

SPIRIT OF SUTTERBY PROJECT
Report on an Archaeological Excavation at Sutterby Church
23rd - 30th May 2015

APPENDICES

CONTEXT LIST SUT15

Context No.	Trench No.	Date Issued	Description
001	1	23/5/15	De-turfing (no sieving) and cleaning surface (sieved)
002	1	23/5/15	Finds from old spoil heap (sieved)
003	2	23/5/15	De-turfing (no sieving) and cleaning surface (sieved)
004	1	23/5/15	First 3" spit
005	2	23/5/15	First 3" spit
006	1	24/5/15	Second spit strip F
007	1	24/5/15	Second spit strip E
008	1	24/5/15	Second spit strip D
009	1	24/5/15	Second spit strip C
010	2	24/5/15	Second spit strip B
011	2	24/5/15	Second spit strip A
012	1	24/5/15	Cleaning ALL trench 1 after spit removed
013	1	24/5/15	3" spit West of foundation (Outside)
014	1	24/5/15	Ashy deposit - end of 2nd spit - over brown deposit [018]
015	1	24/5/15	beneath second spit - over brown deposit [018]?
016	1	25/5/15	southern strip outside wall (in F)
017	2	25/5/15	All of trench 2 in levelling exercise
018	1	25/5/15	Brown soil
019	2	25/5/15	3" Spit outside (to west of) of wall
020	2	25/5/15	3" Spit outside (to north of) of wall (dug 26/5/15)
021	2	25/5/15	Rubble core and robber trench (pipe)
022	2	25/5/15	East of drainpipe - inside corner of church
023	1	25/5/15	Limestone piece from tumble in Tr 1 (robber pit)
024	1	25/5/15	Brick piece from tumble in Tr 1 (robber pit)
025	1	25/5/15	cleaning rubble core of south wall
026	1	25/5/15	3" spit outside church
027	1	25/5/15	3" spit inside the church
028	1	26/5/15	cleaning - under [027] inside church
029	1	26/5/15	levelling and cleaning outside church under [026]
030	1	26/5/15	cleaning rubble fill of wall
031	2	26/5/15	3" spit outside church (to west) under [019]
032	1	26/5/15	Test pit (inside church)
033	1	26/5/15	N of test pit - poss floor
034	1	26/5/15	S of test pit - poss floor
035	1	27/5/15	Under [033] - inside church - N
036	1	27/5/15	Under [034] - inside church - S
037	1	27/5/15	Next 3" spit outside (W) church - under [029]
038	2	27/5/15	under [031] outside church
039	1	27/5/15	Fill of poss foundation trench in/under [035]
040	2	27/5/15	Triangular area south of pipe - under [022]
041	1	27/5/15	under [035] more floor make up layers (no finds)
042	1	27/5/15	new excavation around SW corner of church
043	1	27/5/15	chalky layer in/under [041]
044	1	27/5/15	Layer below [043] - floor make up
045	1	27/5/15	finds from cleaning wall top and rubble fill in Tr 1
046	2	28/5/15	3" spit outside church- under [038]

047	1	28/5/15	Section cleaning on east section (inside church) (unstrat mix)
048	1	28/5/15	3" spit outside (W) church below [037]
049	1	28/5/15	Big spit inside church - under [044]
050	2	29/5/15	3" spit outside church - under [046]
051	1	29/5/15	Robber trench on west wall - cleaning out
052	1	29/5/15	Possible foundation trench by cornerstone (see p.34)
053	1	29/5/15	Prob same as [048] - finishing spit along S outside wall (no finds)
054	1	29/5/15	New cut to examine footings at centre of existing church wall (unstrat mix)
055	2	30/6/15	Bone sample from left femur of inhumation for C14

CONTEXT GROUPS

Topsoil Contexts:	[001], [002], [003], [004], [005], [006], [007], [008], [009], [010], [011], [012], [017]
In/On Ph. 4 wall	[021], [025], [030], [045], [051]
Outside Ph. 4 wall	[013], [016], [019], [020], [026], [029], [031], [037], [038], [046], [048], [050], [053],
Inside Ph. 4 wall	[014], [015], [018], [022], [027], [028] [032], [033], [034], [035], [036], [039], [040], [041]
Below Ph. 4 floor	[043], [044], [049], [052]
Mixed/unstrat contexts	[042], [047], [054]
Finds contexts	[023], [024], [055]



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RADIOCARBON DATING CERTIFICATE

12 August 2015

Laboratory Code	SUERC-61761 (GU38209)
Submitter	David Start Spirit of Sutterby Project The Rise, Valley Lane Swaby Alford Lincs LN13 0BH
Site Reference	SUTTERBY (SUT15)
Context Reference	SUT 15 050
Sample Reference	SUT15 055
Material	Human : Femur
$\delta^{13}\text{C}$ relative to VPDB	-20.3 ‰
$\delta^{15}\text{N}$ relative to air	9.7 ‰
C/N ratio (Molar)	3.2
Radiocarbon Age BP	892 \pm 34

N.B. The above ^{14}C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- *E Dunbar*

Date :- 12/08/2015

Checked and signed off by :- *P. Nayant*

Date :- 12/08/2015



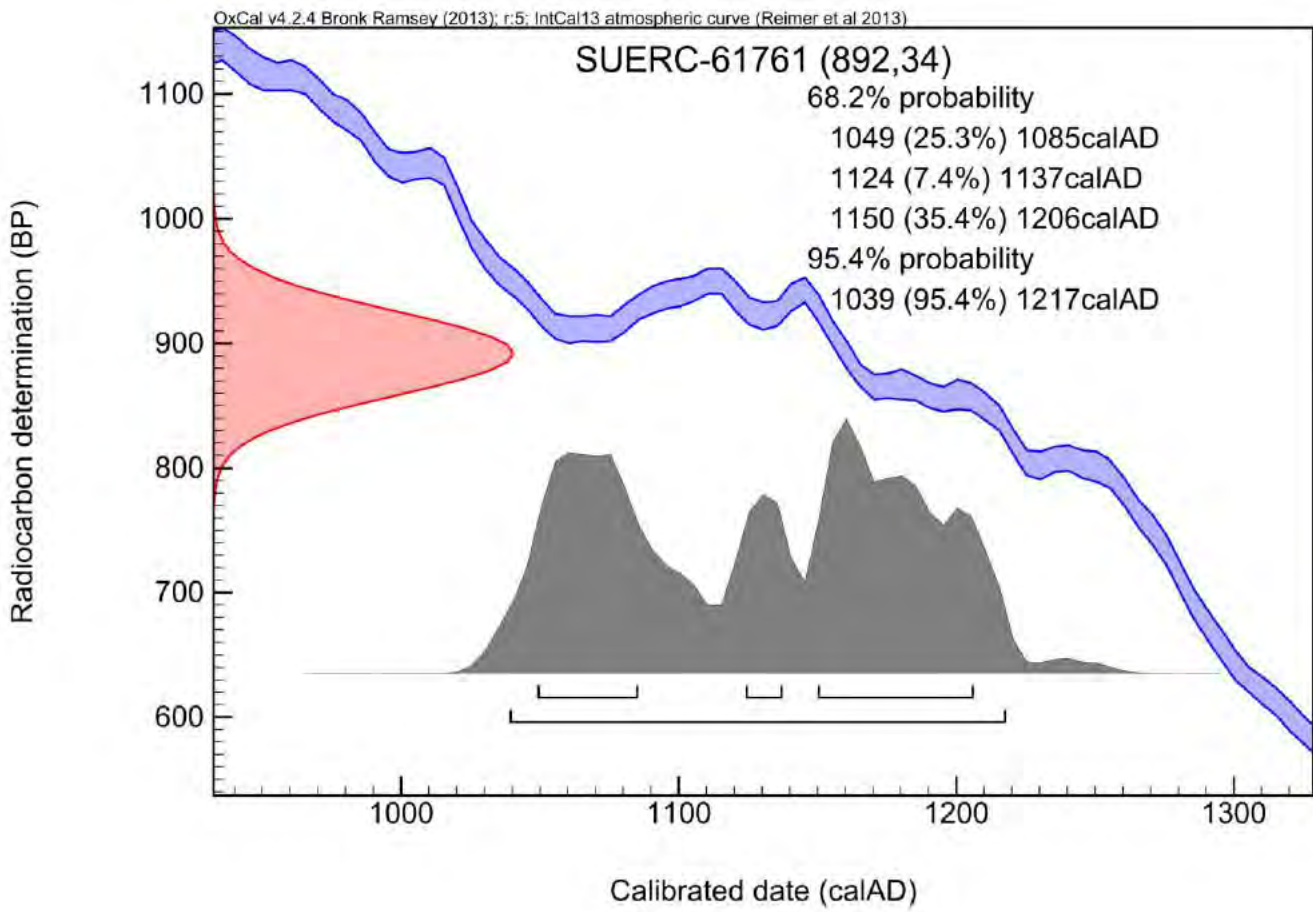
The University of Glasgow, charity number SC004401

