A REPORT TO
JOYNES PIKE
& ASSOCIATES LTD
CONSULTING ENGINEERS

MAY 2004

ANCHOR STREET, LINCOLN

ARCHAEOLOGICAL WATCHING BRIEF IN CONJUNCTION WITH GEOTECHNICAL INVESTIGATIONS

PREPARED BY
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MJAS REPORT No.: 521

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ANCHOR STREET, LINCOLN

ARCHAEOLOGICAL WATCHING BRIEF IN CONJUNCTION WITH GEOTECHNICAL INVESTIGATIONS

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ANCHOR STREET, LINCOLN

ARCHAEOLOGICAL WATCHING BRIEF IN CONJUNCTION WITH GEOTECHNICAL INVESTIGATIONS

NON TECHNICAL SUMMARY

- *Between the 16 and 18 March 2004, Mike Jarvis Archaeological Services undertook an archaeological watching brief on behalf of Joynes Pike and Associates Ltd (Consulting Engineers) during the excavation of geotechnical trial pits at the above site location.*

- *Previous investigations on the site have revealed the presence of extensive deposits associated with the Roman, medieval, post-medieval and modern periods.*

- *The geotechnical investigation was designed to sample deposits associated with the site's post-19th century occupation and therefore little of the sites earlier archaeology was exposed, although a small assemblage of Roman and medieval Pottery and tile was recovered.*

- *The recent occupation of the site was associated with industrial use (food processing, brewing and heavy industry). The watching brief revealed evidence for this occupation in the form of widespread deposits of brick rubble and ash beneath concrete floor surfaces.*

- *Although the results of this watching brief have proved largely negative, an enhancement of knowledge of the area has been achieved with regard to the survival and extent of archaeological deposits. This information will be of value in future decision making in the management of the archaeological resource present on the site.*

ANCHOR STREET, LINCOLN

ARCHAEOLOGICAL WATCHING BRIEF IN CONJUNCTION WITH GEOTECHNICAL INVESTIGATIONS

1.0 INTRODUCTION

Between the 16 and 18 March 2004, Mike Jarvis Archaeological Services (MJAS) undertook an archaeological watching brief on behalf of Joynes Pike and Associates Ltd (Consulting Engineers) during geotechnical trial pit investigations at the above site location.

Plate I: ***General view of the site looking north.***

2.0 SITE LOCATION AND BACKGROUND

The site is located to the west of High Street and to the north of Gaunt Street. The Upper River Witham forms the western boundary of the site and Tanners Lane the north. National Grid Reference: SK 97167 70590 (Fig. 1 & Pl. I). Previous archaeological investigations on the site in 2002 (Trimble 2002) and 2003 (Jarvis 2003) revealed the site to contain potentially important evidence of Roman, medieval and post-medieval activity together with extensive remains associated with its more recent industrial use (see Fig. 2).

3.0 AIMS AND METHODOLOGY

The aims of the watching brief were:

- **To produce an archive record of deposits and remains generally within the constraints of the groundwork contractors' programme and working methods with due regard to current health and safety legislation.**
- **To produce a report on the archaeological importance of the discoveries.**
- **To produce a project archive from which the potential for further study and academic research could be assessed.**
- **To provide information for accession to the County Sites and Monuments Record (SMR) and the Lincoln Urban archaeological Database (UAD).**

The watching brief required the monitoring of 24 machine-excavated geotechnical trial pits (nominally 2m long and 600m wide– see Figs. 2 and 3). Trench depth varied depending upon the extent of post-19th century deposits. Six borehole also formed part of the geotechnical investigations, and although not monitored during the watching brief, the borehole results have been included in the report (see 4.0 and Appendix 5).

The archaeological record was secured by means of trench-side notes and scale drawings. A comprehensive photographic record was also compiled.

4.0 RESULTS AND CONCLUSIONS

TRAIL PIT RESULTS (Figs. 2, 3 and 4)

TP1

A deposit of mid-brown sand ([001]) with occasional inclusions of charcoal and tile fragments (12th to 15th centuries) was revealed *c.* 1.10m below existing ground level (*c.* 6.00m OD). Overlying [001] was [026] an extensive deposit of ash and brick sealed by a layer of concrete (top - ground level (7.10m OD).

TP2 (Fig. 3)

Excavation of TP2 revealed [002] (6.85m OD – 600mm below ground level), a light-mid yellow/brown clayey sand with occasional charcoal and tile fragments (mid-12th to 15th century). Sealing [002] was [027] a north-south brick wall/foundation itself sealed by a layer of ash ([028]) overlain by a concrete floor (ground level - 7.45m OD).

TP3 (Fig. 3)

A deposit of grey/brown silt sand ([003] - 4.90m OD) containing occasional tile (late 12th to 15th century) and charcoal was revealed *c.* 950m below ground level. Immediately above [003], lay [004] a deposit of light yellow soapy material. Above [004] was ([029]) a 700mm thick layer of ash and brick sealed by a concrete floor (ground level - 5.85m OD).

TP4

Excavation of TP4 revealed [005], brown sand soil, approximately 250mm below existing ground level (5.75m OD). Tile recovered from [005] dated to between the late 12th to 15th centuries. Deposit [005] was sealed by a layer of ash and brick rubble ([030] ground level – 5.95m OD).

TP5

Mid-grey/brown clayey silt, [006], with inclusions of occasional charcoal and small rounded pebbles was recorded at 5.61m OD (500mm below ground level). A single sherd of Roman pottery dating to the late 3rd to 4th century recovered from [006] is believed to be residual. Overlying [006] was ([031]) a 400mm thick deposit of brick rubble sealed by a concrete floor (ground level – 6.11m OD).

TP6 (Fig. 3)

The excavation of TP6 revealed [011] an undated deposit of dark grey-black fine silt with occasional charcoal flecks and small angular limestone fragments (5.59m OD – 650mm below ground level). A quarry tile floor ([060]) overlay [011] (*c.* 5.79m OD) and was in turn sealed by a deposit of brick and limestone ([032]). A sealing layer of concrete constituted existing ground level (6.24m OD).

TP7

Deposit [007], dark brown silt with occasional small limestone inclusions, lay at 6.32m OD (300mm below ground level). A single sherd of medieval (13th to 15th century) pottery was recovered from [007]. Sealing [007] was a layer of concrete that formed ground level ([033] - 6.62m OD).

TP8

The excavation of TP8 revealed deposit [008] (6.23m OD - same description as [007]). Deposit [008] was similarly sealed by a layer of concrete ([034] - 6.53m OD).

TP9

Deposit [009], dark brown silt with occasional charcoal and small limestone fragments was revealed at 5.51m OD (900mm below ground level. Overlying [009] was ([035]) an 800mm thick deposit of red/brown silt soil with frequent brick and ash. Sealing this deposit was a concrete floor (ground level - 6.41m OD).

TP10

The excavation of TP10 revealed ([010]) a deposit of dark grey/black silt with occasional charcoal and limestone inclusions (5.60m OD). Two quarry tile floors ([057]: 5.80m and [058]: 5.70m OD) overlay [010] and were in turn sealed by a deposit of limestone, slate and modern roof tile ([036]). An overlying concrete floor formed existing ground level (6.15m OD).

