

**Oxford Tree-Ring Laboratory Wood Recording Sheet**

OTR sample no: 075

Site name: Market Street Chinatown Archaeological Project

Catalog #: 86-36/7-915

Feature type: Wood-lined cistern/trash pit

Artifact type: Possible chopstick

Species ID: Bambuseae tribe

Condition (completeness, wear, damage, charring):  
Incomplete. Both ends are broken, with no signs of cutting or sawing. No charring.

**Dimensions (mm)**

Length: 137.35

Width:

Thickness:

Diameter: 5.15

Weight (g): 2

Natural features/insect damage:

Further research potential: Dendrochronology  Tool mark analysis  Use wear analysis **Woodworking technology**

Conversion method: None visible.

Tool marks:

Joints:

Fixings and fittings:

Intentional marks:

Surface treatment:

Other:

**Interpretation:**

Hollow cylinder of bamboo. No opening has been cut through the solid node of the bamboo stem and therefore the artifact was not used as a pipestem or straw. Possibly used as a chopstick or dowel.

**Oxford Tree-Ring Laboratory Wood Recording Sheet**

OTR sample no: 076

Site name: Market Street Chinatown Archaeological Project

Catalog #: 86-36/13-12

Feature type: Wooden structure

Artifact type: Composite wood/metal object (knife and scabbard)

Species ID: Unidentified (scabbard);  
Sequoia sempervirens (unidentified artifact)

Condition (completeness, wear, damage, charring):

Worn and incomplete. The scabbard retains one face and possibly one edge. Only a portion of the original joined-together composite object is preserved. The redwood timber retains one face only. No charring.

Dimensions (mm)

	Scabbard	Other timber
Length:	180.42	102.7
Width:	50.60	35.47
Thickness:	25.48	9.01
Weight (g):	76	10

Natural features/insect damage:

Further research potential: Dendrochronology  Tool mark analysis  Use wear analysis 

Woodworking technology

Conversion method: Sawn.

Tool marks:

Joints:

Fixings and fittings: Two bands of copper and one band of iron/copper, possibly exterior decoration.

Intentional marks:

Surface treatment:

Other:

Interpretation:

This artifact is a composite object composed of a ferrous knife blade and one, possibly two, fragments of wood. One fragment of wood encases one side of the knife, forming one half of a wooden sheath or scabbard. The scabbard has two bands of copper/copper staining and one band of iron/copper staining on the outside, either decoration or a functional element that was used to hold the scabbard together. Oxidizing iron from the knife has permeated the scabbard, making it very difficult to identify the wood species.

The other piece of wood is redwood. Although it is now unattached to the rest of the object, it was at some point attached at an offset angle to the top of the scabbard, suggesting that it was not part of the original object but instead adhered to it during deposition.

**Oxford Tree-Ring Laboratory Wood Recording Sheet**

OTR sample no: 077

Site name: Market Street Chinatown Archaeological Project

Catalog #: 86-36/13-58

Feature type: Wooden structure

Artifact type: Chopstick

Species ID: Redwood

Condition (completeness, wear, damage, charring):  
Worn and broken in two but complete. No charring.**Dimensions (mm)**

Length: 268.01

Width: 6.07

Thickness: 6.19

Diameter:

Weight (g): 7

Natural features/insect damage:

Further research potential: Dendrochronology  Tool mark analysis  Use wear analysis **Woodworking technology**

Conversion method: Sawn.

Tool marks:

Joints:

Fixings and fittings:

Intentional marks:

Surface treatment: Shaped.

Other:

**Interpretation:**

A thin piece of worked redwood with squared sides, tapering down to one end. Although it is broken in two, the artifact is complete. It appears to be a redwood chopstick. It measures 10 5/8 inches long by 1/4" wide by 1/4" thick.

**Oxford Tree-Ring Laboratory Wood Recording Sheet**

OTR sample no: 078

Site name: Market Street Chinatown Archaeological Project

Catalog #: 86-36/13-119

Feature type: Wooden structure

Artifact type: Composite wood/metal object (iron knife and wooden handle)

Species ID: Unidentified

Condition (completeness, wear, damage, charring):

Worn. The wooden handle is complete but split in half. Most of the knife has rusted away and only the tang, the bolster, and the base of the blade remain. No charring.

Dimensions (mm)

Length: 80.32 (+ bolster 20.52)

Width:

Thickness:

Diameter: 33.61

Weight (g): 55

Natural features/insect damage:

Further research potential: Dendrochronology  Tool mark analysis  Use wear analysis **Woodworking technology**

Conversion method: Sawn, then turned on a lathe.

Tool marks:

Joints:

Fixings and fittings:

Intentional marks:

Surface treatment: Shaped.

Other:

**Interpretation:**

This artifact is the wooden handle of an iron tool. The flat blade and the small cut-out in the bolster where the base of the blade is inset identify the tool as a knife rather than a screwdriver, trowel, etc. The handle is split in half, revealing the highly corroded tang. Inside the split is a bright yellow substance, possibly corrosion/deposition debris.

