++	#

Table C2.1: Environmental samples from BOCAW14

Discussion

- C.2.1 The charred plant remains consist mainly of cereal grains that are all poorly preserved, either because of taphonomic factors or because they had been charred at a high temperature. The abundance of hammerscale indicates that blacksmithing activities were taking place in the near vicinity of the ditches.
- C.2.2 It would appear that the ditches had been used for the disposal of both domestic and industrial waste indicative of nearly settlement.



APPENDIX D. BIBLIOGRAPHY

Brown, N and Glazebrook, J.	2000	Research and Archaeology: a Framework for the Eastern Counties, 2. research agenda and strategy. EAA Occasional paper no.8
Cappers, R.T.J., Bekker R.M. and Jans, J.E.A.	2006	Digital Seed Atlas of the Netherlands Groningen Archaeological Studies 4, Barkhuis Publishing, Eelde, The Netherlands. www.seedatlas.nl
Cotter, J.	2000	Post-Roman Pottery from Excavations in Colchester, 1971-85. Colchester Archaeol. Rep. 7. Colchester Archaeol. Trust.
Cunningham, C.M.	1982	'Medieval and later pottery' in Drury, P.J., 'Aspects of the origins and development of Colchester Castle', Archaeological Journal 139, 302–419.
Drummond-Murray, J.	2014	Specification for archaeological monitoring and excavation. Braintree ring main. OA East Spec.
Drury, P.J.	1993	'The later Saxon, medieval and post-medieval pottery', in Rodwell, W. and Rodwell, K., <i>Rivenhall. Investigations of a Villa, Church and Village, 1950-1977, Vol. 2.</i> Chelmsford Archaeol. Trust Rep. 4.2, CBA Res. Rep. 80.
Ennis, T.	2009	King William public house, Church Street, Bocking, Essex. Archaeological evaluation and monitoring. ECCFAU Rep. no.1979
Healy, F.	2012	Starting something new: the Neolithic in Essex. In N. Brown, M. Medlycott and O. Bedwin (eds.), <i>The archaeology of Essex: Proceedings of the Chelmsford conference</i> . The transactions of the Essex society for archaeology and history. 1-25
Jacobi, R.M.	1996	The late upper Palaeolithic and Mesolithic in Essex. In O. Bedwin (ed), <i>The archaeology of Essex. Proceedings of the Writtle conference</i> . Chelmsford: Essex County Council. 10-14
Jacomet, S.	2006	Identification of cereal remains from archaeological sites. (2nd edition) IPNA, Universität Basel / Published by the IPAS, Basel University.
Medlycott, M.	1998	Bocking: Historic town project assessment report. ECC
Medlycott, M.	2011	Research and archaeology revisited: A revised framework for the East of England. EAA Occasional paper no.24
MPRG	1998	A Guide to the Classification of Medieval Ceramic Forms. Medieval Pottery Research Group Occasional Paper 1.
Newman, J.	2012	Bocking Hall, Church Street, Bocking, Essex. Archaeological Monitoring Report. JNAS Report.
North, J. J.	2000	English hammered coinage volume 2: Edward I to Charles II 1272-1662. London
O'Connor, T.	2014	Archaeological monitoring and excavation on the construction of the Braintree Ring main Phase 5 Scheme. ECC
Rees, G.	2016a	Braintree PZ Supply Demand Balance: Braintree to Cressing,



		Essex. Archaeological Monitoring. OA East Report 1788
Rees, G.	2016b	Braintree PZ Supply Demand Balance: Great Horkesley to Ardleigh, Essex. Archaeological Strip, Map and Monitoring. OA East Report 1685
Sealey, P.	2012	The Iron Age in Essex revisited. In N. Brown, M. Medlycott and O. Bedwin (eds.), <i>The archaeology of Essex: Proceedings of the Chelmsford conference</i> . The transactions of the Essex society for archaeology and history. 37-60
Stace, C.	1997	New Flora of the British Isles. Second edition. Cambridge University Press
Walker, H.	2009	1938: Wick Farm, Ardleigh (ARWF06). Medieval and later pottery. Archive report for ECCAFU.
Walker, H.	2012	The Medieval Hedingham Ware Pottery Industry. E. Anglian Archaeol. 148.
Wymer, J.J.	1996	The Palaeolithic period in Essex. In O. Bedwin (ed), <i>The archaeology of Essex. Proceedings of the Writtle conference</i> . Chelmsford: Essex County Council. 1-9
Yates, D.	2012	Connecting and disconnecting in the Bronze Age. In N. Brown, M. Medlycott and O. Bedwin (eds.), <i>The archaeology of Essex:</i> Proceedings of the Chelmsford conference. The transactions of the Essex society for archaeology and history. 26-36
Zohary, D. and Hopf, M.	2000	Domestication of Plants in the Old World – The origin and spread of cultivated plants in West Asia, Europe, and the. Nile Valley. 3rd edition. Oxford University Press



