

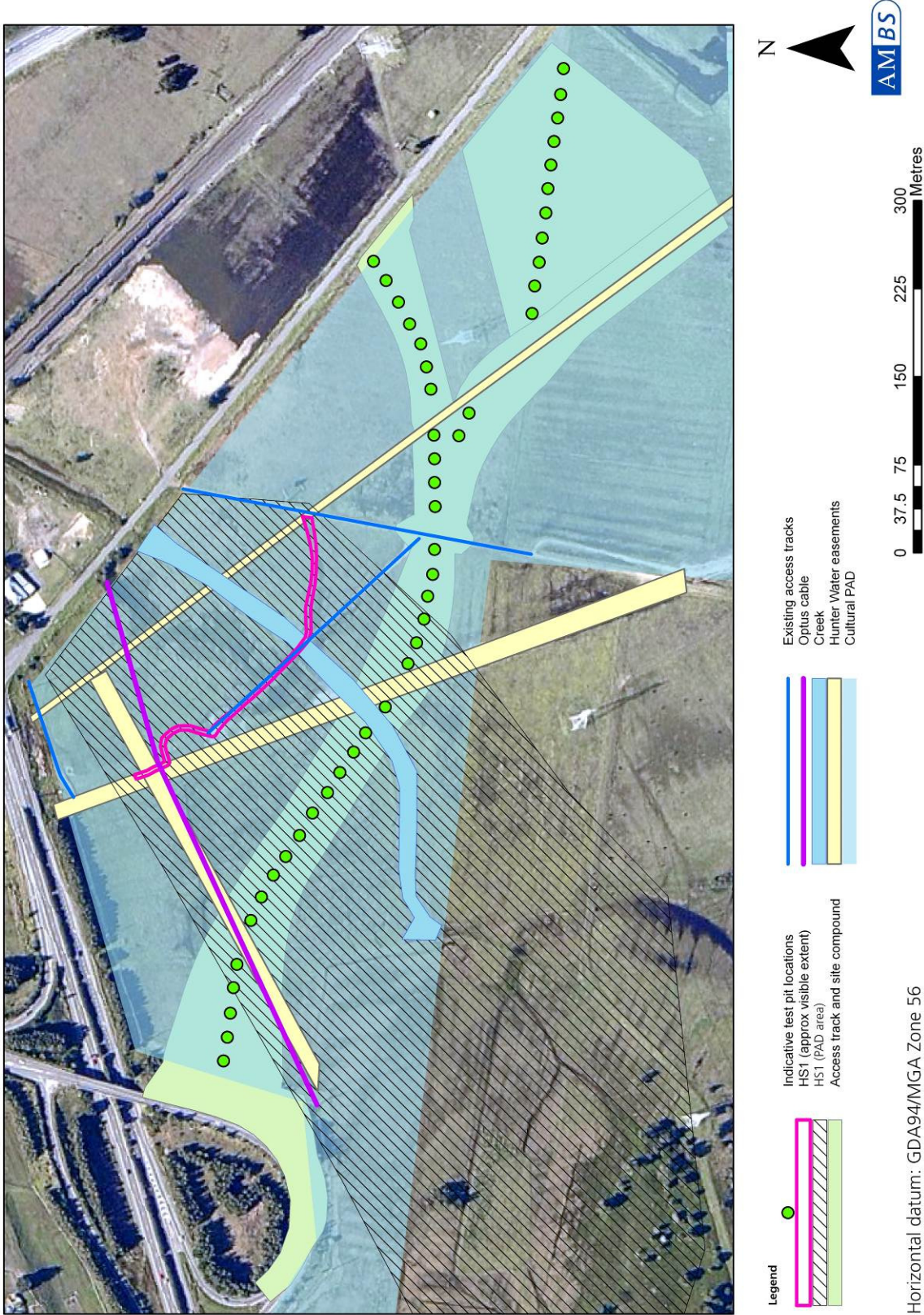


Figure 3 Indicative location of archaeological test pits (northern area).

