

Westfield Nurseries, Norton 03.06.09

TABLE 1

Brick Catalogue

Context	Quantity	Weight	Item	Size	Colour	Fabric	Inclusions	Comments	Date
	Retain	grams		inches	munsell				
1003	2	1325	1	4 x 4 3/8 x 2 3/8	2.5YR 3/6-3/0	M	L/S & coal	Slop moulded, poor edges, sand base, uneven firing, slip	18th
			2	2 3/8 x 4 1/4 x 2 3/4	10R 5/6	C	L/S & voids	Slop moulded, poor edges, uneven firing, herringbone stack marks, blown in kiln, air pocket, slip	
1005	2	1065	1	4 1/2 x 4 3/8 x 2 1/4	5YR 6/8	C	L/S & voids	Slop moulded, uneven edges, wipe marks, slip	
			2	2 3/8 x 2 3/8 x 2 3/8	2.5YR 5/8	C	L/S & coal	Slop moulded, poor edges, cracked, clay laminated,	
1009	6	6335	1	8 x 4 x 2 3/4	5YR 3/1		L/S & coal	Waster, 2 bricks fused together, intense burning, vitrification, cracked, good edge, blown, ?kiln wall	?19th
			2	5 1/2 x 4 1/2 x 2 1/4	2.5YR 5/8	C	L/S & coal	Slop moulded, cracked, bow mark, uneven edges	18th

			3	3 1/2 x 4 1/2 x 2 3/8	2.5YR 5/8	C	L/S & voids	Cracked, uneven firing, poor edges, horizontal stack mark, slip	early mid 18th
			4	4 3/8 x 4 3/8 x 2 3/8	2.5YR 5/8		L/S & coal	Uneven firing & edges, cracked, vegetation impressions	early mid 18th
			5	5 1/2 x 4 3/8 x 2 3/8	2.5YR 4/8		L/S & coal	Slop moulded, cracked, laminated clay, uneven edge, slip	late 17th/early 18th
			6	4 3/4 x 3 1/4 x 2 1/4	5YR 4/1		Voids	Worn and uneven edges, slip	
1010	12	6650	1	4 x 4 1/4 x 2 3/8	10R 5/6 - 7.5YR 5/4	C	L/S & voids	Waster, highly fired, vitrified, cracked, poor edges,	late 17th/early 18th
			2	4 1/4 x 4 1/4 x 2 3/8	10R 5/6	C	L/S & voids	Bow mark, uneven edges	
			3	3 1/4 x 4 1/4 x 2 3/8	10R 5/6	M	L/S & voids	Uneven firing and edges,	
			4	4 x 2 3/4 x 2 3/8	2.5YR 5/4	C		Fragment, cracked, v. poor edges, laminated clay	
			5	4 x 2 1/4 x 1 1/2	5YR 4/1	C	L/S & voids	Slop moulded, poor edges, uneven firing	
			6	3 1/4 x 1 1/4 x 5/8	2.5YR 5/6-5YR 6/2	C	L/S & coal	Slop moulded, poor edges, uneven firing, laminated clay	
			7	6 3/4 x 4 x 2 3/4	2.5YR 5/6 - 3/6	C	Voids	Uneven firing and edges, cracked, vertical stack mark, slip	

			8	4 1/2 x 4 1/4 x 2 3/8	2.5YR 5/8-5/2	C	L/S & coal	Bow mark, fair edges, uneven fring, laminated clay	
			9	6 x 2 3/4 x 2 3/8	2.5 YR 5/8	M	L/S & coal	Bow mark, laminated clay, vegetation impressions	
			10	3 1/2 x 3 1/2 x 2 3/8	2.5YR 6/2	M	L/S & coal	Uneven firing, sharp edges, cracked, 2 incised lines - tally	
			11	2 3/8 x 4 1/4 x 2 1/4	5YR5/1-10R 5/6	M	L/S & coal	Slop moulded, uneven firing, bow mark	
			12	3 1/2 x 4 x 3	5YR 2.5/1	M-C	VOIDS	Waster, highly fired, vitrified, honeycombe, laminated clay	
1013	5	4740	1	9 x 4 1/4 x 2 3/4	5YR 3/1-5/3			Slop moulded, bow mark, uneven firing, some vitrification, vertical stacking mark, sand base, poor edges, cracked, thumb prints	early/mid 18th
			2	5 1/8 x 4 1/4 x 2 3/8	5YR 3/1	M	L/S & coal	Waster, blown header, cracked, vitrified, light in weight	
			3	5 7/8 x 4 1/4 x 2 3/8	2.5YR 4/8	M	L/S & coal	Bow mark, vegetation prints, laminated clay, uneven edges, paw print, cat	

			4	3 1/8 x 4 1/4 x 2 1/2	2.5YR 6/8	M-C		Slop moulded, sharp edges, sand base, slip	
			5	2 3/4 x 4 1/4 x 2 1/2	2.5Y 5/4-3/0	M	L/S & coal	Slop moulded, uneven firing and edges, sand base, slip	
1015	2	454	1	3 1/2 x 3 x 2	2.5YR 5/4	M	L/S & coal	Fragment, poor edges, alot of coal, vegetation impressions, slip	?
			2	3 1/2 x 2 1/4 x 2 3/8	2.5YR 5/8	M	Coal	Fragment, no edges, alot of coal, vegetation impressions	
1018	20	16470	1	6 1/4 x 4 1/4 x 2 3/4	2.5YR 2.5/0		L/S & coal	Waster, cracked, vitrified, vegetation impressions, sand base, blownn edge, honeycombe, thumb print	early/mid 18th
			2	5 1/4 x 4 x 2 1/2	2.5YR 4/4-2.5/0			Waster, bow mark, slip	
			3	6 1/4 x 4 x 2 3/8	2.5YR 3/0			Waster, totally misshapen,	
			4	4 x 4 1/4 x 2 3/8	2.5YR 3/0		L/S & coal	Waster, totally misshapen, honeycombe, light	
			5	4 3/4 x 4 3/4 x 2 3/4	2.5YR 5/8-10R 2.5/1		L/S, voids & coal	Waster, misshapen, vegetation impressions, cracked	

		6	3 3/4 x 4 x 2 3/8	2.5YR 5/8-3/0			Waster, overfired, clay lamination, sand base
		7	3 1/2 x 4 x 2 3/4	7.5YR 5/2		L/S, voids & coal	Waster, overfired
8	8680	8	2 3/4 x 4 x 2 1/2	5YR 4/1		L/S, voids & coal	Waster, overfired
		9	6 1/2 x 4 1/4 x 2 3/8	2.5YR 5/8	C	L/S & coal	Sharp edges, sand base
		10	4 x 4 1/4 x 2 1/4	2.5YR 4/8-3/6	C	L/S & coal	Uneven firing, vertical stack marks, sand base, laminated clay, vestiges of slip
		11	5 1/2 x 4 x 2 1/2	2.5YR 4/6	C	L/S, voids & coal	Laminated clay, sand base
		12	3 1/2 x 4 1/4 x 2 3/4	2.5YR 4/8	M-C	L/S & coal	Well fired, cracked, sharp edges,
		13	3 1/2 x 4 1/8 x 2 1/2	2.5YR 4/8	M	L/S & coal	Horizontal stack mark, poor edges,
		14	3 x 4 1/4 x 2 1/2	2.5YR 3/4	M-C	L/S & coal	Slop moulded, sand base, laminated clay
		15	3 1/4 x 4 1/4 x 2 1/4	2.5YR 5/6	M-C	L/S & coal	Slop moulded, bow mark, poor edges, thumb print
		16	4 1/4 x 2 3/4 x 2 3/8	2.5YR 5/6	M-C	L/S, voids & coal	Poor edges, vertical marks, square impression, slip
		17	2 3/4 x 2 3/4 x 2 3/8	2.5YR 5/6	M	L/S & coal	Slop moulded, sharp edges,
		18	3 x 2 x 2 1/4	2.5YR 4/8	M	L/S & coal	Slop moulded, sharp edges, sand base

