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Site & Landscape Survey

Geophysical Survey

**North End, Burgh-by-Sands, Cumbria**

**Archaeological Watching Brief**

**Report No. 3279**

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**North End, Burgh-by-Sands, Cumbria**

**Archaeological Watching Brief**

**Report No. 3279**

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# **1 INTRODUCTION**

## **1.1 General**

This report presents the results of an archaeological watching brief undertaken by CFA Archaeology Ltd (CFA) in March 2015 on the site of a proposed residential development at North End, Burgh-by-Sands, Cumbria (NGR: NY 32715 59221, centred) (Fig. 1). The work was commissioned by Jamie Robinson.

A Written Scheme of Investigation (WSI) dated 09 February 2015 covering this programme of works was produced by CFA on behalf of Jamie Robinson. The WSI was based upon consultation with Cumbria County Council Historic Environment Team (CCCHET).

## **1.2 Background**

The village of Burgh-by-Sands straddles the line of Hadrian's wall (SAM 26116) and Vallum (SAM 5782). The site of the Roman Fort of *Aballava* (Burgh II) lies at the eastern end of the village (Burgh Head) and two further forts (Burgh I and III) have been identified from aerial photographs in close proximity to the village

The development site at North End lies c.80m to the west of *Aballava* Roman Fort and is c.50m to the north of Hadrian's Wall. It lies within a landscape of high significance, within a designated conservation area and also within the Hadrian's Wall World Heritage Site.

Cumbria Historic Environment Record does not hold any records of sites within the proposed development area but a number of important sites of Roman, medieval and post-medieval date lie in the immediate vicinity.

CFA conducted a desk-based assessment and evaluation of the development site in 2009, which was produced under separate cover (Suddaby 2009).

## **1.3 Objectives**

The objectives were:

- to establish the presence/absence, extent, condition, character, quality and date of any archaeological features or deposits within the proposed development area which are liable to be threatened by the development.

## **2. WORKING METHODS**

### **2.1 General**

CFA Archaeology Ltd follows the Chartered Institute for Archaeologists' Code of Conduct, Standards and Guidance for Archaeological Fieldwork. Recording of all elements followed established CFA methods.

### **2.2 Watching Brief**

Topsoil was removed by a tracked 360° mechanical excavator, equipped with a smooth-bladed ditching bucket. All groundbreaking work was carried out under constant archaeological supervision. Any further excavation required to fulfil the objectives of the evaluation was carried out by hand.

The development area totalled approximately 340m<sup>2</sup> (Fig. 2). Trench position and feature locations were surveyed using industry standard electronic surveying equipment.

The stratification of all excavated areas was recorded whether or not significant archaeological deposits were identified. Sample excavation took place of all of the features, in the order of 50% of discrete features and 10% of linear features.

## **3. ARCHAEOLOGICAL RESULTS**

### **3.1 General**

Numbers in bold refer to contexts, a full list of which is contained in Appendix 2.

The deposits throughout the proposed development area consisted of between 0.3m and 0.8m of dark brown silty topsoil (**016**) overlying mid-brown silty clay (**017**), which ranged in depth between 0.2m and 0.5m. The natural geology consisted of orange-pink sandy clay with numerous sub-rounded stone inclusions

An area of modern disturbance was recorded in the north-east of the development footprint; this consisted of a large shallow pit filled with broken flower pots and is likely a shallow pit dug to bury modern rubbish.

A plastic sump pipe was recorded in the eastern corner of the trench and this was left in situ above the archaeological feature beneath as it appeared to be active.

An area of modern disturbance was also recorded at the southernmost edge of the development footprint. This consisted of an area of mixed sandy silt containing fragments of modern ceramics and sandstone rubble (**012**). A fragment of wall (**020**) was recorded, one course high, along with parts of two drains. This material probably derives from the demolition of a lean to shed and garage which were present on the site during the 2009 evaluation and since demolished (Suddaby 2009).

## 3.2 Archaeological Features

### *Feature 001 (Fig. 1)*

Pit **001** was an oval pit, aligned approximately north to south, which had gently sloping sides and a concave base. It measured 1.2m by 0.8m, surviving to a depth of 0.15m. The pit contained a single fill of dark brown/grey silty sand with small rounded stone inclusions (**010**). It was sealed by approximately 0.75m of topsoil and subsoil.

