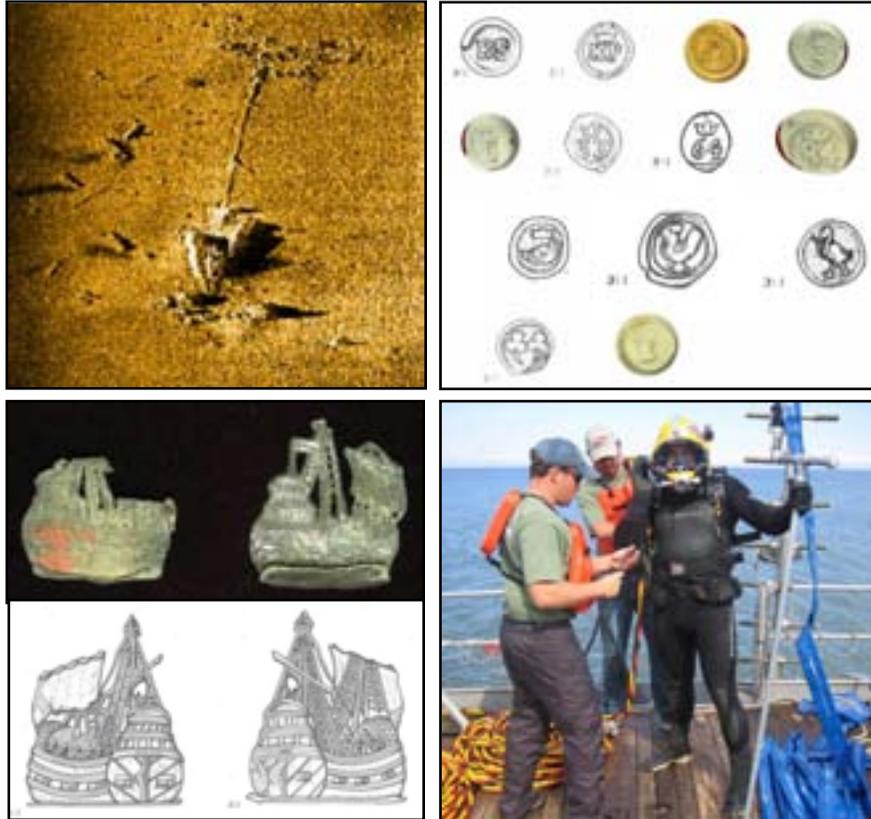


UNDERWATER ARCHAEOLOGICAL INVESTIGATION OF THE ROOSEVELT INLET SHIPWRECK (7S-D-91A)

VOLUME 2: APPENDIX A-L



State Contract No. 26-200-03
Federal Aid Project No. ETEA-2006 (10)

Prepared for:
Delaware Department of State
Division of Historical and Cultural Affairs
21 The Green
Dover, Delaware 19901
And for the
Federal Highway Administration and
Delaware Department of Transportation

By:



APRIL 2010
www.searchinc.com

Appendix A

National Register of Historic Places Nomination Form

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
REGISTRATION FORM

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in *How to Complete the National Register of Historic Places Registration Form* (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If any item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

=====

1. Name of Property

=====

historic name _____

other names/site number

Roosevelt Inlet Shipwreck (7S-D-91A)

=====

2. Location

=====

street & number Lower Delaware Bay

city or town Lewes not for publication X vicinity X

state Delaware code DE county Sussex

code 005
zip code n/a

=====

3. State/Federal Agency Certification

=====

As the designated authority under the National Historic Preservation Act, as amended, I hereby certify that this _____ nomination _____ request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property _____ meets _____ does not meet the National Register Criteria. I recommend that this property be considered significant _____ nationally _____ statewide _____ locally. (____See continuation sheet for additional comments.)

Signature of certifying official Date

State or Federal Agency or Tribal government

In my opinion, the property _____ meets _____ does not meet the National Register criteria. (_____ See continuation sheet for additional comments.)

Signature of commenting official/Title

Date

State or Federal agency and bureau

=====
4. National Park Service Certification
=====

I, hereby certify that this property is:

_____ entered in the National Register _____
_____ See continuation sheet.

_____ determined eligible for the _____
National Register
_____ See continuation sheet.

_____ determined not eligible for the _____
National Register

_____ removed from the National Register _____

_____ other (explain): _____

Signature of Keeper

Date
of Action

=====
5. Classification
=====

Ownership of Property (Check as many boxes as apply)

- _____ private
- _____ public-local
- X public-State
- _____ public-Federal

Category of Property (Check only one box)

- _____ building(s)
- _____ district
- X site
- _____ structure
- _____ object

Number of Resources within Property

Contributing

Noncontributing

_____	_____ buildings
<u> 1 </u>	_____ sites
_____	_____ structures
_____	_____ objects
_____	_____ Total

Number of contributing resources previously listed in the National Register n/a

Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.)

N/A _____

=====

6. Function or Use

=====

Historic Functions (Enter categories from instructions)

Cat: Transportation - Water related (ship) Sub: _____

Current Functions (Enter categories from instructions)

Cat: Vacant - not in use Sub: _____

=====

7. Description

=====

Architectural Classification (Enter categories from instructions)

18 th Century ship rigged commercial vessel

Materials (Enter categories from instructions)

foundation wood

roof n/a

walls wood

other wood

Narrative Description (Describe the historic and current condition of the property on one or more continuation sheets.)

See Attached Sheets for Section 7.

=====

8. Statement of Significance

=====

Applicable National Register Criteria (Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing)

- A Property is associated with events that have made a significant contribution to the broad patterns of our history.
- B Property is associated with the lives of persons significant in our past.
- C Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.
- D Property has yielded, or is likely to yield information important in prehistory or history.

Criteria Considerations (Mark "X" in all the boxes that apply.) N/A

- A owned by a religious institution or used for religious purposes.
- B removed from its original location.
- C a birthplace or a grave.
- D a cemetery.
- E a reconstructed building, object, or structure.
- F a commemorative property.
- G less than 50 years of age or achieved significance within the past 50 years.

Areas of Significance (Enter categories from instructions)

- Commerce
- Maritime History
- Transportation
- Archaeology: Historic Non-aboriginal
- _____
- _____
- _____

Period of Significance 1762-1775

Significant Dates n/a

Significant Person (Complete if Criterion B is marked above)

Cultural Affiliation British Colonial Period in the Middle Atlantic Colonies (1664-1776)

Architect/Builder unknown

Narrative Statement of Significance (Explain the significance of the property on one or more continuation sheets.)

=====

9. Major Bibliographical References

=====

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

See attached sheet for Section 9

- Previous documentation on file (NPS)
- preliminary determination of individual listing (36 CFR 67) has been requested.
 - previously listed in the National Register
 - previously determined eligible by the National Register

___ designated a National Historic Landmark
___ recorded by Historic American Buildings Survey # _____
___ recorded by Historic American Engineering Record # _____

Primary Location of Additional Data
___ State Historic Preservation Office
x Other State agency
___ Federal agency
___ Local government
___ University
___ Other

Name of repository:
Delaware Division of Historical and Cultural Affairs

=====

10. Geographical Data

=====

Acreage of Property 2.89

UTM References (Place additional UTM references on a continuation sheet)

See attached location map for coordinates

	Zone	Easting	Northing	Zone	Easting	Northing
1	___	_____	_____	3	___	_____
2	___	_____	_____	4	___	_____

See Figure 1 - location map

Verbal Boundary Description (Describe the boundaries of the property on a continuation sheet.) see attached

Boundary Justification (Explain why the boundaries were selected on a continuation sheet.) see attached

=====

11. Form Prepared By

=====

name/title Daniel R. Griffith; Director, Lewes Maritime Archaeology Project

organization Delaware Department of State date November 29, 2005

street & number c/o Zwaanendael Museum, 102 Kings Hwy. telephone 302-645-6654

city or town Lewes state DE zip code 19958

=====

Additional Documentation

=====

Submit the following items with the completed form:

Continuation Sheets

Maps

A USGS map (7.5 or 15 minute series) indicating the property's location.
A sketch map for historic districts and properties having large acreage
or numerous resources.

Photographs

Representative black and white photographs of the property.

Additional items (Check with the SHPO or FPO for any additional items)

=====
Property Owner
=====

(Complete this item at the request of the SHPO or FPO.)

name State of Delaware - Department of State

street & number Townsend Building telephone 302-645-6654

city or town Dover state DE zip code 19901

=====
Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.). A federal agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number.

Estimated Burden Statement: Public reporting burden for this form is estimated to average 36 hours per response including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to Keeper, National Register of Historic Places, 1849 "C" Street NW, Washington, DC 20240.

United States Department of the Interior
National Park Service
NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEETSection 7 Page 1**Description:****Summary:**

The Roosevelt Inlet Shipwreck (7S-D-91) is the site of a wooden hulled, commercial sailing ship lost during the period from 1762-1775. The wreck site is in the lower Delaware Bay [REDACTED] [REDACTED] [REDACTED] offshore of Lewes Beach, Sussex County, Delaware in twelve to fifteen feet of water embedded in the submerged lands belonging to the State of Delaware (Figure 1). The name of the vessel is unknown at this time and the projected date range of its loss is based on analysis of artifacts from the shipwreck. The site includes a 100 feet (North/South) by 60 feet (East/West) primary wreck mound and debris field with a secondary debris scatter extending approximately 100 feet to the east, west and north. Beach replenishment dredging in the fall of 2004 truncated the south side of the wreck site. Approximately twenty percent of the site was impacted by the dredging. It is unclear at this time whether the dredging impacted the shipwreck itself or was confined to the debris field. While the ships keel was located, little additional ship architecture remains with the possible exception at the north end of the site. A very large sample of the ships commercial cargo remains intact at the site. A sizable sample of the cargo and ship related artifacts were pumped onto Lewes Beach and recovered by archaeologists from the Delaware Department of State and by avocational archaeologists and local collectors who donated artifacts to the state. A combined total of nearly 23,000 artifacts from the shipwreck are now in the state collection. The shipwreck site retains historic integrity beyond the dredge pit.