			19	3 1/8 x 2 x 2 1/2	2.5YR 5/2-4/8	M	L/S & coal	Slop moulded, sharpe edges, sand base, horizontal stack mark, intensely fired, slip
	12	7790	20	2 1/2 x 2 1/4 x 1 1/2	2.5YR 4/8	M	L/S, voids & coal	poor edges, slip
4002	15	14525	1	8 7/8 x 4 1/4 x 2 1/4	2.5YR 6/8	M	L/S & coal	Slop moulded, vegetstion impression, striations, rodent paw print
			2	7 1/2 x 4 1/4 x 2 1/4	2.5YR 6/8	M	L/S	Slop moulded, good edge, bow mark, stack marks, cracked, uneven firing, sand base
			3	6 5/8 x 4 1/4 x 2 1/8	2.5YR 6/8	C	Voids & coal	Bow mark, cracked, stack marks
			4	6 3/4 x 4 1/4 x 2 1/4	2.5YR 6/8	C	L/S	Uneven firing, laminated clay, sand base, 2 incised lines - tally
			5	6 1/2 x 4 1/4 x 2 1/8	2.5YR 6/8	C	L/S & voids	Uneven firing, stacking marks
			6	5 3/4 x 4 1/4 x 2 1/4	2.5YR 5/8	M	L/S & coal	Uneven firing, bow mark, slop moulded, stacking mark, slight vitrification
			7	4 3/8 x 4 1/4 x 2 1/4	5YR 5/6	M	L/S & coal	Bow mark, cracked, Y incised tally mark

8	3 1/8 x 4 1/4 x 2 1/4	10R 5/6	M	L/S & coal	Uneven firing, poor edges, vegetation marks, burning/vitrification on stretcher edge
9	4 1/4 x 4 1/4 x 2 1/8	2.5YR 6/8	M	L/S & coal	Bow mark, poor edges, uneven firing, slop moulded
10	3 7/8 x 4 1/4 x 2 1/4	2.5YR 6/8	F	L/S & coal	Slop moulded, uneven firing, cracking, laminated clay
11	3 3/8 x 4 1/2 x 2 1/4	2.5YR 6/8	M	L/S, voids & coal	Slop moulded, uneven firing, cracking, near vitrification, blown header, moderate edges, sand base
12	3 1/2 x 4 1/2 x 2 1/4	2.5YR 6/8	M	L/S & coal	Cracked, vegetation impressions, sand base, thumb print on header
13	3 3/8 x 2 5/8 x 2 1/4	2.5YR 6/8-5YR 4/1	M	L/S, voids & coal	Slop moulded, uneven firing, sand base
14	3 1/4 x 3 x 2 1/4	2.5YR 6/8-5YR 4/1	M-C	L/S & coal	Slop moulded, vegetation impression, stack mark
15	3 1/2 x 4 1/2 x 2 1/2	5YR 3/1 - 5YR 6/4	F-M	L/S & coal	Slop moulded, good edges, sand base

4005	7	338	1	2 3/4 x 1 3/4 x 1 1/4	5YR 3/1 - 5YR 6/5	F	L/S & coal	Items 1-6 probably same brick. Poorly fired, slop moulded, vegetation impressions,	
			2	2 x 2 x 1 3/4	5YR 3/1 - 5YR 6/6	F	L/S & coal	as 1	
			3	2 x 1 5/8 x 3/4	5YR 3/1 - 5YR 6/7	F	L/S & coal	as 1	
			4	2 x 1 3/8 x 1/2	5YR 3/1 - 5YR 6/8	F	L/S & coal	as 1	
			5	1 3/8 x 1 x 3/4	5YR 3/1 - 5YR 6/9	F	L/S & coal	as 1	
			6	1 3/4 x 1 x 1/8	5YR 3/1 - 5YR 6/9	F	L/S & coal	as 1	
			7	1 1/2 x 1 x 1/8	2.5YR 6/8	F	L/S	Sliver	
4007	1	14	1	2 x 1 1/4 x 5/8	10R 6/2 - 5YR 6/6	F	L/S	Fragment, differential firing, vegetation impression	
4009	5	1950	1	5 1/2 x 2 3/4 x 2 3/8	2.5YR 6/8	F	L/S	Slop moulded, bow mark, vegetation impressions, laminated clay	Late 17th/early 18th
			2	3 1/4 x 4 3/8 x 2 1/8	5YR 6/4	F	L/S	Slop moulded, bow mark, vegetation impressions, laminated clay	
			3	4 1/4 x 2 x 2	2.5YR 6/8	F	Coal	Slop moulded, incision on stretcher, not tally, differential firing, stacking mark, laminated clay	
			4	3 1/2 x 3/1/4 x 2 1/4	5YR 6/6	M	L/S & coal	Laminated clay, brittle, vegetation impressions	



			5	5 1/8 x 4 x 1 3/8	5YR 7/6	M		Slop moulded, uneven firing, 2 incisions - tally mark, vegetatin impressions	
4010	8	1070	1	4 1/2 x 1 3/4 x 2 1/2	2.5YR 6/8	M	L/S	Slop moulded, poor edges, vertical stack marks	
			2	3 1/8 x 2 3/4 x 2 1/4		M	L/S & coal	Differential firing, laminated clay, well deFd edges, sand base, vegetation impressions	
			3	2 3/4 x 2 3/4 x 1 3/4	2.5YR 6/8	M		Laminated clay, horizontal stack marks, thumb print on corner, slip	
			4	2 3/4 x 2 3/4 x 1 1/4	2.5YR 6/8	F-M	L/S & voids	Differential firing, one face heavily vitrified, vegetation impressions,	
			5	2 1/4 x 2 1/4 x 2 1/4	2,5YR 5/6	M-C		Slop moulded, vegetaton impressions, thumb print	
			6	4 1/4 x 3 1/4 x 1	2.5YR 6/8	M	L/S & coal	Interior fragment, no faces	
			7	3 x 2 x 1	2.5YR 6/2	F-M	Coal	Differential firing	
			8	1 3/4 x 1 5/8 x 1/2	5YR 6/8	F-M	Coal	Fragment	
6002	3	3690	1	8 7/8 x 4 1/4 x 3	10R 4/6	F	L/S & coal	Concentric wire marks, herringbone stack marks, thumb print or rivet mark, no kick	late 19th/early 20th

			2	5 1/2 x 4 1/2 x 3	2.5YR 4/8	M	L/S, voids & coal	Concentric wire marks on both sides, good edges	
			3	4 x 4 1/4 x 3	7.5YR 5/8	F-M	L/S & voids	Uneven edges, neat mould impression	
6005	5	3445	1	8 x 6 1/2 x 1/2	2.5YR 4/8	M-C	L/S & voids	Decorative piece, ventilation brick with decorated flattened doe head. Perforations not standard c. 3/4 dia, top broken, wire marks	late 19th/early 20th
			2	4 x 4 1/4 x 3	10R 5/6	C	L/S & coal	Concentric wire marks, good smooth finish	
			3	4 1/2 x 4 x 3	10R 5/6	M-C	L/S & coal	Concentric wire marks, intensely fired, vitrification, blown top, similar to 7009	
			4	4 x 3 1/2 x 1 5/8	10R 5/6	M-C	L/S & coal	Concentric wire marks	
			5	4 3/8 x 3 x 1 1/4	2.5YR 5/8	C	L/S & coal	Slop moulded, good edge, sand base	
7002 West	19	4595	1	6 1/2 x 3 3/8 x 2 1/2	10R 4/6	M	L/S	Slop moulded. Poorly deFd edges, horizontal stacking marks, laminated clay, poorly fired, brittle	Early - mid 18th