The University of Edinburgh is a charitable body.



registered in Scotland, with registration number SC005336

Calibration Plot



SUTTERBY EXCAVATION 2015 (SUT15)

CHAMFER ANGLES RECORD

Measurements of Chamfers on plinth stones 6 June 2015

(See diagrams for key and identification numbers and definition of angle measured)

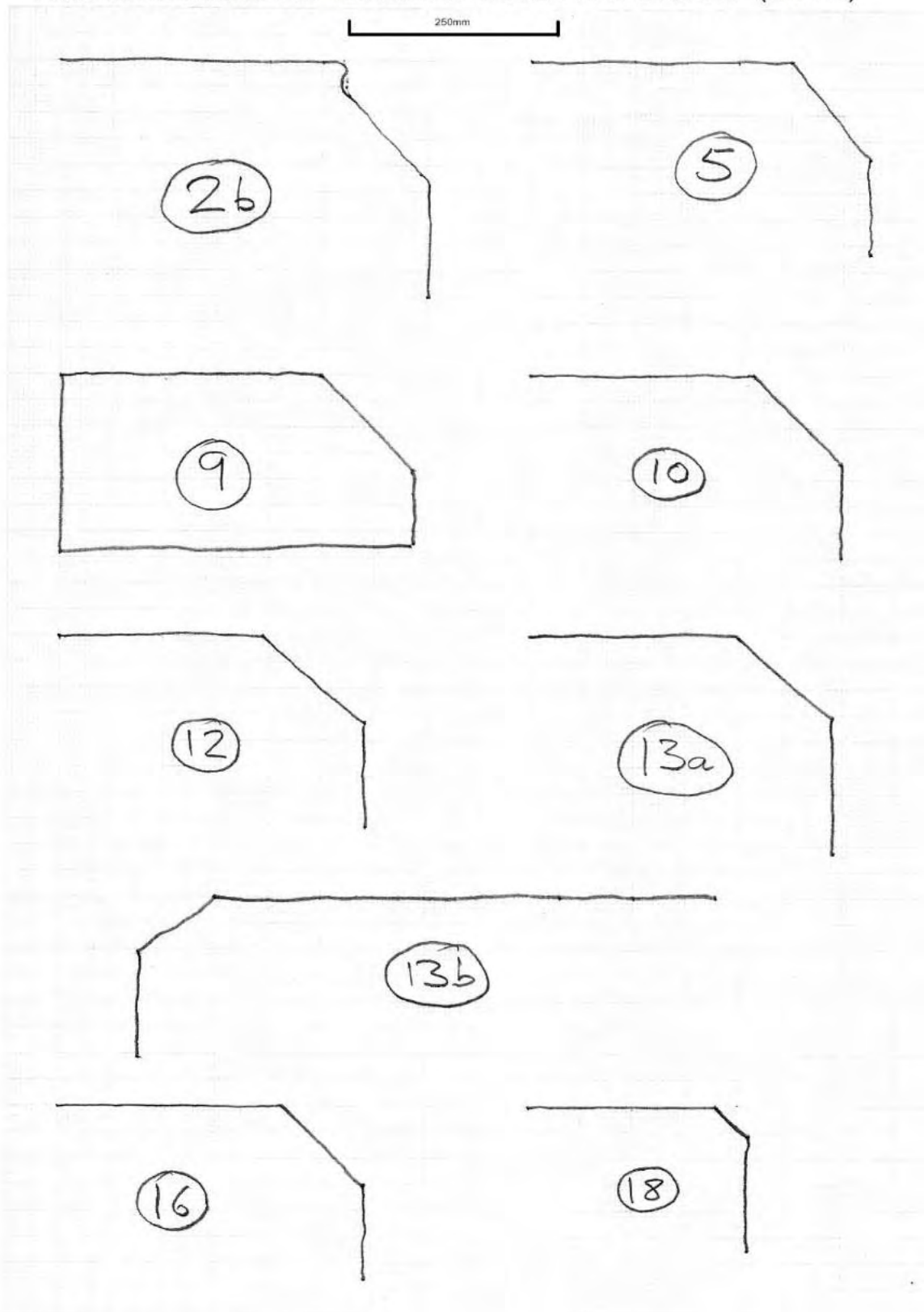
Stone No	Angle °	Top (mm)	Chamfer (mm)	Side (mm)	Back (mm)
1	63				
2a	54				
2b	40	270	25/120	70	
3	53				
4	41				
5	40	251	120	90	
6	48				
7	59				
8	44				
9	45	250	125	70	175
10	45	215	120	90	
11	53				
12	49	195	128	100	
13a	50	200	120	65	
13b	53	480	90	100	
14	33				
15	*				
16	46	215	110	89	
17	41				
18	49	180	43	110	
19	no chamfer				
20	38				
21	38				

*Corner stone 15 is not really chamfered on either W or S face - it is virtually flat. It lines up with good chamfered stones and may have been chamfered once - it looks worn - is this from a footpath/pathway around corner of church?

