Land at Moat Farm, Lower Street, Baylham, Suffolk

Planning applications: DC/19/01639

HER Ref: BAY 073

Archaeological Evaluation Report

(© John Newman BA MCIFA, 2 Pearsons Place, Henley, Ipswich, IP6 0RA) (September 2019)

(Tel: 01473 832896 Email: johnnewman2@btinternet.com)

Site details for HER

Name: Land at Moat Farm, Lower Street, Baylham, Suffolk, IP6 8JW

Clients: Mr A Rose

Planning authority: Mid Suffolk DC

Planning application refs: DC/19/01639

Proposed development: Erection of one dwelling

Date of fieldwork: 30 August, 2019

HER ref: BAY 073

OASIS ref: johnnewm1-365111

Grid ref: TM 1084 5258

Development area: c120m²

Recent land use: Rough grassland

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Summary: Baylham, land at Moat Farm, Lower Street (BAY 073, TM 1084 5258) evaluation trenching for a single dwelling development in an area on the sand and gravel terrace of the River Gipping and close to recorded barrow sites did not reveal any archaeological features and the only stray finds were small brick and tile fragments of later Post medieval date (John Newman Archaeological Services for Mr A Rose).

1. Introduction & background

- 1.1 Mr A Rose commissioned John Newman Archaeological Services (JNAS) to undertake the archaeological evaluation works for a single dwelling development that has received consent to go ahead. The evaluation requirements were set by Mr J Rolfe of the Suffolk CC Archaeological Service (SCCAS) with the aim of gaining a representative sample by trial trenching of the planned development area. The Written Schemes of Investigation for this archaeological evaluation (see Appendix II) was subsequently prepared by JNAS to allow the trenching to go ahead. This planned residential development comprises a single dwelling under application DC/19/01639 on land at Moat Farm, Lower Street, Baylham (see Fig. 1).
- 1.2 Baylham parish lies on the western side of the Gipping valley to the north west of Ipswich with lighter well drained soils on the sand and gravel terraces close to the river and heavier boulder clay deposits on the higher ground to the west where the land rises towards the Till dominated plateau of central Suffolk. The main settlement at Baylham is located higher up on the western side of the River Gipping valley at what is known as Upper Street with the proposed development site close to Moat Farm being lower down at the aptly named Lower Street some 1100m north-east of the parish church. Lower Street is also aligned along one of the historic main roads form Ipswich to the north-west long the Gipping valley to central Suffolk and beyond with Lower Street being a hamlet within Baylham parish.
- 1.3 The site is above and to the west of the floodplain of the River Gipping, being c360m west of the river, just above the c15m OD contour and the British Geological Survey describes the local superficial deposits as being well drained river terrace material comprising sand and gravel.
- 1.4 Archaeological interest in this development was generated by its location in an area where aerial photographic evidence has recorded indications of past field systems and ring ditches (HER 003, 004, 0009 & 047, the latter being indicative of a cemetery of Bronze Age date, see Fig. 1).

2. Evaluation methodology

- 2.1 The development area was trenched to a plan agreed with SCCAS (see Fig. 2). The trenching was carried out using a medium sized 360 machine equipped with a 1500mm flat bucket which was under archaeological supervision at all times and any indistinct areas were hand cleaned as necessary to improve clarity with the trench being 1.80m wide.
- 2.2 The sides and base of trench and the upcast spoil were examined visually and scanned with a metal detector for any finds as the evaluation progressed. Site visibility for features and finds is considered to have been good throughout the evaluation which was undertaken under dry weather conditions with any indistinct areas being hand cleaned. At the end of the evaluation the location of the trench was

plotted from nearby mapped features and as the works progressed a full photographic record in digital format (see Appendix I) was taken.