### *Feature 002 (Fig. 1 & 3)*

Feature **002** was linear in form. However, only 4.2m of the feature was exposed within the building footprint and it was not possible to ascertain its complete dimensions. The feature was aligned north-west to south-east and measured 4.2m in length, approximately 1m in width, and survived to a depth of 0.25m (maximum). It had moderately sloping sides and a concave base. The feature contained a grey/mid-brown sandy silt primary fill with small, sub-rounded stone inclusions (**011**) and a mixed orange/brown sandy clay secondary fill (**047**). The feature was sealed below approximately 0.75-0.85m of topsoil (**016**) and subsoil (**017**). The feature had been cut by the large pit **003**.

### *Feature 003 (Figs. 1 & 4)*

A sub-rectangular pit (**003**) was aligned north-east to south-west and had moderately sloping sides and a flat base. It measured approximately 4.5m by 2.2m and survived to a depth of 0.9m. The orange/brown clayey sand fills (**045 & 046**) formed a thin lens along the base of the pit along with dark brown silty sand (**044**). These were overlain by dark brown sandy silt fills (**033 & 043**) and a pinkish-orange re-deposited sandy clay (**041**). The upper two fills consisted of brownish pink re-deposited subsoil (**039**) overlying brown sandy silt (**040**). The pit had been cut through the subsoil (**017**) at a depth of 0.25m-0.3m from the surface. This feature had also cut **002**.

This pit is equivalent to feature 009 from the evaluation, which was thought to be a linear ditch.

### *Feature 004 (Figs. 1, 5 & 6)*

Feature **004** was a sub-rectangular pit was aligned north-west to south-east with steeply sloping sides and a flat base. The pit measured 5m by 1m and survived to a depth of approximately 0.4m. The base of the pit sloped down slightly from south-east to north-west. The pit contained an orangey brown fine sandy clay basal fill (**030**) overlain by a mid-brown sandy clay (**012**).

### *Feature 005 (Figs. 1 & 7)*

An L-shaped pit was recorded, which had the longest part aligned north-west to south-east (**005**). Very little of the southern part of the pit remained as it had been truncated by modern disturbance. However, enough of the northern part remained to provide the dimensions. The pit measured 3.4m north-east to south-west and 2.8m north-west to

south-east. It had near-vertical sides on the north and a flat base. The fills consisted of mid-brown clayey sand (**024**) underlying a thin layer of mixed orange/brown sandy clay re-deposited subsoil (**023**) and a mid-dark brown sandy clay upper fill (**013**).

*Feature 006 (Figs. 1 & 8)*

A sub-oval pit (**006**) was aligned north-east to south-west. It had a steeply sloping north-western edge and a vertical south-eastern edge and a slightly south-east sloping base. The pit measured 1.8m by 1.2m and survived to a depth of 0.35m. The pit contained a single, mid-grey/brown, soft sandy clay (**026**). There was mixed orange/brown re-deposited subsoil overlying the feature.

This pit is equivalent to feature 007 recorded during the evaluation.

*Feature 007*

Feature **007** after excavation turned out to be a very thin deposit of subsoil which may have been the remnants of the evaluation trench backfill.

*Feature 008 (Figs. 1 & 9)*

Feature **008** was an L-shaped ditch aligned north-east to south-west for 5m and turning north-north-west to south-south-east for 8m. Nearly all of the north-east to south-west part of the ditch had been truncated by an area of modern disturbance. The ditch measured 1.5m in width and survived to a depth 0.9m. The ditch had been cut into the natural (**018**) and was under approximately 0.2m of topsoil. It contained a mid-brown/grey sandy clay basal fill (**027**), a thin layer of mixed orange/brown re-deposited sandy clay (**028**), and a mid-brown/grey silty sand secondary fill (**014**).

A second section was excavated on the north-north-east to south-south-west section of the ditch but waterlogging prevented reaching any great depth. However, the basal fill on this section consisted of mid/dark brown silty sand with a high concentration of medium, angular and sub-angular stone inclusions (**042**).

This feature is equivalent to feature 005 recorded during the evaluation, with the curved northern part of feature 005 being the corner of ditch **008**.