Setting:

The site of the Roosevelt Inlet shipwreck lies in 12 to 15 feet of water [REDACTED] offshore of Lewes Beach. Geomorphological studies of the Cape Henlopen and Lewes Harbor area indicate that the offshore project area has been subjected to accretion of sediment over the last 150 years. The bottom sediments are predominantly coarse sand and small gravel, mixed with shell and some silt. Underwater archaeologists confirmed that the majority of the cultural material at the site is located one to two feet under the bottom surface. This approximately two foot thick level of sand, small gravel, silt and artifacts rests unconformably on a hard layer of tightly packed sand and gravel. The sand and gravel layer likely represents the historic bottom of the Delaware Bay in this location. Scattered across the wreck site are iron oxide concretions that are both lying flat in large beds as well as a number of concreted projections above the bottom near the apparent aft area of the shipwreck to the north end of the site.

Description:

The primary debris field that marks the wreck site consists of a series of artifact concentrations on the bottom and mounds or piles of iron oxide concretions covered by marine growth. The concretions in some areas extend one to three feet off the bottom and contain numerous artifacts embedded in the matrix of the concretions. The artifacts visible on the bottom, like the beach assemblage, include an assortment of red and yellow bricks or pavers, large and small fragments of salt-glazed stoneware bottles and jars, glass bottle bases and necks, stoneware bottle handles, plate fragments and scattered smaller artifacts. No visible signs of the hull structure are apparent on the bottom. The majority of the shipwreck architecture and artifacts are embedded in the bottom.

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Very little of the hull has been located, though the ships keel has been identified during underwater archaeological investigations in the spring of 2005. The

surviving length of the keel is 71 feet and it has been estimated that five to eight feet of the keel are missing at either end. The sided dimension across the top of the keel at the offshore (North) end is 27 inches, though the timber has deteriorated. Several large concretions project above the bottom at the north end of the keel where four planks attached to the keel are located. This area appears to be toward the stern of the vessel. The more intact section of the hull's lowest timbers have survived under the concretions, which cover nearly 15 feet of the keel at its north end. The bow end of the ship (south) may have been truncated by the dredge pit. The slope of the dredge pit exhibits some down sloping of sediment that may be causing minor erosion of the site and its southern end. No anchors, cannon or rigging have been located and only a few, disarticulated ship fasteners have been recovered to date.

The shipwreck site appears to exhibit horizontal and vertical integrity. Several ceramic types originating from the bow area of the site and pumped onto Lewes Beach were not found in the mid-ships or aft areas, while other artifact types (e. g. unused millstones and molded metal ingots of antimony) were located in the mid-ships area. In terms of site stratigraphy, test excavations recorded a highly organic level with good organic preservation near and beneath several large concretions and under packed bottom sediments. There is neither record of nor on-site indication of any previous archaeological investigations or private looting of the off-shore site. Overall, the site appears to represent the remains of a ship class, commercial vessel dating from the third quarter of the 18th Century.

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The vessel may have been somewhere between 225-275 tons, now reduced to a maximum deposit of 2 to 3 feet thick with a few large concretions overlying the natural bottom sediments. Based on underwater archaeological surveys in the spring of 2005, an estimated eighty percent of the shipwreck site remains intact offshore.

Site Investigations and Analysis:

In the fall of 2004, a beach replenishment dredging project for Lewes Beach co-sponsored by the Delaware Department of Natural Resources and Environmental Control and the U.S. Army Corps of Engineers, Philadelphia District,

inadvertently struck a portion of the Roosevelt Inlet shipwreck site. The presence of the shipwreck site was not known at the time. The dredge operations pumped sand and artifacts onto Lewes Beach. The presence of the artifacts was reported to archaeologists with the Delaware Department of State in November 2004 by a local citizen. The Department soon thereafter established the Lewes Maritime Archaeology Project to investigate the apparent shipwreck. From December of 2004 through mid-April of 2005, archaeologists from the Department of State assisted by members of the Archaeological Society of Delaware and the Delaware Marine Archaeological Society recovered nearly 10,000 fragmented artifacts from the beach through excavations of artifacts concentrations and surface collection. In addition, since mid-April 2005, an additional 13,000 artifacts have been donated to the project by private citizens who found objects while walking the beach. Some artifacts continue to erode from the beach deposits or appear on the beach during times of high wave and tide activity. Department near shore investigations in early April, 2005 identified a narrow lag deposit of shell, gravel and artifacts within 60 feet of the low water line and extending approximately 1000 feet in length along Lewes

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Beach. This lag deposit likely resulted from post - beach replenishment erosion during fall and winter storms of the artifact bearing sands pumped onto the beach. It is likely that artifacts, in diminishing frequency, will continue to be exposed or wash up on the beach during storm events. The artifacts now appearing on the beach are mostly from the lag deposit and not being directly transported from the wreck site [REDACTED] [REDACTED] offshore.

Concurrently with the investigations on Lewes Beach, the Department of State worked closely with the U.S. Army Corps of Engineers to devise a scope of work for a reconnaissance level and evaluation level underwater archaeological surveys to locate and evaluate the shipwreck site. The Corps entered into a contract with an underwater archaeology consulting firm. The Phase I survey was conducted in February and early March, 2005 utilizing bathymetric, magnetic, acoustic and seismic remote sensing equipment as well as ground truthing by divers. Remote sensing data revealed a cluster of hard objects with relief off the bottom. Divers found iron oxide concretions and

concentrations of artifacts near the edge of the dredge pit. Artifacts retrieved from the site were confirmed to be the same type and time period as those found on the beach. The Phase I survey confirmed the source of the artifacts on the beach and the location of the shipwreck.

Phase II fieldwork was designed to investigate the integrity, qualities, structural components, conditions, associations, context and significance of the Roosevelt Inlet shipwreck site. Fieldwork commenced in mid-April, 2005 with the establishment of base lines for mapping and development of a pre-disturbance site plan followed by test excavations and hydraulic probes to locate architectural elements of the ship. During the test excavations, samples of artifacts were recovered and provenience recorded. Fieldwork was completed on May 1, 2005 with a post-investigation side-scan sonar survey of the wreck site.

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All artifacts and copies of all field records were turned over to the State of Delaware, Lewes Maritime Archaeology Project. The State archaeologists processed, curated and analyzed the collection and provided artifact descriptions and inventories to the Corps' consultant for inclusion in the Phase I/II report.

Analysis of the artifacts from the beach and offshore indicate that the ship was carrying a wide range of commercial cargo. The cargo contained salt-glazed brown stoneware bottles, salt-glazed stoneware German mineral water bottles, stoneware wide-mouthed storage jars, round bottles, case bottles, tin-glazed earthenware, creamware, various forms of lead glazed earthenware, table glass, porcelain, window glass, glazed roofing tiles, red and yellow paver brick, several unused millstones, Dutch tobacco pipes, small stone mortars and pestles, a leather shoe, and such metal objects as sundials, shoe buckles, several gun parts, pewter utensils, and lead hull sheathing. Artifact analysis to date indicates a date range for the vessel from 1762-1775. The cargo appears to have originated from several countries including Great Britain, the Netherlands, Germany, South Africa and China.

United States Department of the Interior
National Park Service
NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEETSection 8 Page 1**Statement of Significance****Summary:**

The Roosevelt Inlet shipwreck (7S-D-91A) is significant at the national level under Criterion A in the areas of commerce, maritime history, transportation, and under Criterion D as the remaining part of the site that has been stabilized in the marine environment and will likely, through future archaeological investigations, provide additional information about merchant vessels and their cargo as it relates to trans-Atlantic maritime trade between northern Europe and the American colonies in the broader Atlantic World of the third quarter of the 18th Century.

During the period the vessel was lost in the Delaware Bay (1762-1775), Delaware was part of the colony of Pennsylvania and still a colony of Great Britain. In the *Management Plan for Delaware's Historical Archaeological Resources* the years from 1730 to 1770 are known as the period of Intensified Durable Occupation (DeCunzo and Catts 1990). By the middle of the eighteenth century, an influx of immigrants swelled the population of the Philadelphia region (DeCunzo 2004:94). The expanding economy tied most of the surrounding region to Philadelphia. Lewes Harbor was a frequent anchorage for vessels entering the Delaware Bay enroute to the port of Philadelphia. Lewes was also the home port of the Delaware River and Bay pilots and many vessels stopped in the lower Delaware Bay to pick up pilots for the voyage to Philadelphia. Delaware Valley maritime commerce increased throughout the 18th Century. By 1772, Philadelphia shipping activity exceeded both the New York and Boston ports. In the immediate pre-Revolutionary War period, Philadelphia was indisputably the most active port in North America (Cox 2005:12).

By the early 1770's, one third of the shipping of the British Empire was engaged in colonial trade (Fairburn, 1945:314). The British had a strong economic hold on its American colonies and Philadelphia became a center of wealth for the region.

It is likely that the Roosevelt Inlet shipwreck was a British merchant ship in-bound from Great Britain to Philadelphia. "British mercantilists talked of the British Empire as the best of all possible empires because its imperialism was primarily commercial, and while no part of the empire was intentionally exploited without cause and compensation, yet the good of the whole was the guiding principle of the mother countries colonial policy, with the contention that in the end all units of the empire brought into balance by the economic conditions would benefit" (Fairburn 1945:314). These principles were enforced by the Principal Navigation Laws and Acts of Trade (1660, 1663, 1673, 1696 and later 1764, 1765 1766), which required that all goods, both export and import, had to be carried on English or colonial built ships manned and commanded by Englishman (Fairburn 1945:161). Upon the ascension of George III to the throne in 1760, he demanded that the American colonies be made, by force, to conform to all English - made laws with respect to trade and taxes (Fairburn 1945:165). "After the general peace of 1764, England became determined to enforce its Navigation Acts and protect all British ships in their privileged exclusive trade even 'if it takes the entire British Navy to do it'" (Fairburn 1945:309). The British escalated their enforcement of the trade laws by placing British naval vessels in key colonial harbors (Schmidt and Mrozowski 1983:157). The effect of this policy was to encourage a less open form of smuggling and other forms of colonial commerce designed to by-pass the Navigation and Trade Acts.

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Still, Britain, aside from the threat of force, held one real economic advantage in trade relations with the colonies. Its manufactures were better, cheaper and more available than those of other countries; hence it was to the

interest of the colonies to buy from England, even though this resulted in a trade balance unfavorable to the colonies" (Fairburn 1945:164). Politically and economically, it appears likely that the Roosevelt Inlet shipwreck was a British commercial vessel. The shipwreck provides a unique opportunity to study the economic relationships between the British Empire and its American colonies in the years immediately preceding the American Revolution.