3. Results

3.1 The relevant details for the evaluation trench is summarised in the table below (see also Figs. 2 and Appendix I below):

Orientation	Length (m)	Topsoil depth (mm)	Subsoil depth (mm)	Drift geology	Archaeological/natural features & finds
Northeast- southwest	10	300	300-400 mid brown sandy subsoil	Orange sand with flints	No features and the only stray finds were small brick/tile fragments of recent date
	10 (18m²)	300	300-400		

Table 1: Trench details

- 3.2 As outlined in table 1 above the single trench revealed a 300mm depth of topsoil above 300mm to 400mm of mid brown sandy subsoil giving trench depths of 600mm to 700mm. The underlying natural glaciofluvial deposit was well drained orange sand with flints.
- 3.3 The trench did not reveal any archaeological features and the only stray finds in the upcast spoil were small fragments of brick and tile of later Post medieval date and a few small iron fragments of indeterminate date.

4. Conclusion

- 4.1 With negative results from the evaluation trenching with regard to archaeological deposits of any significance a search from the County Historic Environment Record for local sites and finds was not commissioned though the location of nearby ring ditches was noted from the Suffolk Heritage Explorer part of the Suffolk CC web site (accessed 26 September, 2019, see Fig. 1).
- 4.2 While this small scale planned development is close to where ring ditches indicative of Bronze Age barrow sites have been recorded on aerial photographs on this river terrace close to the River Gipping the evaluation did not reveal any archaeological features and the few stray finds in the upcast were not of any great significance. In all likelihood this site has only seen general agricultural use in the past.
- 4.3 Therefore it is recommended that no further archaeological works should be required at this single dwelling development at Moat Farm, Lower Street, Baylham.

Archive- to be deposited with the Suffolk CC Archaeological Service under the HER ref: WLD BAY 073.

Disclaimer- any opinions regarding the need for further archaeological work in relation to this proposed development are those of the author's alone. Formal comment regarding the need for further work must be sought from the official Archaeological Advisors to the relevant Planning Authority.

(Acknowledgements: JNAS is grateful to every on site for their close cooperation)

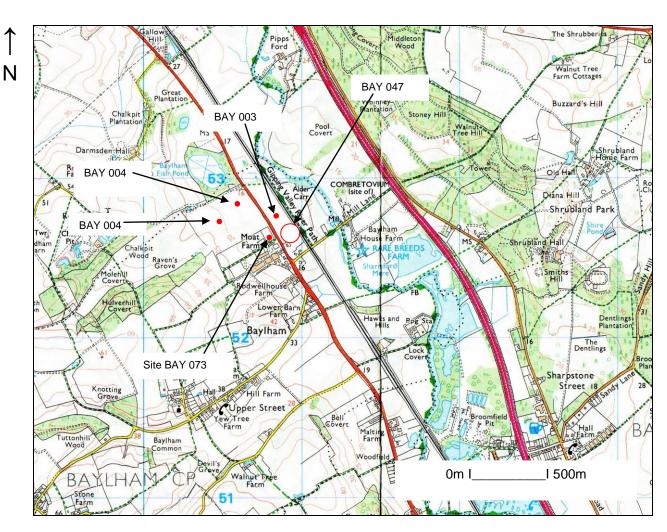


Fig. 1: Site location
(Ordnance Survey © Crown copyright 2006 All rights reserved Licence No 100049722)

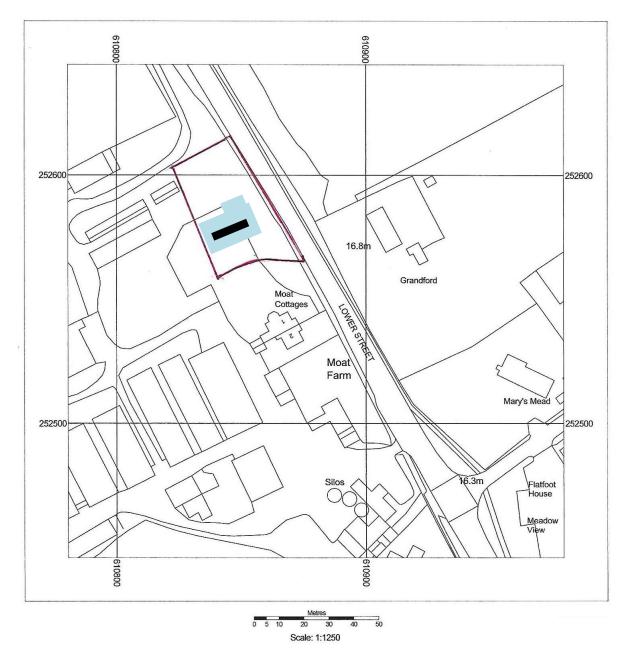


Fig. 2: Location of evaluation trench (Light blue- planned footprint area) (Ordnance Survey © Crown copyright 2019 All rights reserved Licence No 100049722)