2	5 x 3 3/4 x 2 3/4	10R 3/1 - 4/4	M		Intensely fired, many cracks, herringbone stacking marks, laminated clay, vegetation impressions
3	4 x 2 3/8 x 2 1/2	10R 5/6	F - M	L/S	Poorly deFd edges,s horizontal stacking marks, vegetation impressions, slip
4	3 1/2 x 2 x 2 1/2	10R 4/6	M	L/S	Slop moulded. Poorly deFd edges, laminated clay, intensely fired, brittle, vegetation impressions
5	3 1/8 x 2 x 2 1/2	10R 2.5/1 - 4/6	F -M	L/S & coal	Good deFd edges, horizontal stacking marks, vegetation impressions, sand base
6	2 x 2 3/4 x 2 1/2	10R 4/1 - 5YR 7/2	F		Slop moulded, deFd edges, horizontal stacking marks, vegetation impressions, differential firing
7	3 1/2 x 3 1/8 x 3	10R 5/6	M		Slop moulded, waster, intensely fired, fracturing, herringbone stacking marks
8	3 3/4 x 3 1/8 x 2 5/8	10R 5/4	M		Waster. Intensely fired, many cracks,

9	3 1/2 x 1 3/4 x 1 5/8	10R 3/4	M	L/S	Intensely fired, laminated clay, sand base, heat bulge on header
10	3 1/2 x 2 3/4 x 2 3/8	10R 4/3	M		Waster, laminated clay
11	2 3/8 x 2 x 2	10R 5/4	F	L/S	Slop moulded, intensely fired, herringbone stack marks
12	3 1/8 x 2 5/8 x 1 5/8	2.5YR 6/8	M		Slop moulded, even firing, thumb print, vegetation impressions,
13	2 1/2 x 1 3/4 x 1 5/8	5YR 6/4 - 6/6	M	L/S & coal	Slop moulded, laminated clay, thumb print
14	2 1/2 x 1 3/4 x 1 3/8	2.5YR 6/8 - 6/2	M	L/S	Slop moulded, irregular edges
15	2 1/2 x 2 3/8 x 2	5YR 6/1 - 6/6	M		Fragment
16	3 x 2 x 1 3/4	2.5YR 6/6	M		Fragment, differential firing
17	2 1/2 x 2 x 1 3/8	5YR 4/1	F - M		Fragment, heavily fired, slop moulded, wood and vegetation impressions,
18	2 3/8 x 1 3/4 x 1 3/4	5YR 3/1	F	L/S	Fragment, good edge definition, vegetation impressions, differential firing
19	2 1/4 x 2 x 1 5/8	5YR 4/1	F - M	L/S	Fragment, slop moulded, poor edges, finger imprints

7002 East	4	1610	1	4 3/4 x 4 x 2 1/2	2.5YR 2.5/2	M	L/S	Waster. Slop moulded, Intensely fired, light, vertical stacking marks, vitrification of all sides, air pockets, blown	
			2	2 3/8 x 4 1/8 x 2 3/8	10R 5/6	M	L/S & coal	Slop moulded, poor edges & sides, laminated clay, mould impression, slip	
			3	2 1/4 x 4 1/8 x 2 3/8	10R 6/2 - 5YR 5/8	F	L/S	Slop moulded, poor edges, Bow mark, vegetation impression, Differentil firing	
			4	6 3/4 x 5 x 5	10R 3/3-5YR 2.5/1		Coal	Waster. Completely vitrified, early attempt at frogging or kiln wall piece	
7009	21	13834	1	8 3/4 x 5 1/4 x 3 1/8	10R 2.5/1-5YR 2.5/1	C	L/S & voids	Waster, vitrified cracked, poor edges, totally blown, stacking marks, very heavy, attempt at engineering bricks	Early/mid 18th
			2	8 1/4 x 3 3/4 x 3 3/8	2.5YR 3/0	C	Coal	Waster, vitrified cracked, poor edges, totally blown, slop moulded, rectangular impression - kiln bricks	

3	4 3/8 x 4 x 3 1/8	10R 2.5/1	C	L/S	Waster, mould impressions
4	4 x 2 3/4 x 2 1/2	2.5YR 3/0	C	L/S & voids	Waster, slop moulded, cracked
5	4 x 3 1/2 x 3 3/8	5YR 3/1	C	L/S, coal & voids	Waster, slop moulded, overfired
6	4 x 3 3/4 x 2 1/4	5YR 3/1	C	L/S & voids	Waster, slop moulded, warped, patchy slip
7	2 1/2 x 4 1/4 x 2 1/2	10R 4/1	C	Voids	Waster, vitrified, brittle, bulge, animl paw print - cat, vegetationn impression, deep incision - not tally
8	3 1/4 x 4 1/2 x 2 1/2	10R 5/6	C	L/S	Heavily fired, slop moulded, poor edges, cracked, sand base
9	4 3/8 x 4 3/8 x 2 1/4	2.5YR 4/8	C	L/S	Heavily fired, cracked, laminated clay, slip, stack marks
10	4 3/4 x 4 1/2 x 2 1/2	10R 5/6	C		Cracked, sand base, mould marks, vegetation impression, slip
11	2 3/4 x 4 x 2 3/8	10R 4/1-5/6	C	L/S & coal	Slop moulded, cracked, uneven firing, Herringbone stacking marks, alot of vegetation impressions, slip
12	4 1/8 x 4 1/4 x 2 1/4	2.5YR 4/8	M-C	L/S & coal	Cracked, laminated clay, poor worn edges, finger finish

			13	3 1/4 x 2 1/2 x 2 1/2	2.5YR 4/8	M-C	L/S, coal & voids	Slop moulded, uneven firing, horizontal stacking marks	
			14	3 3/8 x 2 3/8 x 2 3/8	2.5YR 4/8	C	L/S & coal	Slop moulded, herringbone stacking marks, laminated clay, sand base	
			15	2 3/4 x 2 x 2 3/8	2.5YR 4/8	M	L/S & voids	Uneven firing raw core, good edges, sand base	
			16	3 3/4 x 3 1/2 x 1	2.5YR 6/6	C	Coal & voids	Vegetation impressions, slip	
			17	4 x 3 3/8 x 1 3/8	2.5YR 5/6	C	L/S, coal & voids	Slop moulded, finger print, sand base, slop moulded	
			18	3 1/8 x 2 x 1/1/4	2.5YR 5/6	C	L/S	Fragment, laminated clay	
			19	3 1/8 x 2 x 2	5YR 6/6	F	L/S	Fragment, finger finish on sand base	
			20	3 5/8 x 1 3/4 x 1 1/8	2.5YR 5/8	F-M	L/S, coal & voids	Sharp edges,	
			21	2 1/2 x 1 5/8 x 1 3/4	10R 5/6	M	L/S, coal & voids	Slop moulded, vertical stacking mark	
7011	6	1165	1	3 1/2 x 4 1/8 x 1 3/4	5YR 7/4	C	L/S & coal	Laminated clay, stacking mark	mid/late 19th
			2	2 1/4 x 2 3/8 x 2 1/4	5YR 3/1		L/S	Intensely fired, cracked, mould marks	
			3	3 1/2 x 2 3/8 x 2	2.5YR 6/8	M	L/S & coal	No edges, early example of frogging "ON" with rivet emboss	