Archaeological investigations offshore in the spring of 2005 also suggest the Roosevelt Inlet shipwreck was a commercial vessel likely built in Europe. While only a small portion of the hull remains intact, the surviving length of the keel at 71 feet suggests a vessel estimated to 85-90 feet in length on deck. Using the standard 3:1 length to beam ratio of a typical 18th Century merchant vessel, the beam of the vessel would have been approximately 26-28 feet and the depth of hold may be calculated at 9 to 11 feet. The vessel would have displaced approximately 225-275 tons according to standard 18th Century burden calculations. From the size of the limited hull timbers, it appears that the vessel was most likely a ship-rigged vessel. The size of the vessel also suggest it was most likely built in Europe, since records of shipbuilding in Colonial America indicate that Colonial yards rarely produced a ship that large (Cox 2005:78). Commercial ships the size of the Roosevelt Inlet shipwreck were commonly built in Great Britain. The Bristol yards of J.M. Hilhouse produced the *Exeter*, built in 1776. "Measurements inscribed on the plan give 95'0" in length on the lower deck, 26'0" in breadth moulded, 11'2" depth of hold under the beams, and 4'10" height between decks.

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The floors are very flat with hardly any deadrise and altogether it is a very full-bodied cross-section, obviously designed to carry the maximum amount of cargo at a good speed. The tonnage was 267. (MacGregor 1985:69). The description of the *Exeter* matches closely the interpreted dimensions and tonnage of the Roosevelt Inlet shipwreck thus providing a working model for this type of commercial vessel. Further investigations of the Roosevelt Inlet shipwreck provide a good opportunity to study a ship-class commercial vessel of the third quarter of the 18th Century.

The Phase I/II report of investigations includes a list of shipwrecks in the general study area for the mid-eighteenth century (Cox 2005:75). For the period in

question, seven merchant ships are listed as lost in the Delaware River below Philadelphia or in the Delaware Bay. Ruling out those vessels which were outbound from Philadelphia and those vessels listed as lost in specific locations removed from Lewes Harbor, four vessels stand out that may be the Roosevelt Inlet shipwreck; the *Vaughn*(1763), *Pitt Packet* (1763), *Commerce*(1771) and *Severn*(1774). The *Snow Vaughn* was likely too small for the size of the Roosevelt Inlet shipwreck. The loss of the *Pitt Packet* reported a total loss of life of the crew and passengers. It is unlikely that in the location of the Roosevelt Inlet shipwreck in 12 to 15 feet of water [REDACTED] feet from shore that a total loss of life would occur. This leaves the ships *Severn* and *Commerce* as the most likely candidates of the recorded losses for the Roosevelt Inlet shipwreck (Cox 2005:78). Further archival research and offshore investigations will focus on this aspect of the research.

The Roosevelt Inlet shipwreck was carrying a varied commercial cargo as well as shipboard materials relating to life on a commercial vessel of the period.

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The analysis of ships and their cargoes can contribute much to the understanding of the economic system of the society involved (Murphy 1983:84). The sample of cargo recovered to date from both Lewes Beach and the wreck site exhibits a wide range of non-perishable manufactured goods from at least five countries that were part of the broad economic sphere of the British Empire. The cargo contains stoneware, earthenware and pewter military miniatures from Germany, white clay tobacco pipes from the Netherlands, porcelain from China, wine bottles from South Africa and stoneware, earthenware, table glass and pewter artifacts likely from Britain. In addition, there is a range of cargo of unknown origin, like red and yellow paver brick, window glass, rifle parts, furniture fittings, tacks and brass straight pins. Additional classes of cargo may be identified by further offshore investigations. The culture that produced the Roosevelt Inlet ship is reflected not only in the design, construction and organization of the vessel, but also in the cargo, which was deemed socially important enough to warrant the expense and risk of transport by sea (Murphy 1983:84). The contents of the cargo provide an unparalleled

opportunity to examine in detail the economic exchange and trade networks of the period.

United States Department of the Interior
National Park Service
NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section 9 Page 1

Name of Property Roosevelt Inlet Shipwreck (7S-D-91A)

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National Park Service
NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section 9 Page 2

Schmidt, Peter R. and Stephen A. Mrozowski
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National Park Service
NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section 10 Page 1

Name of Property Roosevelt Inlet Shipwreck (7S-D-91A)

Verbal Boundary Description:

The site boundary of the Roosevelt Inlet Shipwreck is defined as a 200' radius circle centered on the coordinates [REDACTED] (Delaware State Plane Coordinates - NAD 83, feet), lying offshore and below the mean low water mark of the Delaware Bay and encompassing the primary debris field, keel, elevated concretions and the adjacent secondary debris scatter and a buffer.

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Section 10 Page 2

Boundary Justification:

The Roosevelt Inlet shipwreck National Register site boundary is the footprint of the shipwreck and immediately associated debris field plus a circle surrounding the shipwreck to include the secondary debris field associated with the site. The extent of the shipwreck, associated primary debris field and secondary debris scatter was determined by remote sensing surveys and test excavations by underwater archaeologists, conducted by Dolan Research, Inc., in the spring of 2005.



Location of Lewes Beach Wreck Site (with a 400' wide circle)

Delaware State Plane Coordinates (NAD83, feet):



Coordinates for a circle that extends 200' in all directions from the center of the site:

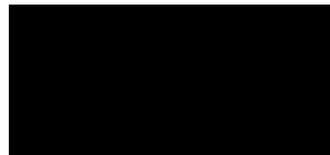
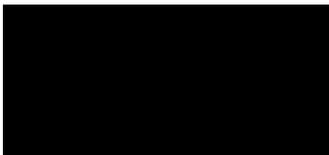
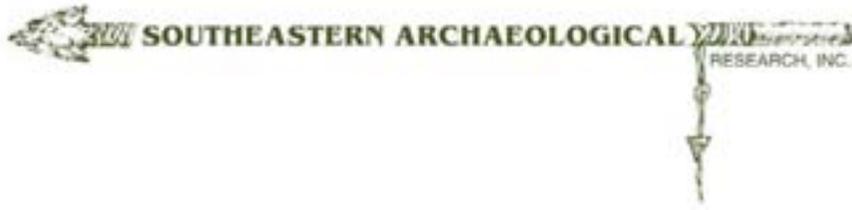


Figure 1

Appendix B

SEARCH Data Recovery Plan



DATA RECOVERY PLAN

UNDERWATER ARCHAEOLOGICAL INVESTIGATION
FOR THE ROOSEVELT INLET SHIPWRECK FOR THE
DELAWARE DEPARTMENT OF STATE

State Contract No. 26-200-03
Federal Aid Project No. ETEA – 2006 (10)

Prepared by
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315 NW 138TH TERRACE
JONESTVILLE, FLORIDA 32669

Prepared for
LEWES MARITIME ARCHAEOLOGY PROJECT
DELAWARE DEPARTMENT OF STATE
DIVISION OF HISTORICAL & CULTURAL AFFAIRS
21 THE GREEN
DOVER, DELAWARE 19901

SEPTEMBER 2006

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1.0 Introduction

This Archaeological Data Recovery Plan for the 2006 Roosevelt Inlet Shipwreck Project describes the archaeological objectives, methodology, and protocols that will guide the fieldwork.

Background

In the fall of 2004, a dredging contractor in Lewes Beach, Delaware, struck a portion of a suspected mid 18th century shipwreck resulting in thousands of artifacts being pumped onto the beach near Roosevelt Inlet. Concerned local citizens informed the Delaware Department of State, Division of Historical and Cultural Affairs about the artifacts and the Division undertook field investigations on the beach and coordinated an effort with the US Army Corps of Engineers (USACE), Philadelphia District to conduct an underwater archaeological survey of the dredge location offshore. In response to the project, the Department of State established the Lewes Maritime Archaeology Project to coordinate the fieldwork, conduct artifact conservation, analysis and research as well as informing the public about the project.

Two subsequent investigations were completed by archaeological contractors working for the USACE offshore in 2005 and confirmed the presence of a shipwreck as the source of artifacts. The archaeologists defined the limits of the site, located the keel of the vessel, and portions of the vessel's cargo. The Roosevelt Inlet Shipwreck (7S-D-91A) has been determined eligible for listing in the National Register of Historic Places.

The remains of the vessel and its contents are at risk from looting due to heightened public awareness of the site and its relative proximity to the shoreline. The site is also subject to erosion due to the beach nourishment dredge pit immediately adjacent to the site.

2.0 Research Goals and Objectives

Project Goal

This phase of the investigation will further define the elements of the shipwreck site and recover significant information about the nature of the ship and its contents and cargo.

Project Objective

A phased investigation will better define the nature of the wreck and provide more detailed information for the management of the shipwreck site and possible full recovery at some future date.

Field Objectives

- Maintain a high degree of context control for the recovery by re-locating and re-establishing the survey grid at the site.

- Define and record all surviving hull architecture and fittings in the investigation area in order to determine vessel form and type.
- Determine the distribution of cargo and shipboard functions by conducting systematic investigation of grid blocks near the apparent amidships area (N50/60 along E30/60) and the apparent stern area (N80/90 along E30/E60).
- Determine the nature of the wreck site and its contents immediately adjacent to the dredge pit in order to provide a cultural and natural context for the materials deposited on Lewes Beach.
- Further characterize site internal structure by completing investigation along the keel, or on either side of the keel, linking the apparent bow, amidships and stern areas as time and budget permit.

3.0 General Research Questions

What type of vessel foundered on the shoals off Lewes beach?

Why did the vessel sink?

When precisely did the vessel sink?

What was the name of the vessel?

What was the origin and destination of the vessel?

Were any lives lost during the sinking and are the remains of seamen and passengers still at the wreck site?

What was the precise nature of the cargo?

How was the vessel cargo hold loaded?

Was the vessel salvaged in part after the sinking by Lewes residents and others?

What do the vessel and its cargo tell us about political, social and economic life in Great Britain's Middle Atlantic colonies?

What does the vessel reveal about regional and coastal trade and its link with the wider Atlantic world?

4.0 Methods

To answer the research questions above and to meet the stated goals and objectives a sampling strategy has been developed based on previous research conducted on the site in 2005 (Dolan Research, Inc.).