*Feature 009 (Figs. 1 & 10)*

A sub-rectangular pit (**009**), which was aligned north-north-east to south-south-west, measured 5.55m by 4m and survived to a depth of 0.25m. The pit continued to the south beyond the limit of excavation. The pit had been cut into the natural. The pit contained 0.05-0.1m of a black/grey mottled sandy clay basal fill (**029**) overlain by c.0.25m of a dark grey/brown sticky, sandy clay secondary fill (**015**).

*Feature 050 (Figs. 1 & 4)*

Feature **050** was a small pit which was orientated north-west to south-east. The limits of the pit were difficult to define as the two fills were practically indistinguishable but were clearer in the section. The pit measured 0.7m in width and approximately 2.5m

long, and survived to a depth of 0.3m. It contained a mid brown sandy clay fill (049). The pit was cut by pit 002 and sealed by 017.

### **3.2 Finds by Christina Hills**

One clay pipe was recovered on site from the fill (014) of linear feature 008. The pipe is in relatively good condition with the bowl and a length of stem surviving; the bowl has decoration around the rim and the stem has a stamp just visible.

## **4. CONCLUSIONS**

An archaeological watching brief was carried out at land on the site of a residential development at North End, Burgh-by-Sands. The previous desk-based assessment (Suddaby 2009) indicated that the site lies to the north of Hadrian's Wall and to the west of Aballava Roman Fort.

A number of features were excavated and recorded. Eight pits of varying sizes and an L-shaped ditch were identified during the watching brief. These were sample excavated but the lack of finds means it is impossible to be definite about their date or function. However, the possibility remains that these features are Roman in date. None of the features appeared to be robust enough to be associated with a military function and are far more likely to be associated with agricultural activity.

The results of the watching brief place these remains to the front of Hadrian's Wall. However, there is evidence to the east of the fort (*Aballava*) that the line was moved northwards (Breeze 2006). No evidence survives to suggest this is the case to the west of the fort. Indeed evidence to the west of the proposed development site indicates that the later Wall was built directly over the earlier Wall (Austen 1994). It is therefore unlikely that this area ever lay behind the Wall.

The close spacing of the pit and ditch features is similar to those recorded at Lamonby Farm (Suddaby & Glendinning 2007), which were all on a similar but slightly divergent alignment to the proposed alignment of the Wall, although many more finds were recovered at Lamonby Farm.

The project archive, comprising all CFA record sheets, maps and reports will be deposited with Tullie House, Cumbria.



## 5. REFERENCES

Austen, P J 1994 *Recent Excavations on Hadrian's Wall, Burgh-by-Sands*. TCWAAS Vol 94

Breeze, D. J. 2006, *Handbook to the Roman Wall, 14<sup>th</sup> Edition*. Society of Antiquaries of Newcastle upon Tyne.

Suddaby, I & Glendinning, B. 2007, *Buckbottom Farm, Burgh-by-Sands, Carlisle, Cumbria, Archaeological Evaluation*, CFA Archaeology Report No. 1233.

Suddaby, I. 2009, *North End, Burgh-by-Sands, Cumbria. Archaeological Desk-Based Assessment & Evaluation*. CFA Archaeology Report No. 1707.