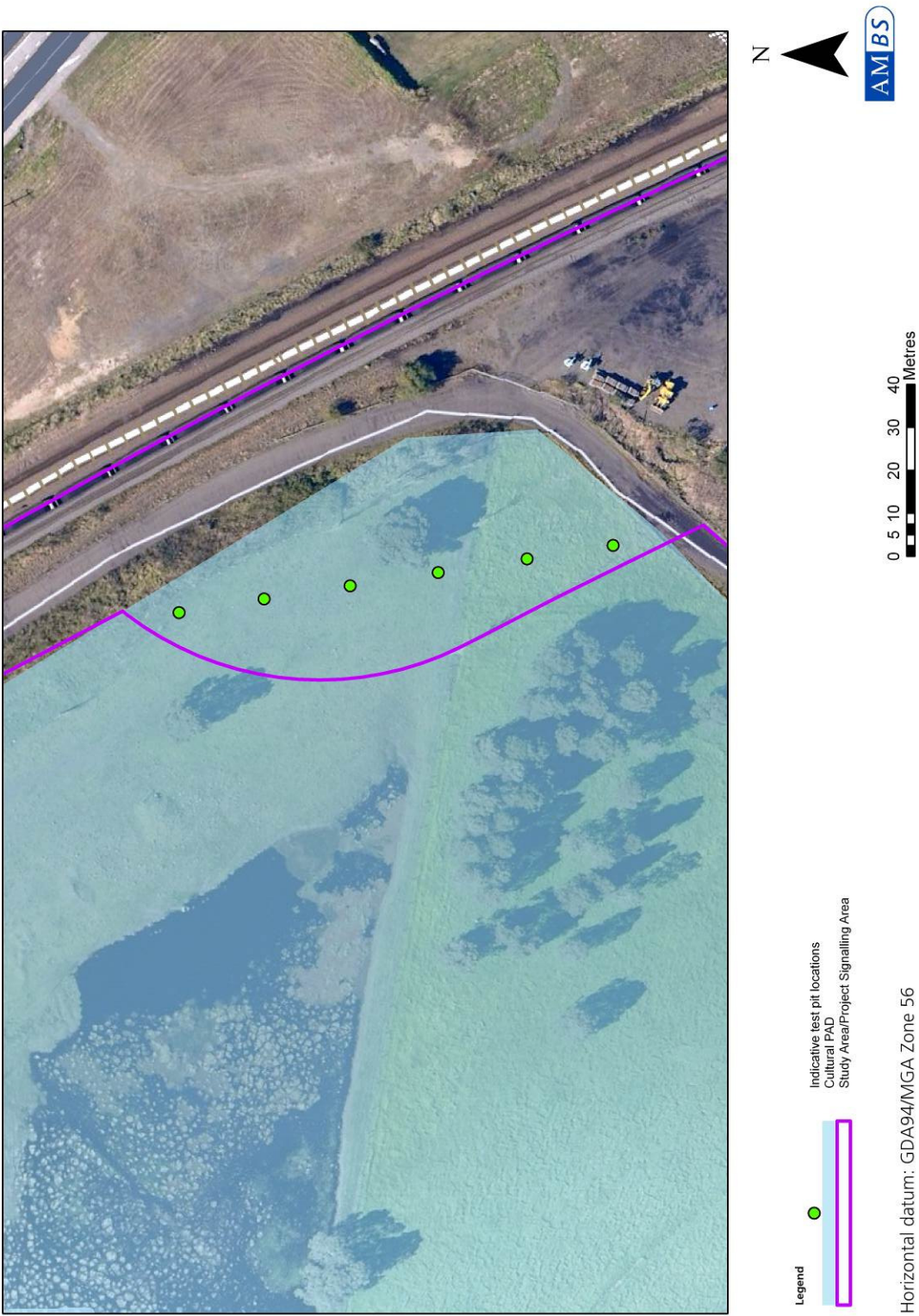


Figure 4 Indicative location of archaeological test pits (southern area).

Where appropriate, stratigraphic sections will be drawn detailing the stratigraphy and features within the excavated deposit and all units will be photographed, prior to and during excavation. Soil and carbon samples will be collected where appropriate, and measurements of the pH of soils will be made. All bulk material excavated will be wet sieved on-site through 5mm sieves, and all pits will be backfilled on completion of the excavation using excavated soils where possible; where additional soil is needed for backfilling, sterile soils will be brought in for this purpose

To allow comparison with other archaeological studies in the local region, a suitably qualified geomorphologist will be engaged to analyse the soils in the study area, and examine soil profiles revealed during excavation. Geomorphological information will be appended to and summarised within the final report, and will contribute to the overall interpretation of the results of the archaeological excavation.

Artefact analysis

Excavated archaeological material will be analysed on a comparable level with previous analyses of excavated assemblages from the region. Information derived from this analysis will be used to formulate interpretations about the Aboriginal site use, antiquity and settlement patterns of the study area, and to assess regional cultural heritage values, where appropriate. A full description of the recording methods will be included in the archaeological report. Analysis of the excavation results will allow a reassessment of the archaeological and cultural significance of the study area, in relation to the archaeological context of the surrounding lands.

Care of artefacts recovered during test excavations

AMBS would appreciate advice as to whether your organisation may wish to take possession of any excavated archaeological material. Otherwise, excavated archaeological material will be lodged in the keeping place to be determined for the project.

Excavation reporting

A draft report on the results of the excavation will be produced on completion of the analysis of excavated archaeological materials, describing the project's methodology and results, and identifying appropriate management and conservation recommendations for areas and sites of Aboriginal heritage significance. Following test excavation, an Aboriginal Site Impact Recording form will be provided to OEH in line with their requirements.

The draft report will be sent to all registered Aboriginal stakeholder organisations for comment, and any feedback received in a timely manner will be incorporated into the final report, as part of the consultation process in accordance with OEH requirements.

References

AMBS (2012) *Hexham Relief Roads Project: Aboriginal Heritage Impact Assessment*. Report prepared for KMH Environmental on behalf of ARTC.

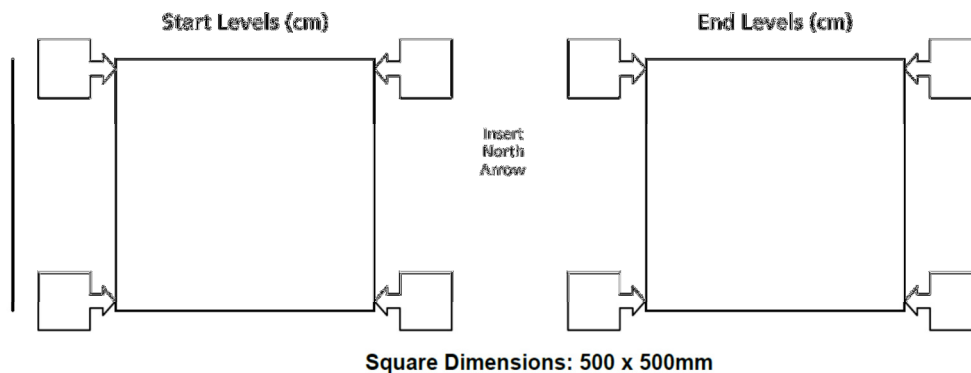
Department of Environment, Climate Change and Water (2010) *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW*

Appendix B

Unit Recording Form Example

120586 Hexham Test ExcavationTranscribed:

Area #:	Square #:	Excavation Unit #:	Date:
Recorded By:		Photos:	
Munsell:		pH:	
Soil Sample Bags #:		Artefact Bags#:	
Square Coordinates (taken from BSW corner of the square)	Easting:	Northing:	

**Soil Description:****Disturbances:****Comments/Other:**

Is this the final excavation unit for this square?	Yes/No
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Plan for Square / Spit Level (Note: insert grid coordinates and plan with a North arrow.)

Insert North
Arrow

Scale:

Section Drawing of Features, Stratigraphic Units (Grid coordinates at each end of the section should be inserted and the direction in which the section faces should be clearly noted.)