TP11

An undated deposit of dark grey/black silt ([012]) containing occasional charcoal and limestone fragments lay 250mm below ground level (6.09m OD). Overlying [006] was ([037]) a 250mm thick deposit of topsoil and ash (ground level - 6.34m OD).

TP12

Excavation of TP12 revealed ([013]) a deposit of mid-dark grey silt with small angular limestone fragments and occasional charcoal flecks, 800mm below ground level (6.71m OD). An east-west brick foundation ([038]) was present cutting through [013] on the northern side of the trial pit and was in turn sealed by a topsoil ([039] - ground level - 7.51m OD).

TP13

An undated deposit of mid-dark brown sandy soil with occasional limestone fragments ([015] – 6.66m OD) was revealed *c.* 400mm below ground level. This was sealed by [014], a 250mm thick layer of recent building debris. A topsoil ([040]) sealed [014] (ground level - 7.06m OD).

TP14 (Fig. 3)

Investigation of TP14 revealed ([016]) a deposit of pale-yellow/brown sand *c.* 600mm below ground level (6.44m OD). A fragment of roof tile dated to between the 12th to 15th centuries was recovered from this deposit. Sealing [016] was [041] an undated garden soil which was overlain by a topsoil deposit ([042]). A further layer of recently deposited soil ([043]) sealed the topsoil and formed the present-day ground surface (7.04m OD).

TP15

The excavation of TP15 revealed ([017]) an undated deposit of dark brown silt with frequent small angular limestone fragments (5.16m OD – 750mm below ground level). Sealing [017] was ([044]) a series of thin sand and silt layers overlain by ([045]) a 500mm thick deposit of ash, clinker and slag. A concrete floor sealed [045] (ground level - 5.91m OD).

TP16

The earliest deposit encountered in TP16 was [018], light-mid brown sand with small limestone inclusions (top – 5.15m OD). A sherd of 13th to 15th century glazed pottery and a fragment of roof tile dating to the mid-12th to mid-13th centuries was recovered. A 650mm wide, north-south concrete foundation ([046]) cut in to [018]. This was sealed by a concrete floor that formed ground level (5.90m OD).

TP17

A deposit of mid-brown sand/silt ([019]) with occasional charcoal and small limestone fragments together with two sherds of 13th century pottery and a fragment of similarly dated roof tile, lay 750mm below ground level (5.46m OD). Sealing [019] was an extensive (600mm-thick) deposit of mid-dark brown ashy clay with frequent brick rubble ([047]). This was sealed by a concrete floor that formed ground level (6.21m OD).

TP18

The excavation of TP18 revealed ([020]), an undated deposit of light-mid brown fine sandy soil at 5.22m OD (900mm below ground level). Cut in to [020] was a 500mm wide, vertically sided east-west cut sealed by a series of deposits ([048]) associated with inert drainage pipes. A layer of ash and brick ([049]) sealed [048] and was in turn overlain by a concrete floor (top - 6.12m OD).

TP19

TP19 revealed [021], an undated deposit of light-mid brown fine sand, 800mm below ground level (5.26m OD). Sealing [021] was ([050]) an extensive deposit of ash and brick rubble sealed by a concrete floor (top - 6.15m OD).

TP20

Investigation of TP20 revealed undated deposit [022] (mid-brown coarse sand soil with frequent small rounded pebbles and infrequent animal bone) 1m below ground level

(5.15m OD). Sealing [022] was ([051]) an 800mm thick deposit of ash and clinker sealed by a concrete floor surface (ground level – 6.15m OD).

TP21 (Fig. 3)

TP21 revealed ([023]) an undated deposit of light yellow/brown slightly clayey sand with occasional small limestone fragments and infrequent animal bone inclusions, 500mm below ground level (5.65m OD). Above [023] was [052], a dark grey ash and sand layer sealed by a deposit of ash and brick rubble ([053]). A concrete floor sealed the latter (6.15m OD).

TP22 (Fig. 3)

The earliest deposit encountered was ([024]) a mid-brown silt/sand with occasional charcoal and limestone fragments together with infrequent animal bone (5.53m OD – 500mm below ground level). Overlying [023] was ([054]) a layer of mid-brown silt with brick inclusions sealed by a concrete floor (ground level - 6.03m OD).

TP23

A deposit of mid-brown sand ([025]) with occasional charcoal flecks, small limestone fragments, infrequent animal bone together with two sherds of 13th century pot, lay at 5.99m OD (300mm below ground level). Above [025] was a layer of brick and limestone ([055]) overlain by a layer of tarmac (ground level – 6.29m OD).

TP24

Investigation of TP24 was based on the discovery of ([056]) a large steel tank/trough (*c.* 500mm wide, 4m+ long and at least 750mm deep) bounded by a brick structure ([059] - foundation?). The machine investigation of the tank revealed it to contain ash and clicker together with various corroded metal objects. The function of the tank/trough is unknown (ground level – 6.44m OD).

Table 1: *Trial Pit data showing OD height of existing ground level and the top of pre-19th century deposits.*

Trial Pit	Ground Level OD	Top of Pre-19th Century Deposits
TP1	7.10m OD	6.00m OD
TP2	7.45m OD	6.85 m OD
TP3	5.85m OD	4.90 m OD
TP4	5.95m OD	5.70 m OD
TP5	6.11m OD	5.61m OD
TP6	6.24m OD	5.59m OD
TP7	6.62m OD	6.32m OD
TP8	6.53m OD	6.23m OD
TP9	6.41m OD	5.51m OD
TP10	6.15m OD	5.60m OD
TP11	6.34m OD	6.09m OD
TP12	7.51m OD	6.71m OD
TP13	7.06m OD	6.66m OD
TP14	7.04m OD	6.44m OD
TP15	5.91m OD	5.16m OD
TP16	5.90m OD	5.60m OD
TP17	6.21m OD	5.46m OD
TP18	6.12m OD	5.22m OD
TP19	6.06m OD	5.26m OD
TP20	6.15m OD	5.15m OD
TP21	6.15m OD	5.65m OD
TP22	6.03m OD	5.53m OD

TP23	6.29m OD	5.99m OD
TP24	6.44m OD	N/A

SUMMARY OF BOREHOLE RESULTS (Fig. 2 and Appendix 5)

BH1

Borehole 1 revealed natural sand 2.80m below ground level (3.11m OD). Lying above natural were deposits of clayey soils and ash with inclusions of brick and wood (ground level - 5.91m OD).

BH2

The investigation of borehole 2 revealed sand believed to be natural at 4.30m OD (1.90m below ground level). Above natural lay deposits of ash and brick rubble (ground level – 6.20m OD).

BH3

Deposits of orange sand (natural) were revealed 1.80m (4.81m OD) below ground level. Overlying natural was clay and ash deposits with brick inclusions (ground level – 6.61m OD).

BH4

Orange silt sand (natural) lay 2.80m (3.49m OD) below ground level above which was a series of deposits containing sandy silt, ash, clinker and brick rubble (ground level – 6.29m OD).

BH5

Deposits of dark brown silt (natural) were encountered at 5.22m OD (2.10m below ground level). Above natural were deposits of concrete, ash and clayey silt with brick inclusions (ground level – 6.11m OD).

BH6

Natural deposits (orange/brown sands) occurred, 2.15m (3.93m OD) below ground level. Overlying natural was deposits of concrete, sand and ash with brick inclusions (ground level – 6.08m OD).