An unrelated composite metal object has been included in this artifact number; it appears to be the fused-together fragments of an iron bucket or bowl, a brass or steel wire, and an iron sheet.

**Oxford Tree-Ring Laboratory Wood Recording Sheet**

OTR sample no: 079

Site name: Market Street Chinatown Archaeological Project

Catalog #: 86-36/13-126

Feature type: Wooden structure

Artifact type: Non-structural timber/natural wood specimen

Species ID: Unidentified

Condition (completeness, wear, damage, charring):  
Worn and incomplete. Very deteriorated wood structure that retains no original surfaces. No charring.

**Dimensions (mm)**

Length: 32.20

Width:

Thickness: 2.93

Diameter: 28.61

Weight (g): 4

Natural features/insect damage:

Further research potential: Dendrochronology  Tool mark analysis  Use wear analysis **Woodworking technology**

Conversion method: None identified.

Tool marks:

Joints:

Fixings and fittings:

Intentional marks:

Surface treatment:

Other:

**Interpretation:**

Two fragments of very deteriorated wood. It is unclear if the fragments are remnants of a shaped wood object or if they are degraded natural wood specimens. The wood has been hollowed out and is circular in cross-section.

**Oxford Tree-Ring Laboratory Wood Recording Sheet**

OTR sample no: 080

Site name: Market Street Chinatown Archaeological Project

Catalog #: 86-36/13-145

Feature type: Wooden structure

Artifact type: Cork stoppers, timber offcuts

Species ID: Various (see below)

Condition (completeness, wear, damage, charring):  
Various artifacts are included in this artifact number (see below).

Dimensions (mm) (See below)

Length:

Width:

Thickness:

Diameter:

Weight (g):

Natural features/insect damage:

Further research potential: Dendrochronology  Tool mark analysis  Use wear analysis **Woodworking technology**

Conversion method: Sawn.

Tool marks:

Joints:

Fixings and fittings:

Intentional marks:

Surface treatment:

Other:

**Interpretation**

6 cork stoppers: 2 are worn but relatively complete bottle stoppers (one is 22.40 mm long x 17.51 mm in diameter and the other, which is partially charred or rotted, is 19.30 mm long and 14.06 mm in diameter). The other 4 are worn and incomplete but retain a measurable diameter (40.41 mm, 36.04 mm, 25.80 mm, and 23.63 mm). All weigh less than 1 g each.

5 cork fragments: No original surfaces remain, but they are probably fragments of bottle stoppers. All weigh less than 1 g each.

1 unidentified fragment of wood: Very deteriorated, possibly a cork stopper that has been crushed; 28.40 mm long, 14.08 mm wide, 9.22 mm thick, weighs less than 1 g. Possibly charred.

3 redwood offcuts: Worn and incomplete, all possibly originally circular. 1) 8.96 mm long, 17.18 mm in diameter; 2) 6.48 mm long, 21.48 mm in diameter; 3) 18.63 mm long, 7.02 mm wide (original diameter is missing). All weigh less than 1 g each.

5 Douglas fir offcuts: Worn and incomplete. 1) 4.76 mm l x 20.42 w x 7.82 t; 2) 5.47 mm l x 15.02 w x 7.93 t; 3) 4.19 mm l x 28.42 w x 7.38 t; 4) 5.93 mm l x 19.87 w x 6.21 t; 5) 3.87 mm l x 33.49 w x 7.29 t. All weigh less than 1 g each.

Non-wood artifacts included in this catalog number include fragments of a ceramic ring and a bead that is possibly made of resin.

**Oxford Tree-Ring Laboratory Wood Recording Sheet**

OTR sample no: 081

Site name: Market Street Chinatown Archaeological Project

Catalog #: 86-36/13-363

Feature type: Wooden structure

Artifact type: Tobacco pipe bowl

Species ID: Diospyros spp.

Condition (completeness, wear, damage, charring):  
Worn and cracked. Complete bowl, missing stem. Possible charring and residue inside bowl from smoking tobacco.

**Dimensions (mm)**

Length: 28.95

Width:

Thickness:

Diameter: 31.27

Weight (g): 14

Natural features/insect damage:

Further research potential: Dendrochronology  Tool mark analysis  Use wear analysis **Woodworking technology**

Conversion method: Sawn, shaped, and then drilled.

Tool marks:

Joints: Hole drilled in side is for insertion of stem.

Fixings and fittings:

Intentional marks:

Surface treatment:

Other:

**Interpretation:**

Ebony tobacco pipe bowl featuring a cylindrical shape and a flattened bottom. The bowl has a round hole drilled in its side for the insertion of the stem, which was a separate piece (possibly of wood) that is now missing. The conical hole at the top where the tobacco was placed connects to the hole for the stem, allowing smoke to pass through to the stem.

**Oxford Tree-Ring Laboratory Wood Recording Sheet**

OTR sample no: 082

Site name: Market Street Chinatown Archaeological Project

Catalog #: 86-36/13-364

Feature type: Wood structure

Artifact type: Barrel staves

Species ID: Quercus alba

Condition (completeness, wear, damage, charring):  
Worn but primarily complete. Almost all of the staves retain portions of all original surfaces. No charring.