Indicate Direction Section Faces _____ (e.g. north east)

Scale:

Appendix C

Excavation Data

Area	Square	Excavation Unit	Start levels (cm)	End levels (cm)	Munsell	pH	Soil Description	Disturbances	Additional Comments	# Artefacts
Access road	HRR01	1	0	5	7.5YR 3/4 dark brown		Very compact, plastic, dark brown humic clayey topsoil.	Grass cover on top.	Took first pit out in 5cm units, and took soil samples (NB. Soil samples disposed of when Munsell obtained.)	0
Access road	HRR01	2	5	10	7.5YR 3/4 dark brown		Slightly less compact, plastic, dark brown clayey topsoil.	Grass roots (less than in previous unit); worms.		0
Access road	HRR01	3	10	15	7.5YR 3/4 dark brown		Compact, plastic, dark brown clayey topsoil.	Some grass roots.		0
Access road	HRR01	4	15	20	7.5YR 3/4 dark brown	5	Compact, increasingly plastic, dark brown clayey soil, onto brown/grey plastic clay.	Some grass roots and worms.	Put sondage down into corner to ensure that this was the clay horizon; this was confirmed.	0
Access road	HRR02	1	0	10	7.5YR 3/4 dark brown		Dark brown/black silty sand topsoil; frequent charcoal (<2mm) throughout. Trending to increased clay with depth. Quite compact - removed with difficulty and exertion with shovel and mattock. Dry.	Frequent grass/bioturbation (c.<10mm diameter, c.30%) throughout. No other inclusions. Cloddish grass on top (c.2cm), removed prior to excavation.		0
Access road	HRR02	2	10	20	7.5YR 3/4 dark brown		Dark brown/black silty sand trending to increased silt/clay with depth. Very similar to unit 1. Small nodules of tan brown clay c.<2mm evident with depth (c. 15%). Moisture slightly increasing with depth. Removed manually with less difficulty than unit 1.	Root/bioturbation activity decreasing with depth (c. 15%).		0
Access road	HRR03	1	0	10	7.5YR 3/4 dark brown		Very compact, dryish, plastic, dark brown clayey topsoil. Drier and more crumbly than HRR01. Becomes more plastic with depth.	Grass cover on top.		0
Access road	HRR03	2	10	20	7.5YR 3/4 dark brown		Very compact, increasingly plastic, dark brown clayey soil, onto brown/grey plastic clay at base.	Some grass roots, worms and small fragments of baked clay.		0
Access road	HRR04	1	0	10	7.5YR 3/4 dark brown		Compact, dark brown/black silty sand topsoil, same as HRR02.	Cloddish grass on top (c.2cm), removed prior to excavation.		0
Access road	HRR04	2	10	20	7.5YR 3/4 dark brown		Dark brown/black silty sand trending to clayey/silty sand with depth, similar to HRR2 unit 2. Comes down onto dark brown/black (60%)/tan brown (40%) sandy clay.	Roots/bioturbation decreasing with depth. Infrequent ironstone <2mm/<15% throughout.		0
Access road	HRR05	1	0	10	7.5YR 3/4 dark brown		Compact, crumbly, dry, dark brown clayey soil. Clumps of more plastic	Grass cover and roots.		0

Access road	HRR05	2	10	20	7.5YR 3/4 dark brown		clay. Very dark brown, compact but clumpy organic soil, increasingly plastic with depth, but still drier than HRR01 or HRR03. Onto lighter brown/grey plastic clay at 20cm.	Some grass roots, worms and small fragments of baked clay.	0
Access road	HRR06	1	0	10	7.5YR 3/4 dark brown		Very dry, dark brown/grey silty sand topsoil; moisture content increasing slightly with depth.	Frequent grass roots/bioturbation (c.<10mm diameter, c.50%) throughout. Infrequent ironstone (<2mm/15%) throughout. No other inclusions. Cloddish grass on top (c.2cm), removed prior to excavation. Frequent c.5cm deep hoof marks.	0
Access road	HRR06	2	10	20	7.5YR 3/4 dark brown		Dark brown/black trending to mid brown clayey silty sand.	Roots/bioturbation decreasing with depth. Infrequent ironstone <5mm/<30% throughout, occasional c.1cm whoppers (<5%) throughout. Grass cover on top.	0
Access road	HRR07	1	0	10	7.5YR 3/4 dark brown		Compact, very dark brown clayey organic soil. Clumpy, but not as much as HRR05. Increasingly plastic with depth.	Pit closest to access track with H51 extension.	0
Access road	HRR07	2	10	16	7.5YR 3/4 dark brown		Very dark brown clayey soil, more plastic than last unit. Comes down onto plastic lighter brown/grey, mottled clay, slightly shallower than last few pits.	Grass roots and some small fragments of baked clay.	0
Access road	HRR07	3	16	30	2.5Y 4/2 dark greyish brown		Mottled grey/brown clay mix, becoming increasingly mottled with orange/brown clay through the grey with depth. Very plastic.	Some very small patches of charcoal mottling.	0
Access road	HRR07	4	30	40	2.5Y 4/2 dark greyish brown		Plastic grey/orange clay with mottled darker brown in patches, becoming sandier and more mottled with depth.	Some small charcoal patches.	0
Access road	HRR07	5	40	50	2.5Y 4/2 dark greyish brown		Sandy clay, mottled grey/orange. Moist and easy to dig out. Becoming increasingly mottled with orange, and lighter shade of grey, with depth.	Some charcoal fragments. Some gravel/backed clay starting to appear.	0
Access road	HRR07	6	50	60	5YR 4/1 dark grey. Orange mottle is 2.5YR 6/8 light red.		Mottled grey/orange sandy soil. Grey seems lighter with depth. Orange mottle seems slightly baked/gravelly. Moist.	Some larger charcoal fragments coming through.	0
Access road	HRR07	7	60	70	10YR 6/1 grey. 7.5YR 5/6 strong brown for		Mottled grey/orange sandy clay soil. Increasing slightly in plasticity with	Some charcoal fragments. Occasional baked clay.	0

					mottle.		depth. Seems to get moister and softer. Orange soil is somewhat burnt.		
Access road	HRR07	8	70	80	10YR 6/1 grey. 7.5YR 6/8 strong brown for mottle.		Mottled grey/orange sandy clay soil, increasingly wet with depth, and quite wet at base of unit. Water starting to seep in at north/north-west corner.	Charcoal fragments, increasing in size with depth.	0
Access road	HRR07	9	80	86	10YR 6/1 grey. 7.5YR 6/8 strong brown for mottle.		Mottled grey/orange sandy clay soil, increasingly wet with depth.	Charcoal fragments/patches.	0
Access road	HRR08	1	0	10	7.5YR 3/4 dark brown		Dark brown/black silty sand topsoil.	Grass much denser/well established in this area. Thick cloddish grass with deep (c.10cm) and thick (c.2cm) roots - grass roots/bioturbation (50%) throughout. Many different types of grasses including very tall (c.1m) tubular type.	0
Access road	HRR08	2	10	20	7.5YR 3/4 dark brown		Dark brown/black silty sand topsoil; still very similar to unit 1 above.	Frequent grass roots/bioturbation <10mm (smaller than above)/25% throughout. Infrequent ironstone (<2mm/15%) trending towards bottom of unit.	0
Access road	HRR08	3	20	30	2.5Y 4/2 dark greyish brown		Dark brown/grey clayey silty sand. Increasing plasticity with depth, moderate compaction.	Infrequent grass roots/bioturbation <10mm/15% throughout. Frequent ironstone (<2mm/30%) throughout.	0
Access road	HRR08	4	30	40	2.5Y 4/2 dark greyish brown		Dark brown/grey clayey silty sand trending to increased grey with orange speckles and increased sand with depth. Moderate compaction; becoming less dense with depth.	Infrequent grass roots/bioturbation <5mm/10% throughout. Frequent ironstone (<5mm/40%) increasing with depth.	0
Access road	HRR08	5	40	50	2.5Y 4/2 dark greyish brown		Dark brown/grey clayey silty sand with frequent orange flecks (<3mm/30%).	Infrequent grass roots/bioturbation <3mm/10% throughout.	0
Access road	HRR08	6	50	60	5YR 4/1 dark grey. Orange mottle is 2.5YR 6/8 light red.		Mottled grey/orange clayey silty sand. Moisture increasing with depth.	Frequent ironstone (<5mm/30%).	0
Access road	HRR08	7	60	70	10YR 6/1 grey. 7.5YR 5/6 strong brown for mottle.		Mottled grey/orange clayey silty sand; same as unit 6 above.		0
Access road	HRR08	8	70	80	10YR 6/1 grey. 7.5YR 6/8 strong brown for		Mottled grey/orange clayey silty sand; same as unit 7 above.		0