Table 2: *Borehole data showing estimated OD height of natural below existing ground level.*

Borehole	Ground Level OD	Natural? OD	Depth
BH1	5.91m OD	3.11m OD	2.80m
BH2	6.20m OD	4.30m OD	1.90m
BH3	6.61m OD	4.81m OD	1.80m
BH4	6.29m OD	3.49m OD	2.80m
BH5	7.32m OD	5.22m OD	2.10m
BH6	6.08m OD	3.93m OD	2.15m

In conclusion, the localised nature and limited scope of the geotechnical investigations has resulted in little exposure of the site's pre-19th century archaeological resource. The small quantity of datable material recovered similarly provides little insight into the nature of these earlier deposits, however, previous investigations on the site suggest that the pre-19th century deposits encountered during this investigation date to the post-medieval period.

Post-19th century deposits revealed during the investigations suggest widespread levelling of the site has taken place and corroborates findings made during earlier investigations on the site. Some brick-built structures were recorded as was extensive evidence of the sites more recent industrial use (concrete floors associated with the former Anchor Street Works extend across most of the site).

The borehole investigation similarly provides little interpretative information relating the archaeological content of the site, although it has revealed south-west sloping natural deposits to lie between 1.80m and 2.80m below ground level.

Although the results of this watching brief have proved largely negative, an enhancement of knowledge of the area has been achieved with regard to the survival and extent of archaeological deposits on the site. This information will be of value in future decision making in the management of the archaeological resource.

5.0 ACKNOWLEDGEMENTS

MJAS would like to thank Joynes Pike and Associates Ltd (Consulting Engineers) for funding the watching brief and post-fieldwork analysis. Thanks are also extended to Mr Michael Jones (City Archaeologist, City of Lincoln Council).

Fig. 2 of this report is based on a borehole & trial trench location drawing supplied by Joynes Pike and Associates Ltd (Consulting Engineers).

6.0 BIBLIOGRAPHY

Jarvis, M 2003, *The Former Anchor Street Works, Anchor Street, Lincoln, Archaeological Evaluation*, CLAU Report 515

Trimble, R 2002, *Geotechnical Survey at the Former Anchor Street Works, Anchor Street, Lincoln*, CLAU Report 510

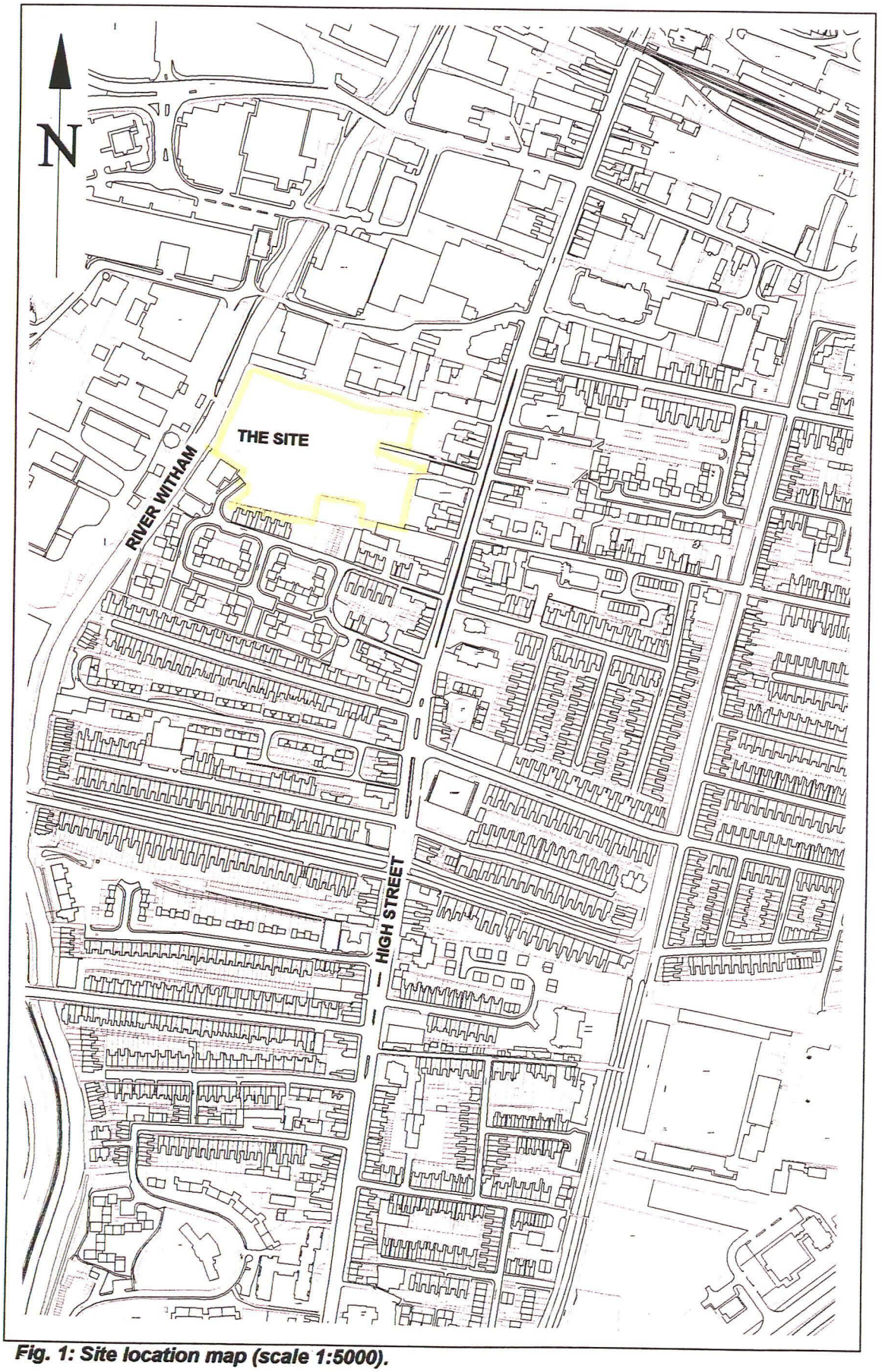

Fig. 1: Site location map (scale 1:5000).

Fig. 2: Trial pit and Borehole location plan (not to scale).