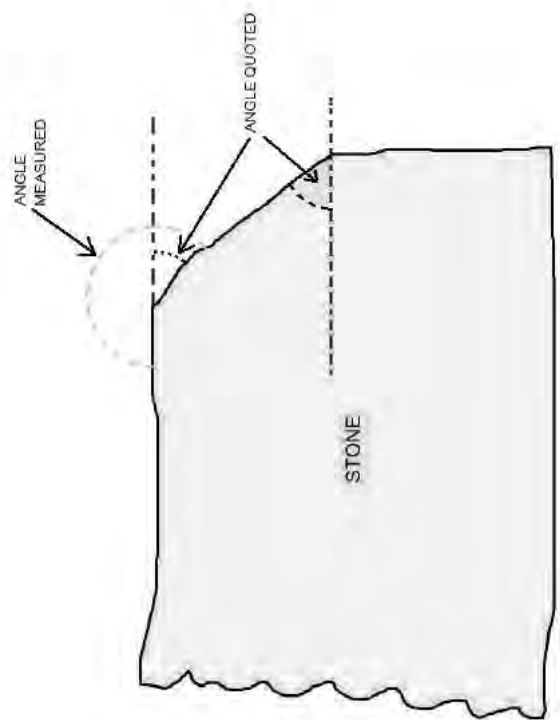
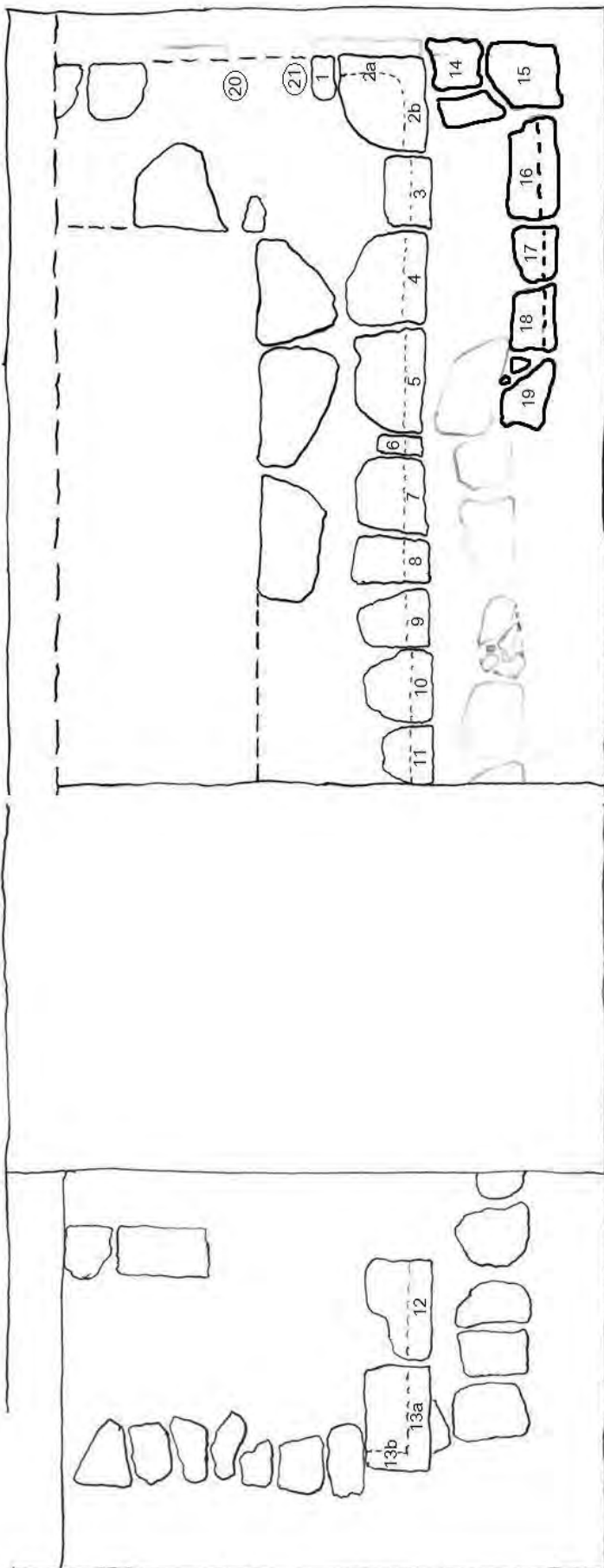
16 has a really good chamfer - 17 is not a good chamfer on west face - there is possible chamfer on N face but it is not straight (DAS says not chamfer). 18 has a short chamfer. 19 has no chamfer.

Corner stone 2a/2b is not a simple chamfer - it has two elements - a sort of short hollowing and then the chamfer (see profile drawing)

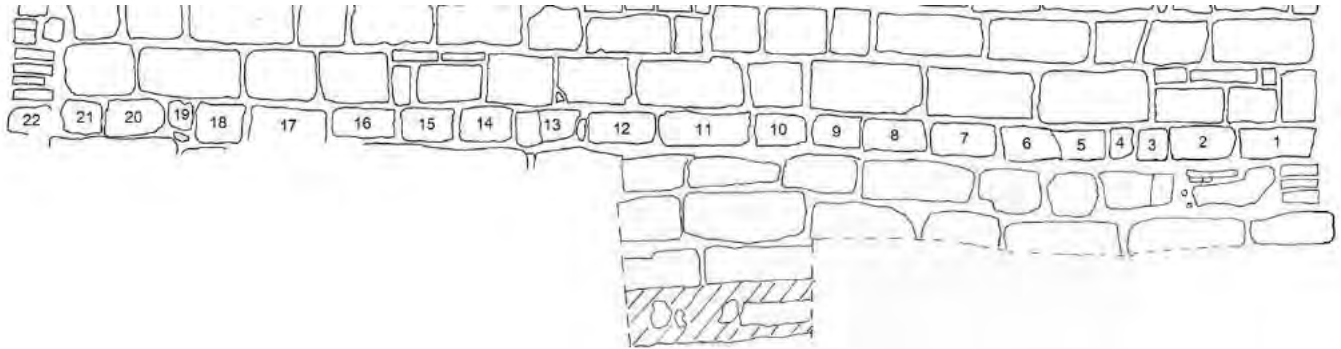
PROFILE DRAWINGS OF SELECTED CHAMFERED STONES (SUT15)



OUTLINE PLAN - KEY TO CHAMFERED STONES - SUTTERBY EXCAVATION (SUT15)



SUTTERBY CHURCH WEST WALL CHAMFER COURSE DESCRIPTION



N ^o .	Comment	cms	N ^o .	Comment	cms	N ^o .	Comment	cms
1	worn chamfer	5	9	quite good chamfer	8	17	good chamfer, long	9
2	worn chamfer	5	10	quite good chamfer	10	18	damaged chamfer	4
3	'dropped' worn chamfer	7.5	11	long; worn base	9	19	damaged - no chamfer	-
4	very worn chamfer	4	12	good chamfer - worn below	10	20	damaged chamfer; scored	7
5	all one stone worn	9	13	Fragmentary - poss worn chamfer		21	damaged chamfer - scored	7
6			14	quite good chamfer	8	22	damaged, fragmentary. Prob once chamfered	-
7	good chamfer	7	15	good chamfer	8			
8	good chamfer	8	16	good chamfer, base worn	6			

The measurement shown (cms) is the projection of the chamfer from the wall above (i.e. the amount the lower courses project beyond the upper courses)

Chamfer Angles measured for four stones

N ^o .	Angle °
7	52
9	55
14	56
17	45



Photograph of the chamfered course viewed from SW corner of church, looking north (moss covered course).

