Sherd / vessel ID	Original experiment	Pre-burial trace category	Burial environment	Burial depth circa	Burial duration	Post-burial observations
7	Wet mode cooking and cleaning	Soot, burnt residues and interior carbonisation from wet-mode cooking	Clayey gravel soil	30 cm	8 months	Exterior soot and fire-cloud pattern remained visible after burial. Interior grey-black carbonisation also survived. The thin white interior deposit was largely reduced, but small traces remained.
7	Wet mode cooking and cleaning	Soot, burnt residues and interior carbonisation from wet-mode cooking	Humus-rich wetland soil	30 cm	8 months	Exterior soot and interior grey-black carbonisation with black carbonised residues remained visible to approximately the same extent as before burial.
30	Porridge cooking, stirring and cleaning	Cleaning-related surface loss, scratches and exposed temper	Clayey gravel soil	30 cm	8 months	Exterior black and partly shiny soot survived without visible change. Interior cleaning-related scratches, lower-wall/base wear, surface loss and exposed temper remained visible. Brown-orange interior carbonisation was still present, although less easy to see on the small sherd.
30	Porridge cooking, stirring and cleaning	Cleaning-related surface loss, scratches and exposed temper	Humus-rich wetland soil	30 cm	8 months	Exterior black and partly shiny soot survived without visible change. Interior cleaning-related scratches and lower-interior wear with exposed temper remained visible. Macroscopically, the scratches were clearer than at low magnification, where they appeared more as general surface wear.
A	Transformed foods (milk)	Milk-related corrosion-like surface alteration, including exterior pitting and interior spalls	Clayey gravel soil	30 cm	8 months	Milk-related exterior pitting and spalling survived after burial. The sherd remained darker than the paired wetland-soil sherd.
A	Transformed foods (milk)	Milk-related corrosion-like surface alteration, including exterior pitting and interior spalls	Humus-rich wetland soil	30 cm	8 months	Milk-related exterior pitting and spalling survived. The sherd became lighter than the paired clayey-gravel-soil sherd on both interior and exterior surfaces and appeared more generally weathered. The exterior pits and spalls resembled extensive corrosion-like alteration.
C	Transformed foods (beer)	Beer fermentation sherd without corrosion-like surface alteration	Clayey gravel soil	30 cm	8 months	The surface lost some of its pre-burial gloss, and a light grey mould-like or soil-derived accretion appeared on the exterior belly where no deposit had been recorded before burial. Perhaps a few corrosion-like pitting occurred beneath and around the grey mould-like accretion.
C	Transformed foods (beer)	Beer fermentation sherd without corrosion-like surface alteration	Humus-rich wetland soil	30 cm	8 months	No corrosion-like pitting or spalling developed. The two sherds that were both in wetland differed in colour from the paired sherd from the same vessel, showing that colour variation can occur between sherds from a single vessel even in the same soil deposit, and lying close to each other during deposition.
D	Transformed foods (whey)	Whey-related exterior surface alteration with raised or protruding texture	Clayey gravel soil	30 cm	8 months	Whey-related exterior surface alteration survived and appeared more clearly corrosion-like after burial, with coalesced areas of pitting and spalling. The clayey-gravel-soil sherd remained darker than the paired wetland-soil sherd on both interior and exterior surfaces.
D	Transformed foods (whey)	Whey-related exterior surface alteration with raised or protruding texture	Humus-rich wetland soil	30 cm	8 months	Whey-related exterior surface alteration survived and appeared more clearly corrosion-like after burial, with coalesced areas of pitting and spalling. The wetland-soil sherd became lighter than the paired clayey-gravel-soil sherd on both interior and exterior surfaces.
F	Transformed foods (water storage)	Water-storage control with lime deposit but otherwise no visible use-alteration	Clayey gravel soil	30 cm	8 months	Thin lime deposits on the exterior belly and base persisted, although they may have been slightly reduced. The sherd was recovered as three fragments after burial in clayey gravel soil.
F	Transformed foods (water storage)	Water-storage control with lime deposit but otherwise no visible use-alteration	Humus-rich wetland soil	30 cm	8 months	Thin lime deposits on the exterior belly and base persisted, although they may have been slightly reduced.

Table S7. Short-term burial experiment and post-depositional changes.