## APPENDIX 1: Photographic Register

Shot No.	Summary description of subject	Taken from	Conditions
1	Site pre-ex	N	Overcast
2	Site pre-ex	S	Overcast
3	Pit 001	N	Overcast
4	Linear 002	S	Overcast
5	Feature 003	S	Overcast
6	Linear 004	S	Overcast
7	Kidney shaped feature 005	W	Overcast
8	Pit 006 showing eval trench	W	Overcast
9	Pit 007 - upon investigation found to be not real	S	Overcast
10	Linear 008	S	Overcast
11	Rectangular feature 009 with sump disturbance	S	Overcast
12	S-facing section of 001	S	Overcast
13	S-facing section of 002	S	Overcast
14	S-facing section of 004	S	Overcast
15	S-facing section of 005	S	Overcast
16	W-facing section of 008	W	Overcast
17	N+E-facing sections through 009	NE	Overcast
18	019, 020, and 021 from the west	W	Strong sunlight
19	S-facing section through 004	S	Strong sunlight
20	019-021 from the west	W	Strong sunlight
21	019-021 from the south	S	Bright
22	019-021 from the west	W	Bright
23	019 to 021 detail shot	W	Overcast
24	Wall 022 in limit of excavation (LOE) section	N	Overcast
25-27	Waterlogged conditions upon arrival for excavation 17/3/15	Various	Overcast
28-30	Working shots during site cleaning 17/3/15	Various	Overcast
31-32	NE-facing section of pit 005	NE	Bright
33	General shot of pit 005 post-section	NE	Bright
34	NNE-facing section of pit 006	NNE	Bright
35	General shot of pit 006 post-section	NNE	Bright
36	NE-facing section of pit 005 (truncated)	NE	Bright
37	NE-facing shot of pit 005 showing truncation	NE	Bright
38	SW-facing section of pit 005 truncated	SW	Bright
39	SW-facing shot of pit 005 showing truncation	SW	Bright
40	NNW-facing section of pit 005 truncated	NNW	Bright
41	NNW-facing section of pit 005 general shot showing truncation	NNW	Bright
42	General shot of pit 005 showing modern truncation	W	Bright
43	SSW-facing section of pit 005 showing modern truncation	SSW	Bright
44-45	W-facing section/soil profile of ditch 008	E	Bright
46	E-facing (truncated) section of ditch 008	W	Bright
47-48	General shots of ditch 008 showing truncation	W	Bright
49	NE-facing section of NE quadrant of rectangular feature 009	NE	Bright
50	NW-facing section of NW quadrant of rectangular feature 009	NW	Bright
51	Close-up shot of meeting point between NE+NW sections of NE quadrant of rectangular feature of 009	NE	Bright
52	SE-facing section of SW quadrant of rectangular feature 009	SE	Bright

Shot No.	Summary description of subject	Taken from	Conditions
53	SW-facing section of SW-quadrant of rectangular feature 009	SW	Bright
54	NW-facing section/soil profile of SW quadrant of rectangular feature 009	NW	Bright
55	General shot of pit 005 half excavated	N	Bright
56	General shot of pit 005 half excavated	S	Bright
57	SW-facing longitudinal section at S-terminus of ditch 004	SW	Overcast
58	SE-facing section at S-terminus of ditch 004	SE	Overcast
59	General shot of 1/2 sectioned terminus at S end of ditch 004	SE	Overcast
60	SE-facing section of ditch 004	SE	Overcast
61	NE-facing longitudinal section of ditch 004 at N terminus	N	Overcast
62	NE-facing section of linear 002	NE	Overcast
63-64	Linear feature 004 general post-ex	SE	Overcast
65	N-facing section of 008	N	Overcast
66-67	NW-facing section of pit 001	NW	Overcast
68	SW-facing section of pit 003	SW	Overcast
69-74	South-south-east facing section of pits 002, 003, 050 W->E	SSE	Overcast

## APPENDIX 2: Context Register

Context no.	Fill of	Description
001		Cut for pit
002		Cut for pit/linear
003		Cut for pit/linear
004		Cut for linear feature
005		Cut for kidney shaped feature
006		Cut for pit
007		VOID
008		Cut for linear feature
009		Cut for large rectangular feature
010	001	Dark brown/grey silty sand fill of 001
011	002	Brown grey silty sand upper fill of 002
012	004	Mid brown sandy clay fill of 004
013	005	Fill of 005
014	008	Mid brown/grey silty sand fill of 008
015	009	Dark grey/brown sticky sandy clay upper fill of 009
016		Topsoil
017		Subsoil
018		Natural
019		Disturbed area on south side of site
020		Stone blocks with mortar
021		Stone floor tiles
022		Brick wall, 5 courses high seen in trench section
023	005	Thin lens of re-deposited/slumped subsoil
024	005	Basal fill of kidney shaped pit - mid brown clay/sand
025	005	Slumped natural - basal fill of pit 005
026	006	Mid grey soft clay/gravel with clumps of re-deposited natural
027	008	Mid-brown/grey silty/sandy clay basal fill
028	008	Lens of re-deposited natural red-brown clay
029	009	Black/grey mottled smooth sandy clay basal fill of pit 009
030	004	Orangey brown fine sandy clay basal fill of ditch 004