APPENDIX E. ESSEX HISTORIC ENVIRONMENT RECORD SUMMARY SHEETS

Site name/Address: Braintree PZ Anglian Water Pipeline Site 1: Bocking, west of Panfield Lane (Chainage 1000-1250)					
Parish: Bocking	District: Braintree				
NGR: TL7503 2495	Site Code: BOCAW14				
Type of Work: Archaeological monitoring and strip and map excavation	Site Director/Group: Gareth Rees OA East				
Date of Work: 25/08/2014 to 03/03/2015	Size of Area Investigated: 269 sq m				
Location of Finds/Curating Museum: Braintree Museum	Funding source: Anglian Water				
Further Seasons Anticipated? No	Related EHCR No.s:				
Final Report: OA East report no.1686	OASIS number: OA3-206602				

Periods Represented: Medieval

SUMMARY OF FIELDWORK RESULTS:

Oxford Archaeology East undertook monitoring, strip and map recording, and excavation along the route of the Braintree PZ Supply\Demand Balance pipeline for Anglian Water.

Three fields in the northern segment (Bocking to Braintree) were selected for Strip and Map excavation due to cropmarks, indicating archaeological sites, recorded in the Historic Environment Records.

Two archaeological sites were uncovered along the route to the north of Braintree. Site 1 consisted of a cobbled surface or track which may have dated to the medieval period. The location of a medieval settlement with evidence for metalworking was uncovered at Site 2.

Monitoring of topsoil removal on the remainder of the route uncovered no significant archaeological features. A metal detector survey, conducted along the entire route, recovered Roman and medieval coins demonstrating that there was Roman activity in the vicinity.

Previous Summaries/Reports:	
None.	
Author of Summary:	Date of Summary:
Author of Summary:	Date of Summary:
Gareth Rees	23\04\2015



Site name/Address: Braintree PZ Anglian Water Pipeline Site 2: Bocking, west of Panfield Lane (Chainage 1550-1650)					
Parish: Bocking	District: Braintree				
NGR: TL7499 2456	Site Code: BOCAW14				
Type of Work: Archaeological monitoring and strip and map excavation	Site Director/Group: Gareth Rees OA East				
Date of Work: 25/08/2014 to 03/03/2015	Size of Area Investigated: 571 sq m				
Location of Finds/Curating Museum: Braintree Museum	Funding source: Anglian Water				
Further Seasons Anticipated? No	Related EHCR No.s:				
Final Report: OA East report no.1686	OASIS number: OA3-206602				
Periods Represented: Medieval					

SUMMARY OF FIELDWORK RESULTS:

Oxford Archaeology East undertook monitoring, strip and map recording, and excavation along the route of the Braintree PZ Supply\Demand Balance pipeline for Anglian Water.

Three fields in the northern segment (Bocking to Braintree) were selected for strip and map excavation due to cropmarks, indicating archaeological sites, recorded in the Historic Environment Records.

Two archaeological sites were uncovered along the route to the north of Braintree. Site 1 consisted of a cobbled surface or track which may have dated to the medieval period. The location of a medieval settlement with evidence for metalworking was uncovered at Site 2.

Monitoring of topsoil removal on the remainder of the route uncovered no significant archaeological features. A metal detector survey, conducted along the entire route, recovered Roman and medieval coins demonstrating that there was Roman activity in the vicinity.

Previous Summaries/Reports:		
None.		
Author of Summary:	Date of Summary:	
Gareth Rees	23\04\2015	