			4	2 3/4 x 1 5/8 x 1 3/8	2.5YR 5/8	M	L/S & coal	Well fired, cracked, striations
			5	3 3/4 x 3 1/8 x 1 1/8	2.5YR 4/8	M	L/S & voids	circular puncture mark - tally
			6	2 1/8 x 2 x 1 5/8	2.5YR 4/8	M	L/S & coal	Fragment, laminated clay
7019	11	2930	1	3 1/2 x 4 1/8 x 2 3/4	10R 4/3	M	L/S & voids	Slop moulded, highly fired, cracked, vegetation impression, finger handling, poorly deFd edges, slip 18th
			2	3 1/8 x 4 x 2 3/4	10R 4/1	M	L/S, voids & coal	Slop moulded, highly fired, cracked, mould marks, poorly deFd edges, slip
			3	3 1/2 x 2 3/8 x 2 3/8	10 5/6	M-C	Limestone	Differential firing, vertical stack marks, some good edges, 1 failed, sand base
			4	3 1/8 x 3 2 3/4	10R 5/6	M	L/S	Fragment, evenly fired, mould impression
			5	2 3/4 x 2 3/8 x 2 3/8	10R 2.5/1	M	L/S & voids	Intensely fired, poor edges, sand base, slip
			6	2 3/8 x 2 3/8 x 2	2.5YR 5/8	F-M	L/S	Fragment, sand base
			7	3 3/4 x 2 3/8 x 1 5/8	2 5YR 4/8	F	L/S & coal	Only 1 edge - good, sand base
			8	2 3/4 x 2 3/8 x 1 3/8	2.5YR 6/6	F	L/S & coal	2 surviving good edge, vegetation impressions, sand base, slip
			9	2 1/4 x 1 1/4 x 7/8	2.5YR 6/4	M	L/S	Fragment



			10	1 7/8 x 1 1/4 x 1/4	2.5YR 5/6	M	L/S	Fragment
			11	2 3/8 x 1 1/2 x 1/8	2.5YR 3/2	M	L/S	Tile waster?, highly fired, cracked,
7020	14	4601	1	4 1/2 x 2 x 2	2.5YR 4/8	M	L/S & coal	Slop moulded, poor edges, evenly fired, vegetation impression, herringbone stack marks, vestiges of slip
			2	3 1/2 x 4 x 2 3/8	10R 5/6	M-C	L/S voids & coal	Slop moulded, poor edges, differential firing internally, horizontal stack marks, slip
			3	3 1/2 x 2 3/8 x 2 3/4	2.5YR 4/6	C		Highly fired, cracking, laminated clay, slip
			4	2 1/2 x 4 x 2 3/8	2.5YR 4/6	C	L/S & coal	Highly fired, badly cracked, vegetation impressions, slip
			5	2 3/4 x 2 3/8 x 2 3/8	10R 5/6	C	L/S & coal	Intensely fired, cracked, vegetation marks, edge stretcher black, laminated clay
			6	4 3/8 x 3 1/8 x 2	10R 5/6	C	L/S	Laminated clay, sharpe edges, sand base, slip
			7	3 1/2 x 3 2 3/4	2.5YR 3/2-4/8			Heavily fired, uneven, mould impressions
			8	4 x 3 1/8 x 1 1/2	5YR 6/4	F	Coal & voids	Uneven firing, cracking, vegetation impressions
			9	4 3/8 x 2 3/8 x 1 1/2	5YR 6/6	F	L/S	Differential firing

			10	3 x 3 x 2 3/8	10R 4/6	M-C		Uneven firing, cracking, vegetation impressions, slip
			11	4 x 3 x 2	2.5YR 5/6	F-M		Cracked, slip
			12	3 1/8 x 2 3/4 x 1 1/4	5YR 6/4	F		Slop moulded, blackened header, laminated, poorly fired
			13	2 3/4 x 2 3/8 x 2	10R 5/6	M		Badly fired cracked, slop moulded, vestiges of slip
			14	2 3/8 x 2 3/8 x 2	10R 5/6	M		Badly moulded, sand base, mould impression, wire ? Marks
9002	5	1130	1	2 3/4 x 4 1/8 x 3	5YR 5/4	M	L/S & coal	Unevenly fired, mould impressions- wire marks, sand base, vestiges of slip
			2	3 1/4 x 2 x 1 1/2	2.5YR 5/8	F-M	L/S	Bow mark, sharp edges, subcircular impression (10) tally mark, vegetation impressions
			3	3 x 2 1/4 x 1 1/4	2.5YR 6/8	F	Voids	Sharpe edges, stakcing mark, sand base,machine made?
			4	3 1/8 x 2 x 1 1/2	2.5YR 6/8	F	L/S & voids	Fragment
			5	3 1/2 x 1 1/2 x 1 1/2	5YR 6/6	F	L/S & voids	Fragment, sand base and vegetation impressions

19th/20th

9003	1	174		2 3/4 x 2 x 3	2.5YR 6/8	F-M	L/S & voids	Slop moulded, v. Good edges, vegetation impressions, partial paw print	
9006	1	416	1	2 3/4 x 4 3/8 x 2 1/4	2.5YR 4/4	C	L/S & coal	Over fired, cracked, horizontal stacking marks, vestiges of slip	Late 17th/early 18th
9008	3	1360	1	5 x 4 x 2 1/4	10R 4/1 - 5/6	M-C	L/S & voids	Uneven firing, fair edges, sand base	Late 17th/early 18th
			2	4 x 2 1/4 x 2 3/8	2.5YR 3/0-%YR 6/4	M-C	L/S & voids	Slop moulded, uneven firing, herringbone stack marks, sand base, indent on header	
			3	3 x 2 3/4 x 2 1/4	2.5YR 4/6	C	L/S & coal	Laminated clay, vegetation impression	
9010	2	336	1	4 x 2 x 2 1/4	2.5YR 3/0- 5YR 7/6	F	L/S & coal	Differential firing, vegetation impression, sand base, defined edges, indent on stretcher	Late 17th/early 18th
			2	2 3/4 x 2 1/4 x 3/4	5YR 6/6 - 6/1	F	L/S	Fragment	
9018	1	20		1 1/2 x 1 x 3/4	2.5YR 4/8	M	L/S	Fragment	
9021	4	2135	1	3 1/2 x 4 1/4 x 2 3/8	10R 5/6	M-C	L/S & coal	Slpp moulded, vegetation impressions, bow mark	Late 17th/early 18th

			2	3 1/2 x 4 1/4 x 2 3/8	10R 5/6	C	L/S & coal	Slip moulded, vegetation impressions, horizontal and vertical stack marks, 2 circular impression - tally mark, blackened along one edge, slip	
			3	2 x 4 1/4 x 2	2.5YR 5/8	M	L/S, voids & coal	Slop moulded, laminated clay, vegetation impressions, slip	
			4	4 x 2 x 2 1/4	10R 2.5/1	M-C	L/S & voids	Intensely fired, cracked, 1 good edge, vertical stacking marks, laminated clay	
12003	1	1525	1	9 x 4 1/2 x 3 1/4	10R 5/4	M-C	L/S & coal	BS 1. Slop moulded, uneven depth, cracked, sand base, horizontal stack marks, bow mark, finger prints, mortar, slip	19th
12004	1	825	1	8 1/2 x 4 x 2 3/4 - 3	2.5YR 5/8			BS 3. Slop moulded, uneven depth, poor edges, bow mark, indentation, poor headers, cracked, possible paw mark	19th

12011	1	446	1	3 1/8 x 2 3/8 x 3	10R 5/6	M	L/S, voids & coal	Pristine edges, header late 19th overfired, wire marks, sand base, slop moulded
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**Abbreviations**

L/S - Limestone

F - Fine

M - M

C - Coarse

Westfield Nurseries, Norton 03.06.09

TABLE 2

Tile Catalogue

Unless otherwise stated tiles had an inner face smooth and an exterior abrasive.