Appendix I- Images



General view from southwest



Trench from southwest



Trench deposit profile

Land at Moat Farm, Lower Street, Baylham, Suffolk

Written Scheme of Investigation for Archaeological Evaluation

(Tel: 01473 832896 Email: johnnewman2@btinternet.com)

Site details

Name: Land at Moat Farm, Lower Street, Baylham, Suffolk, IP6 8JW

Client: Mr A Rose

Local planning authority: Mid Suffolk DC

Planning application ref: DC/19/01639

Proposed development: Erection of one dwelling

Proposed date for evaluation: tbc

Brief ref: SCCAS Brief for a Trenched Archaeological Evaluation_small type

Grid ref: TM 1084 5258

Area: Less than 0.1 ha

Current site use: paddock

Contents

1. Introduction

2. Location, Topography & Geology

3. Archaeological & Historical Background

4. Aims of the Site Evaluation

5. Methodology

6. Risk Assessment

7. Specialists

Proposed location of trial trench

1. Introduction

- 1.1 Mr A Rose has commissioned John Newman Archaeological Services (JNAS) to undertake the archaeological site evaluation on a single dwelling development that has received consent to go ahead. This written scheme of investigation (WSI) details the background to the archaeological requirements for planning application DC/19/01639 and how JNAS will implement the requirements of the Brief for Archaeological Evaluation set by Mr J Rolfe of the Suffolk CC Archaeological Service (SCCAS). The WSI will also set out how potential risks will be mitigated. This overall proposed development concerns the construction of a single dwelling on land at Moat Farm, Lower Street, Baylham.
- 1.2 The evaluation will be carried out to the standards set regionally in the *Standards* for *Field Archaeology in the East of England (EAA Occ. Papers 14, 2003),* locally in *Requirements for Trenched Archaeological Evaluation 2012 Ver. 1.3 (Suffolk CC)* and nationally in *Standards and Guidance for Archaeological Field Evaluation (Institute for Archaeologists 1994, revised 2001 & re-issued 2014).*
- 1.3 The evaluation as detailed in this document is the first phase of a programme of archaeological investigation secured by negative condition on planning consent DC/19/01639. Where the results of the evaluation indicate the presence of heritage assets further archaeological works will be required to mitigate the impact of the development on the historic environment. The SCCAS officer will identify the type and extent of works in a new brief necessary to adequately mitigate the impact of the proposed development. All further archaeological works, as recommended by SCCAS, must be undertaken in accordance with an additional WSI, submitted and approved by SCCAS and the LPA. All further archaeological investigations must be undertaken prior to commencement of development, unless specifically referenced as monitoring of groundworks in the approved WSI.

2. Location, Topography & Geology

- 2.1 Baylham parish lies on the western side of the Gipping valley to the north west of Ipswich with lighter soils on the sand and gravel terraces close to the river and heavier boulder clay deposits on the higher ground to the west where the land rises towards the Till dominated plateau of central Suffolk. The main settlement at Baylham is located higher up on the western side of the River Gipping valley at what is known as Upper Street with the proposed development site close to Moat Farm being lower down at the aptly named Lower Street some 1100m north-east of the parish church. Lower Street is also aligned along one of the historic main roads form Ipswich to the south-east long the Gipping valley to central Suffolk and beyond with Lower Street being a hamlet within Baylham parish.
- 2.2 The PDS is above and to the west of the floodplain of the River Gipping, being c360m west of the river, just above the c15m OD contour and the British Geological

Survey describes the local superficial deposits as being well drained river terrace material comprising sand and gravel..