The chamfer course is much worn. It has an average projection of 7.5 cms. The chamfer angle is worn and variable but averages c. 50°

Characterisation of sediment associated with a curved 'iron crust' uncovered at Sutterby, May 2015

Drs John Aggett and Andrea James

Summary

The 'crust' is similar to the surrounding soil in composition, apart from the presence of pore-filling iron oxide 'cement' that gives it its strength and red colouration. This cement shows possible zonation suggesting precipitation, not as man-mixed 'cement'. The texture might also be slightly coarser grained than the typical soil sample. No evidence for any potential precursor iron artefact was seen that might have corroded to form the crust. Radial cracking of larger clasts might suggest heating?

The sediment 'within' the feature is very different in terms of colour (lighter brown), grain size (finer and better sorted) and lack of clay matrix. This sediment is similar to a sample disaggregated by hand from Spilsby Sandstone and very unlike that of the sediment 'outside' the crust (see descriptions below).

No obvious archaeological or geological origin for this feature is apparent. However, it seems unlikely that this represents a boulder of Spilsby sandstone that may have been weathered *in situ*, given the excellent preservation of the foundation stones in a similar context and the lack of significant rock pieces within the sand.

The most likely scenario may be that the soil is generally iron-rich due to the erosion of iron-rich rocks (potentially Roach, Carstone, Red Chalk) and that Fe was liberated into solution under reducing conditions within the soil profile. The clean, permeable sand 'infill' may have allowed more oxygen-rich pore water to flow through the sediment, and the Fe oxidised to form a hematite (Fe_2O_3 , or similar) cement at the point where this oxygenated water percolated into the surrounding soil. The origin of the sand is however unknown.

Details of the sediments:

1) 'Crust':

- Typically medium (lower) to coarse (upper). Average medium (upper). Large cm-sized fragments are present.
- Moderately to poorly sorted.
- Subrounded to rounded.
- Quartz-rich, but varied mineralogy. Quartz grains are reddened to blackened (iron stained).
- Some large cm-sized fragments are possibly Chalk/Red Chalk.
- It is not obviously oolitic (as might be suggested for a piece of Roach or Claxby Ironstone for example).
- Clay matrix possibly present, but unclear.
- Cemented by strong pinkish-red cement, assumed to be hematite (iron oxide). Possibly in two generations/types as a pore-lining and (darker) pore-filling form.
- Red-brown colour.
- The crust has a high density (it is noticeably heavy)

2) Inside sediment:

- Typically fine (upper) to coarse (lower). Average fine (upper) to medium (lower).
- Moderately sorted.
- Subrounded.
- Very quartz-rich.
- Rare, small shell fragments are present.
- Clay matrix present, but not common. Unconsolidated.
- Light brown in colour.

3) Outside sediment:

- Typically medium (upper) to very coarse (lower). Average medium (upper). Some cm-sized pieces in the sample.
- Moderately sorted.
- Subangular to subrounded.
- Quartz dominant.
- Rare organic, black charcoal/lignite fragments are possibly present.
- Clay matrix is common. It binds grains into aggregates.
- Dark brown in colour.

4) Comparison sample of disaggregated Spilsby sandstone (from Somersby):

- Typically fine (upper) to medium (lower).
- Well sorted.
- Subrounded to rounded.
- Quartz-rich.
- Minor clay matrix present.
- Light brown/green in colour.

SUTTERBY EXCAVATION (SUT15) – THE POTTERY

Alex Beeby

INTRODUCTION

The material was laid out and viewed in context. The pottery pieces (sherds) were identified and then counted. Pottery was examined visually and using x20 magnification. A full list of the pottery is included in Table 4 below. The pottery codenames (Cname) used, are in accordance with the Post Roman pottery type series for Lincolnshire, as published in Young *et al.* (2005).

THE POTTERY

There are 144 sherds from the excavation, most of which date to the post medieval period. However, contexts (044), (046), (047), (048) and (049) produced a very interesting small assemblage of Later Saxon and/or Saxo- Norman pottery, with types including Thetford ware (THETT), Maxey ware (RMAX), Torksey ware (TORK), Lincoln Kiln type fabric (LKT) and Lincoln fine shelled ware (LFS). This is a really interesting group. Whilst some may have been produced as late as the mid 12th century, all of these fabrics are contemporary to the 10th century and the lack of Bourne, Stamford and other early medieval wares is interesting and may indicate an early date, before the 12th century, for this sub group. A fine Thetford were type jar with a finger pressed rim decoration is of particular note.

Table 4, the pottery from the excavation.

Cxt	Cname	Pottery Name	Comment	Date	Sherds
003	ENGS	English stoneware	1 pcs straight sided jar; jam type	19th-E20th	2
003	GRE	Glazed red earthenware	At least 3 separate vessels; domestic jars/bowls	16th-17th	7
004	BERTH	Brown glazed earthenware		16th-18th	2
004	SLIP	Slipware	Large jar/bowl	M17th-18th	1
004	YEL	Yellow ware	MY or STSL type	16th-18th	2
005	BERTH	Brown glazed earthenware	White matter over break	16th-M18th	5
005	ENGS	English stoneware	Pcs from a single straight sided jar	19th-E20th	3
005	GRE	Glazed red earthenware	White matter over break	16th-M17th	2
005	RGRE	Reduced glazed red earthenware	Fragments for a single vessel	16th-17th	4
007	ENGS	English stoneware	Closed form	18th-19th	2
008	BERTH	Brown glazed earthenware	Rim fragment	16th-M18th	1
009	BERTH	Brown glazed earthenware	Bowl	16th-17th	2
009	ENGS	English stoneware	Small straight side bottle	19th	1
009	TOY	Toynton medieval ware		L13th-16th	1
010	BERTH	Brown glazed earthenware		16th-M18th	4
010	ENGS	English stoneware		18th-19th	2
010	GRE	Glazed red earthenware		16th-M17th	3
010	LUSTRE	Lustreware		L18th-19th	1
011	GRE	Glazed red earthenware	Pcs from a single bowl; Toynton?	16th-M17th	10
011	RGRE	Reduced glazed red earthenware	Could be Toynton product; lime over break; from a single vessel	16th-17th	7
011	TB	Toynton Bolingbroke ware	Two separate vessels	M15th-16th	4
013	BERTH	Brown glazed earthenware		16th-M18th	2
013	ENGS	English stoneware		18th-19th	1
013	GRE	Glazed red earthenware	Large jar/bowl	16th-17th	2
014	BERTH	Brown glazed earthenware		16th-M18th	1
014	ENGS	English stoneware	Small straight sided bottle	19th	1
014	ENGS	English stoneware		18th-19th	1
015	BERTH	Brown glazed earthenware	Bowl	16th-M18th	1