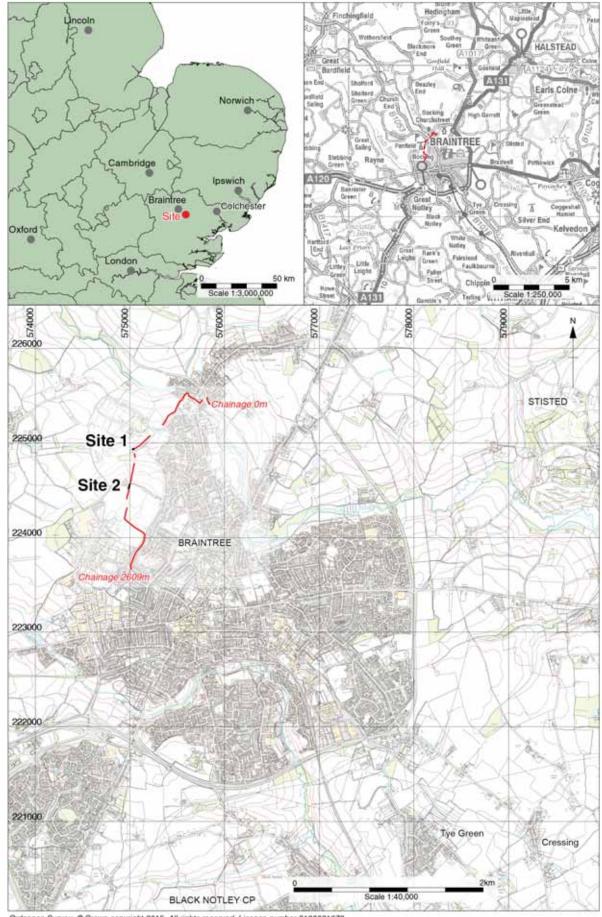
APPENDIX F. OASIS REPORT FORM

All fields are required unless they are not applicable.