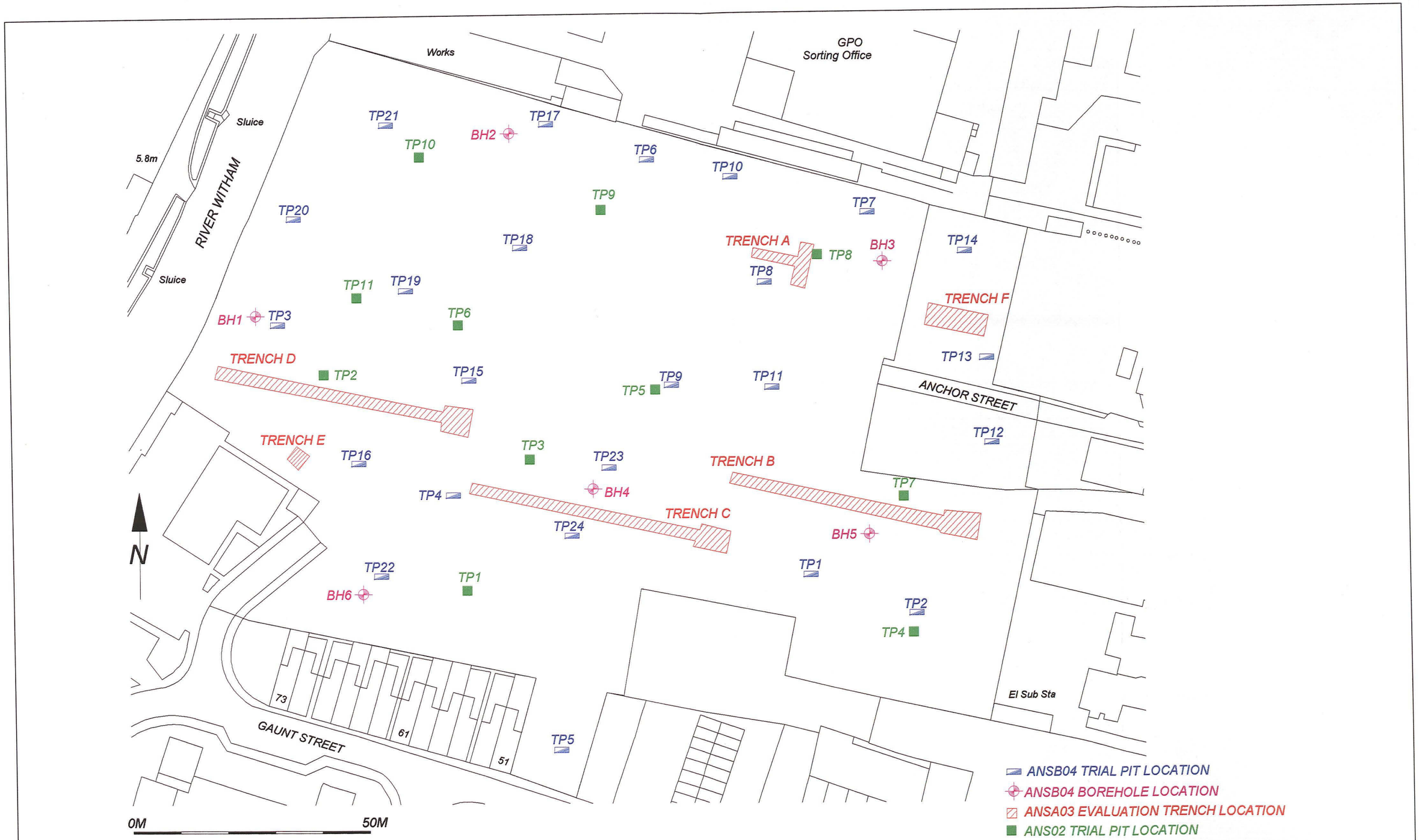

Fig. 2: Trial pit and Borehole location plan (not to scale).

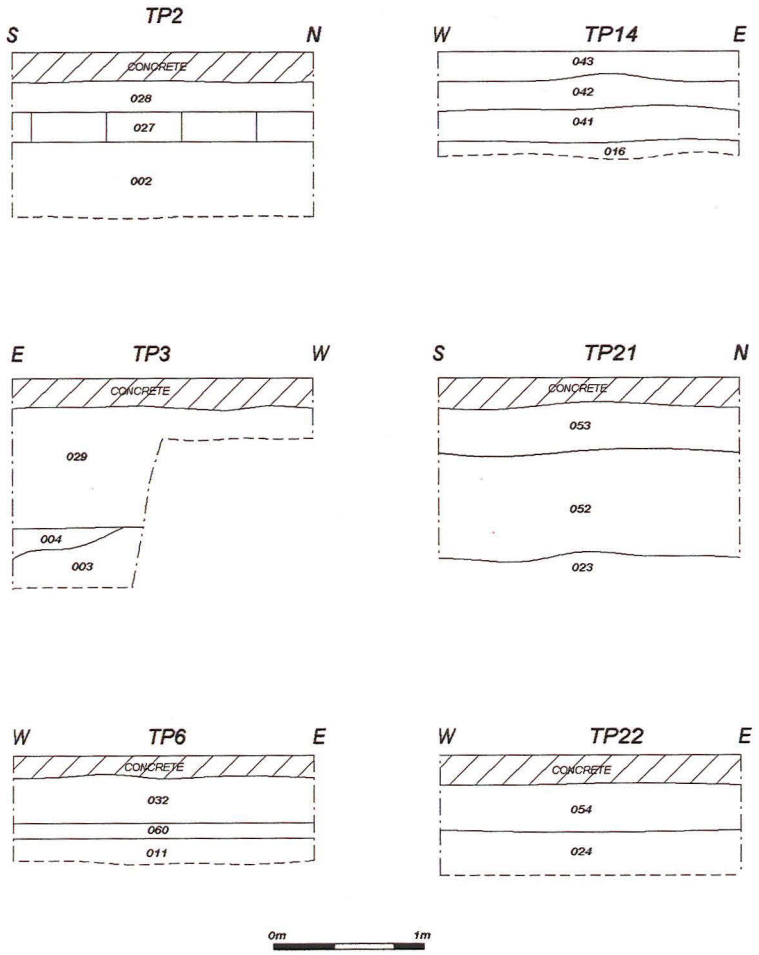

Fig. 3: Example trial pits sections TP2, 3, 6, 14, 21 and 22 (scale 1:50).