Cxt	Cname	Pottery Name	Comment	Date	Sherds
015	STSL	Staffordshire type slipware	Closed form	L17th-18th	1
017	BERTH	Brown glazed earthenware		16th-M18th	1
017	GRE	Glazed red earthenware		16th-17th	3
017	RGRE	Reduced glazed red earthenware		16th-17th	1
017	RGRE	Reduced glazed red earthenware	White matter over break	16th-17th	1
017	TB	Toynton Bolingbroke ware	From a single vessel	16th-17th	3
017	WHITE	Modern whiteware	Cup or bowl	20th	1
019	GRE	Glazed red earthenware		16th-17th	3
019	TOY	Toynton medieval ware		L13th-15th	4
020	TB	Toynton medieval ware	TB?	L13th-16th	4
025	TOY	Toynton medieval ware	Bowl; white matter over break	L13th-16th	1
026	BERTH	Brown glazed earthenware		16th-M18th	2
026	ENGS	English stoneware		18th-19th	1
026	STSL	Staffordshire type slipware	Press moulded dish	L17th-18th	1
026	TB	Toynton Bolingbroke ware		M15th-16th	2
026	YEL	Yellow ware	MY or STSL type	16th-18th	1
027	GRE	Glazed red earthenware	White matter over break	16th-17th	3
027	TGE	Tin glazed earthenware		M16th- M18th	1
029	GRE	Glazed red earthenware		16th-17th	1
031	TB	Toynton Bolingbroke ware		M15th-17th	3
032	GRE	Glazed red earthenware		16th-17th	1
035	MP	Midlands Purple	Very highly fired; Toynton	15th-16th	2
038	MP	Midlands Purple	Very highly fired; Toynton	15th-16th	9
038	TOY	Toynton medieval ware		L13th-16th	1
042	BERTH	Brown glazed earthenware	Bowl; Toynton?	16th-M18th	1
042	ENGS	English stoneware	Straight sided jar	L19th-E20th	1
042	GRE	Glazed red earthenware	Bowl	16th-17th	1
042	RTMISC	Roof tile		16th-19th	1
042	STSL	Staffordshire type slipware	Small closed	L17th-18th	1
044	LKT	Lincoln Kiln Type		M9th-10th	3
046	RMAX	Maxey ware	?ID; small flake; abundant punctate brachiopod fossils	M7th-M10th	1
046	THETT	Thetford type ware		10th-M12th	1
047	THETT	Thetford type ware	Large jar; finger pressed rim	10th-M12th	1
048	STSL	Staffordshire type slipware		L17th-18th	1
048	THETT	Thetford type ware		10th-M12th	1
048	TORK	Torksey Type ware	?ID; burnt; abraded	M9th-11th	1
049	LFS	Lincoln Fine Shelled ware	Jar rim	10th-12th	1
049	LKT	Lincoln Kiln Type	?ID; SALT SURFACE	M9th-10th	1
049	TORK	Torksey Type ware	?ID; tiny fragment	M9th-11th	1
054	ENGS	English stoneware	Small straight sided bottle	19th	1
				Total	144

SUTTERBY EXCAVATION (SUT15) - THE OTHER FINDS

Alex Beeby and Gary Taylor

Analysis

Whilst the bulk of the material recovered during the excavation was pottery, a small quantity of other finds, including clay tobacco pipe, mortar and stone were recovered. These are listed below.

Table 5, the other finds from the excavation.

Cxt	Find Type	Comment	Date	Fragments
036	mortar	dark sandy mortar, 1 concave side has smooth surface; probable drain cladding	19th-20th	1
036	stone	natural		1
045	clay pipe	decorated bowl fragments (1 pipe), 'standing native', armorial shield (arms of Prussia) on rear; banners below figures, one containing 'LINC..', other containing 'HURST' or 'NURST'. Probable Lincoln product	1830-50	3
			Total	5

SUTTERBY EXCAVATION (SUT15)

GLASS CATALOGUE (ALL GLASS)

Context No	Class	No. of pieces	weight (gms)	Comments
001	G	48	55	window glass
001	G	4	1	light bulb
002	G	5	6	window glass
004	G	152	167	window glass
004	G	6	3	light bulb
005	G	7	8	window glass
005	G	2	14	bottle glass
006	G	35	41	window glass
006	G	1	<1	light bulb
007	G	129	165	window glass
007	G	1	4	bottle glass
008	G	1	195	bottle glass - most of a glass jar
008	G	71	68	window glass
008	G	1	2	bottle glass
009	G	42	34	window glass
009	G	2	<1	light bulb
011	G	3	2	window glass
012	G	15	15	window glass
013	G	117	127	window glass
014	G	1	4	bottle glass
014	G	25	34	window glass
014	G	1	2	vessel glass v thin
015	G	13	18	window glass
016	G	4	3	window glass
017	G	3	4	window glass
017	G	3	84	bottle glass inc neck with glass stopper
019	G	2	3	window glass
022	G	1	2	window glass
022	G	1	26	bottle glass
025	G	1	4	window glass
026	G	13	31	window glass
027	G	33	45	window glass (poss some coloured/painted)
028	G	2	1	window glass
029	G	3	5	window glass nice corner piece
030	G	2	2	window glass
032	G	7	9	window glass
033	G	5	3	window glass
033	G	1	<1	light bulb
037	G	1	3	window glass
042	G	7	9	window glass
042	G	2	42	bottle glass - base of rect bottle marked J H
045	G	7	7	window glass
050	G	1	<1	window glass
052	G	1	<1	window glass
054	G	5	23	window glass
054	G	1	<1	light bulb

SUTTERBY EXCAVATION (SUT15)

METAL FINDS CATALOGUE

LEAD WINDOW CAME

Context No		No. of pieces	weight (Gms)	Description
000	Pb	1	7	lead came (unstrat)
004	Pb	1	25	lead came
006	Pb	2	11	lead came
008	Pb	3	14	lead came
009	Pb	1	6	lead came
013	Pb	4	20	lead came
014	Pb	3	33	lead came
015	Pb	1	6	lead came
017	Pb	3	5	lead came
026	Pb	3	26	lead came
027	Pb	2	10	lead came
027	Pb	1*	38	*Large frag jointed Pb came with 3 conjoining frags of glass <i>in situ</i> when found (in box)
029	Pb	7	58	lead came
045	Pb	2	18	lead came
TOTALS		34	277	

OTHER LEAD FINDS

Context No		No. of pieces	weight (Gms)	Description
001	Pb	1	65	1 folded strap/clip with square nail holes
004	Pb	1	59	1 piece folded sheet
005	Pb	1	41	1 piece scrap sheet
014	Pb	1	170	1 strap/clip with square nail holes
017	Pb	1	21	1 piece of lead sheet
019	Pb	1	41	1 piece scrap sheet with score marks
020	Pb	1	20	1 piece folded sheet with Fe nail
022	Pb	1	6	1 piece scrap sheet
026	Pb	2	28 159	1 piece scrap sheet with score marks and 1 folded strap/clip with 3 square nail holes
031	Pb	2	6 30	1 'disc' and 1 piece scrap sheet with nailhole
035	Pb	2	178	2 piece molten lead splash 1 with charcoal under
TOTALS		14	824	

SUTTERBY EXCAVATION (SUT15)