Access road	HRR08	9	80	90	mottle. 10YR 6/1 grey. 7.5YR 6/8 strong brown for mottle.	Grey/brown with orange mottle, becoming increasingly wet with depth; sodden at base. Very compact, dry, dark brown clayey topsoil.	Frequent ironstone (<5mm/25%) throughout.	Ended unit at water table.	0
Access road	HRR09	1	0	10	7.5YR 3/4 dark brown	Very compact, dark brown clayey soil. Becomes slightly more plastic/less crumbly near base of unit.	Grass cover on top.		0
Access road	HRR09	2	10	20	7.5YR 3/4 dark brown		Grass roots.		0
Access road	HRR09	3	20	31	7.5YR 3/4 dark brown	5	Compact, dark brown clayey soil on top of grey/orange clay layer.	Some small grass roots. Some natural undulations in the clay layer.	0
Access road	HRR10	1	0	10	7.5YR 3/4 dark brown		Dark brown/black silty sand topsoil.	Upper c.2cm grass discarded. Frequent grass/bioturbation (<5mm/50%) throughout. Infrequent charcoal (<2mm/15%) throughout.	0
Access road	HRR10	2	10	20	7.5YR 3/4 dark brown		Dark brown/black silty sand trending to silt/clay with depth.	Infrequent grass/bioturbation (<2mm/15%) throughout, frequency decreasing with depth.	0
Access road	HRR11	1	0	10	7.5YR 3/4 dark brown		Brown/black silty sand topsoil. Fairly compact, removed with high difficulty with mattock. Very dry.	Upper c.2cm grass discarded. Frequent grass/bioturbation (<5mm/50%) throughout.	0
Access road	HRR11	2	10	20	7.5YR 3/4 dark brown		Dark brown/black silty sand trending to increased silt/clay with depth. Clumpy matrix, becoming more plastic with depth. Comes down onto grey/brown (with orange mottle/baked clay nodes) clay.	Infrequent grass/bioturbation (<5mm/25%) throughout. Infrequent ironstone (<3mm/25%) throughout.	0
Access road	HRR12	1	0	10	7.5YR 3/4 dark brown		Very compact, very dry clumping plastic clayey soil. Soil comes out in clumps at random depths.	Grass cover.	0
Access road	HRR12	2	10	18	7.5YR 3/4 dark brown		Very compact, very dry clumping plastic clayey soil. Soil comes out in clumps at random depths. Very small amount of grey clay showing at base.	Grass roots. Base uneven because soil came out in large clumps	0
Access road	HRR12	3	18	25	7.5YR 3/4 dark brown		Very compact, dry clumping clayey soil, onto plastic grey/orange clay.	Some grass roots. Some baked clay at base. Some natural undulations in clay base.	0
Access road	HRR13	1	0	10	7.5YR 3/4 dark brown		Brown/black silty sand topsoil. Fairly compact, removed manually with mattock with exertion.	Frequent grass/bioturbation (<5mm/50%) throughout.	0
Access road	HRR13	2	10	20	7.5YR 3/4 dark brown		Dark brown/black silty sand (40%/60%) trending to increased silty clay with depth. Mostly plastic	Infrequent ironstone (<3mm/15%) throughout.	0

Access road	HRR14	1	0	10	7.5YR 3/4 dark brown	matrix, but still somewhat clumpy. Moisture increases with depth. Comes down onto grey/brown (with orange mottle/baked clay nodes - gritty in parts) clay.	Compact dark brown clayey topsoil, somewhat softer than the last few pits (possibly because water may pool in this area next to a raised access road - drainage line between road and pit).	Grass covering surface. Some worms and baked clay inclusions.	0
Access road	HRR14	2	10	20	7.5YR 3/4 dark brown	Compact dark brown/black clayey soil, onto dark grey clay stained with brown/black from soil above.	Compact dark brown/black clayey soil, onto dark grey clay stained with brown/black from soil above.	Grass roots, worms, baked clay.	0
Access road	HRR15	1	0	10	7.5YR 3/4 dark brown	Brown/black silty sand topsoil, trending to increased silty clay with depth.	Brown/black silty sand topsoil, trending to increased silty clay with depth.	Frequent grass/bioturbation (<3mm/40%) throughout.	0
Access road	HRR15	2	10	20	7.5YR 3/4 dark brown	Brown/grey clayey silty sand with orange mottle. Firm, somewhat clumpy matrix. Plasticity and clay content increase with depth.	Brown/grey clayey silty sand with orange mottle. Firm, somewhat clumpy matrix. Plasticity and clay content increase with depth.	Infrequent grass/bioturbation (<3mm/15%). Frequent baked clay/grit nodes (c.<10mm/40%).	0 Decided to go down to the water table/1m depth every hundred metres to confirm cultural sterility below clay, across landform.
Access road	HRR15	3	20	30		Grey/brown sandy silty clay with orange mottle. Firm/compact matrix, plasticity and clay content increase with depth.	Grey/brown sandy silty clay with orange mottle. Firm/compact matrix, plasticity and clay content increase with depth.	Frequent baked clay/grit nodes (c.<10mm/40%) throughout.	0
Access road	HRR15	4	30	40		Grey/brown sandy silty clay with orange mottle, same as in unit 3 above. Moisture and plasticity increase with depth.	Grey/brown sandy silty clay with orange mottle, same as in unit 3 above. Moisture and plasticity increase with depth.		0
Access road	HRR15	5	40	50		Grey/brown sandy silty clay with orange mottle, same as in units 3 and 4 above. Plasticity increasing with depth.	Grey/brown sandy silty clay with orange mottle, same as in units 3 and 4 above. Plasticity increasing with depth.	Frequent baked clay nodes/stains (<20mm).	0
Access road	HRR15	6	50	60		Grey/brown sandy silty clay with frequent orange nodes (<15mm) throughout. Decreasing brown and increasing grey with depth. Sand content slightly increases with depth.	Grey/brown sandy silty clay with frequent orange nodes (<15mm) throughout. Decreasing brown and increasing grey with depth. Sand content slightly increases with depth.		0
Access road	HRR15	7	60	70		Mostly grey/brown (70%/30%) silty sandy clay with frequent orange nodes (<10mm) throughout. Sand content higher than previous unit, increasing with depth. Matrix very easy to remove. Moisture content increasing with depth, trending to damp.	Mostly grey/brown (70%/30%) silty sandy clay with frequent orange nodes (<10mm) throughout. Sand content higher than previous unit, increasing with depth. Matrix very easy to remove. Moisture content increasing with depth, trending to damp.		0