OASIS Number Project Name Braintree PZ, Bocking to Braintree Pipeline Project Dates (fieldwork) Start 25-08-2014 Finish 03-03-2015 Previous Work (by OA East) No Future Work No Project Reference Codes Site Code BOCAW14 HER No. BOCAW14 Planning App. No. 14681 HER No. BOCAW14 Related HER/OASIS No. CRSAW14 Type of Project/Techniques Used Prompt Direction from Local Planning Authority - PPS 5 Please select all techniques used: Field Observation (periodic visits)	Project Details											
Project Dates (fieldwork) Start 25-08-2014 Finish 03-03-2015 Previous Work (by OA East) No Future Work No Project Reference Codes Site Code BOCAW14 Planning App. No. 14681 HER No. BOCAW14 Related HER/OASIS No. CRSAW14 Type of Project/Techniques Used Prompt Direction from Local Planning Authority - PPS 5 Please select all techniques used: Field Observation (periodic visits) Part Excavation Salvage Record Systematic Field Walking Pull Survey Recorded Observation Systematic Field Walking Survey Remote Operated Vehicle Survey Test Pit Survey Surphysical Survey Remote Operated Vehicle Survey Resort Salvage Excavation Salvage Excavation Remote Operated Vehicle Survey Remote Operated Vehicle Survey Resort Survey Remote Operated Vehicle Survey Resort Salvage Excavation Resort Survey Remote Operated Vehicle Survey Resort Salvage Excavation	OASIS Number OA3-2		06602									
Previous Work (by OA East) No Future Work No Project Reference Codes Site Code BOCAW14 HER No. BOCAW14 Planning App. No. Related HER/OASIS No. CRSAW14 Type of Project/Techniques Used Prompt Direction from Local Planning Authority - PPS 5 Please select all techniques used: Field Observation (periodic visits) Part Excavation Full Excavation (100%) Part Survey Systematic Field Walking Full Survey Remote Operated Vehicle Survey Remote Operated Vehicle Survey Open-Area Excavation Salvage Excavation Watching Brief Monument Types/Significant Finds & Their Periods List feature types using the NMR Monument Type Thesaurus and significant finds using the MDA Object type Thesaurus together with their respective periods. If no features/finds were found, please state "none". Monument Period Settlement Medieval 1066 to 1540 Metalworking debris Medieval 1066 to 1540 Select period Coins Roman 43 to 410 Project Location County Essex Site Address (including postcode if possible) District Braintree Parish Bocking, Braintree, Cress HER Essex: Braintree Museum	Project Name Braintr		ee PZ, Bocking to Braintree Pipeline									
Project Reference Codes Site Code BOCAW14 Planning App. No. 14681 HER No. BOCAW14 Related HER/OASIS No. CRSAW14 Type of Project/Techniques Used Prompt Direction from Local Planning Authority - PPS 5 Please select all techniques used: Field Observation (periodic visits) Part Excavation Salvage Record Systematic Field Walking Part Survey Systematic Field Walking Full Excavation (100%) Part Survey Test Pit Survey Geophysical Survey Remote Operated Vehicle Survey Test Pit Survey Open-Area Excavation Salvage Excavation Watching Brief Monument Types/Significant Finds & Their Periods List feature types using the NMR Monument Type Thesaurus and significant finds using the MDA Object type Thesaurus together with their respective periods. If no features/finds were found, please state "none". Monument Period Object Period Settlement Medieval 1066 to 1540 Metalworking debris Medieval 1066 to 1540 Select period Coins Medieval 1066 to 1540 Project Location County Essex Site Address (including postcode if possible) District Braintree Parish Bocking, Braintree, Cress HER Essex; Braintree Museum	Project Dates (fieldwork) Start			Start	rt 25-08-2014 Finish				03-0	03-03-2015		
Site Code HER No. BOCAW14 Planning App. No. Related HER/OASIS No. CRSAW14 Type of Project/Techniques Used Prompt Direction from Local Planning Authority - PPS 5 Please select all techniques used: Field Observation (periodic visits) Part Excavation Field Observation (100%) Part Survey Systematic Field Walking Full Excavation (100%) Recorded Observation Salvage Record Full Survey Recorded Observation Salvage Excavation Survey Remote Operated Vehicle Survey Test Pit Survey Open-Area Excavation Salvage Excavation Watching Brief Monument Types/Significant Finds & Their Periods List feature types using the NMR Monument Type Thesaurus and significant finds using the MDA Object type Thesaurus together with their respective periods. If no features/finds were found, please state "none". Monument Period Object Period Settlement Medieval 1066 to 1540 Metalworking debris Medieval 1066 to 1540 Select period Coins Roman 43 to 410 Project Location County Essex Site Address (including postcode if possible) Deanery Hill, Bocking, Braintree, Essex CM7 5SR Parish Bocking, Braintree, Cress HER Essex: Braintree Museum	Previous Wo	ork (by	OA Ea	st)	No Future V			Wor	k No			