METAL FINDS CATALOGUE

IRON (Fe) OBJECTS

Context No		No. of pieces	weight (Gms)	Description
001	Fe	6	39	6 square shank nails
		2	11	2 modern Fe nails DISCARDED
		1	7	1 modern screw (2" x 10 posidriv) DISCARDED
		1	10	1 Fe washer 30mm diameter
		1	78	1 Fe bush 32mm diameter
		many	540	Fragments of cast iron rainwater goods* DISCARDED
002	Fe	1	48	1 piece cast iron guttering DISCARDED
004	Fe	31	183	31 square shank nails
		9	52	9 round shank nails
		3	4	3 modern galvanised clout nails
		1	75	1 Fe chain
		1	48	1 Fe hook and chain link
		3	24	3 Fe objects
		2	20	2 pieces cast iron sheet DISCARDED
many	2640	Fragments of cast iron rainwater goods* DISCARDED		
005	Fe	10	51	10 square shank nails
006	Fe	15	85	15 square shank nails
		1	5	1 round shank nail
		1	1	1 frag Fe strip
007	Fe	16	59	16 square shank nails
		1	110	1 rectangular sheet/plate with drilled holes
		1	9	1 round shank nail
008	Fe	11	38	11 square shank nails
		4	37	4 frags galvanised Fe sheet
		many	2520	Fragments of cast iron rainwater goods* DISCARDED
009	Fe	13	66	13 square shank nails
		2	27	2 round shank nails
		3	47	3 frags galvanised Fe sheet
		many	3000	Fragments of cast iron rainwater goods* DISCARDED
010	Fe	2	7	2 square shank nails
		1	1	1 frag Fe wire
		1	18	1 piece cast iron sheet DISCARDED
011	Fe	9	37	9 square shank nails
		1	137	Fe wedge
012	Fe	1	6	1 square shank nail
013	Fe	23	128	23 square shank nails
		1	7	1 frag cast iron DISCARDED
014	Fe	13	7	13 square shank nails
		many	2985	Fragments of cast iron rainwater goods* DISCARDED
015	Fe	5	25	5 square shank nails
017	Fe	25	118	25 square shank nails
		1	53	1 large square shank nail
		1	31	1 Fe object
019	Fe	5	28	5 square shank nails
020	Fe	51	249	51 square shank nails

021	Fe	4	24	4 square shank nails
022	Fe	1	8	1 square shank nail
026	Fe	16 1	90 4	16 square shank nails 1 piece cast iron sheet DISCARDED
027	Fe	4 1 1 1 many	24 8 34 40 1620	4 square shank nails 1 round shank nail 1 frag Fe strap 1 Fe object Fragments of cast iron rainwater goods* DISCARDED
028	Fe	5	29	5 square shank nails
029	Fe	21	101	21 square shank nails
030	Fe	1	3	Frag of square shank nail
031	Fe	14	77	14 square shank nails
032	Fe	5	41	5 square shank nails
033	Fe	3	18	3 square shank nails
034	Fe	1	4	1 Fe nail head or stud
035	Fe	3	23	3 square shank nails
037	Fe	8	38	8 square shank nails
038	Fe	21	116	21 square shank nails
039	Fe	3	25	3 square shank nails
040	Fe	2	16	2 square shank nails
041	Fe	1	4	Fe Object - prob nail shank
042	Fe	1 many 1 1	62 1700 12 2	1 frag cast iron pipe DISCARDED Fragments of cast iron rainwater goods* DISCARDED 1 Fe object with concretion 1 square shank nail
044	Fe	3	19	3 square shank nails
045	Fe	3	21	3 square shank nails
046	Fe	1	11	1 large headed square shank nail
047	Fe	1 1	54 6	1 Fe object 1 piece Fe wire (?) with concretion
048	Fe	3	11	3 square shank nails
050	Fe	2	13	2 square shank nails
054	Fe	2 4	22 49	2 square shank nails 4 round shank nails
-	-	-	18000	

SUTTERBY EXCAVATION (SUT15)

METAL FINDS CATALOGUE

Brass, Bronze and Miscellaneous Finds

Context No		No. of pieces	weight (Gms)	Description
001	Misc	1	14	Brass cartridge case - no markings
001	Misc	1	4	1 piece of electric light bulb (Edison screw)
004	Misc	2	3	2 copper nails
004	Misc	1	7	1 piece copper wire
004	Misc	1	29	Bronze bracket/fitting with hole and slot
004	Misc	3	78	Frag of 3 electric light bulbs (Edison screw)
004	Misc	10	18	10 bone/ivory sheets (?piano keys);
005	Misc	1	6	Brass Ely 12 bore cartridge cap DISCARDED
007	Misc	1	2	1 square shank copper nail
008	Misc	1	2	1 square shank copper nail
008	Misc	1	4	Part of Bronze mount/plate shaped and drilled
010	Misc	1	5	Brass Kynoch 12 bore cartridge cap DISCARDED
012	Misc	1	3	Brass ring 31mm diameter
029	Misc	1	7	Bronze sheet folded and pierced
035	Misc	1	39	1 piece of slag
048	Misc	1	60	1 piece of slag
054	Misc	5	88	Frag of 5 electric light bulbs (Edison screw)
054	Misc	1	2	bone/ivory sheet (?piano key)
TOTALS	-	34	371	

SUTTERBY EXCAVATION (SUT15)