Dimensions (mm) (per stave)

Length: 257

Width: 57.03

Thickness: 8.66

Diameter:

Weight (g): 89

Natural features/insect damage:

Further research potential: Dendrochronology  Tool mark analysis  Use wear analysis **Woodworking technology**

Conversion method: Split into blanks, then shaped with a draw plane.

Tool marks:

Joints: Each stave has a croze on the top and bottom and butt joints on either side.

Fixings and fittings: Evidence of iron hoops that have now decayed.

Intentional marks:

Surface treatment:

Other:

**Interpretation:**

10 white oak barrel staves. The rectangular staves are all roughly the same size and are slightly curved to produce the bulge in the barrel that allows it to be rolled easily. All show evidence of a croze on both the top and the bottom; this is the groove that allows the flat heads or ends of the barrel to slot into the staves. The staves would have been held in place with encircling metal hoops; the staves all show evidence of ferrous corrosion—the remains of the iron hoops—on their exterior. Each stave is approximately 10 inches long by 2 1/4 inches wide by 1/3 inch thick. Together, they comprise a small barrel, probably designed to hold a gallon of liquid.

**Oxford Tree-Ring Laboratory Wood Recording Sheet**

OTR sample no: 083

Site name: Market Street Chinatown Archaeological Project

Catalog #: 86-36/17-78

Feature type: Wood-lined trash pit/possible wooden structure

Artifact type: Cork stopper fragments

Species ID: *Quercus suber*/*Quercus variabilis*

Condition (completeness, wear, damage, charring):  
Worn and incomplete; only 1 fragment retains enough of its original surfaces to allow for an estimation of its original diameter.

Dimensions (mm) (see below)  
Length:  
Width:  
Thickness:  
Diameter:  
Weight (g):

Natural features/insect damage:

Further research potential: Dendrochronology  Tool mark analysis  Use wear analysis **Woodworking technology**

Conversion method: Sawn.

Tool marks:

Joints:

Fixings and fittings:

Intentional marks:

Surface treatment:

Other:

**Interpretation:**

Four fragments of cork, presumably from cork stoppers:

- 1) 13.29 mm long, 21.92 mm diameter, ferrous encrustation on bottom. 2 g weight.
- 2) 17.66 mm long, 14.71 mm diameter (possibly close to the original diameter). <1 g weight.
- 3) 10.64 mm long, 22.20 mm diameter. <1 g weight.
- 4) 11.91 mm long, 8.53 mm diameter. <1 g weight.

**Oxford Tree-Ring Laboratory Wood Recording Sheet**

OTR sample no: 084

Site name: Market Street Chinatown Archaeological Project

Catalog #: 86-36/18-375

Feature type: Wood-lined pit

Artifact type: Tool handle

Species ID: Unidentified hardwood

Condition (completeness, wear, damage, charring):

Worn. The handle is complete but the blade of the tool only survives as a large ferrous encrustation at the end of the handle; the ferrous material encrusts the body of the handle to a much smaller extent. No charring.

Dimensions (mm)

Length: 128.62 (inc. encrustation)

Width:

Thickness:

Diameter: 32.09

Weight (g): 75

Natural features/insect damage:

Further research potential: Dendrochronology  Tool mark analysis  Use wear analysis **Woodworking technology**

Conversion method: Sawn, then turned on a lathe.

Tool marks:

Joints:

Fixings and fittings:

Intentional marks:

Surface treatment:

Other:

**Interpretation:**

A tool handle made of an unidentified hardwood. The handle is intact but the ferrous tool blade has corroded away. The handle itself is approximately 4 inches long, with another inch of ferrous encrustation attached at the top of the handle. The blade appears to have been at least half an inch thick, much thicker than either OTR 076 or OTR 078, suggesting that it belonged to a chisel or another similarly substantial tool.

**Oxford Tree-Ring Laboratory Wood Recording Sheet**

OTR sample no: 085

Site name: Market Street Chinatown Archaeological Project

Catalog #: 86-36/26-412

Feature type: Unlined trash pit

Artifact type: Non-structural worked timber

Species ID: Unidentified softwood

Condition (completeness, wear, damage, charring):

Worn and incomplete. Retains portions of both faces and both edges but no ends.

No charring.

Dimensions (mm)

Length: 129.44

Width: 24.86

Thickness: 20.34

Diameter:

Weight (g): 17

Natural features/insect damage:

Further research potential: Dendrochronology  Tool mark analysis  Use wear analysis 

Woodworking technology

Conversion method: Sawn.

Tool marks:

Joints:

Fixings and fittings: One ferrous nail.

Intentional marks:

Surface treatment: Possible paint residue (black).

Other:

Interpretation:

A worked wood timber, rectangular in cross-section and tapering toward one end. It is made from an unidentified softwood, is pierced by one ferrous nail, and has a small amount of what appears to be black paint residue on one face and one edge. It retains portions of both edges and both faces, making it possible to identify the approximate original width (1 inch) and thickness (3/4 inch) of the timber at the larger end.