Context no.	Fill of	Description
031	002	Red-brown re-deposited clay basal fill of 002
032	001	Brown -red sandy basal fill of 001 - possibly re-deposited natural or silting up
033	003	Grey/brown silty sand main fill of 003
034	003	Grey silty sand with dark grey lenses - basal fill
035	003	Re-deposited natural overlying pit 003
036	003	Backfill from evaluation trench in pit 003
037		VOID
038		Black/dark grey ashy gravel levelling material
039	003	Mixed pinkish/orange/brown sandy clay
040	003	Brown sandy silt
041	003	Pinkish orange sandy clay
042	008	Brown sandy clay with high volume of angular stone inclusions.
043	003	Grey/brown silty sand
044	003	Black/dark brown sandy silt re-deposited topsoil
045	003	Same as (034) grey/black silty sand
046	003	Grey/black silty sand
047	002	Mixed orange/brown sandy clay
048	050	Pocket of orange/brown sandy clay
049	050	Mid-brown sandy clay
050		Cut for small pit
051		Dark brown sandy silt

### APPENDIX 3: Drawings Register

Dwg No.	Sheet No.	Scale	Plan / Section	Description/contexts
1	1	1:10	Section	S-facing section through 001
2	1	1:10	Section	S-facing section through 002
3	1	1:10	Section	S-facing section through 004
4	1	1:10	Section	S-facing section through 005
5	1	1:10	Section	W-facing section through 008