Preliminary Remote Sensing Survey

The remote sensing survey will utilize state-of-the-art equipment to gather data prior to dive operations. This preliminary survey will utilize a Marine Magnetics Explorer Magnetometer and Klein 3000 Side Scan Sonar integrated with a Differential Global Positioning System (DGPS) for sub-meter accuracy. SEARCH will incorporate Hypack® Navigation software to ensure the accurate collection of all data.

A series of track lines will be plotted over the position of the wreck site prior to the remote sensing survey (Figure 1). Spaced at 50-foot intervals, each of the eleven track lines are 500 feet in length to ensure complete coverage of the wreck site. A separate sub-bottom profiler survey will be carried out by the University of Delaware.

Results of the remote sensing surveys will provide data critical to understanding the condition and extent of the wreck site as well as bottom conditions and sediments. The high resolution capabilities of the Klein 3000 side scan sonar will allow all team members to become familiar with the site and any potential hazards prior to dive operations. The side scan sonar records also will assist topside communications with guiding divers around the site during dive operations. Both the side scan sonar and magnetometer will provide a comparative example to the data recorded by Dolan Research in 2005. This will assist in identifying any site formation changes that may have occurred since the initial site investigation. The sub-bottom profiler will document sediment depths and types over the site to aid in the identification of site stabilization strategies for long term management.

Context Control

The first objective for the Roosevelt Inlet Shipwreck Project will be to maintain a high degree of context control for the recovery by relocating and re-establishing the survey grid at the wreck site. This survey grid, using the Delaware State Plane Coordinate System, was designated during the previous Phase I/II investigation of the wreck site in 2005. Attempts will be made to first relocate and re-establish the remnants of the original baseline anchor points placed onsite during the initial investigation.

If the original baseline cannot be relocated or has been compromised by environmental factors it will be re-established using the same methods used during the initial investigation. If the grid has to be re-established a buoy will be dropped on the Delaware State Plane coordinates [REDACTED] utilizing a Differential Global Positioning System with sub-meter accuracy. A baseline, 100 feet in length will be established from N0/E0 east to N0/E100. This polypropylene baseline, tagged at 10-foot increments will serve as the guide for establishing the primary baseline to be established from N0/E40 north to N110/E40. This

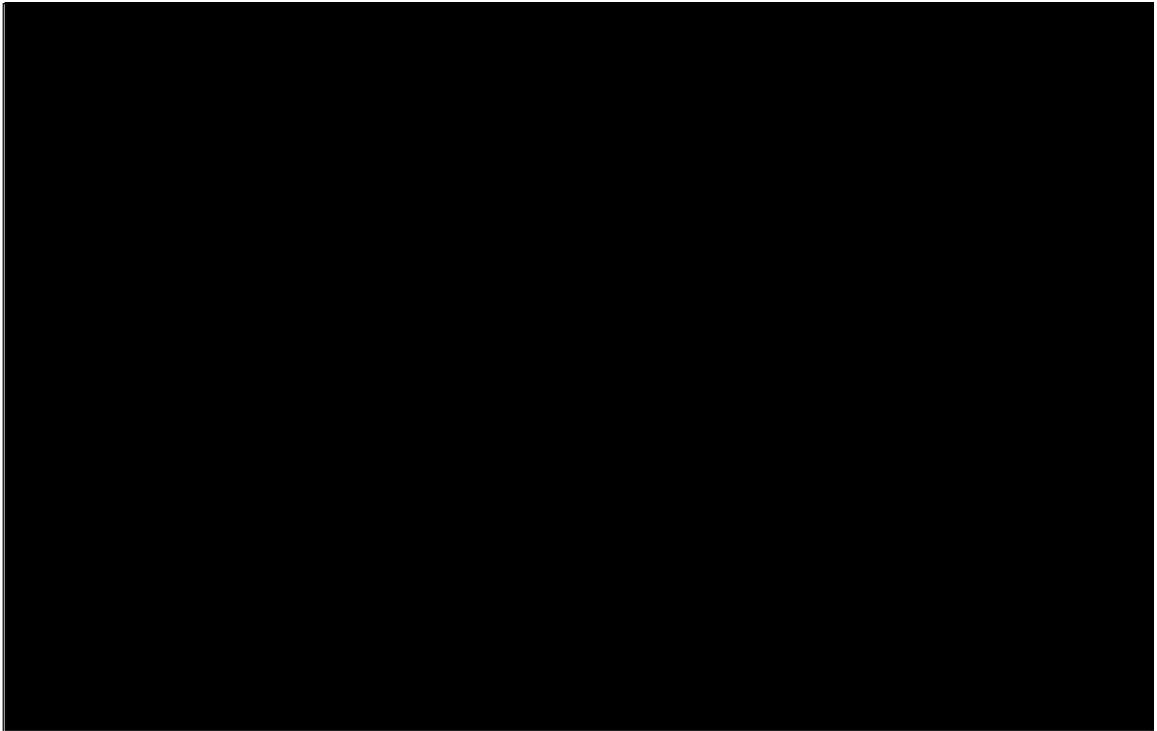


Figure 1. Proposed track lines, shown in green, for the preliminary remote sensing survey of the Roosevelt Inlet Shipwreck (NOAA Chart #12216 “Cape Henlopen to Indian River Inlet, Breakwater Harbor”).

110-foot baseline, oriented parallel to the exposed hull remains will serve as the main baseline for the current investigation.

All baselines and transect lines will be secured to the seafloor using large screw anchors. All grid lines will be tagged in 10-foot intervals to assist in establishing the grid blocks to be investigated during the current investigation. Line tags will consist of differing colors for orientation on the site. Once the primary baseline has been established along the N40 line, subsequent perpendicular temporary transect lines will be placed over the wreck site depending upon the area of the wreck to be investigated. This will reduce the amount of transect lines on the wreck site at any one time. These transects will then be used to position the rigid frame grid squares over the wreck site. Each rigid grid square will be 10 feet by 10 feet square and anchored in the seafloor with vertical anchor points driven into the seafloor.

In an effort to manage the acquisition of data and maintain context control of the artifact assemblage, the 10-foot by 10-foot grid square will be further divided into four, 5-foot square quadrants. This will allow divers to control the horizontal and vertical position of hull components and artifacts during the excavation. Smaller 1-foot drawing grids will also be utilized to record details in the grid squares.

To ensure accurate placement of transect lines and the placement of rigid frame grid squares, buoys will be drop placed with sub-meter accuracy at the end of each transect line prior to establishing the transect. This will allow divers more accuracy when anchoring transect lines in the seafloor. All grids will be established in relation to the on-site baseline.

Determination of Extant Hull Remains

To delineate the hull remains a hydro-probe survey will be carried over the entire wreck site. Hydro-probing, similar to shovel testing in terrestrial archaeology, allows divers to quickly and non-intrusively determine the extent of buried hull remains. Review of the previous investigation indicates hull structure approximately 2-3 feet beneath the sand bottom.

The most effective method to determine the amount of lower hull remains is to utilize a hydro-probe in a grid format, spaced at 10-foot intervals perpendicular to the established N40 baseline (Figure 2). Proceeding from the baseline and hydro-probing every 10 feet perpendicular to the baseline, the diver will be able to determine the extent of lower-hull remains by either negative or positive "hits". Once obtaining a negative return with the hydro-probe, the diver will then work back toward the baseline at 1-foot intervals until a positive return is obtained. The results of the hydro-probing will assist archaeologists with recommendations relative to future investigations and allow for a better delineation of the remaining hull structure associated with the Roosevelt Inlet Shipwreck.

Preliminary Surface Collection of Exposed Artifacts

In conjunction with the hydro-probing survey, a controlled surface collection/mapping will be carried out of any exposed artifacts. Divers will inspect the bottom in 2-foot arcs at each hydro-probe location. Artifact types and descriptions will be logged on the surface as well as positions prior to removal. This survey will document the site formation process of disturbances due to dredging and/or natural storm and sedimentation events. Tight context control will ensure artifact distributions across the site will be documented for analysis.

Recordation of Hull Architecture and Fittings

All surviving hull architecture and fittings will be recorded in the areas investigated to assist in determining the vessel form and type. It is anticipated that a systematic approach to the investigation of various grids will allow archaeologists to record the extant hull construction and fittings of the Roosevelt Inlet Shipwreck. Recordation of the vessel construction will include measured drawings/sketches and/or verbal measurements reported by Surface Supplied Air divers to the surface dive control station. The method of recordation will depend upon the underwater environment onsite during the investigation. Environmental elements affecting the method of hull recordation may include visibility, current/surge, or sediments within the water column.

All structural features and artifact concentrations will be fully recorded and shall be mapped and integrated into a composite site plan. Prior to field work, all grid locations will be determined in consultation with the State. The locations of recovery and mapping may shift