Site Code HER No. BOCAW14 Planning App. No. Related HER/OASIS No. CRSAW14 Type of Project/Techniques Used Prompt Direction from Local Planning Authority - PPS 5 Please select all techniques used: Field Observation (periodic visits) Part Excavation Field Observation (100%) Part Survey Systematic Field Walking Full Excavation (100%) Recorded Observation Salvage Record Full Survey Recorded Observation Salvage Excavation Survey Remote Operated Vehicle Survey Test Pit Survey Open-Area Excavation Salvage Excavation Watching Brief Monument Types/Significant Finds & Their Periods List feature types using the NMR Monument Type Thesaurus and significant finds using the MDA Object type Thesaurus together with their respective periods. If no features/finds were found, please state "none". Monument Period Object Period Settlement Medieval 1066 to 1540 Metalworking debris Medieval 1066 to 1540 Select period Coins Roman 43 to 410 Project Location County Essex Site Address (including postcode if possible) Deanery Hill, Bocking, Braintree, Essex CM7 5SR Parish Bocking, Braintree, Cress HER Essex: Braintree Museum	Project Refe	erence	Codes	<u> </u>								
Type of Project/Techniques Used Prompt Direction from Local Planning Authority - PPS 5 Please select all techniques used: Field Observation (periodic visits) Part Excavation Salvage Record Full Excavation (100%) Part Survey Systematic Field Walking Full Survey Recorded Observation Salvage Record Geophysical Survey Remote Operated Vehicle Survey Test Pit Survey Geophysical Survey Remote Operated Vehicle Survey Test Pit Survey Open-Area Excavation Salvage Excavation Watching Brief Monument Types/Significant Finds & Their Periods List feature types using the NMR Monument Type Thesaurus and significant finds using the MDA Object type Thesaurus together with their respective periods. If no features/finds were found, please state "none". Monument Period Object Period Settlement Medieval 1066 to 1540 Metalworking debris Medieval 1066 to 1540 Select period Coins Medieval 1066 to 1540 Select period Coins Roman 43 to 410 Project Location County Essex Site Address (including postcode if possible) Deanery Hill, Bocking, Braintree, Essex CM7 5SR Parish Bocking, Braintree (Cress Parish Bocking, Braintree, Cress Parish Bocking, Braintree Museum Parish	Sita Cada					Planning App. No.				14681		
Prompt Direction from Local Planning Authority - PPS 5 Please select all techniques used: Field Observation (periodic visits) X Part Excavation Salvage Record Full Excavation (100%) Part Survey Systematic Field Walking Full Excavation (100%) Part Survey Systematic Field Walking Full Survey Recorded Observation X Systematic Metal Detector Survey Geophysical Survey Remote Operated Vehicle Survey Test Pit Survey Qopen-Area Excavation Salvage Excavation X Watching Brief Monument Types/Significant Finds & Their Periods List feature types using the NMR Monument Type Thesaurus and significant finds using the MDA Object type Thesaurus together with their respective periods. If no features/finds were found, please state "none". Monument Period Object Period Settlement Medieval 1066 to 1540 Metalworking debris Medieval 1066 to 1540 Select period Coins Medieval 1066 to 1540 Select period Coins Roman 43 to 410 Project Location County Essex Site Address (including postcode if possible) Deanery Hill, Bocking, Braintree, Essex CM7 5SR Parish Bocking, Braintree, Cress HER Essex; Braintree Museum National Cold Parkenage	HER No.	BOCAW	/14			Related HER/OASIS No			lo.	CRSAW14		
Prompt Direction from Local Planning Authority - PPS 5 Please select all techniques used: Field Observation (periodic visits) X Part Excavation Salvage Record Full Excavation (100%) Part Survey Systematic Field Walking Full Excavation (100%) Part Survey Systematic Field Walking Full Survey Recorded Observation X Systematic Metal Detector Survey Geophysical Survey Remote Operated Vehicle Survey Test Pit Survey Qopen-Area Excavation Salvage Excavation X Watching Brief Monument Types/Significant Finds & Their Periods List feature types using the NMR Monument Type Thesaurus and significant finds using the MDA Object type Thesaurus together with their respective periods. If no features/finds were found, please state "none". Monument Period Object Period Settlement Medieval 1066 to 1540 Metalworking debris Medieval 1066 to 1540 Select period Coins Medieval 1066 to 1540 Select period Coins Roman 43 to 410 Project Location County Essex Site Address (including postcode if possible) Deanery Hill, Bocking, Braintree, Essex CM7 5SR Parish Bocking, Braintree, Cress HER Essex; Braintree Museum National Cold Parkenage	Type of Droi											