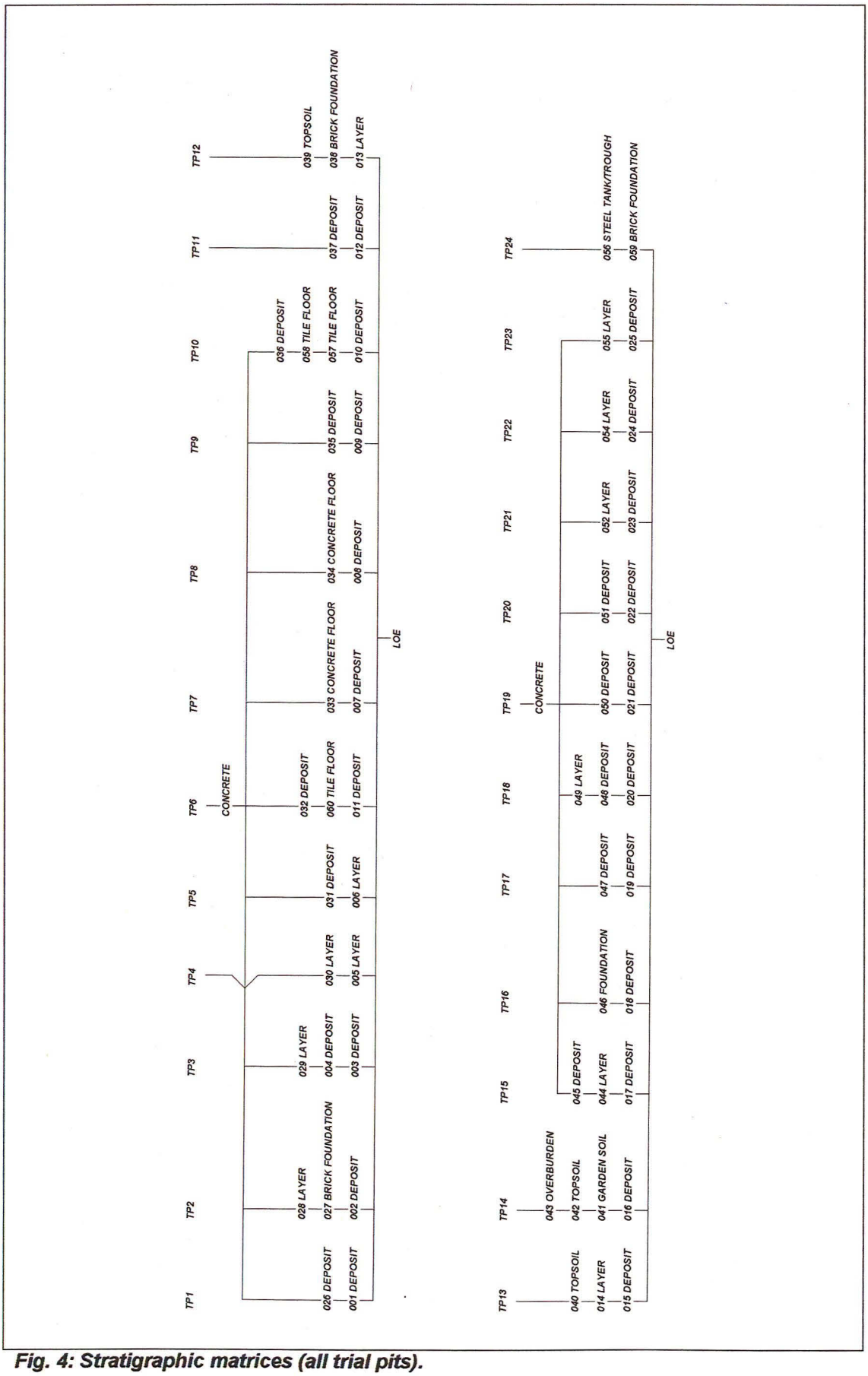

Fig. 4: Stratigraphic matrices (all trial pits).

ANCHOR STREET, LINCOLN

ARCHAEOLOGICAL WATCHING BRIEF IN CONJUNCTION WITH GEOTECHNICAL INVESTIGATIONS

APPENDIX 1: ARCHIVE DETAILS

SITE NAME: Archaeological Watching Brief at Anchor Street, Lincoln

SITE CODE: ANSB04

MJAS REPORT No: 521

NGR: SK 97167 70590

PROJECT TYPE: Watching Brief (in conjunction with geotechnical investigations)

PROJECT DATE: 16th – 18th March 2004

PLANNING APPLICATION No.: N/A

SMR No.: N/A

CIVIL PARISH: Lincoln

MUSEUM ACCESION No.: 2004.74

ARCHIVE PRESENT LOCATION: MJAS, 1 Torrington Road, Lincoln, LN2 2DP

ARCHIVE FINAL LOCATION: The City and County Museum, Friars Lane, Lincoln

ANCHOR STREET, LINCOLN

ARCHAEOLOGICAL WATCHING BRIEF IN CONJUNCTION WITH GEOTECHNICAL INVESTIGATIONS

APPENDIX 2: CONTEXT SUMMARY

Context	Trial Pit	Description
001	1	Firm-friable compaction, mid red/brown fine sand with occasional roof tile fragments and infrequent charcoal flecks.
002	2	Firm compaction, light-mid yellow/brown clayey sand with occasional tile fragments and charcoal flecks.
003	3	Firm-friable compaction, light-mid grey/brown silt sand with occasional tile and charcoal flecks.
004	3	Firm compaction, yellow/cream deposit (residue of animal processing?)
005	4	Firm-friable compaction, light brown silt sand with occasional tile and small angular limestone fragments.
006	5	Firm compaction, mid grey/brown clayey silt with occasional charcoal flecks and small rounded pebbles.
007	7	Firm-friable compaction, dark brown silt with occasional small angular limestone fragments.
008	8	Firm-friable compaction, dark brown silt with occasional small angular limestone fragments.
009	9	Friable, dark brown silt with occasional small angular limestone fragments and charcoal flecks.
010	10	Firm-friable compaction, dark grey/black fine silt with occasional charcoal flecks and small angular limestone fragments.
011	6	Firm-friable compaction, dark grey/black fine silt with occasional charcoal flecks and small angular limestone fragments.
012	11	Firm-friable compaction, dark grey/black fine silt with occasional charcoal flecks and small angular limestone fragments.
013	12	Firm-friable compaction, mid-dark grey silt sand with occasional small angular limestone fragments and charcoal flecks.
014	13	Very loose compaction, brick rubble, mortar, slate etc.
015	13	Firm compaction, mid-dark brown sandy soil with occasional small angular limestone fragments.
016	14	Loose compaction, pale yellow/brown sandy soil.
017	15	Firm, plastic dark brown silt with frequent small angular limestone fragments.
018	16	Friable, light-mid brown silt sand with occasional small angular limestone fragments.
019	17	Friable, mid-brown fine sand with occasional small angular limestone fragments and charcoal flecks.
020	18	Friable, light to mid-brown fine sandy soil.
021	19	Friable, light to mid-brown fine sandy soil.
022	20	Very friable, mid-brown coarse sand with frequent small rounded pebbles and occasional animal bone.
023	21	Friable, light yellow/brown slightly clayey fine sand with occasional small angular limestone fragments and infrequent animal bone.
024	22	Firm-friable compaction, mid-brown silt with occasional animal bone, charcoal and small angular limestone fragments.

025	23	Friable, mid-brown sand soil with occasional small angular limestone fragments, charcoal and infrequent animal bone.
026	1	Ash, brick, slag etc.
027	2	Brick foundation.
028	2	Ash.
029	3	Ash, brick, slag etc.
030	4	Ash and brick rubble.
031	5	Brick rubble.
032	6	Brick and tile.
033	7	Brick rubble.
034	8	Concrete.
035	9	Red/brown silt with ash and brick.
036	10	Stone, slate, tile etc.
037	11	Topsoil/ash mix.
038	12	Brick foundation.
039	12	Topsoil.
040	13	Topsoil.
041	14	Garden soil.
042	14	Topsoil.
043	14	Recent overburden.
044	15	Sand/silt lens's.
045	15	Ash, clinker, slag etc.
046	16	Concrete foundation.
047	17	Mid-dark brown, ashy clay sands with brick rubble.
048	18	Sandy soil.
049	18	Ash/brick mix.
050	19	Ash, brick etc.
051	20	Ash, clinker etc.
052	21	Dark grey/brown ashy sand.
053	21	Black ash.
054	22	Brown silt sand with gravel and brick.
055	23	Brick and limestone mix.
056	24	Steel tank/trough.
057	10	Quarry tile floor.
058	10	Quarry tile floor.
059	24	Brick surround/foundation.
060	6	Quarry tile floor.

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APPENDIX 3: FINDS REPORTS

ROMAN POTTERY
By B J Precious

The pottery has been recorded to the basic archive level according to the guidelines laid down by the Study Group for Roman Pottery using the computer codes and pottery recording system of the City of Lincoln Archaeology Unit (CLAU), and sherd count and weight in grams (g) as the measures.