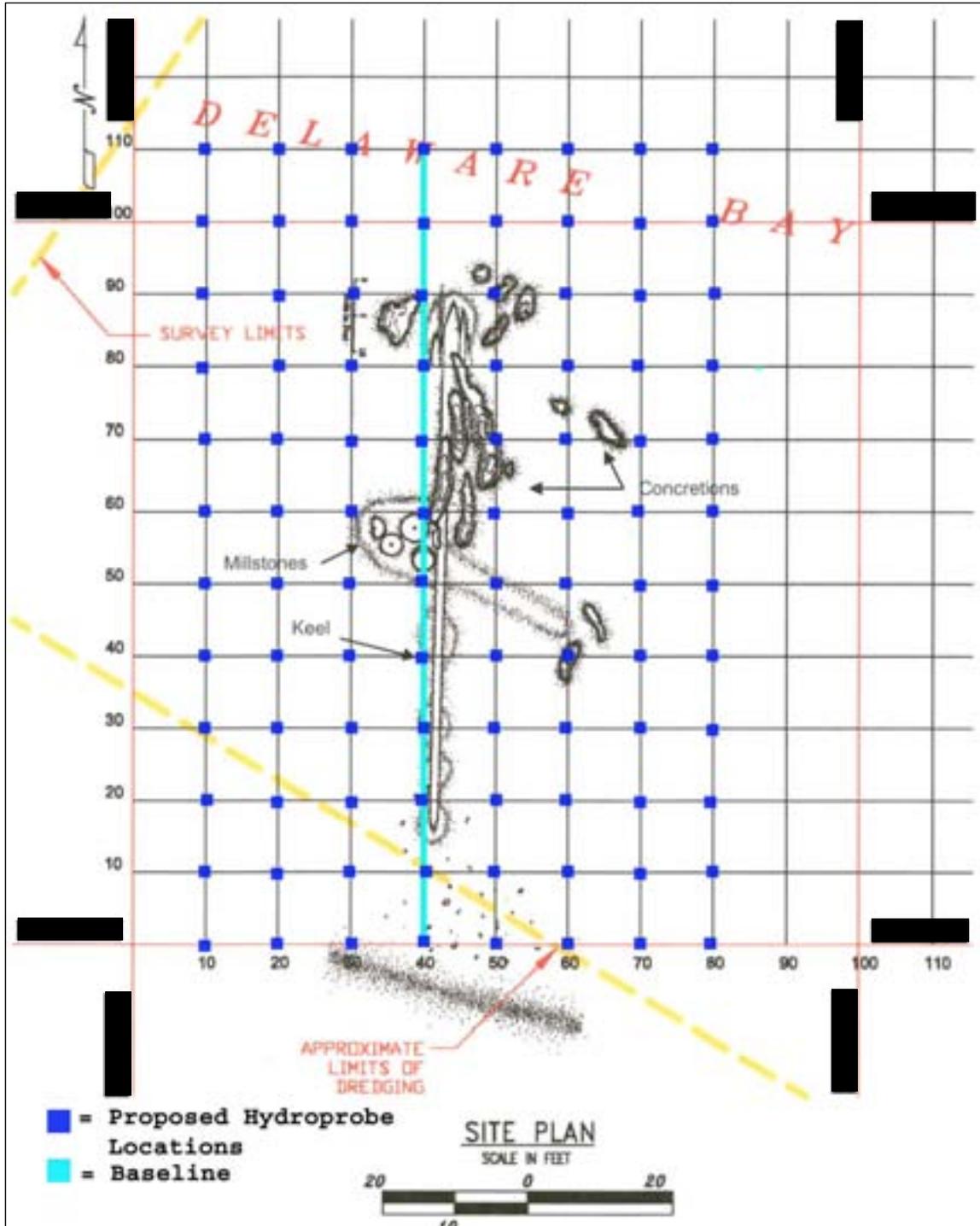


Figure 2. Hydro-probe survey, shown in dark blue, to delineate the remaining buried hull structure associated with the Roosevelt Inlet Shipwreck (Site plan modified from Dolan Research 2005:59).

during the process of fieldwork. Such data will be integrated and analyzed on a daily basis and communicated to the State regularly. Additionally, the site will be monitored for stabilization needs during the project. Such needs will be discussed with the State and a mutually agreed upon plans implemented by the contractor.

All identified elements of the site will be mapped in detail by archaeologists making measured drawings on the seabed. Horizontal control of location information will be maintained by using baselines and grid markers established within the overall site grid developed during the 2005 investigation. If needed, features across the site outside of the established excavation grids will be mapped using a combination of triangulation points off of baselines and grid marker stakes, and measured drawings using the Direct Survey Method (DSM). The triangulated measurements will be entered into DSM software each day to assess the accuracy of the measurements. The subsequent triangulated points will then be transferred from DSM to AutoCAD to anchor those locations within the overall site plan.

The composite site plan will be created by digitizing and geo-referencing all mapped elements into a master AutoCAD site plan. This method will allow multiple layers to be integrated into the site plan. Such layering capabilities can facilitate artifact spatial data for patterning analysis, provide views of the wreck site plan correlated with pre-excavation and post-excavation activity, and add the capabilities of integrating remote sensing imagery, scaled and oriented photographs of artifacts, or any number of additional elements to the site plan.

Investigation of Grid Blocks near the Apparent Stern Area and Amidships Area

To gather additional information regarding the distribution of cargo and shipboard functions a systematic excavation of pre-determined grid blocks will be carried out in the apparent amidships area, N50/60 along E30/60, and the apparent stern area, N80/90 along E30/60 (Figure 3). These grid blocks will be placed onsite during the initial re-establishment of the survey grid and will help maintain a high degree of context control during the investigation. The excavation will begin near the apparent stern area (Grid N80/E30); proceed across the keel (Grid N80/E40) east toward Grid N80/E50. A total of three 10-foot by 10-foot grids will be excavated at the apparent stern area. Once this area has been sufficiently recorded, investigations will proceed to the amidships area. Excavation of the amidships area will proceed in a similar fashion, excavating from N50/E30 east to N50/E50. A total of three 10-foot by 10-foot grids will be excavated at the amidships area.

Concretions, located within both of the aforementioned areas, will be assessed during the current investigation. Due to the high cost of conserving these concretions, recovery of any of these features will only be considered, in consultation with the State, if the concretion(s) may assist in identifying the vessel or contains unique artifacts not yet documented from the Roosevelt Inlet Shipwreck.

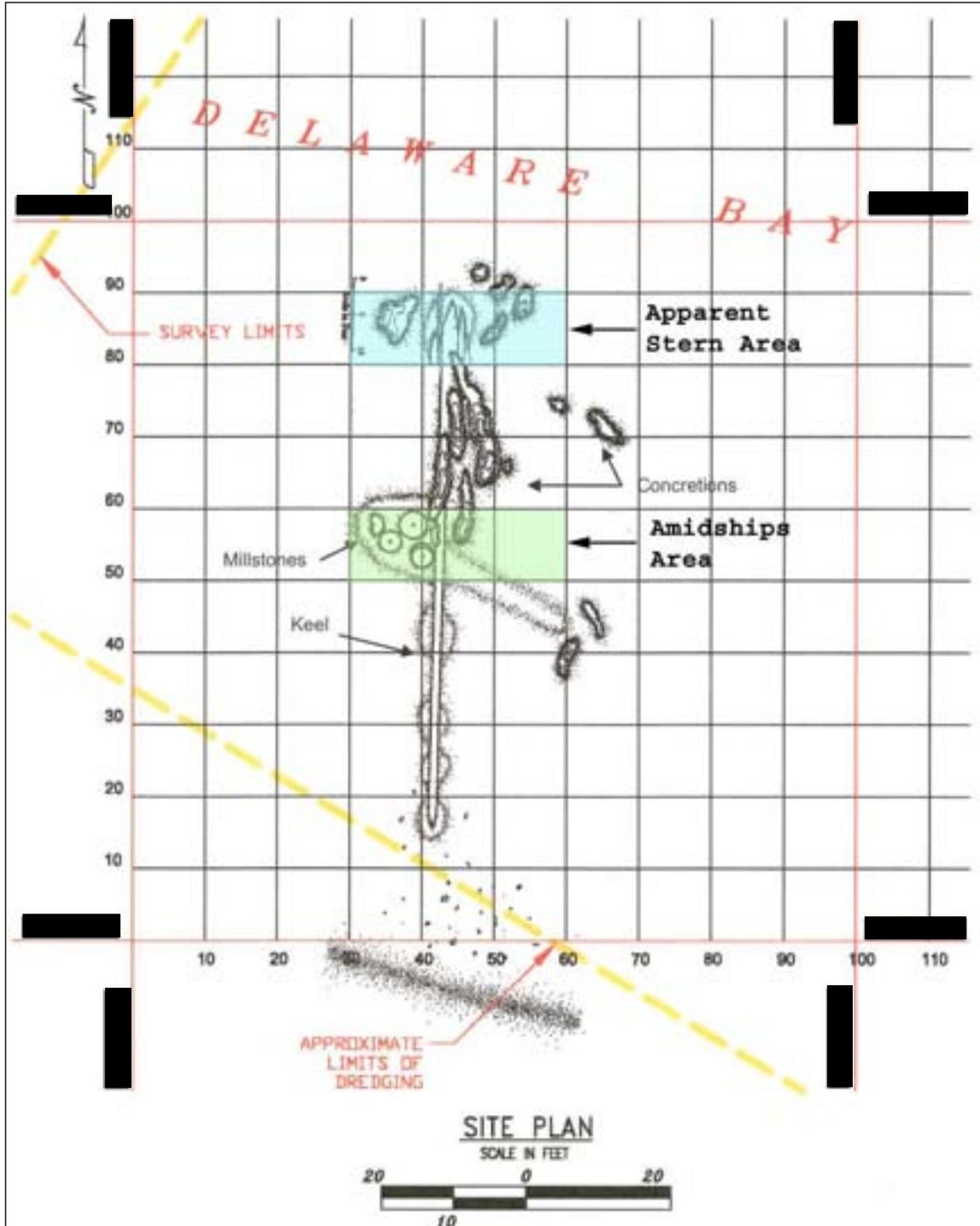


Figure 3. Grid blocks to be excavated at the apparent Stern Area, highlighted in blue, and the Amidships Area, highlighted in green (Site plan modified from Dolan Research 2005:59).

Investigation of the Grid Blocks near the Dredge Pit

Additional investigations will include a number of grid blocks adjacent to the dredge pit slope. These grid blocks extend from N10/N20 east from E10 to E60 (Figure 4). Investigation of this area may assist in providing a cultural and natural context for the artifact material deposited on Lewes Beach during US Army Corps of Engineers dredging operations in 2004. The systematic excavation will proceed from N10/E10 east toward N10/E60.

Assessment of Hull Structure along the Keel

An assessment of the extant hull structure along the keel will be made after the aforementioned grid blocks have been successfully documented. Systematic investigations will be undertaken along one side of the keel assembly to tie in hull construction features between the excavated grid blocks (Figure 5). The scope and extent of these excavations will be dependent upon time and budget and will be decided upon in consultation with the State.

Provenience Control and Excavation

The excavation methods are designed to maintain tight control of spatial data for artifacts and all features across the site in order to inform interpretation and guide future management decisions and recovery efforts. Excavation of the sandy overburden will be undertaken with 3-inch induction dredges within gridded, 5-foot by 5-foot quadrants of each 10-foot by 10-foot grid square. All dredge effluent will be pumped to the surface and run through a sluice system of screens decreasing in size. The sluice will be located along the starboard side or near the stern of the research vessel. The screens will be monitored continually with archaeologists bagging artifacts in water-filled bags and tagging them with appropriate provenience information. Caution will be used during all dredging operations to ensure that artifacts, features, and changes in sediment are observed during the dredging process. When observed, dredging activity will stop and appropriate procedures followed to ensure that artifacts and features are not disturbed by the dredge head and that necessary methods for any special recovery needs of particular artifacts are established and that spatial and stratigraphic data are properly recorded and assessed.