Field Observation (periodic visits) X Part Excavation Salvage Record Full Excavation (100%) Part Survey Systematic Field Walking Full Survey X Recorded Observation X Systematic Metal Detector Survey Geophysical Survey Remote Operated Vehicle Survey Test Pit Survey Open-Area Excavation Salvage Excavation X Watching Brief Monument Types/Significant Finds & Their Periods List feature types using the NMR Monument Type Thesaurus and significant finds using the MDA Object type Thesaurus together with their respective periods. If no features/finds were found, please state "none". Monument		ecu rec				g Authority	- PPS 5					
Field Observation (periodic visits) X Part Excavation Salvage Record Full Excavation (100%) Part Survey Systematic Field Walking Full Survey X Recorded Observation X Systematic Metal Detector Survey Geophysical Survey Remote Operated Vehicle Survey Test Pit Survey Open-Area Excavation Salvage Excavation X Watching Brief Monument Types/Significant Finds & Their Periods List feature types using the NMR Monument Type Thesaurus and significant finds using the MDA Object type Thesaurus together with their respective periods. If no features/finds were found, please state "none". Monument												
Full Excavation (100%)	Please sele	ect all	techi	niques	used:							
Full Survey	☐ Field Obser	vation (pe	eriodic v	risits)	▼ Part Excavation					Salvage Record		
Geophysical Survey	Full Excavation (100%)				Part Survey					Systematic Field Walking		
Monument Types/Significant Finds & Their Periods List feature types using the NMR Monument Type Thesaurus and significant finds using the MDA Object type Thesaurus together with their respective periods. If no features/finds were found, please state "none". Monument Period Object Period Settlement Medieval 1066 to 1540 Metalworking debris Medieval 1066 to 1540 Select period Coins Medieval 1066 to 1540 Select period Coins Roman 43 to 410 Project Location County Essex Site Address (including postcode if possible) District Braintree Parish Bocking, Braintree, Cress HER Essex; Braintree Museum	☐ Full Survey				▼ Recorded Observation				×	X Systematic Metal Detector Survey		
Monument Types/Significant Finds & Their Periods List feature types using the NMR Monument Type Thesaurus and significant finds using the MDA Object type Thesaurus together with their respective periods. If no features/finds were found, please state "none". Monument Period Object Period Settlement Medieval 1066 to 1540 Metalworking debris Medieval 1066 to 1540 Select period Coins Medieval 1066 to 1540 Select period Coins Roman 43 to 410 Project Location County Essex Site Address (including postcode if possible) District Braintree Bocking, Braintree, Cress HER Essex; Braintree Museum	Geophysical Survey				Remote Operated Vehicle Survey					Test Pit Survey		
List feature types using the NMR Monument Type Thesaurus and significant finds using the MDA Object type Thesaurus together with their respective periods. If no features/finds were found, please state "none". Monument Period Object Period Settlement Medieval 1066 to 1540 Metalworking debris Medieval 1066 to 1540 Select period Coins Medieval 1066 to 1540 Select period Coins Roman 43 to 410 Project Location County Essex Site Address (including postcode if possible) District Braintree Bocking, Braintree, Cress HER Essex; Braintree Museum	☒ Open-Area Excavation				Salvage Excavation				Σ	▼ Watching Brief		
Settlement Medieval 1066 to 1540 Metalworking debris Medieval 1066 to 1540 Select period Coins Medieval 1066 to 1540 Coins Roman 43 to 410 Project Location County Essex Site Address (including postcode if possible) District Braintree Parish Bocking, Braintree, Cress HER Essex; Braintree Museum National Crid Reference	List feature type	es using t	the NN	IR Mon	ument Type	e Thesa	urus ar	-				
Select period Select period Coins Medieval 1066 to 1540 Roman 43 to 410 Project Location County Essex Site Address (including postcode if possible) District Braintree Parish Bocking, Braintree, Cress HER Essex; Braintree Museum Netional Crid Reference	Monument			Period			Object			ı	Period	
Select period Coins Roman 43 to 410	Settlement			Medieva	al 1066 to 154	-0	Metalworking debris				Medieval 1066 to 1540	
Project Location County				Select p	period		Coins			Medieval 1066 to 1540		
County	Selec			Select p	period		Coins			Roman 43 to 410		
District Braintree Bocking, Braintree, Cress HER Essex; Braintree Museum Notional Crid Reference	Project Lo	ocatio	n									
Parish Bocking, Braintree, Cress HER Essex; Braintree Museum Study Area	County	Essex					Site Address (including postcode if possible)					
HER Essex; Braintree Museum Study Area	District	Braintre	ee			Deanery Hill, Bo			cking, Braintree, Essex CM7 5SR			
Childry Area	Parish	Bocking	g, Brain	tree, Cres	S							
Study Area Cook Area National Grid Reference	HER	Essex;	Essex; Braintree Museum									
2.2km x c.15m	Study Area 2.2km x c.15m					National Grid Refere			ence	TL7590 2538		