CATALOGUE OF CERAMIC (CBM) AND OTHER BUILDING MATERIAL FINDS

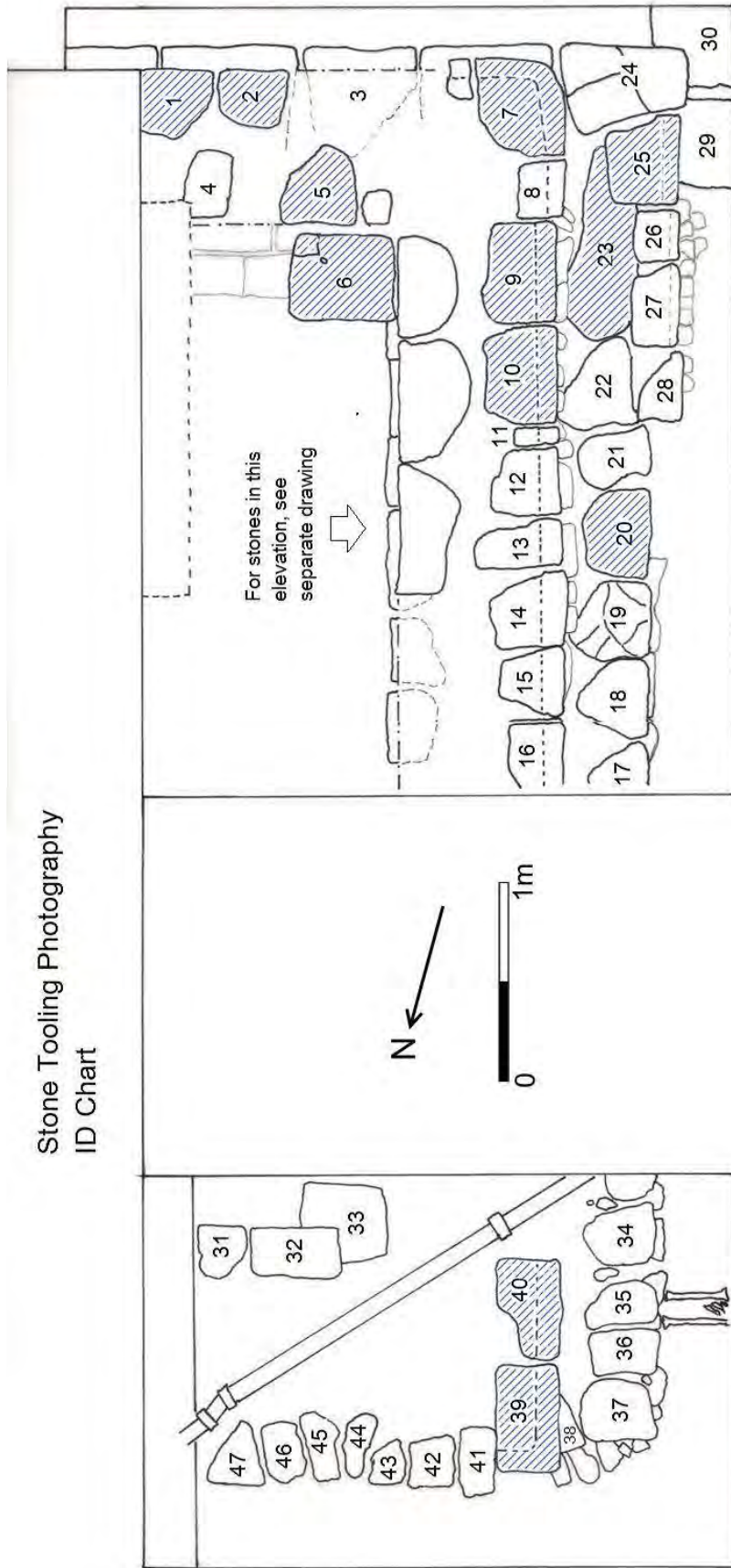
Context No	Class	No. of pieces	weight (Gms)	Comments
000	CBM	2	363	Unstrat roof tile frags with mortar
001	CBM	2 5	31 113	Frag plaster with 'dot' cbm
004	CBM	15	908	inc plaster with lath impression and pantile
005	CBM	3	304	inc 1 piece worked(?) stone, 1 frag brick, 1 frag flat tile
006	CBM	2	41	
007	CBM	1	137	tile with mortar, poss pantile
008	CBM	2	110	
010	CBM	1	9	
011	CBM	1	376	piece of brick
013	CBM	9	897	1 mod tile
014	CBM	8	392	inc plaster with blue paint & flat tile with mortar
015	CBM	2	31	
016	CBM	1	41	
017	CBM	1	45	
020	CBM	1 3 2	1095 117 6	Piece of worked limestone - 2 flat faces cbm slate - DISCARDED
021	CBM	4	163	(1 flint in here)
022	CBM	2 2	51 494	frags of roofing slate, 1 with mortar DISCARDED flat tile with mortar
023	CBM	1	2315	1 piece worked limestone with mortar & tooling marks
024	CBM	1	2249	most of a brick
026	CBM	23 5 1	183 284	frags of roof slate (1 green all other grey) DISCARDED CBM Mortar frag - DISCARDED
027	CBM	1 3 2	766 138 38	piece wkd limestone with squared corner (sep bag) inc flat tile + pce of plaster Artificial slate ... fibrous
028	CBM	1	32	piece of grey roof slate
029	CBM	1	99	corner of flat tile
033	CBM	2	12	2 x ?plaster with impression
037	CBM	5	400	inc 1 plaster, 1 slate, 2 flat tile
038	CBM	4	376	inc carved/worked limestone
040	CBM	1	48	
042	CBM	6	222	
045	CBM	1 4 1	1344 164 1	c. 60% of a brick (sep bag) other cbm inc thin flat tile ... corner Frag slate DISCARDED
048	CBM	1	15	flat tile
049	CBM	2	15	frags of plaster with limewash DISCARDED
051	CBM	2	13	

SUTTERBY EXCAVATION (SUT15)

Stone Tooling Analysis

Stone No.	Phase	Comments
1	4	weathering marks - not tooling
2	4	Tooling visible on top of stone - dressed with unornamented blade. Poss pre 13th C.
5	4	Dressed with a toothed blade of considerable size - A claw with very broad teeth and narrow gaps. Also another type of tooling on this stone with a different tool (unornamented). ?12th C block retooled in 13th C.
6	4	The cornerstone - tool marks visible in the square cut recess - made by a narrow bladed mason's point or punch. This is how the recess was created. Not readily datable. The recess is probably relevant to the secondary use of this stone. Possibly <i>cut in situ</i> .
7	4	Chamfered corner stone - Some tooling visible on top surface - big claw tool again (? same tool)
9	4	possibly some tooling on top surface
10	4	Possibly some tooling on top surface
20	2	Unornamented blade dressing. Might have two 'sockets' on it ... or could just be geology
23	2	Dressed in two directions with unornamented blade but not a broach dressing (not Roman). Better worked than 20. Only seeing top face - not display face. Not a claw (earliest claw dressing in Lincs is 1180 in St Hugh's choir)
25	3	Slight tooling on the top. Isolated shaping blows visible on the back
39	4	Some tooling with unornamented blade visible on the top. Block is crude and badly laid out - might even have been shaped/reshaped <i>in situ</i> . ?reworked
40	4	good unornamented tooling visible on top. No claw.
1e	4	well preserved, crisp tooling. Untoothed broad blade either side of central line giving herring bone pattern - worked from both sides of the banker
2e	4	As above, herring bone pattern with big unornamented blade used both sides of the banker
4e	4	As above with herringbone pattern. One side better worked than the other.
7e	4	May have scribed line separating better dressing from cruder dressing? Crude herringbone on left
9e	4	?dressed along a centre line
13e	4	-

Stone Tooling Photography
ID Chart



Sketch for identifying stones on east face of west wall
 For stone tooling analysis
 Shaded stones are discussed in the Table

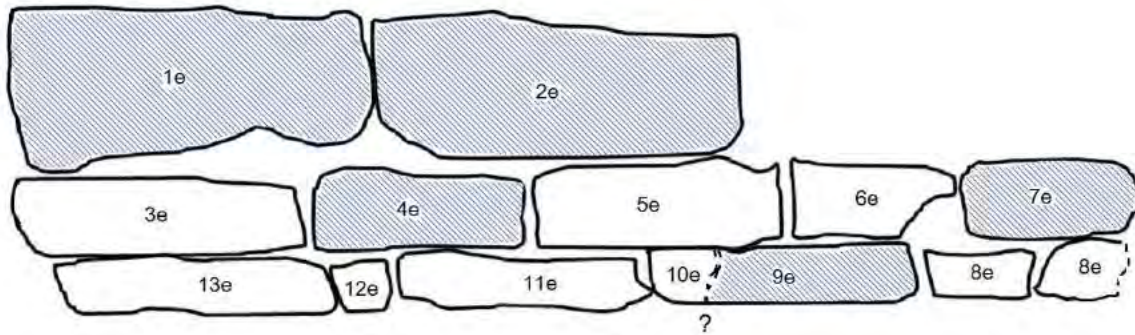


Photo-mosaic of stones on east face of west wall
 for stone tooling analysis



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Some general comments on the stone tooling visible on excavated Sutterby stones

- Erosion of the soft sandstone has taken away most tooling from the display faces on external blocks. There is also a danger of later (and excavator) damage on the soft stone.
- There is very clearly the possibility of reused and reworked stones
- Most stones show a big bold blade (unornamented) without teeth.
- A group of stones have a big bold blade with teeth.
- This may represent two phases of buildings - one pre c.1200 and one post c.1200
- It would be useful to try to measure the tool blade widths visible on the photographs to pick out particular tool groups.