Artifacts and features encountered during dredging operations will remain in-situ for mapping. Artifacts and features will be plotted using triangulation within each 10 foot by 10 foot grid square, and its disposition mapped prior to recovery. Photographs of artifacts and features in-situ will also be taken if visibility permits. Archaeologists will map on mylar sheets pre-labeled with grid and scale marks corresponding to the grid inserts. After mapping, each artifact will be tagged upon recovery with appropriate provenience information including grid square, quadrant and sub grid location. Once properly tagged, artifacts will be taken to the surface and placed in immediate care of the State conservator for proper storage and processing.

In areas that contain concentrations of very small artifacts observed by the excavator (less than 2 inches), 1 gallon buckets will be used to scoop the sediment containing the artifacts. This process will take place in discrete, recorded locations so that each bucket will have a

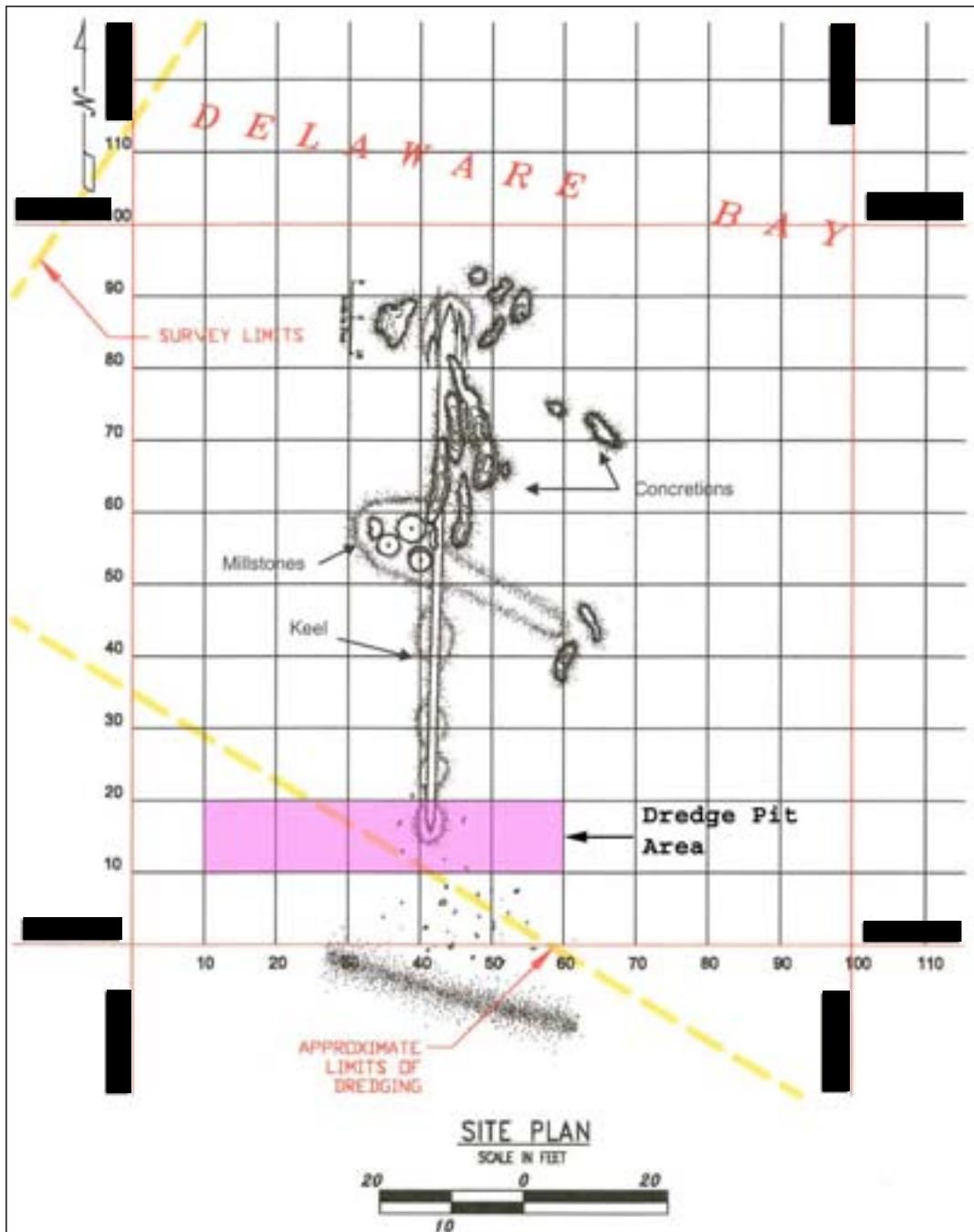


Figure 4. Grid blocks to be excavated near the Dredge Pit Slope (Site plan modified from Dolan Research 2005:59).

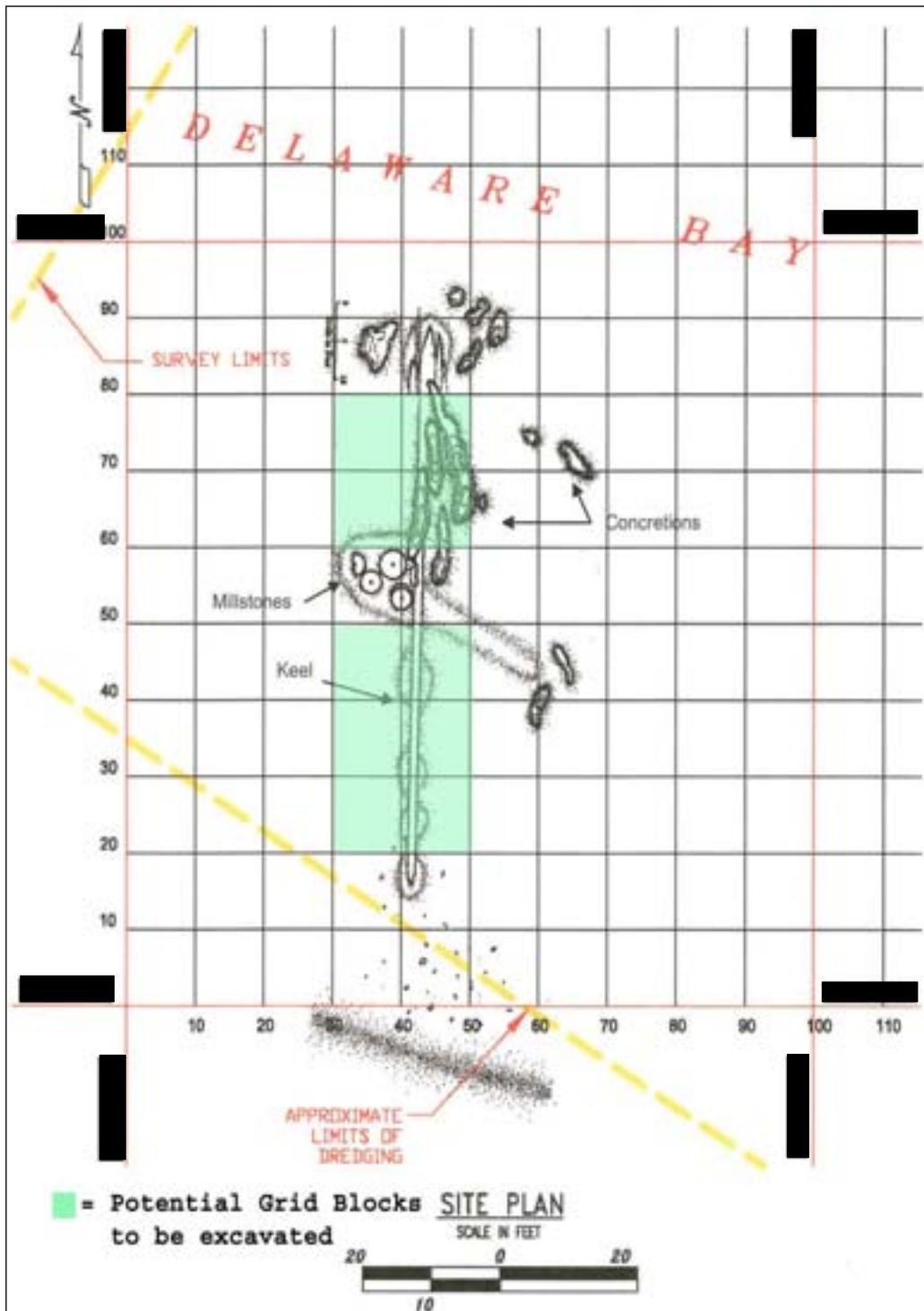


Figure 5. Investigation of grid blocks along the keel, highlighted in green, will be initiated dependent upon time and budget in consultation with the Department of State (Site plan modified from Dolan Research 2005:59).

solid provenience. The tagged buckets will be brought to the surface for screening and the artifacts tagged with corresponding provenience information.

Conservation and Curation of Artifacts

State representatives will be on the research vessel daily to take custody of all artifacts and associated materials from the site. All artifacts and associated materials brought to the surface will be immediately placed in appropriate containers to ensure artifacts remain in a wet environment and that all provenience data remains with the artifact. Processing on the research vessel will be conducted by State representatives.

The State will care for, analyze, and provide conservation and long term curation for all recovered artifacts.

5.0 Analysis

Hull Analysis

All surviving hull architecture and fittings will be located and recorded in the areas investigated to assist in determining the vessel form and type. Detailed analysis of the surviving hull components is critical to estimating vessel size and function, and can offer conclusions on the vessel's origins and the vessel type. The surviving hull may also provide clues as to how the vessel was wrecked, why the vessel sank and if the vessel was salvaged. Hull analysis can also detail how cargo was loaded and stored while at sea.

SEARCH will incorporate available literature for comparative analysis with the vessel remains. Such literature includes several 18th century ship construction treatises as well as archaeological 18th century shipwreck site comparisons and syntheses. Examples from this extant body of literature include: Mungo Murray's *A Treatise on Shipbuilding and Navigations* (1765), William Hutchinson's *A Treatise on Naval Architecture* (1794), and David Steel's *The Elements and Practices of Naval Architecture* (1805).