Project Origin	nators								
Organisation	OA EAST								
Project Brief Orig	Teresa OConnor								
Project Design O	James Drummond-Murray								
Project Manager	James Drummond-Murray								
Supervisor	Gareth R	Gareth Rees, Michael Green							
Project Archi	ves								
Physical Archive			Digital A	Archive		Paper Archive			
Braintree museum			OA East	t		Braintree museum			
BOCAW14			BOCAW	/14		BOCAW14			
Archive Content	ts/Media								
	Physical Contents	Digital Contents	Paper Contents		Digital Me	dia	Paper Media		
Animal Bones	×				■ Database		Aerial Photos		
Ceramics	×				⋉ GIS		▼ Context Sheet		
Environmental	X				Geophysics		▼ Correspondence		
Glass	×				X Images		Diary		
Human Bones					☐ Illustration	IS	▼ Drawing		
Industrial	\boxtimes				☐ Moving Im	nage	Manuscript		
Leather			☐ X Sprea			eets			
Metal X							Matrices		
		×			▼ Text		Microfilm		
		\boxtimes			☐ Virtual Re	ality	Misc.		
Textiles							Research/Notes		
Wood							Photos		
Worked Bone							× Plans		
Worked Stone/Lithic X						× Report			
None							★ Sections		
Other	Ш	<u> </u>					Survey		
Notes:									