6	1	1:10	Section	N-facing section through 009
7	1	1:10	Section	E-facing section through 009
8	2	1:100	Plan	Site plan
9	3	1:10	Section	NE-facing section of pit 005
10	4	1:10	Section	NNE-facing section of pit 006
11	3	1:10	Section	NNW-facing section of pit 005 showing modern truncation of pit
12	3	1:20	Section	Plan of pit 005 showing modern truncation area
13	3	1:20	Section	W-facing section/soil profile on ditch 008
14	4	1:10	Section	NE-facing section of rectangular pit 009 - quadrant 1
15	4	1:10	Section	SE-facing section of rectangular pit 009 - quadrant 2
16	3	1:10	Section	SW-facing section of ditch 004 at S-terminus
17	3	1:10	Section	SE-facing section of ditch 004
18	4	1:10	Section	NE-facing section of ditch 004 at northern terminus
19	4	1:10	Section	NE-facing longitudinal section of ditch 002 at terminus
20	4	1:10	Section	NW-facing section of small pit 001
21	6	1:10	Section	SW-facing section of pit 003
22	5	1:20	Section	S-facing section/soil profile of ditches 002 and 003 in LOE

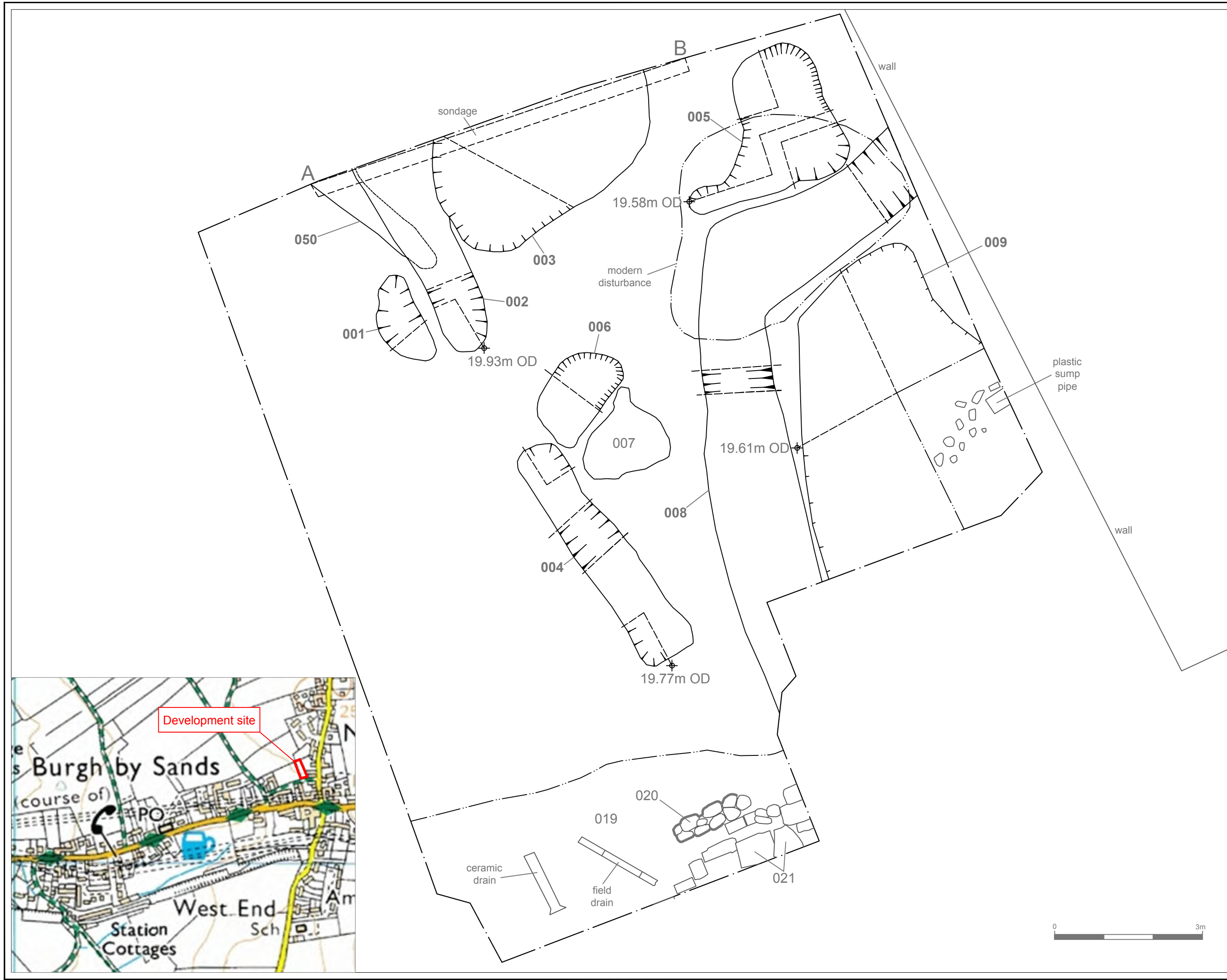
<b>Dwg No.</b>	<b>Sheet No.</b>	<b>Scale</b>	<b>Plan / Section</b>	<b>Description/contexts</b>
23	6	1:20	Plan	Plan of ditch 004 showing sections
24	6	1:20	Plan	Plan of pit 006 post-section
25	6	1:20	Plan	plan of pit 001 post-section