Archaeologically recorded 18th century vessel remains that may be appropriate for comparisons include but are not limited to: 44YO88, the British brig *Betsey* sunk at Yorktown, Virginia in 1781 during the American Revolution (Morris 1991); the English-built merchantman *San Felipe* wrecked in 1733 off of Florida (Beeker and James 1995); the British sloop *Industry* wrecked in 1764 off Florida (Franklin et al. 1999); the British Transport located off Chub Heads Cut, Bermuda (Krivor 1998); the *El Nuevo Constante* built in England in 1764 (Pearson and Hoffman 1995); and the 18th century Reader's Point wreck, located in St. Anne's Bay, Jamaica (Cook and Rubenstein 1995). Additionally, modern syntheses of 18th century vessel construction practices based on archaeological remains such as Morris, Watts and Franklin's *The Comparative Analysis of 18th-Century Vessel Remains in the Archaeological Record: A Synthesized Theory of Framing Evolution* (1995) will aid in a more thorough analysis of the hull remains of the Roosevelt Inlet Shipwreck.

Artifact Spatial Analysis

Analysis of the spatial grouping of artifacts across the site is a major objective in the research design of this project. The control of provenience information for artifact mapping and recovery has been addressed in the excavation methods section and it is acknowledged that the State will provide detailed artifact inventories including provenience, material type, weight, and size, with associated records. The integration of the provenience data, the physical type data, and function data of the artifacts into a geo-referenced, digital layout that allows varying arrangements of this data, is critical to this aspect of the project's research design.

For purposes of intra-site spatial analysis, artifacts will be catalogued using a system closely following the system developed by Stanley South for artifact pattern analysis (1977) on British Colonial sites in the United States. This approach offers a systematic way to label artifacts in order to observe potential patterns of shipboard function, and has been used with success in prior shipwreck analyses (see Moore 2002, Meade 2001, Wilde-Ramsing 2006). The categories used to label artifacts are relevant to shipboard functions and include: ship architecture, foodways (onboard), personal items, tools, armament, cargo, and intrusive artifacts.

All identifiable artifacts shall be assigned a functional category within the main artifact database. In order to discern patterning across the site based upon these categories, each artifact location will be transferred into the geo-referenced site plan in AutoCAD associated with the site grids. For visual referencing, all artifacts will be displayed in the site plan using a color coded to the category to which the artifact was assigned. Pattern analysis can then be conducted using frequency within excavation grids to discern relationships between the categories and their frequency and location. Statistical significance of these frequencies can be analyzed using chi square distributions and the "t-test".

The t-test is a mathematical test that assesses if observed differences in means are statistically significant and so are not likely to be chance. Both are mathematical probability calculators that serve as barometers of significance in statistical testing. The pattern analysis can help discern the relationship of artifact types and their frequency between units and help to reveal patterns related to the ship's layout, and its site formation processes. These distribution analyses will also be applied to additional attributes of the artifacts in order to assess patterns not specifically associated with shipboard function. For example, analyzing the distribution of heavier artifacts versus lighter artifacts across a gridded location may suggest patterns associated with post-wrecking processes that have affected the site layout over time.

Concretions represent a special consideration on the wreck with regards to analysis of shipboard functions. The artifact types embedded in the concretions, and the identification of the concretions themselves shall be an important component of pattern analysis. SEARCH will integrate visual recording and concretion data into the frequency analysis to the greatest extent possible given the parameters of the work associated with large concretions during this phase of the project.

Ultimately, the analysis of artifact spatial patterning across the site, in association with the known elements of the hull structure, will significantly help to address questions about the ships layout. This data can also help address questions about ship type, wrecking processes, and site formation processes.

Artifact Processing and Analysis

Archaeologists and laboratory staff from the State will be on the recovery vessel to take custody of all artifacts and associated materials on a daily basis and will be responsible for immediate care, maintenance of provenience/contextual data, stabilization, curation and conservation in consultation with SEARCH. The State will provide a complete inventory of artifact types, styles and distributions on a weekly basis in order to assist in guiding the recovery operations.

Detailed artifact analysis by the State will answer questions pertaining to time periods, the origin and destination of the vessel, the origin and destination of the cargo as well as the possible name of the vessel. This information combined with the historical research can detail the political, social and economic life in the Middle Atlantic Colonies and reveal information about the regional, coastal and international trade networks in the colonial world.

6.0 Reporting and Dissemination of Results

SEARCH will compile and produce graphically illustrated and scientifically sound technical reports that conform to the Secretary of the Interior's Standards for Archeological Documentation and the Delaware State Historic Preservation Office's Guidelines for Architectural and Archaeological Surveys in Delaware (1993).

A popular report intended for a wide audience will also be prepared for public distribution.

Presentation at Professional Conferences

At the discretion of the Department of State, SEARCH will present the project background, previous investigations, vessel history, and investigative findings at a professional conferences in the Mid-Atlantic region and nationwide.

7.0 Conclusion

The Roosevelt Inlet Shipwreck fieldwork is expected to be completed at the end of October, 2006. The entire effort will be conducted in collaboration with the Delaware Department of State, Division of Historic and Cultural Affairs through the Lewes Maritime Archaeology Project and as such, any changes to field objectives, methodology or data recovery will be made in consultation with the State to ensure that the best interests of the project are served.

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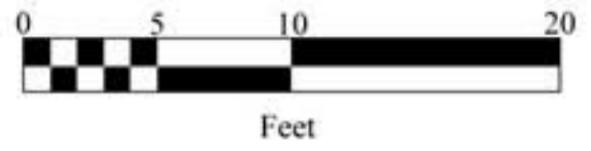
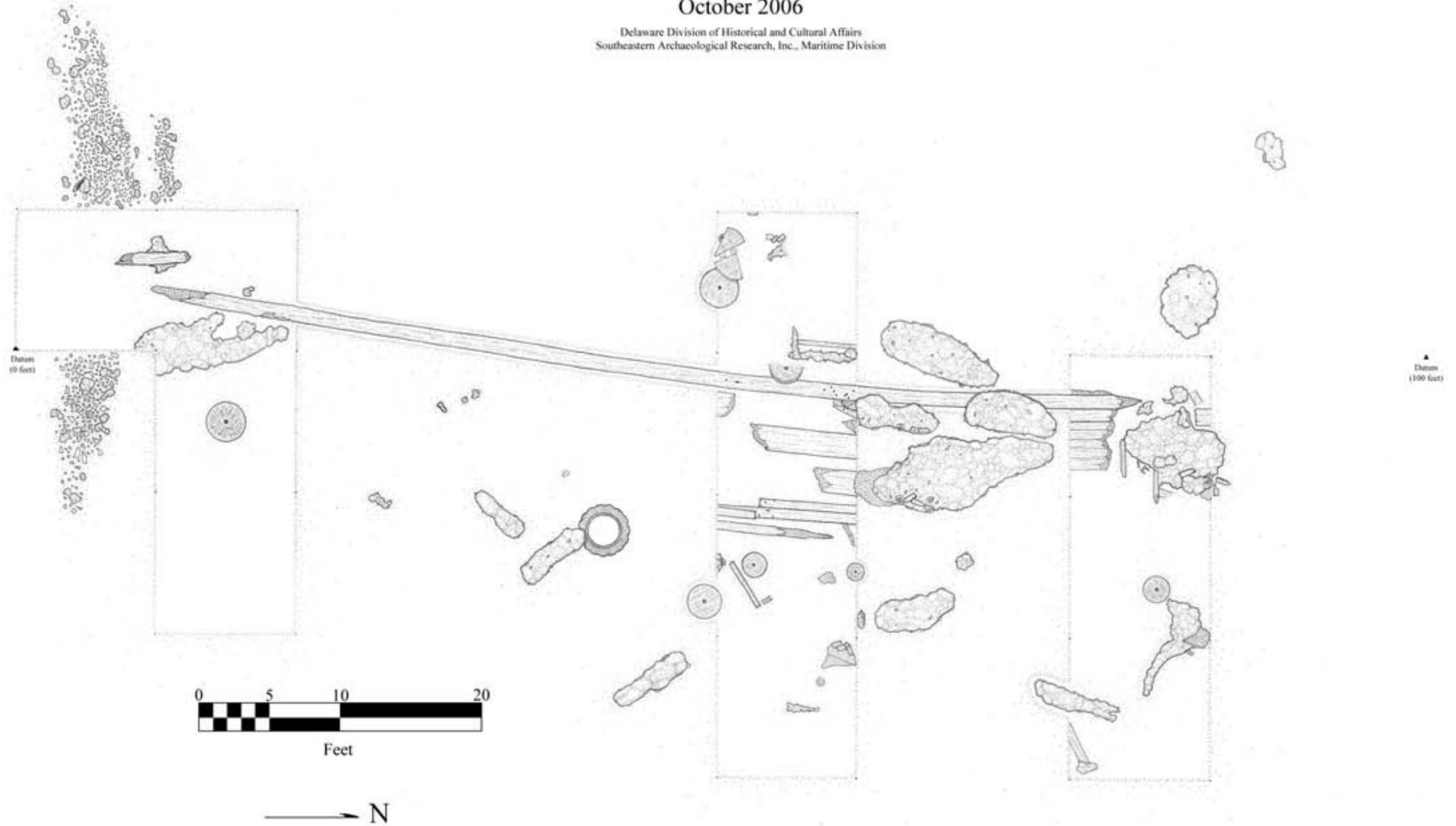
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Appendix C
Master Site Plan

Roosevelt Inlet Shipwreck
Site Plan
October 2006

Delaware Division of Historical and Cultural Affairs
Southeastern Archaeological Research, Inc., Maritime Division



Appendix D
Hydro Probe Survey Results

HYDRO PROBE SURVEY RESULTS

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Table D-1. Results of hydro probe survey of Transect East 0.

Baseline	Hull Remains	Artifacts
North 0/East 0	Negative	Negative
North 10/East 0	Negative	Negative
North 20/East 0	Negative	Coal observed; not recovered
North 30/East 0	Negative	Negative
North 40/East 0	Negative	Negative
North 50/East 0	Negative	Negative
North 60/East 0	Negative	Negative
North 70/East 0	Negative	Negative
North 80/ East 0	Negative	Negative
North 90/East 0	Negative	Negative
North 100/East 0	Negative	Negative

Table D-2. Results of hydro probe survey of Transect East 10.