Ordnance Survey. © Crown copyright 2015. All rights reserved. Licence number 0100031673.

Figure 1: Site locations showing archaeological Sites 1 and 2 (black) and pipeline route (red)



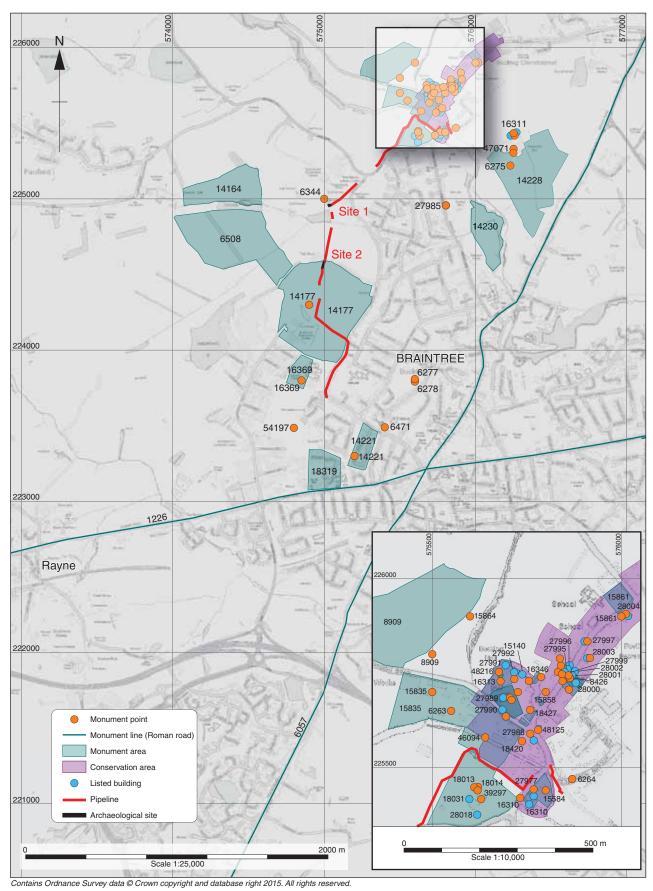


Figure 2: Essex HER entries within 500m of the pipeline easement



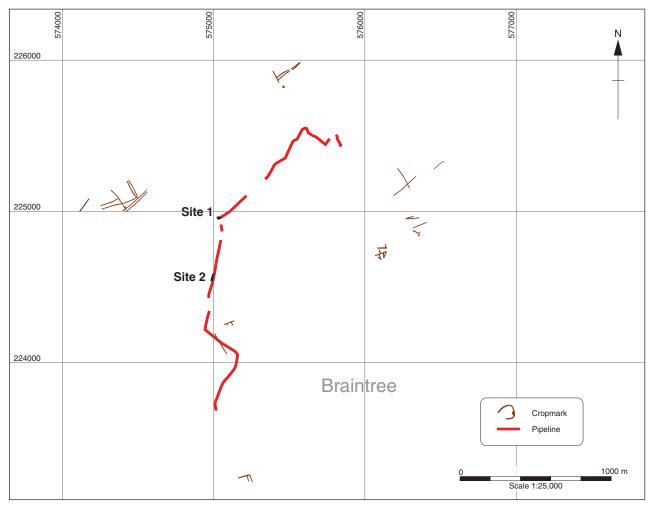


Figure 3: Cropmark sites in the vicinity of the pipeline route



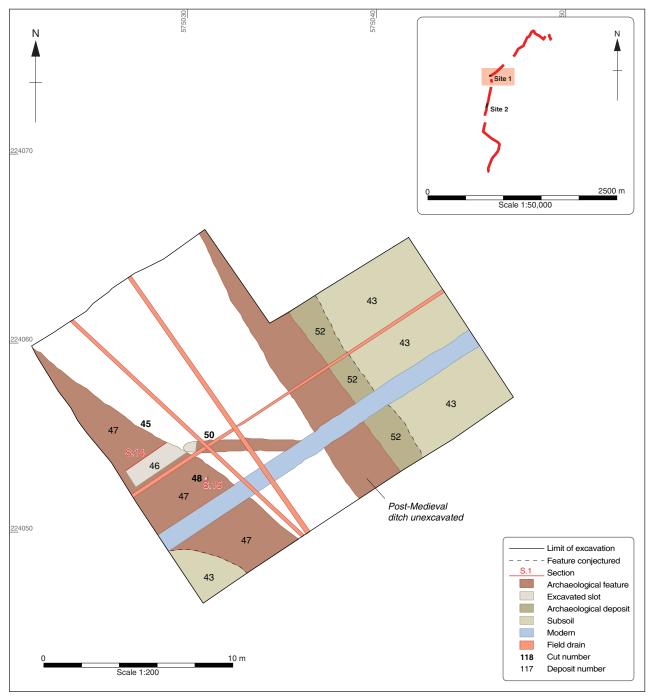


Figure 4: Plan of Site 1, 1000m-1250m chainage

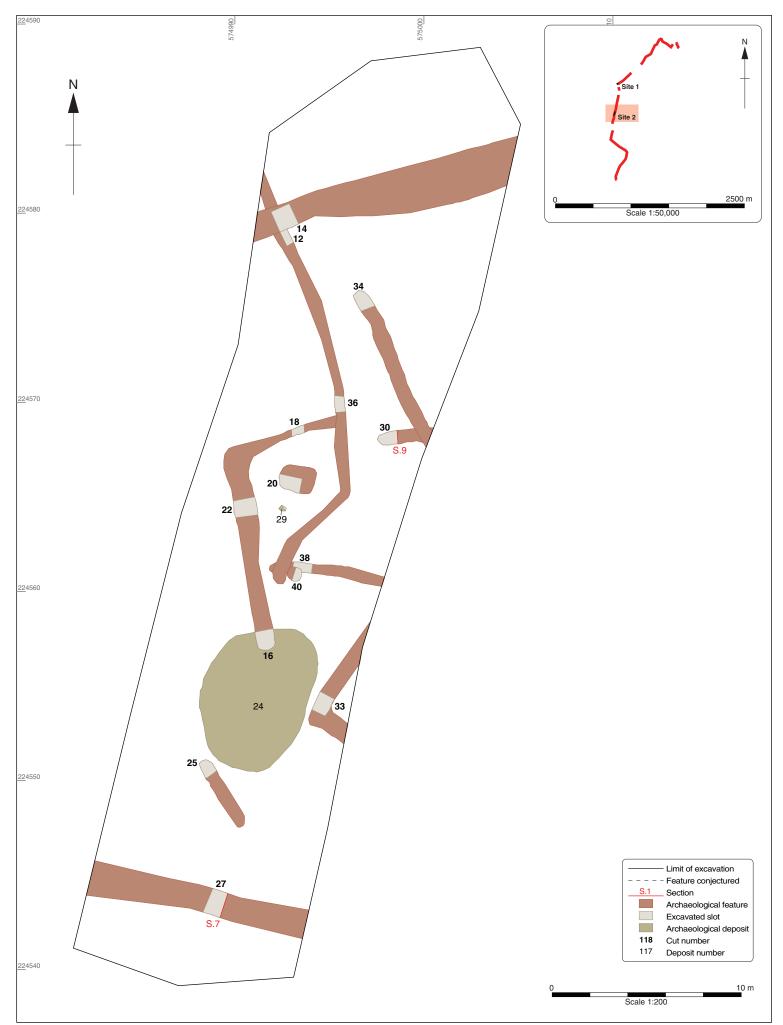


Figure 5: Plan of Site 2, 1550m-1650m chainage



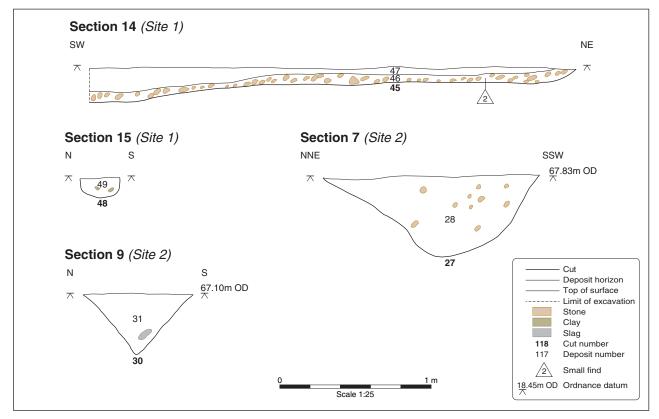


Figure 6: Selected sections





Plate 1: Site conditions between chainage 500m and 750m, facing north-east



Plate 2: Site 1: Cobbled surface 46, facing north





Plate 3: Site 2: Ditch 22, facing south



Plate 4: Site 2: Pit 20, facing north-east





Plate 5: Site 2: Ditch 27, facing east



Head Office/Registered Office/ OA South

Janus House Osney Mead Oxford OX20ES

t: +44(0)1865 263800 f: +44(0)1865 793496

e:info@oxfordarchaeology.com w:http://oxfordarchaeology.com

OA North

Mill3 MoorLane LancasterLA11QD

t:+44(0)1524 541000 f:+44(0)1524 848606 e:oanorth@oxfordarchaeology.com w:http://oxfordarchaeology.com

OA East

15 Trafalgar Way Bar Hill Cambridgeshire CB23 8SQ

t:+44(0)1223 850500 e:oaeast@oxfordarchaeology.com w:http://oxfordarchaeology.com