The Roman pottery

This site produced five sherds weighing 104g of Roman pottery from four contexts ([006]: TP5; [019]: TP17; [024]: TP22; and [025]: TP23). The pottery is in fair condition. The average sherd/weight is over average at 20.8g, indicative of relatively fresh deposition; but this includes a single sherd profile from a triangular-rimmed dish from [006], weighing 60g. There are no sherd joins.

The Roman assemblage is predominantly later Roman in date, which corresponds well with the principal groups from previous excavations at the former Anchor Street Works (Precious: August 2003). Most of the pottery consists of grey wares similar to those produced at the Swanpool kilns during the later Roman period, and are mainly domestic, cooking wares.

Context [006] produced the single vessel mentioned above in grey ware (GREY, BTR) similar to that of the Swanpool kilns that operated from the later 3rd to the 4th century. There is a trace of an indentation that might be part of a Romano-Saxon design of mid to late 4th century date.

A similar rim form, but from a bowl rather than a dish, in a dark grey, burnished fabric came from [019] (BBT, BTR). The form and fabric resembles black-burnished types of later 2nd to at least the 3rd century date, but is residual with post-Roman pottery. Context [024], from a trial pit close to Context [006] (TP5), also produced grey wares similar to those from the Swanpool kilns, including a flanged bowl with a low bead (BFBL) and a fragment of a cooking pot with acute, burnished lattice decoration (CP, LA), dating from the later 3rd to the 4th century.

The smallest sherd, an undiagnostic body sherd from a grey jar (GREY, J), came from TP23 in the center of the site – Context [025]. It is also associated with post-Roman pottery and is broadly dated from the 2nd to the 4th century.

The pottery is in stable condition and should be retained for further work.

References

Precious, B J in Jarvis, M 2003, *The Former Anchor Street Works, Anchor Street, Lincoln, Archaeological Evaluation*, CLAU Report 515

Precious, B J in Trimble, R 2002, *Geotechnical Survey at the Former Anchor Street Works, Anchor Street, Lincoln*, CLAU Report 510

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APPENDIX 4: FINDS ARCHIVE

POST-ROMAN POTTERY ARCHIVE

Context	Cname	Full Name	Form Type	Sherds	Weight	Decoration	Part	Description	Date
007	LSW2/3	13th to 15th century Lincoln Glazed Ware	jug	1	22		BS	reduced glaze; reduced int	13th to 15th
010	LSW2/3	13th to 15th century Lincoln Glazed Ware	pipkin	1	6		BS	ridged shoulder; glaze	13th to 15th
018	LSWA	Lincoln Glazed ware Fabric A	jug	1	7		BS		13th to 15th
019	LSW2	13th to 14th century Lincoln Glazed Ware	jug	1	14	applied vert scales between applied vert strips	BS		13th
019	LSW2	13th to 14th century Lincoln Glazed Ware	jug	1	5	applied vert fe notched strips	BS	possibly overfired	early to early/mid 13th
025	LSW2	13th to 14th century Lincoln Glazed Ware	jug	1	11	multi applied vert strips	BS	misfired cu glaze	13th
025	LSW2	13th to 14th century Lincoln Glazed Ware	jug	1	3	fe applied dec ?	BS	pocked glaze	early to mid 13th

TILE ARCHIVE

Context	Cname	Full Name	Fabric	Sherds	Weight	Description	Date
001	PNRDISC	Discarded peg, nib or ridge tile	1	4	591g	flat roofer; 2 lower corners; same tile	late 12th to 15th
002	PNRDISC	Discarded peg, nib or ridge tile	1	4	268g	flat roofer	late 12th to 15th
002	PNRDISC	Discarded peg, nib or ridge tile	7	2	107g	flat roofer	mid 12th to mid 13th
003	PNRDISC	Discarded peg, nib or ridge tile	1	1	46g	flat roofer; thin tile	late 12th to 15th
003	PNRDISC	Discarded peg, nib or ridge tile	1	1	76g	flat roofer; corner	late 12th to 15th
003	PNRDISC	Discarded peg, nib or ridge tile	1	1	45g	flat roofer	late 12th to 15th
005	PNRDISC	Discarded peg, nib or ridge tile	1	1	88g	flat roofer; corner	late 12th to 15th
005	PNRDISC	Discarded peg, nib or ridge tile	1	2	207g	flat roofer	late 12th to 15th
009	RTILDISC	Discarded Roman tile		1	68g	probably TEG	Roman
016	PNRDISC	Discarded peg, nib or ridge tile	1	3	173g	flat roofer	late 12th to 15th
018	PNRDISC	Discarded peg, nib or ridge	7	1	117g	flat roofer	mid 12th

		tile					to mid 13th
019	PNRDISC	Discarded peg, nib or ridge tile	1	1	50g	flat roofer	late 12th to 15th

ROMAN POTTERY

Context	Fabric	Form	Decoration	Novess	Drawing no.	Alter	Comments	Sherds	Weight
006	grey	DTR	B				rim base prof; indent? rosa?; spool	1	60g
006	zdate						I3-4c		
006	zzz						TP5		
019	bbt	BTR	B			abr	rim bkn; girth	1	14g
019	zdate						I2-3c+/postro		
019	zzz						TP17		
024	grey	BFBL				abr	flange rim bkn girth	1	18g
024	grey	CP	LA				bs	1	9g
024	zdate						I3-4c		
024	zzz						TP22		
025	grey	J					bs	1	3g
025	zdate						2-4c/postro		
025	zzz						TP23		

ANCHOR STREET, LINCOLN

ARCHAEOLOGICAL WATCHING BRIEF IN CONJUNCTION WITH GEOTECHNICAL INVESTIGATIONS

APPENDIX 5: BOREHOLE LOGS

Geotechnical services

A member of the Van Elle Group of Companies

Kirkby Lane, Pinxton, Nottinghamshire NG16 6JA
Telephone: 01773 580580 Fax: 01773 862100

FACTUAL GROUND INVESTIGATION REPORT

Contract: Anchor Street, Lincoln

Date: 1 April 2004

Client: Joynes Pike & Associates

Job No. G40161

Analysed By A.J.L

Date 6/4/4

Van Elle Ltd (Geotechnical Division)
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BOREHOLE LOG

Project				BOREHOLE No
Anchor Street, Lincoln				BH1b
Job No	Date	Ground Level (m)	Co-Ordinates ()	
g40161	30-03-04 30-03-04			
Contractor				Sheet 1 of 2

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						0.20	MADE GROUND (reinforced concrete)		
						0.30	MADE GROUND (bituminous bound material)		
0.50-0.60	D					(0.65)	MADE GROUND (ash)		
						0.95			
1.00-1.20	D					1.00	MADE GROUND (ash,clay,brick and stone)		
1.20-1.70	B	N9				1.30	MADE GROUND (soft white chalk)		
						(0.40)	MADE GROUND (silt with crushed brick)		
						1.70			
1.70-1.90	D					1.90	MADE GROUND (Firm brown clayey silt)		
1.90-2.00	D								
2.00-2.50	B	N3/ 0.304				(0.90)	MADE GROUND (soft black clayey silt with crushed brick, wood and shells)		
			11			2.80			
2.80-2.90	D						Loose wet grey silty SAND		
3.00-3.50	D	N9				(0.70)			
						3.50			
4.00		N9				(2.35)	Medium dense silty fine grained SAND		
5.00		N11							
						5.85			
5.85-5.90	D						Medium dense brown SAND and GRAVEL		
5.90		N16				(0.85)			
						6.70			
						7.00	Soft with dark staining clayey SILT		
7.00		N18					Medium dense brown SAND and GRAVEL with occasional thin silt bands		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	