Access road	HRR15	8	70	80		Mostly grey/brown (70%/30%) silty sandy clay with frequent grainy orange nodes (<10mm) throughout. Wet and sloppy.		Water table reached.	0
Access road	HRR16	1	0	10	7.5YR 3/4 dark brown	Very compact, dry clumping dark brown/black clayey topsoil. Plastic but very dry and hard.	Grass cover, some charcoal inclusions.		0
Access road	HRR16	2	10	20	7.5YR 3/4 dark brown	Compact, plastic dark brown/black clayey soil, onto orange/grey clay, with some mottling/mixing.	Grass roots.		0
Access road	HRR17	1	0	10	7.5YR 3/4 dark brown	Very compact (but softer than HRR16), dark brown/black clayey soil. Some dark grey/orange clay starting to mottle through on southern side of pit.	Grass cover.		0
Access road	HRR17	2	10	16	7.5YR 3/4 dark brown	Compact dark brown/black clayey soil, onto dark grey/orange clay, with some mottling/mixing.	Grass roots.		0
Access road	HRR18	1	0	8	7.5YR 3/4 dark brown	Very compact dark brown/black clayey topsoil.	Grass cover.		0
Access road	HRR18	2	8	20	7.5YR 3/4 dark brown	Very compact, dry, plastic clumping dark brown/black clayey soil, onto grey/orange clay.	Some grass roots and baked clay.		0
Access road	HRR19	1	0	10	7.5YR 3/4 dark brown	Compact, dry, plastic clumping dark brown/black clayey soil.	Some grass cover and baked clay fragments.		0
Access road	HRR19	2	10	18	7.5YR 3/4 dark brown	Compact, dry, plastic clumping dark brown/black clayey soil, onto grey clay.	Grass roots, burnt clay fragments.		0
Access road	HRR20	1	0	10	7.5YR 3/4 dark brown	Brown/black silty sand topsoil, trending to increased silty clay with depth. Fairly dense matrix; removes in clumps.			0
Access road	HRR20	2	10	20	7.5YR 3/4 dark brown	Brown/grey clayey silty sand with orange mottle. Light brown mottled clay in NE corner of pit.	Frequent baked clay/grit nodes (c.<10mm/30%) throughout.		0
Access road	HRR20	3	20	30		Grey/brown (60%/40%) sandy silty clay with orange mottle. Firm matrix, moisture and clay content increase with depth. Heavily mottled at base.	Frequent baked clay/grit nodes (c.<10mm/40%) throughout.		0
Access road	HRR20	4	30	40		Grey/brown sandy silty clay with orange mottle, same as in unit 3 above. Moisture and plasticity increase with depth. Heavily mottled.			0
Access road	HRR20	5	40	50	10YR 4/1 dark grey	Mostly grey/brown (70%/30%) sandy/silty clay with frequent orange mottle/grit nodes			0

Access road	HRR20	6	50	60	10YR 4/1 dark grey	(<15mm/30%) throughout. Sticky/plastic matrix, moist but not damp.			0
Access road	HRR20	7	60	70	10YR 4/1 dark grey	Mostly grey/brown (70%/30%) silty sandy/silty clay with frequent orange mottle/grit nodes (<10mm/30%) throughout, same as unit 5 above. Sticky/plastic matrix.			0
Access road	HRR20	8	70	80	10YR 4/1 dark grey	Mostly grey/brown (70%/30%) silty sandy clay with frequent grainy orange nodes (<10mm) throughout. Sand content slightly increasing with depth. Matrix still mostly dry approaching moist (not wet or sloppy though).			0
Access road	HRR20	9	80	90	10YR 5/2 greyish brown	Mostly grey/brown (80%/20%) fine silty sandy clay with frequent orange nodes (<10mm) throughout. Sand content increasing with depth, although still quite fine. Becoming wet, but not inundated.	c.10m east of current creek. Stopped at water table.		0
Access road	HRR21	1	0	10	2.5YR 2.5/1 reddish black	Very dark brown/black clayey topsoil. Softer/moister than previous pits.	Grass cover.		0
Access road	HRR21	2	10	18	5YR 2.5/1 black	Very dark brown/black clayey soil, onto grey clay.	Grass roots, worms, some baked clay fragments.		0
Access road	HRR22	1	0	10	5YR 2.5/1 black	Very dark brown/black clayey topsoil. Fairly soft at top but increasingly plastic near base of unit.	Grass cover.		0
Access road	HRR22	2	10	20	5YR 2.5/1 black	Very dark brown/black clayey soil, onto grey clay.	Grass roots, worms, some baked clay fragments.		0
Access road	HRR23	1	0	10	5YR 2.5/1 black	Brown/black (50%/50%) silty sand (40%/60%) topsoil trending to increasing silty clay content with depth.	Frequent grass/bioturbation (<5mm/40%) throughout.		0
Access road	HRR23	2	10	20	5YR 2.5/1 black	Brown/grey clayey silty sand with gritty orange nodes (<5mm/40%) throughout. Clumpy, firm matrix, still mostly topsoil.			0
Access road	HRR23	3	20	30	5YR 2.5/1 black	Brown/black clayey silty sand, clay content increasing with depth.	Infrequent grass/bioturbation (<5mm/15%) and grainy orange nodes (<10mm/15%)		0