3. Archaeological & Historical Background

3.1 To quote from the relevant Brief 'This site lies in an area of archaeological potential recorded on the County Historic Environment Record, in close proximity to a Bronze Age barrow cemetery (BAY 047) containing the remains of at least eight barrows (BAY 003, 004, 005, 006, 008, 017, 019 and 033). As a result, there is high potential for the discovery of below-ground heritage assets of archaeological importance within this area, and groundworks associated with the development have the potential to damage or destroy any archaeological remains which exist.'

A site evaluation by trial trenching is therefore required to:

- Identify the date, approximate form and purpose of any archaeological deposit, together with its likely extent, localised depth and quality of preservation.
- Evaluate the likely impact of past land uses, and the possible presence of masking colluvial/alluvial deposits.
- Establish the potential for the survival of environmental evidence.
- Provide sufficient information to construct an archaeological conservation strategy, dealing with preservation, the recording of archaeological deposits, working practices, timetables and orders of cost.

4. Aims of the Site Evaluation

4.1 As outlined in section 3 above the archaeological potential of the PDS relates to the site's location close to recorded evidence a Bronze Age barrow cemetery. Therefore evidence for activity of earlier Prehistoric activity can be anticipated. Topographically on the side of a major river valley activity of other periods might be anticipated as the well-drained river terrace areas have attracted settlement and related activities of all periods.

5. Methodology

- 5.1 The proposed development is for the construction of a single dwelling. To inform the results of the evaluation if archaeological deposits are revealed a search will be commissioned from the County HER for the area within 250m of the PDS and the relevant invoice number will be included in the report.
- 5.2 The Brief requires sample trenching which is to be 10m long and 1.8m wide across the area of the development. This will be undertaken using a wide toothless ditching bucket on a suitably sized machine operated by an experienced driver with a trench plan as set out below. The machine will be closely supervised by an

experienced archaeologist as the overburden is removed in shallow spits to the top of any archaeological deposits that are present, where hand investigation will start, or to expose the underlying drift geology which will be further hand cleaned and examined as required. The spoil will be stored adjacent to the excavated trench with top and sub soil kept separate to allow for subsequent sequential backfilling. No trenches will be backfilled until the relevant officer at SCCAS has been consulted and should any modification to the trench layout be required due to any unforeseen circumstances, such as local services, then SCCAS will be contacted immediately. A metal detector search will be carried out by an experienced operator at all stages of the evaluation including before the trenches are opened. The up cast spoil will also be closely examined for unstratified artefacts as evidence for past activity in rural areas in particular is often as evident via artefact scatters as by undisturbed archaeological deposits.

- 5.3 Site records will be made under a continuous and unique numbering system of contexts under an overall HER number obtained from the Suffolk CC HER beforehand in combination with an event number. All contexts will be numbered and finds recorded by context. Conventions compatible with the county HER will be used throughout the monitoring. Site plans will be drawn at 1:20 or 1:50 as appropriate and sections at 1:10 or 1:20 (all on plastic drawing film) and related to OS map cover. Sections will be levelled to a datum OD. A photographic record in high resolution digital images will be made of the site and exposed features.
- 5.4 As necessary and to define archaeological deposits exposed surfaces will be trowelled clean before appropriate hand investigation and recording. Exposed archaeological features will be sampled at standard levels with care being taken to cause minimum disturbance to the site consistent with evaluation to a level adequate to properly form a subsequent mitigation strategy. Significant features such as solid or bonded structural remains, building slots or post holes (where fills are sampled) will have their integrity maintained (and during backfilling). Otherwise for discrete, contained, features, sampling will be at 50%- possibly rising to 100% if requested, and 1m wide sampling slots across linear features. If human burial evidence is revealed the SCCAS Officer will be informed and the clear presumption must be to preserve such remains in situ with minimum disturbance during this evaluation stage. If this is not possible then a Ministry of Justice licence will be obtained prior to full on site recording (total 100% sampling if a cremation deposit) and removal of the remains followed by examination by the relevant specialist and possibly scientific dating. If human remains do have to be recorded, removed from site and reported on then these works will add an additional cost to the evaluation works which may involve radiocarbon dating (in this case the likelihood of revealing human burial evidence is assessed as being medium to low given the nearby evidence for a barrow cemetery but low also given the scale of the planned works).
- 5.5 All finds will be collected and processed unless any variation is agreed with the relevant SCCAS Officer. Finds will be assessed by recognised period specialists and