All dimensions in metres Scale 1:50	Client Joynes Pike Associates	Method/ Plant Used	Logged By D Evans

AGS3 UK BH G40161.GPJ AGS3_ALL.GDT 6/4/04

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BOREHOLE LOG

Project				BOREHOLE No
Anchor Street, Lincoln				BH1b
Job No	Date	Ground Level (m)	Co-Ordinates ()	
g40161	30-03-04 30-03-04			
Contractor				Sheet 2 of 2

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
8.00		N19				(2.80)	Medium dense brown SAND and GRAVEL with occasional thin silt bands *(continued)*		
9.10		N24				9.80			
9.80-10.00	D						Dense orange brown sandy GRAVEL		
10.00		N38							
11.00-11.50	D	N41				(2.35)			
						12.15			
12.15-12.20	D						Stiff becoming very stiff LIAS CLAY		
12.20		N41							
13.40		N50/ 0.298				(2.85)			
14.50		N50/ 0.222							
						15.00			
15.00		N50/ 0.065							

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
						14.7	15	1 hour			

All dimensions in metres Scale 1:50	Client Joynes Pike Associates	Method/ Plant Used	Logged By D Evans

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BOREHOLE LOG

Project				BOREHOLE No
Anchor Street, Lincoln				BH2b
Job No	Date	Ground Level (m)	Co-Ordinates ()	
g40161	27-03-04 28-03-04			
Contractor				Sheet
				1 of 2

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						0.20	MADE GROUND (concrete)		
						0.40	MADE GROUND (ash)		
0.50-1.00	B					(0.50)	MADE GROUND (ash, brick and sandy silt)		
0.75-0.85	D					0.90			
1.20-1.30	D	N28/					MADE GROUND (layered brick)		
1.30-1.70	D	0.076				(1.00)			
						1.90			
1.90-2.10	D	N7				(0.70)	Loose yellowish brown SAND		
						2.60			
2.60-2.80	D					2.90	Soft mottled yellow and grey sandy silty CLAY		
2.90-3.10	D	N11					Medium dense orange brown SAND		
4.00		N15				(3.80)			
5.00		N15							
6.00		N20							
						6.70			
6.70-6.80	D						Stiff brown sandy BOULDER CLAY with bands of sand and gravel		
6.80-7.25	D	N23				(1.90)			

Boring Progress and Water Observations					
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt

Chiselling			Water Added	
From	To	Hours	From	To

GENERAL REMARKS

Water was at 3.10m when borehole at a depth of 8.00m on am of 28/03/04, on completion of drilling water at a depth of 13.70m

All dimensions in metres Scale 1:50	Client Joynes Pike Associates	Method/ Plant Used	Logged By D Evans

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BOREHOLE LOG

Project				BOREHOLE No
Anchor Street, Lincoln				BH2b
Job No	Date	Ground Level (m)	Co-Ordinates ()	
g40161	27-03-04 28-03-04			
Contractor				Sheet
				2 of 2

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
8.00-8.10	D	N36					Stiff brown sandy BOULDER CLAY with bands of sand and gravel *(continued)*		
8.10-8.50	B					8.60			
8.60-8.80	D						Dense SAND and GRAVEL		
8.80-9.30	D	N26							
10.00-10.50	D	N37				(4.05)			
11.00-11.50	D	N39							
12.00-12.50	D	N42				12.65			
12.65-12.85	D	N48					Stiff becoming very stiff LIAS CLAY		
13.50		N50/ 0.288				(2.50)			
14.50		N51/ 0.24							
15.15		N188/ 0				15.15			

Boring Progress and Water Observations					
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt

Chiselling			Water Added	
From	To	Hours	From	To
14.8	15.15	1 hour		

GENERAL REMARKS

Water was at 3.10m when borehole at a depth of 8.00m on am of 28/03/04, on completion of drilling water at a depth of 13.70m

All dimensions in metres Scale 1:50	Client Joynes Pike Associates	Method/ Plant Used	Logged By D Evans

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BOREHOLE LOG

Project				BOREHOLE No
Anchor Street, Lincoln				BH3
Job No	Date	Ground Level (m)	Co-Ordinates ()	
g40161	26-03-04 26-03-04			
Contractor				Sheet 1 of 2

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						0.20	MADE GROUND (concrete)		
0.50-0.60	D					(0.80)	MADE GROUND (crushed brick and ash)		
1.00-1.10	D					1.00			
1.20-1.65	D	N2/ 0.304				(0.65)	MADE GROUND (clay and crushed brick)		
1.70-1.80	D					1.65			
1.80-1.90	D					1.80	MADE GROUND (brown sand)		
1.90-2.35	B	N9				(0.90)	Loose orange SAND		
2.70-2.80	D		11			2.70			
2.80		N14				2.90	Soft mottled sandy silty CLAY		
3.80		N16				(3.60)	Medium dense orange SAND		
4.80		N15							
5.90		N19				6.50			
6.50-6.70	D						Medium dense orange brown SAND and GRAVEL		
6.70		N15							
7.50		N23							

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	

All dimensions in metres Scale 1:50	Client Joynes Pike Associates	Method/ Plant Used	Logged By D Evans

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BOREHOLE LOG

Project				BOREHOLE No
Anchor Street, Lincoln				BH3
Job No	Date	Ground Level (m)	Co-Ordinates ()	
g40161	26-03-04 26-03-04			
Contractor				Sheet 2 of 2

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						(3.80)	Medium dense orange brown SAND and GRAVEL *(continued)*		
8.50		N26							
9.50		N26				10.30			
10.30-10.40	D	N24					Medium dense brown SAND		
						(1.70)			
11.30		N28				12.00			
12.00-12.10	D	N43					Dense SAND and GRAVEL		
12.10-12.50	D					(1.65)			
13.00-13.50	D	N50				13.65			
13.65-13.75	D						Stiff becoming very stiff with depth grey LIAS CLAY		
13.70		N41/ 0.228				(1.45)			
14.70		N52/ 0.222				15.10			
15.10		N50/ 0.07							

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
						14.8	15.1	1 hour			

All dimensions in metres Scale 1:50	Client Joynes Pike Associates	Method/ Plant Used	Logged By D Evans

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BOREHOLE LOG

Project				BOREHOLE No
Anchor Street, Lincoln				BH4
Job No	Date	Ground Level (m)	Co-Ordinates ()	
g40161	01-04-04 01-04-04			
Contractor				Sheet 1 of 2

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						(0.40) 0.40	MADE GROUND (concrete0		
0.45-0.55	D					0.60	MADE GROUND (ash and crushed brick)		
0.60-0.70	D						MADE GROUND (black silty ash with brick and stone)		
0.70-1.10	B					(0.90)			
1.20-1.70	B	N3/ 0.304				1.50			
						(0.60) 2.10	MADE GROUND (brown ash and clinker)		
2.10-2.20	D	N2/					MADE GROUND (coal crushed brick and sandy silt)		
2.20-2.60	B	0.304				(0.70) 2.80			
2.80-2.90	D					2.90	Orange silty SAND with silt bands		
2.90-3.00	D		▼			3.10	Orange brown mottled grey CLAY		
3.00-3.10	D	N6					Wet loose becoming medium dense orange brown SAND		
4.00		N8							
						(3.60)			
5.00		N12							
6.00		N15							
						6.70			
6.70-6.80	D						Medium dense orange brown SAND and GRAVEL		
7.00-7.50	D	N15				(2.35)			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	