Context	Quant	Weight		Size	Colour	Fabric	Inc	Comments	Date
1001	8	3095	1	6 1/2 x 4 3/4 x 5/8	10R 5/6	F	L/S	Pantile, 2 edges	?
			2	5 7/8 x 5 7/8 x 1/2	2.5YR 5/8	F	L/S	Plain, 1 edge	
			3	5 x 8 x 5/8	10R 5/6	F	L/S	Plain, 1 edge	
			4	5 1/2 x 6 1/2 x 1 1/8	10R 4/6			Waster, 2 edges, finger prints	
			5	5 1/4 x 5 3/8 x 1 1/8	10R 4/6			Waster, 2 edges, finger prints	
			6	4 1/2 x 4 x 5/8	10R 4/6			Waster, 1 edge	
			7	2 x 4 x 3/8	10R 4/3			Waster, 1 edge	
			8	4 x 5 1/2 x 3/4	2.5YR 6/8	M	L/S & coal	Plain, 1 edge	
1005	5	758	1	3 1/4 x 5 1/2 x 5/8	2.5YR 5/8	F-M	L/S	Plain	18th
			2	5 x 2 x 5/8	2.5YR 5/8	M	L/S & coal	Plain, thumb print	
			3	5 1/2 x 2 3/4 x 3/4	2.5YR 6/8	M	L/S & coal	Plain, 1 edge	
			4	2 3/4 x 2 1/2 x 3/4	10R 5/6	M		Fragment	
			5	2 3/4 x 2 1/2 x 3/4	2.5YR 5/8	F		Pantile, 1 edge, vegetation impressions	
1009	15	3020	1	9 x 9 x 1/2	2.5YR 6/8	F-M	L/S, voids & coal	Pantile, 3 edges, full profile	18th
			2	9 7/8 x 5 1/2 x 5/8	5YR 6/8	F-M	L/S, voids & coal	Pantile, 2 edges	
			3	9 7/8 x 5 1/2 x 5/8	2.5YR 6/8	F-M	L/S, voids & coal	Plain, 1 nibbled away corner	
			4	6 x 8 1/2 x 5/8	2.5YR 6/8	F-M	L/S, voids & coal	Plain, corner flute	

1010	7	2280	1	4 3/8 x 6 1/4 x 5/8	10R 5/6	F	L/S	Plain, 1 edge	late 17th/early 18th
			2	5 1/8 x 6 5/8 x 3/4	10R 5/6	F	L/S	Plain, 1 edge	
			3	2 3/4 x 2 3/4 x 5/8	10R 5/6	F	L/S	Plain, 1 edge	
			4	3 3/4 x 3 1/4 x 3/4	2.5YR 5/6	M-C		Plain	
			5	4 1/2 x 5 x 5/8	2.5YR 5/8	F	L/S	Plain	
			6	4 1/4 x 5 3/4 x 5/8	2.5YR 5/8	M	L/S & coal	Pantile	
			7	4 1/4 x 5 1/2 x 5/8	2.5YR 5/8	M	L/S & coal	Pantile	
1015	1	272	1	5 1/8 x 4 1/4 x 5/8	2.5YR 5/8	F	L/S & coal	Plain, 1 edge, thumb print	?
1017	36	8000	1	3 1/2 x 7 x 1/2	2.5YR 4/8	F	L/S & voids	Plain, 2 edges	early/mid 18th
			2	5 1/2 x 3 x 5/8	2.5YR 5/8	F	L/S & voids	Plain, 2 edges	
			3	4 x 5 x 1/2	2.5YR 5/8	F	L/S & voids	Plain	
			4	4 1/4 x 5 1/8 x 5/8	2.5YR 6/8	F	L/S & voids	Plain	
			5	4 x 4 x 5/8	2.5YR 4/6	F	L/S & voids	Plain	
			6	5 1/2 x 5 1/8 x 5/8	2.5YR 6/8	F	L/S & voids	Plain, 2 edges	
			30	discarded					
1018	1	232	1	5 1/2 x 3 1/8 x 5/8	2.5YR 5/8	M	L/S	Pantile	early/mid 18th
4002	4	1345	1	9 x 5 1/8 x 5/8	2.5YR 5/8	F-M	L/S & coal	Plain, 2 edges,	Late 17th/18th
			2	3 x 2 3/4 x 5/8	2.5YR 5/6	M	L/S & voids	Plain, 1 edge	
			3	4 1/2 x 2 3/4 x 1/2	2.5YR 5/8	F	L/S & coal	Pantile	
			4	4 x 4 3/4 x 1/2	2.5YR 5/8	F	L/S & coal	Pantile	
4007	3	3465	1	4 3/4 x 5 x 5/8	10R 6/8	F	L/S	Plain, 1 edge	Late 17th/18th
			2	5 x 3 1/8 x 5/8	5YR 7/8	F	Coal	Plain, no edges	
			3	5 x 3 1/8 x 5/8	5YR 7/8	F	Coal	Plain, no edges	
6002	3	140	1	3 3/8 x 2 x 3/4	10R 5/6	M	L/S & coal	Plain, 1 edge	late 19th
			2	2 3/4 x 1 1/2 x 3/8	10R 5/6	M	L/S & coal	Fragment	
			3	1 x 1 1/8 x 3/8	10R 5/6	M	L/S & coal	Fragment	

6005	12	1240	1	3 x 3 1/2 x 5/8	2.5YR 5/8	F - M	L/S, voids & coal	Fragment, no edges, both sides late 19th smooth	
			2	2 3/8 x 3 1/4 x 5/8	2.5YR 5/8	F - M	L/S, voids & coal	Fragment, no edges, both sides smooth	
			3	2 3/4 x 3 x 5/8	2.5YR 5/8	F - M	L/S, voids & coal	Fragment, no edges, both sides smooth	
			4	4 x 2 1/4 x 5/8	2.5YR 5/8	F - M	L/S, voids & coal	Fragment, no edges, both sides smooth	
			5	3 1/4 x 2 1/2 x 5/8	2.5YR 5/8	F - M	L/S, voids & coal	Fragment, no edges, both sides smooth	
			6	2 x 1 3/4 x 5/8	2.5YR 5/8	F - M	L/S, voids & coal	Fragment, no edges, both sides smooth	
			7	2 1/2 x 2 x 5/8	2.5YR 5/8	F - M	L/S, voids & coal	Fragment, no edges, both sides smooth	
			8	3 1/4 x 1 1/2 x 5/8	5YR 3/1	F - M	L/S, voids & coal	Fragment, no edges, both sides smooth	
			9	2 1/4 x 2 1/2 x 5/8	10R 5/6	M		Land drain, 1 edge, both sides smooth	
			10	2 x 4 x 3/4	2.5YR 6/8	M	L/S	Pantile, 1 edge	
			11	2 3/8 x 2 x 5/8	2.5YR 6/8	M - C	L/S	Pantile, 1 edge	
			12	2 3/8 x 3 x 5/8	2.5YR 5/8	M - C	L/S	Pantile, 1 edge, laminated clay	
7002 W	2	122	1	3 1/8 x 2 3/4 x 5/8	10R 5/6	F	Coal	Plain, no edges	Early/mid 18th
			2	2 x 1 5/8 x 5/8	10R 5/6	F	Coal	Plain, 1 edge	
7002 E	4	860	1	4 3/4 x 4 3/8 x 5/8	10R 5/6	F		Plain, 1 edge	Early/mid 18th
			2	4 x 4 x 3/8 x 3/8	10R 5/6	F		Plain, 1 edge	
			3	4 x 4 3/4 x 3/8	10R 5/6	F		Plain, 1 edge	
			4	2 1/2 x 2 3/8 x 1/2	10R 5/6	F		Plain, no edges	
7011	2	598	1	5 1/8 x 4 1/4 x 5/8	10R 5/6	M	Coal & voids	Plain, both smooth, 1 incised, 2 19th edges,	
			2	5 x 4 1/8 x 5/8	2.5YR 5/8	F	L/S & voids	Plain, 1 edge, 2 incised subcircular marks, both smooth	