Access road	HRR24	1	0	9	5YR 2.5/1 black		Very dark brown/black clayey topsoil.	throughout. Grass cover.		0
Access road	HRR24	2	9	20	5YR 2.5/1 black		Very dark brown/black clayey soil, onto grey clay.	Grass roots, worms, some baked clay fragments.	Going down to the water table/1m.	0
Access road	HRR24	3	20	30	10YR 4/1 dark grey		Grey clay, very plastic.	Some grass roots, baked clay fragments.		0
Access road	HRR24	4	30	40	10YR 4/1 dark grey		Grey clay with orange clay inclusions.	Some grass roots, baked clay fragments.		0
Access road	HRR24	5	40	50	2.5Y 5/1 grey		Grey clay with orange clay inclusions. Plastic but moist and soft.	Some baked clay and charcoal inclusions.	Some small shell fragments (<i>Notospisula trigonella</i> - non-edible species/size endemic to muddy bays/estuaries) exposed in wall near NW corner, very flaky and fragmented from clay.	0
Access road	HRR24	6	50	60	2.5Y 5/1 grey. 2.5Y 4/1 dark grey around shells.		Dark grey plastic clay with orange clay inclusions.	Some baked clay and charcoal inclusions.	Patch of small shells (<i>Notospisula trigonella</i> - non-edible species/size endemic to muddy bays/estuaries) in one area, near NW corner. Likely resulting from wash/inundation event. Clay is slightly darker near shells, which have fragmented into the clay. Possible burning of shells in same way as baked clay.	0
Access road	HRR24	7	60	70	10YR 4/1 dark grey		Grey clay with orange clay inclusions. Seems to get moister and stickier with depth.	Baked clay and charcoal inclusions.	Patch of small shells (<i>Notospisula trigonella</i> - non-edible species/size endemic to muddy bays/estuaries; one small fragment of small <i>Anadara trapezia</i> species, also from muddy/sandy bays/estuaries) in one area, near NW corner. Likely resulting from wash/inundation event.	0
Access road	HRR24	8	70	80	2.5Y 5/1 grey		Grey plastic clay with orange clay inclusions. Moisture seems to increase slightly with depth.	Baked clay and charcoal inclusions.	Patch of small shells (<i>Notospisula trigonella</i> - non-edible species/size endemic to muddy bays/estuaries) in one area, near NW corner. Likely resulting from wash/inundation event.	0
Access road	HRR24	9	80	92	2.5Y 4/1 dark grey. 2.5Y 4/6 olive brown (clay at base).		Dark grey clay, increasing in moisture with depth onto wet brown/orange clay at water table.	Some baked clay and charcoal inclusions.	Patch of small shells (<i>Notospisula trigonella</i> - non-edible species/size endemic to muddy bays/estuaries); one small fragment of small <i>Velacumantus australis</i> , still with colour, also from sandy bays/estuaries) in	0

Access road	HRR25	1	0	10	7.5YR 3/1 very dark grey		Brown/black silty sand topsoil, clay and silt content increasing with depth.	Frequent grass/bioturbation throughout.	one area, near NW corner. Likely resulting from wash/inundation event.	0
Access road	HRR25	2	10	20	7.5YR 3/1 very dark grey		Brown/grey clayey silty sand topsoil, clay content increasing with depth.	Infrequent orange nodes (<5mm/15%) throughout.		0
Access road	HRR25	3	20	28	7.5YR 4/1 dark grey		Brown/black (c.50%/50%) silty sand topsoil, clay and silt content increasing with depth. Onto grey mottled clay.	Infrequent grass/bioturbation (<3mm/20%) throughout.		0
Access road	HRR26	1	0	10	7.5YR 3/1 very dark grey		Brown/black (50%/50%) silty sand topsoil, same as other pits; clay and silt content slightly increasing with depth.			0
Access road	HRR26	2	10	20	7.5YR 3/1 very dark grey		Brown/black silty sand topsoil, higher clay content than unit 1 above, but still only a very minor component. Compact matrix, comes out in large clumps.			0
Access road	HRR26	3	20	30	7.5YR 4/1 dark grey		Brown/black silty sand, onto grey clayey silt/clay.	Infrequent grass/bioturbation.		0
Access road	HRR27	1	0	10	7.5YR 3/1 very dark grey		Brown/black (50%/50%) silty sand topsoil; clay content increasing with depth.			0
Access road	HRR27	2	10	20	7.5YR 3/1 very dark grey		Brown/grey clayey silty sand topsoil, with infrequent orange mottle (c.10mm/15%) throughout. Clay content increasing with depth, particle size decreasing with depth, trending to increased silt. Onto grey clayey silt/clay.			0
Access road	HRR28	1	0	10	7.5YR 3/1 very dark grey		Brown/black silty sand topsoil.	Frequent grass/bioturbation (<10mm/45%) throughout.		0
Access road	HRR28	2	10	20	7.5YR 3/1 very dark grey		Brown/grey clayey silty sand topsoil, with infrequent orange mottle (c.5mm/15%) throughout. Clay content increasing with depth. Onto grey silty clay.			0
Access road	HRR29	1	0	10	5YR 2.5/1 black		Very dark brown/black clayey topsoil.	Grass cover. Some small baked clay fragments at base of unit.		0
Access road	HRR29	2	10	20	5YR 2.5/1 black		Very dark brown/black clayey topsoil, onto plastic grey clay.	Grass roots, worms, some baked clay fragments.	Going down to water table/1m.	1
Access road	HRR29	3	20	30	10YR 4/1 dark grey		Grey plastic clay with some orange clay inclusions.	Baked clay and charcoal inclusions, grass roots, many small worms.		0
Access road	HRR29	4	30	40	10YR 4/1 dark grey		Grey plastic clay with orange clay	Baked clay and charcoal		0