All dimensions in metres Scale 1:50	Client Joynes Pike Associates	Method/ Plant Used	Logged By D Evans

AGS3 UK BH G40161.GPJ AGS3_ALL.GDT 6/4/04

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BOREHOLE LOG

Project				BOREHOLE No
Anchor Street, Lincoln				BH4
Job No	Date	Ground Level (m)	Co-Ordinates ()	
g40161	01-04-04 01-04-04			
Contractor				Sheet
				2 of 2

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
8.10-8.60	D	N15					Medium dense orange brown SAND and GRAVEL *(continued)*		
						9.05			
9.00-9.50	D	N20					Dense brown SAND and GRAVEL		
10.00-10.50	D	N25				(3.55)			
11.10-11.60	D	N41							
12.00-12.10	D	N42							
						12.60			
12.60-12.70	D						Stiff grey LIAS CLAY		
12.70		N41							
						(2.60)			
14.50		N50/ 0.202							
						15.20			
15.20		N50/ 0.065							

Boring Progress and Water Observations					
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt

Chiselling			Water Added	
From	To	Hours	From	To
14.8	15.2	1 hour		

GENERAL REMARKS

All dimensions in metres Scale 1:50	Client Joynes Pike Associates	Method/ Plant Used	Logged By D Evans

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BOREHOLE LOG

Project				BOREHOLE No
Anchor Street, Lincoln				BH5
Job No	Date	Ground Level (m)	Co-Ordinates ()	
g40161	25-03-04 25-03-04			
Contractor				Sheet 1 of 2

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						0.20	MADE GROUND (reinforced concrete)		
0.50-0.60	D					(0.50)	MADE GROUND (layered brick with ash)		
0.60-1.00	B					0.70			
						0.80	MADE GROUND (concrete)		
						(0.50)	MADE GROUND (crushed brick, ash and clayey silt)		
1.20		N8				1.30			
						(0.80)	MADE GROUND (clayey silt,brick and sandstone)		
2.10-2.20	D	N10				2.10			
						(0.40)	Dark brown sandy SILT with thin bands of sand		
						2.50			
3.00-3.50	B	N8				(1.20)	Loose orange brown fine grained SAND		
						3.70			
3.70-3.80	D		1			(0.40)	Soft mottled light brown and grey sandy silty CLAY		
4.00		N16	1			4.10			
							Medium dense orange brown SAND		
5.00		N13							
						(3.50)			
6.10		N18							
7.00		N16							
						7.60			
7.60-7.80	D						Medium dense becoming dense orange brown SAND and GRAVEL		
7.80-8.30	B	N16							

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	

All dimensions in metres Scale 1:50	Client Joynes Pike Associates	Method/ Plant Used	Logged By D Evans

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BOREHOLE LOG

Project				BOREHOLE No
Anchor Street, Lincoln				BH5
Job No	Date	Ground Level (m)	Co-Ordinates ()	
g40161	25-03-04 25-03-04			
Contractor				Sheet 2 of 2

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
							Medium dense becoming dense orange brown SAND and GRAVEL *(continued)*		
8.60-8.80	D	N25							
9.50-10.00	D	N36				(5.60)			
10.65 10.70- 11.20	D	N36							
11.70		N35							
12.15- 12.30	D								
12.70- 13.20	D	N42				13.20			
13.20- 13.40	D	N50/ 0.222					Stiff becoming very stiff with depth LIAS CLAY		
14.20		N50/ 0.278				(2.10)			
15.30		N50/ 0.126				15.30			

Boring Progress and Water Observations					
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt

Chiselling			Water Added	
From	To	Hours	From	To
14.9	15.3	1 hour		

GENERAL REMARKS

All dimensions in metres Scale 1:50	Client Joynes Pike Associates	Method/ Plant Used	Logged By D Evans

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BOREHOLE LOG

Project				BOREHOLE No
Anchor Street, Lincoln				BH6
Job No	Date	Ground Level (m)	Co-Ordinates ()	
g40161	29-03-04 29-03-04			
Contractor				Sheet 1 of 2

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						0.20	MADE GROUND (reinforced concrete)		
						0.40	MADE GROUND (road stone)		
0.50-1.00	B					(0.80) 1.20	MADE GROUND (ash,brick,concrete and gravel)		
1.20-1.30	D	N10					MADE GROUND (Clayey sand with stone and occasional small pieces of wood)		
1.30-1.70	B					(0.95) 2.15			
2.15-2.30	D					2.30	Loose mottled SAND with occasional gravels		
2.30-2.40	D	N7					Damp loose becoming medium dense orange brown SAND with thin bands of clay		
2.40-2.80	B					(0.80) 3.10			
3.10-3.20	D						Medium dense orange brown SAND		
3.20		N7	▽						
4.25		N9				(3.05)			
5.20		N13							
						6.15			
6.15-6.30	D						Medium dense becoming very dense SAND and GRAVEL		
6.30-6.80	D	N12							
7.30-7.75	D	N13							

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	

All dimensions in metres Scale 1:50	Client Joynes Pike Associates	Method/ Plant Used	Logged By D Evans

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BOREHOLE LOG

Project				BOREHOLE No
Anchor Street, Lincoln				BH6
Job No: g40161	Date: 29-03-04 29-03-04	Ground Level (m):	Co-Ordinates ():	
Contractor:				Sheet: 2 of 2

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
8.20-8.70	D	N15					Medium dense becoming very dense SAND and GRAVEL *(continued)*		
9.10-9.60	D	N19				(5.95)			
10.00-10.50	D	N21							
11.10-11.60	D	N36							
12.00-12.10 12.10	D	N75/ 0.036 N70/ 0.04				12.10			

Boring Progress and Water Observations					
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt

Chiselling			Water Added	
From	To	Hours	From	To
12.05	12.1	2 hours		

GENERAL REMARKS

All dimensions in metres Scale 1:50	Client: Joynes Pike Associates	Method/ Plant Used	Logged By: D Evans

AGS3 UK BH G40161.GPJ AGS3_ALL.GDT 6/4/04

VE Geotechnical services

LEGEND

U	Undisturbed driven tube sample, 100mm nominal diameter unless noted
P	Undisturbed pushed piston sample, 100mm nominal diameter unless noted
TW	Thin wall tube (pushed)
CBR	CBR mould sample
BLK	Block sample
D	Small disturbed sample
B	Disturbed bulk sample
J	Jar Sample
WS	Water sample
CS	Core sample

Test results

S	Standard penetration test, split spoon sampler
C	Standard penetration test, solid cone
K	Field permeability test, kFH indicates falling head, kPI indicates packer injection
V	Field vane test [natural (n) remoulded (r)]
I_a or I_d	Point load strength quoted for axial (a) and diameter (d)
CS	Core sample for laboratory testing
PP	Pocket Penetrometer