their interpretation will form an integral part of the overall report. Finds will be stored according to ICON guidelines with specialist advice/treatment sought for fragile ones. Every effort will be made to gain the deposit of the site finds to the SCCAS Store under their relevant HER code and site numbering for future reference. If this is not possible then the SCCAS Officer will be consulted over any requirements for additional recording (which may have an additional cost implication). Any discard policy will be discussed and agreed with the relevant SCCAS Officer and any finds that qualify under the Treasure Act will be reported to the local Finds Liaison Officer within 14 days.

5.6 Where appropriate palaeoenvironmental samples will be taken for processing and assessment by a specialist conversant with regional archaeological standards and research agendas. The sampling, processing and assessment will follow the quidelines as detailed in Environmental Archaeology: A Guide to the Theory and Practice of Methods, from Sampling and Recovery to Post-excavation (English Heritage, 2011). In accordance with standard practice bulk samples of 40 litres (or 100% of the deposit where less) will be taken from a representative cross section of archaeological deposits of all periods (respecting defined fills within features), in consultation with the relevant SCCAS Officer (and the Historic England Regional Scientific Advisor (RSA) if the deposits merit more targeted advice) including deposits that cannot be immediately dated by their artefact content, so the state of preservation and full archaeological and palaeoenvironmental potential of the deposits can be assessed and any further sampling, should further field work take place, be systematically planned and fully costed. Archaeological deposits of all types may reveal valuable data through the processing and assessment of samples with high priority features including the primary fills of pits, wells and cesspits, layers of middens, occupation surfaces and structural features as well as other discrete activity areas, contents of hearths, ovens, and other craft related or industrial structures. In addition more generalised settlement and land use features such as ditches may also yield valuable and informative data when sampling is undertaken systematically as the sum of all the assessment results can add considerably to the interpretation of a site and its landscape. Through an integrated study of all the data recovered from the evaluation the results from the assessment of the samples will be reviewed in terms of:

- What is the quality and state of preservation of charred plant remains, mineralised plant and animal related remains, small vertebrates and industrial residues such as evidence for iron working (contributing to the fullest interpretation of the evaluation results and to aid the planning of any further field work- if any RC dates are required for features containing suitable material but no easily dateable finds then this will incur an additional cost).
- What is the concentration of macro-remains (to inform sampling strategy in any further field work), in particular how might bulk sampling inform the interpretation of burial deposits.

- Can any patterning or similarities/differences be ascertained between deposits from different periods represented on site, similarly can any useful comparisons be made with undated and unphased deposits (to aid interpretation of the evaluation results and help in the study of undated deposits which may otherwise be overlooked and which may via sampling yield material for RC dating)
- Do waterlogged deposits exist on site, if so is there potential for palaeoenvironmental data from preserved insects or pollen and do such deposits contain organic material suitable for RC dating from samples taken as advised by the relevant soil specialist (who would also coordinate the assessment for pollen and insect remains), the RSA will also be consulted in such cases in conjunction with the relevant SCCAS Officer. Incremental column samples will be taken should waterlogged deposits be revealed in close consultation with the evaluation soils specialist with 10-20 litre sample sizes which will be sub-sampled for preserved pollen, insects, diatoms, preserved parasite eggs etc. If waterlogged wood is encountered it will ideal to leave in situ, if it has to be lifted it will be packed while wet in black polythene and stored at 5C until it can be transferred to a specialist for species identification, assessment and potential for RC dating is undertaken (should RC dating be required in the evaluation on such deposits this will incur an additional cost and will take time to obtain, examination of the topographic location of the site indicates that the presence of waterlogged deposits is unlikely unless deep deposits are revealed).
- Deep blanket type deposits resulting from both natural and human derived actions and events can yield valuable land use and palaeoenvironmental information. In particular such deposits can form at the base of a slope, if located in the evaluation the relevant SCCAS Officer and RSA will be consulted over monolith sampling and assessment by the relevant evaluation specialist (the composition of such deposits may give information on past land use in the area through a study of the soil matrix notwithstanding additional data if it is waterlogged)
- 5.7 An archive of all records and finds will be prepared consistent with the principles of *MoRPHE* (and the guidelines in the Archaeological Archives Forum: a guide to best practice 2007). This archive will be deposited with the Suffolk CC HER within 3 months of working finishing on site under the relevant HER number and following the guidelines outlined in '*Archaeological Archives in Suffolk- Guidelines for preparation and deposition*' (SCCAS Conservation Team 2015). As necessary the site digital archive will deposited with the Archaeology Data Service (ADS) within the agreed allowance for the monitoring and reporting works.
- 5.8 The evaluation report will be consistent with the principles of *MoRPHE* and this report will summarise the methodology employed and relate the archaeological