7019	4	1145	1	6 1/4 x 5 1/2 x 7/8	2.5YR 6/6	F	L/S	Pantile	18th
			2	5 7/8 x 4 x 1	10R 4/6	F	L/S & coal	Plain, differential firing, 2 irregular indents on edge	
			3	2 1/2 x 2 1/2 x 5/8	10R 5/6	F		Plain, differential firing,	
			4	2 1/2 x 1 1/2 x 5/8	2.5YR 5/6	F	L/S	Plain, 1 edge, differential firing	
7020	7	946	1	2 3/8 x 4 x 3/8	5YR 5/8	F		Plain, 1 edge, vegetation impressions	Early/mid 18th
			2	4 x 4 x 5/8	2.5YR 5/6	F	L/S & coal	Plain, 2 edges	
			3	3 1/2 x 2 3/4 x 1/2	2.5YR 5/8	F	L/S	Plain, no edges	
			4	3 x 3 1/2 x 5/8	2.5YR 6/6	F	L/S	Plain, arrow impression on smooth side, badly formed edge	
			5	4 3/8 x 3 1/8 x 1/2	2.5YR 5/8	F	L/S	Waster, blown apart in kiln	
			6	3 1/8 x 2 1/8 x 1/2	2.5YR 4/8	F	L/S	Plain, 1 edge	
			7	2 3/8 x 2 x 5/8	10R 5/6	F	L/S	Plain, 1 edge	
9002	5	798	1	3 1/2 x 5 1/4 x 3/4	10R 5/6	M	L/S & voids	Pantile, 1 edge,	19th
			2	4 x 4 1/2 x 3/4	2.5YR 6/8	M	L/S & voids	Plain, 1 edge, 3 finger prints, rectangular impressions, ?finishing mark	
			3	2 1/2 x 3 1/8 x 3/8	2.5YR 6/8	F	Voids	Land drain, 1 edge	
			4	2 1/2 x 1 5/8 x 5/8	10R 5/6	M	Medium		
			5	5 1/2 x 3 1/8 x 3/8	10R 5/6	F	Coarse	Alot of inclusions	
9003	2	176	1	3 3/8 x 2 1/4 x 5/8	10 5/6	M	L/S & coal	Plain, Laminated, no edges, both sides smooth	19th/20th
			2	2 1/2 x 2 1/2 x 1/2	10 5/6	M	L/S & coal	Pantile, 1 edge, both smooth	
9006	2	416	1	5 1/4 x 4 1/2 x 5/8	2.5YR 6/6	M	L/S	Pantile, 1 edge, vegetation impressions, both sides smooth	late 17th/early 18th
			2	3 1/8 x 3 3/4 x 1/2	2.5YR 5/8	F-M		Plain, 1 edge,	

9017	11	5580	1	12 x 7 x 5/8	2.5YR 5/8	F	L/s & coal	Plain, 2 edges, knife finish on 1 18th edge, corner	
			2	8 x 6 x 5/8	2.5YR 5/6	F	L/s & coal	Plain, 2 edges, corner bite, linear striations	
			3	8 x 8 x 5/8	2.5YR 6/8	F	L/S & voids	Plain, blister, lipped	
			4	10 x 4 3/8 x 1/2	2.5YR 6/8	F	L/S & voids	Plain, lister, 1 edge, ledges parallel deep	
			5	6 5/8 x 5 1/8 x 1/2	10 R 5/6	M	L/S & coal	Plan, 2 edges, corner, deep striations, blister	
			6	7 1/2 x 4 x 5/8	10 R 5/6	M	L/S & coal	Plain, 2 edges, corner, cut mark on edge	
			7	6 1/8 x 4 1/2 x 1/2	2.5YR 6/8	M	L/S & coal	Plain, 2 edges, inner redder core	
			8	5 1/2 x 4 3/4 x 5/8	2.5YR 5/6	M	Coal	Plain, 1 edge, lipped	
			9	5 1/8 x 4 x 5/8	2.5YR 5/6	M	L/S & coal	Plain, 1 edge, fractured smooth side, laminated	
			10	4 7/8 x 4 7/8 x 5/8	2.5YR 5/6	M-C	Coal & voids	Plain, 1 edge, fractured smooth side	
			11	5 1/8 x 4 1/2 x 1/2	2.5YR 5/6	M	L/S & coal	Pantile, 1 edge, alot of vegetation impressions	
9021	1	276	1	7 x 3 3/8 x 5/8	2.5YR 5/8	F	L/S, coal & voids	Pantile, 1 edge	late 17th/early 18th
12001	1	24	1	2 3/8 x 2 1/2 x 1/4	2.5YR 5/6	M	L/S & coal	Fragment,	?

**Westfield Nurseries  
Scarborough Road  
Norton  
North Yorkshire  
SE 8030 7185**

**Written Scheme of Investigation for  
Archaeological Evaluation**

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## Figure List

1. Proposed Trench Location.

**Westfield Nurseries  
Scarborough Road  
Norton  
North Yorkshire  
SE 8030 7185**

**Written Scheme of Investigation for  
Archaeological Evaluation**

**1. Background**

- 1.1 This Written Scheme of Works has been commissioned by Persimmon Homes (Yorkshire) Ltd in advance of a planning application for residential development at a plot of land lying to the south of Scarborough Road, Norton, North Yorkshire, and west of Westfield Way (Fig 1).
- 1.2 This Specification covers the archaeological works required as part of a pre-planning determination.

**2. Purpose**

- 2.1 This written scheme of investigation (WSI) represents a summary of the broad archaeological requirements to mitigate the impact of development proposals upon the archaeological resource. This is in accordance with Policy C13 of the Ryedale Local Plan (March 2002) and the guidance of Planning Policy Guidance Note 16 on *Archaeology and Planning* 1990. No work should commence until the implementation of the scheme is the subject of a standard ICE Conditions of Contract for Archaeological Investigation agreement between the Client and the selected archaeological contractor.

**3. Location and Description (centred at NGR SE 8030 7185)**

- 3.1 The extent of the future application area is indicated on a site location plan supplied by Persimmon Homes (Yorkshire) Ltd at 1:2500 scale. The total area of the proposed development is approximately 5.7 ha.

3.2 The site formed the premises and land of the Westfield Nurseries, and totals c. 5.7 hectares. The site has a number of different uses at present. An area of regenerated scrub (OS Parcel 3672) lies at the south, adjoining the Norton Grove Industrial Estate, with an area of scrubby grassland (OS Parcel 3086) immediately to the north. The northern third of the site is occupied by a residential property (70 Scarborough Road), outbuildings and greenhouses, which are interspersed with areas of open ground. Prior Pot Beck flows eastwards through the central part of the site.<sup>1</sup>

3.3 The soils at the site are recorded as being from the Landbeach Association, permeable calcareous coarse loamy soils over glaciofluvial sands and gravel (Mackney *et al*).

#### **4. Historical and Archaeological Background**

4.1 Neolithic and Bronze Age flint implements have been found in large numbers in Norton parish. Iron Age occupation is evidenced by the cropmarks of square ditch barrows situated in the south of the parish, with a cluster immediately north of Norton Howe (Robinson, no. 217). Part of the system of Iron Age land division (Norton Three Dikes) passes immediately east of the site, their projected line forming the eastern boundary (Robinson, no. 219).