Access road	HRR29	5	40	50	2.5Y 5/1 grey			inclusions. Quite clumpy/sticky.	inclusions, grass roots, worms. Rotting tree root across pit.	
Access road	HRR29	6	50	60	2.5Y 5/1 grey, 2.5Y 4/1 dark grey around shells.			Grey plastic clay with some orange clay inclusions.	Some baked clay and charcoal inclusions. Rotting tree root across pit.	0
Access road	HRR29	7	60	70	10YR 4/1 dark grey			Grey plastic clay with some orange clay inclusions. Some white sandy inclusions/quartz-like fragments.	Some baked clay and charcoal inclusions. Rotting tree roots.	0
Access road	HRR29	8	70	80	2.5Y 5/1 grey			Grey clay with brown/orange clay inclusions. Some white sandy inclusions/quartz-like fragments.	Baked clay and charcoal inclusions.	0
Access road	HRR29	9	80	92	2.5Y 4/1 dark grey, 2.5Y 4/6 olive brown (clay at base).			Grey clay, sticky and slightly moist, with brown/orange clayey/sandy inclusions, onto a wet, slushy, grey and brown sandy clay.	Some fragments of baked clay.	0
Access road	HRR30	1	0	10	7.5YR 3/1 very dark grey			Brown/black silty sand topsoil.	Some fragments of baked clay. Reached water table and stopped.	0
Access road	HRR30	2	10	20	7.5YR 3/1 very dark grey			Brown/black (c.50%/50%) silty sand topsoil, clay content increasing with depth.	Very fine frequent grass/bioturbation (<3mm/70%) throughout.	0
Access road	HRR30	3	20	28	7.5YR 3/1 very dark grey			Brown/black (c.50%/50%) silty sand topsoil, becoming increasingly clayey and silty with depth. Comes down onto grey silty clay with orange nodes.	Infrequent grass/bioturbation (<3mm/25%) throughout.	2
Access road	HRR30	3	20	28	7.5YR 3/1 very dark grey			Brown/black (c.50%/50%) silty sand topsoil, becoming increasingly clayey and silty with depth. Comes down onto grey silty clay with orange nodes.	Infrequent grass/bioturbation (<3mm/15%) throughout.	0
Access road	HRR31	1	0	10	7.5YR 3/1 very dark grey			Brown/black silty sand topsoil. Increased sand content in NW corner.	Infrequent small grass/bioturbation (<3mm/50%) throughout.	0
Access road	HRR31	2	10	20	7.5YR 3/2 dark brown			Dark brown silty sand. Coarse-grained sand (very noticeable as sand) consistent throughout unit, but more sand on northern half of pit.	Pit is located c.10m south of E-W oriented shallow depression c.30m long, 2m wide and 30cm deep - possibly old creek, now overgrown.	0
Access road	HRR31	3	20	30	7.5YR 3/2 dark brown			Dark brown silty sand with frequent patches of coarse-grained well-rounded sand (<2mm/30%) throughout.	Frequent grass/bioturbation (<2mm) throughout (partly decayed).	0
Access road	HRR32	1	0	10	7.5YR 3/1 very dark grey			Brown/black silty sand topsoil.	Deep (c.15cm) hoof prints on top of pit.	0
Access road	HRR32	2	10	20	7.5YR 3/1 very dark grey			Brown/black silty sand topsoil.	Taking pit down to 1m/water table.	0

Access road	HRR32	3	20	30	10YR 4/1 dark grey	Dark brown clayey silty sand with infrequent gritty orange nodes (<5mm/25%) throughout. Clay content increasing with depth. Matrix plastic but not clumpy.	Frequent grass/bioturbation (<3mm/40%) throughout.	0
Access road	HRR32	4	30	40	10YR 4/1 dark grey	Grey/brown (60%/40%) sandy silty clay with frequent gritty orange nodes (<10mm/40%) throughout. Increasing plasticity with depth.		0
Access road	HRR32	5	40	50	10YR 4/1 dark grey	Mostly grey/brown (70%/30%) sandy silty clay with frequent gritty orange nodes (<10mm/30%) throughout. Plasticity matrix.		0
Access road	HRR32	6	50	60	10YR 4/1 dark grey	Mostly grey/brown (70%/30%) sandy silty clay with frequent orange nodes (<5mm/30%) throughout. Nodes composed of coarse-grained (slightly less than 1mm) sand and silt. Infrequent clusters (<3mm) of small shite/clear quartz crystals (<1mm long/15%).		0
Access road	HRR32	7	60	70	10YR 4/1 dark grey	Mostly grey/brown (70%/30%) sandy silty clay with frequent gritty orange nodes (<5mm/30%) throughout. Sand content increasing with depth.		0
Access road	HRR32	8	70	80	10YR 4/1 dark grey	Mostly grey/brown (70%/30%) sandy silty clay trending to sandy clay with depth. Infrequent orange nodes (<3mm/25%) throughout.		0
Access road	HRR32	9	80	90	10YR 5/2 greyish brown	Mostly grey/brown (80%/20%) sandy clay with infrequent orange nodes (<3mm/15%) throughout. Becoming wet with depth, water seeping in at base.	Water table reached.	0
Access road	HRR33	1	0	12	5YR 2.5/1 black	Very dark brown/black clayey topsoil, clumping.	Grass cover.	0
Access road	HRR33	2	12	23	5YR 2.5/2 dark reddish brown. 7.5YR 4/1 to 4/2 dark grey to brown (clay).	Very compact, dry and cracking dark brown clayey topsoil with red inclusions (possibly run-off from road?), onto grey/brown clay with red clayey inclusions.	Grass roots, worms/grubs. Fragments of clear glass found	0
Access road	HRR34	1	0	10	5YR 2.5/1 black	Black/brown silty sand topsoil.	Area heavily impacted on surface by hoof marks up to c.15cm deep.	0
Access road	HRR34	2	10	20	5YR 2.5/1 black	Black/brown silty sand topsoil, infrequent grit nodes (<15mm/25%) throughout. Grit size <2mm, coarse (ie. not rolled).		0