record directly to the aims of this WSI and section 4 above in particular. The report will give an objective account of the deposits and stratigraphy recorded and finds recovered with an inventory of the latter. The report will include an assessment of palaeoenvironmental remains recovered from palaeosols and cut features in relation to both dated and undated features and in terms of patterning across the site.

5.9 Any interpretation of the evaluation will be clearly separated from the objective account of the evaluation and its results and the results will be discussed with the relevant SCCAS Officer at an early stage in the reporting process following reporting on the day of the immediately apparent conclusions. The report will give a clear statement regarding the results of the site evaluation in relation to both the more detailed aims in section 4 above and their significance in the context of local HER records and of the Regional Research Framework (EAA Occ. Papers 3, 8 & 24, 1997, 2000 & 2011). There will be no further work on site until the evaluation results have been assessed and the SCCAS Officer has considered whether further archaeological works are required if this application receives consent. The report may give an opinion regarding the necessity for further evaluation work as appropriate. A draft copy of the report will be presented to SCCAS following completion of the site works. Once accepted a bound hard copy will be provided for the County HER with a digital version on disc. As required the site evaluation will be registered on the OASIS online archaeological record followed by submission of the final draft in .pdf format. An HER summary sheet will be completed and a summary prepared of any positive results for inclusion in the annual PSIAH round-up.

6. Risk Assessment

- 6.1 Protective clothing will be worn on site (hard hat, high visibility vest/coat, steel-toe cap boots, and ear muffs if required). A safe working method will be agreed with the machine operator for excavation of the trenches and examination of the up cast spoil while at the same time allowing efficient use of plant. Suitable clothing will be available to mitigate against extremes of weather.
- 6.2 Vehicles will be safely parked away from work areas and lines of access.
- 6.3 Prior to evaluation work starting on site the client will be consulted with regard to any potential contamination at the site. No overhead services impinge on the trench locations. Gloves and hand wash/wipes be available and any information on possible ground contamination revealed during the evaluation will be passed to finds and environmental specialists.
- 6.4 A fully charged mobile phone will be carried and a first aid kit will be taken to site.
- 6.5 It is unlikely that any trench plus excavated feature depth will go below c1/1.3m from the present ground level. If any excavations need to go deeper measures such as stepping in the sides will be employed.

6.6 JNAS holds full insurance cover for archaeological site works from the specialist provider Towergate Risk Solutions covering Public & Products Liability, details can be supplied on request.