4.2 Malton was an important Roman centre, with a fort and *vicus* (civilian settlement). Roman occupation extended into Norton and included industrial activity such as pottery production, as well as settlement and cemeteries. The eastern limit of this activity is unknown.

4.3 The expansion of Norton eastwards along Commercial Street in the second half of the 19<sup>th</sup> century uncovered segments of the Roman road from Malton to Settrington (Robinson 1978), and this passes c. 250m south of the site. The closest concentration of Roman industry and settlement to the site is situated at Eastfield Road, c. 600m to the south-west. However, a group of Roman objects consisting of a small amber bracelet, beads, an iron ring and the top of

a Roman bell (a grave group?) were found c. 160m south-west of the site near Priorpot Bridge around 1856 (Robinson, 364).

4.4 Norton was mentioned in the Domesday Survey (1086) as *Nortone* and *Nortona*, the name meaning 'north farm' (Smith 1937). The medieval settlement lay c. 1km west of the proposed development site, as did the parish church. Before the enclosure of Norton's Open Fields between 1769 and 1772 the southern part of the site lay within East Field, with that part north of Priorpot Beck being situated within an area of old enclosure known as Priorpot Closes. The Outgang (i.e. the access route to the rough pasture on the eastern margin of Norton parish) formed the site's southern boundary.

4.5 The First Edition Ordnance Survey map (1854) showed much of the area as open land. However, the northern part of the site was occupied by Brick Garth House and an associated orchard. Extractive industry in the locality was illustrated by a Brick and Tile Yard to the east (in the area of the modern Norton Grove) and a limestone quarry to the north. A similar situation existed on the 1928 6" Ordnance Survey map, but with the addition of a long rectangular greenhouse in the grounds of Westfield Nurseries (the former Brick Garth House).

4.6 The only archaeological work to have taken place in the immediate vicinity of the site consisted of a Geophysical Survey and Watching Brief that took place as part of the construction of Westfield Way. The Survey did not show any clear archaeological anomalies, and no deposits were revealed during the Watching Brief. Approximately 100m to the west of the proposed development, a Watching Brief on the new Redrow Housing Estate did not reveal any archaeological deposits or finds; part of the area had been quarried for clay to be used in brick manufacture.

## 5. Objectives

5.1 The objectives of the archaeological evaluation work within the proposed development area are:

1. To determine by means of trial trenching, the nature, depth, extent and state of preservation of any archaeological deposits to be affected by the development proposals. Trial trenches of sufficient size and depth to provide this information will be excavated, and archaeological deposits will be explicitly related to depths below existing surface and actual heights in relation to Ordnance Datum.

2. To prepare a report summarising the results of the work and assessing the archaeological implications of proposed development,

3. To prepare and submit a suitable archive to the appropriate museum.

## **6. Access, Safety and Monitoring**

6.1 Access to the site will be arranged through the commissioning body.

6.2 It is the archaeological contractor's responsibility to ensure that Health and Safety requirements are fulfilled.

6.3 The project will be monitored by the Heritage and Environment Section, North Yorkshire County Council, to whom written documentation should be sent before the start of the trial trenching confirming: a) the date of commencement, b) the names of all finds and archaeological science specialists likely to be used in the evaluation, and c) notification to the proposed archive repository of the nature of the works and opportunity to monitor the works.

6.4 Where appropriate, the advice of the Regional Advisor for Archaeological Science (Yorkshire) at English Heritage will be called upon.

6.5 It is the archaeological contractor's responsibility to ensure that monitoring takes place by arranging monitoring points as follows:



1. a preliminary meeting or discussion at the commencement of the contract to agree the locations of the proposed trial trenches.
  2. progress meeting(s) during the fieldwork phase at appropriate points in the work schedule, to be agreed.
  3. a meeting during the post-fieldwork phase to discuss the draft report and archive before completion.
- 6.6 It is the responsibility of the archaeological contractor to ensure that any significant results are brought to the attention of the Archaeologist, North Yorkshire County Council and the commissioning body as soon as is practically possible.
7. **Brief**
- 7.1 The proposed development area totals c. 5.7 hectares in size, 4% of which equals 2280m<sup>2</sup> with a contingency of a further 1% to allow for expansion of trenches to clarify any interpretation. It is suggested that at least twelve areas of trial trenching should be excavated within the application site, placed to evaluate as broad a geographical spread as possible. The trial trenches will determine the nature, depth, extent and state of preservation of archaeological deposits across the site. It is proposed that there should be a mix of trenches of different form, with some 10m x 10m in size, and others of linear form, at least 20m x 2m in size, on different alignments. The precise location and form of the trenches will be agreed with the Heritage and Environment Section, North Yorkshire County Council and the commissioning body prior to excavation. The project should be undertaken in a manner consistent with the guidance of MAP2 (English Heritage, 1991) and professional standards and guidance (IFA, 1999).
- 7.2 Archaeological investigation should be carried out over the full area of each trench, either by area excavation or sectioning of features in order to fulfil Objective 5.1.1 above. Sondages or slit trenches should be used only to facilitate the recording of the trench; they should not be used to provide a

representative sample of the trench. Where excavation below a safe working depth constrains investigation, consideration should be given to stepping back or shoring the excavation. In case of query as to the extent of investigation, a site meeting shall be convened with the Senior Archaeologist, North Yorkshire County Council.

- 7.3 All deposits should be fully recorded on standard context sheets, photographs and conventionally-scaled plans and sections. Each trench area should be recorded to show the horizontal and vertical distribution of contexts. Normally, all four sides of a trench should be recorded in section. Fewer sections can be recorded only if there is a substantial similarity of stratification across the trench. The elevation of the underlying natural subsoil where encountered will be recorded. The limits of excavation will be shown in all plans and sections, including where these limits are coterminous with context boundaries.
- 7.4 Overburden such as turf, topsoil, made ground, rubble or other superficial fill materials will be removed by machine with a toothless or ditching bucket. Mechanical excavation equipment shall be used judiciously, under archaeological supervision down to the top of archaeological deposits, or the natural subsoil (C Horizon or soil parent material), whichever appears first. Bulldozers or wheeled scraper buckets will not be used to remove overburden above archaeological deposits. Topsoil will be kept separate from subsoil or fill materials. Thereafter, hand-excavation of archaeological deposits will be carried out. The need for, and any methods of, reinstatement will be agreed with the commissioning body in advance of submission of tenders.
- 7.5 Human remains will be left *in situ* following the determination of the extent of the remains and grave cut(s).
- 7.6 Metal detecting, including the scanning of topsoil and spoil heaps, will only be permitted subject to archaeological supervision and recording so that metal finds are properly located, identified, and conserved. All metal detection should be carried out following the Treasure Act 1996 Code of Practice.