Site compound	HRR35	1	0	10	7.5YR 3/4 dark brown	Dark brown silty sand (30%/70%) topsoil. High silt content gives dense but friable matrix. Comes out in friable blocks easily broken up with hand.	Frequent grass/bioturbation (<5mm/40%) throughout.	0
Site compound	HRR35	2	10	20	7.5YR 3/4 dark brown	Dark brown silty sand topsoil.		0
Site compound	HRR36	1	0	10	7.5YR 3/4 dark brown	Dark brown silty sand topsoil. High silt content makes matrix cloddish (comes out in clumps/blocks).		0
Site compound	HRR36	2	10	20	7.5YR 3/4 dark brown	Dark brown silty sand topsoil, trending to silty clay with depth. Very silty matrix, hard and friable. Comes out in large clumps. Dry.		0
Site compound	HRR36	3	20	30	7.5YR 3/4 dark brown	Brown clayey silty sand (30%/30%/40%) topsoil, clay content increasing with depth.		
Site compound	HRR37	1	0	13	7.5YR 3/4 dark brown	Dark brown silty sandy (70%/30%) topsoil. High silt content gives dense but friable matrix; comes out in large blocks - makes attaining regular/consistent depths difficult.		0
Site compound	HRR37	2	13	20	7.5YR 3/4 dark brown	Dark brown sandy silty topsoil.		0
Site compound	HRR37	3	20	25	7.5YR 3/4 dark brown	Dark brown clayey silty sandy (30%/30%/60%) topsoil.		0
Site compound	HRR38	1	0	10	7.5YR 3/4 dark brown	Very compact, dry, dark brown clayey soil.	Grass cover.	0
Site compound	HRR38	2	10	20	7.5YR 3/4 dark brown	Very compact, dry, dark brown clayey topsoil.	Grass roots, worms, spiders.	0
Site compound	HRR38	3	20	30	7.5YR 3/4 dark brown	Very compact, dry, dark brown clayey topsoil, onto brown/grey clay with baked clay inclusions/gravel.	Grass roots, worms.	0
Site compound	HRR39	1	0	10	7.5YR 3/4 dark brown	Dark brown silty sand (30%/70%) topsoil; dense but friable matrix; comes out in large blocks - base uneven.	Infrequent grass/bioturbation (<5mm/25%) throughout.	0
Site compound	HRR39	2	10	20	7.5YR 3/4 dark brown	Dark brown silty sand (30%/70%) topsoil; dense, dry, friable matrix.	Infrequent grass/bioturbation (<3mm/40%) throughout.	0
Site compound	HRR39	3	20	30	7.5YR 3/4 dark brown	Dark brown clayey silty sand (30%/30%/40%), becoming increasingly clayey with depth - onto clay.		0
Site compound	HRR40	1	0	10	7.5YR 3/4 dark brown	Very compact, dry, clumpy dark brown clayey topsoil.	Grass cover.	0
Site compound	HRR40	2	10	20	7.5YR 3/4 dark brown	Very compact, dry, clumpy dark brown clayey topsoil, onto grey/brown clay.	Grass roots, worms.	0
Site compound	HRR40	3	20	30	2.5Y 4/2 dark greyish brown	Very compact, plastic, grey/brown clay with small red clay inclusions.	Going down to water table/1m. Some small grass roots.	0

Site compound	HRR40	4	30	40	2.5Y 4/2 dark greyish brown	Slightly moist, grey/brown sandy clay with slight orange nodule inclusions.	Some small flecks of charcoal.	0
Site compound	HRR40	5	40	50	2.5Y 4/2 dark greyish brown	Slightly moist, grey/brown sandy clay with some orange nodule inclusions.		0
Site compound	HRR40	6	50	62	5YR 4/1 dark grey. Orange mottle is 2.5YR 6/8 light red.	Moist grey/brown/orange sandy clay, more moist and sandy than last unit. Some orange nodule inclusions.		0
Site compound	HRR40	7	62	70	10YR 6/1 grey. 7.5YR 5/6 strong brown for mottle.	Grey/brown sandy clay, moister and sandier than previous unit.		0
Site compound	HRR40	8	70	80	10YR 6/1 grey. 7.5YR 6/8 strong brown for mottle.	Moist grey/brown sandy clay. Sand grains increasing in coarseness with depth, and becoming more grey. Orange nodule inclusions (up to 15mm diameter).		0
Site compound	HRR40	9	80	90	2.5Y 6/1 grey	Grey/brown/orange sandy clay, increasing in moistness and sand content with depth.	Reached water table and stopped.	0
Site compound	HRR41	1	0	10	7.5YR 3/4 dark brown	Dark brown silty sand topsoil. Dry, dense, friable matrix. Comes out in clumps - uneven surface.	Infrequent grass/bioturbation (<3mm/45%) and orange baked clay nodes (<5mm/25%) throughout.	0
Site compound	HRR41	2	10	20	7.5YR 3/4 dark brown	Dark brown silty sand (30%/70%) topsoil; dense but friable matrix; comes out in large blocks - base uneven.	Infrequent grass/bioturbation (<3mm/15%) and orange baked clay nodes (<10mm/40%) throughout.	0
Site compound	HRR41	3	20	30	7.5YR 3/4 dark brown. 7.5YR 4/3 to 4/2 brown (clay).	Dark brown clayey silty sand (30%/30%/40%), becoming increasingly clayey with depth - onto clay.		0
Site compound	HRR42	1	0	12	7.5YR 3/4 dark brown	Very compact, dry, dark brown clayey topsoil, coming out in clumps.	Grass cover.	0
Site compound	HRR42	2	10	27	7.5YR 3/4 dark brown	Very dry and compact dark brown clayey soil. Very clumpy - crumbled down onto brown/grey clay, so took soil out as one unit.	Grass roots.	0
Site compound	HRR43	1	0	10	10YR 3/1 very dark grey	Grey/brown silty sand topsoil (30%/70%). Very dry, dense, friable matrix that removes in clods.	Infrequent grass/bioturbation (<3mm/25%) throughout.	0
Site compound	HRR43	2	10	20	10YR 3/1 very dark grey. 7.5YR 4/2 to 4.2 brown (clay).	Grey/brown silty sand topsoil (30%/70%). Very dry, dense, friable matrix that removes in clods.	Infrequent grass/bioturbation (<3mm/15%) throughout.	0
Site compound	HRR44	1	0	10	7.5YR 3/4 dark brown	Very dry and compact dark brown clayey soil.	Grass cover.	0
Site compound	HRR44	2	10	21	7.5YR 3/4 dark brown	Very dry and compact dark brown clayey soil onto grey/brown clay.	Some baked clay fragments.	0

Site compound	HRR45	1	0	10	10YR 3/1 very dark grey		Clumpy. Grey/brown silty sand topsoil. Fine, dry, cloddish matrix.	Infrequent grass/bioturbation (<3mm) throughout.	0
Site compound	HRR45	2	10	20	10YR 3/1 very dark grey		Dark brown sandy silty topsoil, increasing in clay content with depth. Still mostly dense but friable matrix.		0
Site compound	HRR45	3	20	30	7.5YR 3/4 dark brown. 7.5YR 4/3 to 4/2 brown (clay).		Dark brown clayey silty sand (30%/30%/40%) topsoil, becoming increasingly clayey with depth - onto clay.	Frequent baked clay nodes (c.<10mm/25%) throughout.	0