SPIRIT OF SUTTERBY PROJECT
EXCAVATION AT WEST END OF SUTTERBY CHURCH
MAY 2015

SITE CODE : SUT15
Museum Accession Number: LCNCC : 2016.194

EXCAVATION ARCHIVE

The SUT15 Excavation Archive Comprises:

DOCUMENTS

- Written report of the excavation with 15 Appendices
- Site note book (A4)
- Folder containing Levels, plans and section drawings etc (A4 ring binder)
- Full Bone report (not in main report)
- Memory stick containing site photographs and stone tooling photographs. (in jpg format)

FINDS

- 144 Pottery sherds (1.7Kg)
- 420 Fe objects (mostly nails) (4.3Kg) *
- 48 Lead objects (1.1Kg) *
- 788 fragments of glass (mostly window glass) (1.3Kg) *
- 34 misc (Cu/Ae etc) objects (0.3Kg) *
- 105 CBM items (14.0Kg) *
- 268 bone fragments (inc. human) (1.1Kg) *

The excavation archive will be deposited at The Collection, Danes Terrace, Lincoln, LN2 1LP, under Accession Number LCNCC : 2016.194. Only the pottery will be archived. Items marked * will not be deposited at The Collection. The bone will be returned to the churchyard and the other materials discarded.

SUTTERBY EXCAVATION (SUT15)

BONE CATALOGUE (with specialist identifications by Ryan Austin)

Context No	Total No. of frags	weight (Gms)	Hum	Ani	Species	Identifications
001	2	2	-	2	Bird Bird	L femur (epiphysis and diaphysis separate) R femur (distal shaft and epiphysis)
004	2	17	-	1	Pig	R maxillary molar
005	2	10	2	-	Human	R second metacarpal L radial fragment
006	2	7	2	-	Human	L third metacarpal radial fragment
007	2	13	-	-	-	long bone fragment
008	1	2	-	1	Pig	R mandibular canine
009	2	7	-	-	-	-
010	1	2	-	1	Pig	canine tooth
011	2	40	-	1	Pig	tibia metaphysis and diaphysis
013	1	6	-	-	-	-
014	6	20	1	-	Human	L rib fragment
016	7	77	-	4	Sheep Bird Bird Sheep	Cranium fragment with horn sawn through and iron nail L carpometacarpus R scapula tooth fragment
019	2	8	-	1	Sheep	tooth fragment
020	3	5	-	-	-	-
021	3	26	-	1	Pig	L radius distal fragment
026	9	35	1	1	Bird Human	tibia R mandibular canine
027	5	18	-	3	Pig Sheep Goat/sheep	premolar maxillary molar femur
029	3	9	-	1	Pig	R maxillary 3rd molar
032	3	5	1	-	Human	juvenile scapular fragment
034	1	4	-	1	Goat	R maxillary molar
035	1	1	-	1	Pig	R incisor
037	3	4	-	-	-	-
038	5	54	-	1	Pig/cow/shp	thoracic vertebra
042	1	2	-	-	-	-
044	47	114	-	5	Goat/sheep Goat/sheep Pig Dog Sheep	R maxillary 3rd molar mandible fragment R maxillary 1st molar, maxilla attchd premolar R maxillary premolar
045	1	15	-	1	Sheep	R humerus
046	38	217	13	-	Human Human Human	L humeral head R distal femoral shaft R radial head

					Human Human Human Human Human Human Human Human Human Human Human	R radial shaft/distal end proximal hand phalange R 4th metacarpal R maxillary lateral incisor L sternal/shaft rib fragment L rib shaft fragment L rib shaft fragment R vertebral fragment R vertebral fragment L conoid process R maxilla with lateral incisor + 1st maxillary premolar + conjoining frag with 1st maxillary molar R zygoma (with above)
047	7	55	-	3	Goat/shp/cow - -	tooth L incisor root canine
048	9	31	2	3	Human Human - Pig Goat/shp/cow	R mandibular fragment metacarpal R Mandibular fragment curved incisor R maxillary premolar
049	70	186	1	11	Human - Pig - - - - - - - - -	L femur fragment (juvenile) mandibular frag with 3 worn teeth L 1st mandibular molar proximal phalange L maxillary incisor L maxillary canine L mandibular incisor R maxillary incisor L mandible fragment L mandible fragment L conoid process metatarsal
050	26	147	9	1	Human Human Human Human Human Human Human Human Human Sheep/goat	R 2nd metacarpal R os coxa L 1st metacarpal proximal phalange phalange R pubic symphysis femur shaft fragment L maxilla with 3 tooth root fragments R rib fragment R maxillary premolars
052	1	<1	-	-	-	-
TOTAL	268	1139	32	44	-	-

Details of the churches in the parishes around Sutterby

Parish	Church	Built	Comment
Aswardby	St Helen	1747 restored 1884	Rebuilt in brick and stone - probably reusing original stone. No record of medieval church.
Bag Enderby	St Margaret	Med. 1407	West tower, nave and chancel in greenstone.
Brinkhill	St Philip	1857	Rebuilt by Maughan & Fowler; two cell with porch and bellcote. In brick with stone bands. Nattes drawing of 1790 shows two cell thatched church in stone, with porch and timber bellcote. (LAO from Brinkhill Portrait of a Wolds Village)
Calceby	St Andrew	Med.	In ruins. Chalk remains of early tower and nave. Probably skinned in greenstone externally.
Dalby	St Lawrence	1862	Rebuilt by Fowler. Nattes drawing of medieval church shows thatched stone nave, thatched brick chancel, porch, buttress. (LAO Nattes/2/3) Also early photograph.
Driby	St Michael	1849	Victorian rebuild 1849. Now a dwelling (1978). Nattes drawing of medieval church shows two cell church with belfry and porch in stone with brick repairs. Low pitch roof probably lead. (LAO: Nattes/2/31)
Hagworthingham	Holy Trinity	Med restored 1859	Big medieval building with tower which collapsed in 1972. Drawing by Nattes c.1790. Greenstone with brick repairs. Nave and chancel roofed in lead.
Harrington	St Mary	1854	Restored by Teulon. Medieval tower arch survives but no other record of medieval church.
Haugh	St Leonard	Med. restored 1878	Nave and chancel. Sandstone and chalk. Drawn by Nattes c.1790 Tall with tile roof and gable belfry. (LAO Nattes/2/241)
Hundleby	St Mary	1855	Drawn by Nattes 1792 - with tower, Medieval. Nave and Georgian chancel. Only a few medieval fragments survived restoration.
Langton by Spilsby	Ss Peter & Paul	1720-30	Rebuilt in brick - No record of medieval church.
Partney	St Nicholas	Med. restored 1862	Restored by Giles. Big aisled church with tower. Drawn by Nattes 1790.
Raithby	Holy Trinity	1873	Big church with tower. Mostly rebuilt by Scott 1873. Some Norman details remain. Drawn by Nattes 1792. Greenstone with brick repairs. Nave roofed in lead, chancel in pantile.
Sausthorpe	St Andrew	1844	Restored by Kirk. All brick with tower and spire. Nattes shows a Georgian Church - no record of medieval church.
South Ormsby	St Leonard	Med. restored 1871	Big church with tower and aisles. Nattes drawing of 1790 shows greenstone church with extensive brick repair to chancel. All roofed in lead.
South Thoresby	St Andrew	1738	Brick with tower. Drawn by Nattes c.1790. No record of medieval church.
Ulceby with Fordington	All Saints	1826 1885	Brick with bellcote. Some medieval fragments in fabric but no record of medieval church.

**Jean Claude Nattes drawings of four churches similar to Sutterby
in the nearby parishes - c. 1790**



Sutterby



Haugh



Driby



Dalby



Brinkhill