- 7.7 Due attention will be paid to artefact retrieval and conservation, ancient technology, dating of deposits and the assessment of potential for the scientific analysis of soil, sediments, biological remains, ceramics and stone. All specialists (both those employed in-house and those sub-contracted) should be named in project documentation, their prior agreement obtained before the fieldwork commences and opportunity afforded for them to visit the fieldwork in progress.
- 7.8 Finds should be appropriately packaged and stored under optimum conditions, as detailed in *First Aid for Finds* (Watkinson & Neal, 1998).
- 7.9 The character, information content and stratigraphic relationships of features and deposits should be determined and a running section along the excavation area, from highest to lowest point, should be recorded to show the vertical distribution of layers. All linear features, such as ditches, should have their shape, character, and depth determined by hand excavation of sections. A minimum sample of 20% of each linear feature of less than 5m in length and a minimum sample of 10% of each linear feature greater than 5m in length (each section will be not less than 1m wide) should be excavated. All junctions of linear features should have their stratigraphic relationships determined, if necessary using box sections. A 100% sample of all stake-holes should be excavated, and all pits, post-holes and other discrete features should be half-sectioned by hand to record a minimum of 50% of their fills, and their shape. Any other unknown or enigmatic features should be investigated similarly. Large pits, post-holes or deposits of over 1.5m diameter should be excavated sufficiently to define their extent and to achieve the objectives of the investigation, but should not be less than 25%. All intersections should be investigated to determine the relationship(s) between features.
- 7.10 Scientific investigations should be undertaken in a manner consistent with the English Heritage best-practice guidelines (2003).
- 7.11 Where there is evidence for industrial activity, macroscopic technological residues (or a sample of them) should be collected by hand. Separate samples

(c. 10ml) should be collected for micro-slugs hammer-scale and spherical droplets). In these instances, the guidance of English Heritage (2001) and Jones (*ed* 2006) should be followed.

- 7.12 Samples should be collected for scientific dating (radiocarbon, dendrochronology, luminescence dating, archaeomagnetism and/or other techniques as appropriate), following an outline strategy presented to the Senior Archaeologist, NYCC.
- 7.13 Where appropriate, buried soils and sediment sequences should be inspected and recorded on site by a recognised geoarchaeologist. Samples may be collected for analysis of chemistry, magnetic susceptibility, particle size, micromorphology and/or other techniques as appropriate, following an outline strategy presented to the Senior Archaeologist, NYCC, and in consultation with the geoarchaeologist. The guidance of Canti (1996) and English Heritage (2002) should be followed.
- 7.14 Deposits should be sampled for retrieval and analysis of all biological remains. The sampling strategy should include a reasoned justification for selection of deposits for sampling, and should be developed in collaboration with a recognised bioarchaeologist. Sampling methods should follow the guidance of the Association for Environmental Archaeology (1995) and English Heritage (2002). Flotation samples and samples taken for coarse-mesh sieving from dry deposits should be processed at the time of the fieldwork wherever possible, partly to permit variation of sampling strategies if necessary, but also because processing at a later stage could cause delays.
- 7.15 Samples should be collected from primary and secondary contexts, where applicable, from a range of representative features, including pit and ditch fills, postholes, floor deposits, ring gullies and other negative features. Positive features should also be sampled. Sampling should also be considered for those features where dating by other methods (for example pottery and artefacts) is uncertain. Bulk samples should be collected from contexts containing a high

density of bones. Spot finds of other material should be recovered where applicable.

7.16 In accordance with the English Heritage Guidelines (2002), bulk samples should be between 30 and 40 litres in size, although this will be dependent upon the volume of the context. Entire contexts should be sampled if the volume is low, and specialist samples, such as for General Biological Analysis (GBA) should be of the order of 10 litres. Allowance should be made for a site visit from the contractor's environmental specialists/consultants.

7.17 The specialists that MAP Archaeological Consultancy Ltd. use are as follows:

#### CONSERVATION

Ian Panter	YAT		01904 612529
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Prehistoric Pottery	Terry Manby		01430 873147
Roman Pottery	Paula Ware	MAP	01653 697752
Pre-conquest Pottery	Mark Stephens	MAP	01653 697752
Medieval Pottery	Mark Stephens	MAP	01653 697752
Post Medieval Pottery	Mark Stephens	MAP	01653 697752
Clay Tobacco Pipe	Mark Stephens	MAP	01653 697752
CBM	Sandra Garside – Neville		01904 621339
Animal Bone	Anne Finney	MAP	01653 697752
Small Finds	Hilary Cool		0116 981 9065
Textile	Penelope Walton Rogers	Textile Research in Archaeology	01904 634585

Slag/Hearths		Bradford University	01274 383 5131
Flint	Pete Makey		01377 253695
Environmental Sampling		WYAS	0113 3837515
Human Remains	Malin Holst	York Osteology Ltd	01904 737509

7.18 Upon completion of archaeological field recording work, an appropriate programme of analysis and publication of the results of the work should be completed. Post excavation assessment of material should be undertaken in accordance with the guidance of MAP2 (English Heritage, 1991).

7.19 Where appropriate, the advice of the English Heritage Regional Advisor for Archaeological Science, Yorkshire Region may be called upon to monitor the archaeological science components of the project.

## 8. Archive

8.1 A field archive should be compiled consisting of all primary written documents, plans, sections and photographs should be produced and cross-referenced. Archive deposition should be undertaken with reference to the County Council's *Guidelines on the Transfer and Deposition of Archaeological Archives*.

8.2 The archaeological contractor should liaise with an appropriate museum to establish the detailed requirements of the museum and discuss archive transfer in advance of fieldwork commencing. The relevant museum curator should be afforded to visit the site and discuss the project results. In this instance, Malton Museum is suggested.

## **9. Report**

- 9.1 A summary report shall be produced following the County Council's guidance on reporting: Reporting Check-List.
- 9.2 All excavated areas should be accurately mapped with respect to nearby buildings and roads.
- 9.3 At least five copies of the report should be produced and submitted to the commissioning body, North Yorkshire County Council Heritage Section HER, the Local Planning Authority, the museum accepting the archive and the English Heritage Regional Advisor for Archaeological Science.
- 9.4 Copyright in the documentation prepared by the archaeological contractor and specialist sub-contractors should be the subject of an additional licence in favour of the museum accepting the archive and North Yorkshire County Council to use such documentation for their statutory educational and museum service functions, and to provide copies to third parties as an incidental to such functions.
- 9.5 Under the Environmental Information Regulations 2005 (EIR), information submitted to the HER becomes publicly accessible, except where disclosure might lead to environmental damage, and reports cannot be embargoed as 'confidential' or 'commercially sensitive'. Requests for sensitive information are subject to a public interest test, and if this is met, then the information has to be disclosed. The archaeological contractor should inform the client of EIR requirements, and ensure that any information disclosure issues are resolved before completion of the work. Intellectual property rights are not affected by the EIR.
- 9.6 If the archaeological fieldwork produces results of sufficient significance to merit publication in their own right, allowance should be made for the preparation and publication of a summary in a local journal, such as the

*Yorkshire Archaeological Journal*. This should comprise, as a minimum, a brief note on the results and a summary of the material held within the site archive, and its location.

- 9.7 Upon completion of the work, the archaeological contractor should make their work accessible to the wider research community by submitting digital data and copies of reports online to OASIS (<http://ads.ahds.ac.uk/project/oasis/>). Submission of data to OASIS does not discharge the planning requirements for the archaeological contractor to notify the Heritage and Environment Section, NYCC of the details of the work and to provide the Historic Environment Record (HER) with a report on the work.



## 10. References

- Association for Environmental Archaeology 1995 Environmental Archaeology and Archaeological Evaluations, Recommendations concerning the Environmental Archaeology component of Archaeological Evaluations in England. Working papers of the Association for Environmental Archaeology, Number 2.
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<http://194.164.61.131/filestore/archaeology/pdf/briefs%20version%202022.pdf>
- Institute of Field Archaeologists 2001 Standard and Guidance for Archaeological Excavation

<http://www.archaeologists.net/modules/icontent/inPages/docs/codes/exc2.pdf>

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archaeological metalwork. English Heritage
- Mackney *et al.*      1983    Soils of England and Wales, Sheet 1: Northern  
England.
- Robinson, J F      1978    The Archaeology of Malton and Norton.
- Watkinson, D &      1998    First Aid for Finds (3<sup>rd</sup> edition), RESCUE & the  
Neal, V              Archaeological Section of the United Kingdom  
Institute for conservation.

#### 11. Additional Information

This brief was completed on 11 October 2006 by:

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