#### **APPENDIX 4: Sample Register**

<b>Sample No.</b>	<b>Context</b>	<b>Feature</b>	<b>Sample type</b>	<b>Volume</b>
1	024	5	Bulk	10l
2	026	6	Bulk	10l
3	027	8	Bulk	10l
4	029	9	Bulk	10l
5	012	4	Bulk	10l
6	011	2	Bulk	10l
7	043	3	Bulk	10l

#### **APPENDIX 5: Finds Register**

<b>SF no</b>	<b>Context</b>	<b>No</b>	<b>Weight (g)</b>	<b>Find Type</b>
1	014	1	18	Clay pipe, bowl and stem





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Fig. No:	1	Report No:	3279
Title: Location plan and site plan			
Project: North End, Burgh by Sands, near Carlisle, Archaeological Watching Brief			
Client: Jamie Robinson			
Scale at A3: 1:70			
Drawn by:	GC	Checked:	SW
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Fig. 2 General shot of site

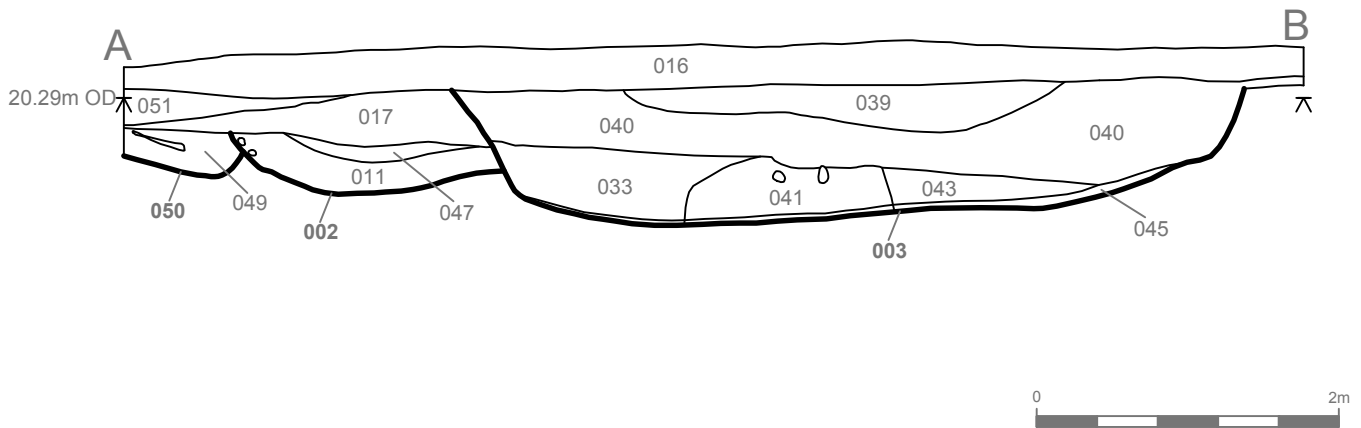


Fig. 3 North-east facing section of terminus of 002



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Title:	Fig. 2 - 3	Report: 3279	Drawn: GC	CKD: LW	Date: 09/04/15
Project: North End, Burgh-by-Sands, near Carlisle, Archaeological Excavation					
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Title:  
**South-facing section of pits 050, 003  
and 002**

Project:  
**North End, Burgh by Sands, near  
Carlisle, Archaeological Watching Brief**

Fig No:	4	Report:	3279	Drawn by:	GC	CKD:	SW	Date:	08/04/14
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Fig. 5 South-west facing section of terminus of 004

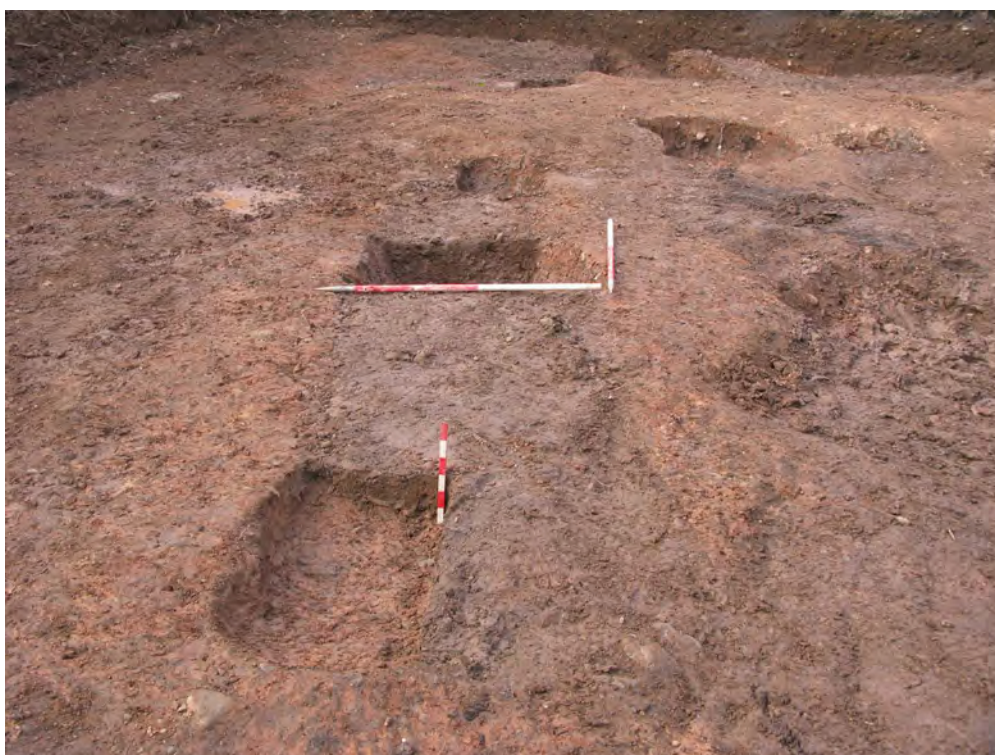


Fig. 6 General, post-excitation view of 004



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Fig. 7 North-east facing section of pit 005



Fig. 8 North-north-east facing section of pit 006



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Fig. 9 West-facing section of ditch 008



Fig. 10 General view of excavated quadrants of 009



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Title:	Fig. 9 - 10	Report: 3279	Drawn: GC	CKD: LW	Date: 09/04/15
Client: Jamie Robinson					
Project: North End, Burgh-by-Sands, near Carlisle, Archaeological Watching Brief					



Fig. 11 North-facing section 009



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