7. Specialists

Conservation: Conservation Services

Faunal remains: J Curl (Sylvanus Archaeology)

Human remains: S Anderson (Freelance)

Metal detecting: J Armes (experienced freelance)

Palaeoenvironmental samples: V Fryer (Freelance)

Soils specialist tbc

Pre-historic flint: S Bates (Freelance)

Pre-historic pottery: S Percival (Freelance)

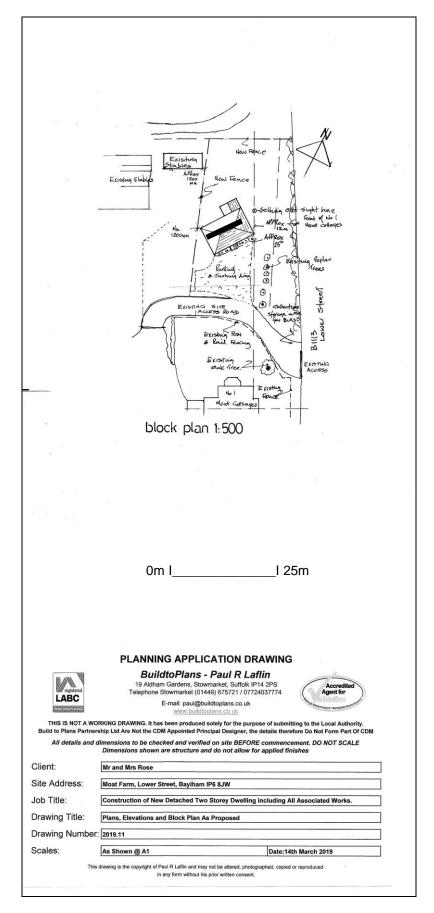
Post Roman ceramics & CBM: S Anderson (Freelance)

Roman period small finds: N Crummy (Freelance)

Roman period ceramics: Colchester Archaeological Trust

Medieval coins: M Allen (Fitzwilliam Museum)

Post Roman small finds: JNAS



Proposed location of trial trench (1 x 10m)

OASIS ID: johnnewm1-365111

Project details

Land at Moat Farm, Lower Street, Baylham, Suffolk-Project name

Archaeological Evaluation Report

Baylham, land at Moat Farm, Lower Street (BAY 073, TM 1084 5258) evaluation trenching for a single dwelling

Short description of

the project

development in an area on the sand and gravel terrace of the River Gipping and close to recorded barrow sites did not reveal any archaeological features and the only stray finds were small brick and tile fragments of later Post medieval

date.

Project dates Start: 30-08-2019 End: 30-08-2019

Previous/future work No / No

Any associated

project reference

BAY 073 - Related HER No.

codes

Any associated

project reference

DC/19/01639 - Planning Application No.

codes

Type of project Field evaluation

Site status None

Current Land use Grassland Heathland 3 - Disturbed

NONE None Monument type

NONE None Significant Finds

Methods & techniques

""Sample Trenches""

Development type Small-scale (e.g. single house, etc.)

Prompt Planning condition

Position in the

planning process

After full determination (eg. As a condition)

Project location

Country **England**

SUFFOLK MID SUFFOLK BAYLHAM LAND AT MOAT FARM, Site location

LOWER STREET

Postcode IP68JW

Study area 200 Square metres

TM 1084 5258 52.130715253529 1.080856988254 52 07 50 Site coordinates

N 001 04 51 E Point

Height OD / Depth Min: 15m Max: 16m Project creators

Name of

Organisation

John Newman Archaeological Services

Project brief

Local Authority Archaeologist and/or Planning

originator

Authority/advisory body

Project design originator

John Newman

Project

director/manager

John Newman

Project supervisor

John Newman

Type of

sponsor/funding

Landowner

body

Project archives

Physical Archive

Exists?

No

Digital Archive

recipient

Suffolk CC Archaeological Service

Digital Contents

"none"

Digital Media

available

"Images raster / digital photography", "Text"

Paper Archive

recipient

Suffolk CC Archaeological Service

Paper Contents

"none"

Paper Media available

"Report"

Project bibliography

Publication type

Grey literature (unpublished document/manuscript)

Title

Land at Moat Farm, Lower Street, Baylham, Suffolk-

Archaeological Evaluation Report

Author(s)/Editor(s)

Newman, J

Date

2019

Issuer or publisher

John Newman Archaeological Services

Place of issue or

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Description

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Entered by

John Newman (johnnewman2@btinternet.com)

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