Baseline	Hull Remains	Artifacts
North 0/ East 10	Negative	Large brick debris scatter under sediment; 1 unidentified concretion, 1 ceramic, and 1 brick fragment recovered
North 10/East 10	Negative	One ceramic sherd recovered
North 20/East 10	Negative	One piece of black glass recovered
North 30/East 10	Negative	Negative
North 40/East 10	Negative	Negative
North 50/East 10	Negative	One concretion observed with 6 inches of relief off seafloor, not collected
North 60/East 10	Negative	Negative
North 70/East 10	Negative	Negative
North 80/East 10	Negative	Negative
North 90/East 10	Negative	Negative
North 100/East 10	Negative	Negative

Table D-3. Results of hydro probe survey of Transect East 20.

Baseline	Hull Remains	Artifacts
North 0/East 20	Negative	Large concretions in area, none collected
North10/East 20	Negative	one whole brick collected
North 20/East 20	Negative	Negative
North 30/East 20	Negative	One small concretion collected
North 40/East 20	Small, positive return, likely brick	Negative
North 50/East 20	Negative	Negative
North 60/East 20	Negative	Negative
North 70/East 20	Negative	Negative
North 80/East 20	Negative	Negative
North 90/East 20	Negative	Negative
North 100/East 20	Negative	Negative

Table D-4. Results of hydro probe survey of Transect East 30.

Baseline	Hull Remains	Artifacts
North 0/East 30	Negative	One brick fragment, large brick scatter in area
North10/East 30	Negative	One whole brick and one brick fragment collected
North 20/East 30	Negative	Negative
North 30/East 30	Negative	One brick fragment recovered
North 40/East 30	Negative	One large ceramic and modern SCUBA debris recovered
North 50/East 30	Negative	Negative
North 60/East 30	Negative	Negative
North 70/East 30	Negative	One ceramic bottle base collected
North 80/East 30	Negative	Negative
North 90/East 30	Negative	Negative
North 100/East 30	Negative	Negative

Table D-5. Results of hydro probe survey of Transect East 40.

Baseline	Hull Remains	Artifacts
North 0/East 40	Negative	Negative
North10/East 40	Negative	One small ceramic sherd, one case gin bottle base, one ceramic base, bricks reported in area
North 20/East 40	Negative	Three ceramic sherds, one brick fragment, one small concretion and one rock recovered
North 30/East 40	Negative	Negative
North 40/East 40	Negative	One ceramic sherd, one glass shard, and one concretion recovered
North 50/East 40	Negative	One pipe stem recovered
North 60/East 40	Negative	Negative
North 70/East 40	Negative	Negative
North 80/East 40	Negative	Negative
North 90/East 40	Negative	One ceramic base, large concretions with 2-3 feet of relief in area
North 100/East 40	Negative	Negative

Table D-6. Results of hydro probe survey of Transect East 50.

Baseline	Hull Remains	Artifacts
North 0/East 50	Negative	Negative
North 10/East 50	Negative	One pipe bowl, 1 brown glass shard (broken in two), and 1 ceramic base recovered
North 20/East 50	*	One round bottle base recovered
North 30/East 50	Negative	Negative
North 40/East 50	Negative	Negative
North 50/East 50	Negative	Negative
North 60/East 50	Negative	Negative
North 70/East 50	Negative	One ceramic sherd and one bottle base recovered
North 80/East 50	Negative	Negative
North 90/East 50	Negative	Negative
North 100/East 50	Negative	Negative for artifacts; screw anchor with polypro line attached at this location; possibly a datum left from previous investigation by Dolan Research, Inc. (2005)

*Hydro probe not used due to extensive brick layered in the area

Table D-7. Results of hydro probe survey of Transect East 60.

Baseline	Hull Remains	Artifacts
North 0/East 60	Negative	Two ceramic sherds recovered, brick in area (not recovered)
North 10/East 60	Negative	Negative artifacts in area; however the area is predominantly large concretions
North 20/East 60	Negative	One clay pipe stem and one large, complete ceramic base recovered
North 30/East 60	Positive	One complete brick and brick scatter all over this area
North 40/East 60	Positive	Negative
North 50/East 60	Positive	One ceramic sherd recovered
North 60/East 60	Positive	Negative for artifacts; screw anchor from previous investigation observed 6 feet to the west
North 70/East 60	Positive	Negative
North 80/East 60	Positive	Ballast stones observed in area (not recovered), one ceramic sherd recovered
North 90/East 60	Negative	Concretions, possible rigging elements (2-foot height off seafloor) reported by diver, negative for artifacts
North 100/East 60	Negative	Negative

Table D-8. Results of hydro probe survey of Transect East 70.

Baseline	Hull Remains	Artifacts
North 0/East 70	Negative	One metal decorative artifact recovered
North 10/East 70	Negative	Concretions on seafloor extending to the west
North 20/East 70	Negative	One bottle base recovered, concretions exposed on seafloor
North 30/East 70	Negative	One pewter metal artifact recovered
North 40/East 70	Negative	Negative
North 50/East 70	Negative	Concretions in area, possibly associated with rigging elements observed by diver (not recovered)
North 60/East 70	Negative	Negative
North 70/East 70	Wood timbers, disarticulated	Iron concretions, likely associated with rigging elements in area, negative for artifacts
North 80/East 70	Negative	Negative for artifacts, modern crab trap and wire rope observed in area

Baseline	Hull Remains	Artifacts
North 90/East 70	Negative	Negative
North 100/East 70	Negative	Negative

Table D-9. Results of hydro probe survey of Transect East 80.

Baseline	Hull Remains	Artifacts
North 0/East 80	Negative	Negative
North 10/East 80	Positive returns from brick scatter	Large concretions and scatter of brick dominate the area
North 20/East 80	Negative	Linear concretion continues through this area, large amounts of exposed debris on the bottom
North 30/East 80	Negative	Two square, unidentified artifacts recovered
North 40/East 80	Negative	Concretions on seafloor (none recovered)
North 50/East 80	Negative	One unidentified round object and two ceramic sherds recovered
North 60/East 80	Negative	Negative
North 70/East 80	Negative	Negative
North 80/East 80	Negative	Negative
North 90/East 80	Negative	Negative
North 100/East 80	Negative	Negative

Table D-10. Results of hydro probe survey of Transect East 90.

Baseline	Hull Remains	Artifacts
North 0/East 90	Negative	Negative
North 10/East 90	Negative	Negative
North 20/East 90	Negative	Intact brick exposed on seafloor
North 30/East 90	Negative	Intact brick exposed on seafloor
North 40/East 90	Negative	Two intact bricks observed in area
North 50/East 90	Negative	Negative
North 60/East 90	Negative	Negative
North 70/East 90	Negative	Negative
North 80/East 90	Negative	Negative for artifacts, concretions observed on the seafloor
North 90/East 90	Negative	Negative
North 100/East 90	Negative	Negative

Table D-11. Results of hydro probe survey of Transect East 100.

Baseline	Hull Remains	Artifacts
North 0/East 100	Negative	Negative
North 10/East 100	Negative	Negative
North 20/East 100	Negative	Negative for artifacts, concretions observed on the seafloor
North 30/East 100	Negative	Negative
North 40/East 100	Negative	Brick scatter in area, not collected
North 50/East 100	Negative	Negative for artifacts, concretions observed on the seafloor
North 60/East 100	Negative	Negative
North 70/East 100	Negative	Brick scatter in area, not collected
North 80/East 100	Negative	Negative
North 90/East 100	Negative	Negative
North 100/East 100	Negative	Negative

Appendix E
Test Unit Results

TEST UNIT RESULTS

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Table E-1. Test Units and dates of excavation.

Test Unit	Dates of Excavation
North 50/East 50	October 9, 2006
North 50/East 60	October 10-11, 2006
North 50/East 70	October 12-14, 2006
North 50/East 80	October 15, 2006
North 75/East 60	October 16-17, 2006
North 75/East 70	October 17-19, 2006
North 75/East 80	October 19-21, 2006
North 10/East 50	October 22, 2006
North 10/East 60	October 22-23, 2006
North 10/East 70	October 24, 2006
North 0/East 50	October 25, 2006

TEST UNIT N50/E50

Table E-2. Stratigraphy of Test Unit N50/E50.

Depth (from seafloor surface)	Sediment
0-2 inches	Modern sand, overburden
2-12 inches	Clay, mud
12-30 inches	Shell hash, sand
30 inches	Sterile sand

Table E-3. Artifact Assemblage recovered from the Southwest Quadrant of Test Unit N50/E50.

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.131	General Cleanup	0-12 inches	Ceramic	Pipe bowl, decorated rim	8
2006.33.131	General Cleanup	0-12 inches	Ceramic	Pipe bowl, plain body	2
2006.33.131	General Cleanup	0-12 inches	Ceramic	Pipe stem, plain	24
2006.33.131	General Cleanup	0-12 inches	Ceramic	Pipe stem, rouletted	7
2006.33.131	General Cleanup	0-12 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.131	General Cleanup	0-12 inches	Earthenware	Tin-glazed Purple earthenware	2
2006.33.131	General Cleanup	0-12 inches	Glass	Case Bottles	3
2006.33.131	General Cleanup	0-12 inches	Glass	Tumbler	2
2006.33.131	General Cleanup	0-12 inches	Glass	UID glass	2
2006.33.131	General Cleanup	0-12 inches	Glass	Window Glass	16
2006.33.131	General Cleanup	0-12 inches	Refined earthenware	Creamware	3
2006.33.131	General Cleanup	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	10
2006.33.131	General Cleanup	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	3
2006.33.131	General Cleanup	0-12 inches	Stoneware	Stoneware mineral water body	8
2006.33.125	NE	0-12 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.125	NE	0-12 inches	Ceramic	Pipe bowl, plain body	4
2006.33.125	NE	0-12 inches	Ceramic	Pipe stem, plain	17
2006.33.125	NE	0-12 inches	Ceramic	Pipe stem, rouletted	1
2006.33.125	NE	0-12 inches	Ceramic	Tile, tin glazed	1
2006.33.125	NE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	2
2006.33.125	NE	0-12 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	2
2006.33.125	NE	0-12 inches	Glass	Round other bottles	5
2006.33.125	NE	0-12 inches	Glass	Round wine bottles	4
2006.33.125	NE	0-12 inches	Glass	Window Glass	2
2006.33.125	NE	0-12 inches	Refined earthenware	Creamware	2
2006.33.125	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	5
2006.33.125	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	3
2006.33.125	NE	0-12 inches	Stoneware	Stoneware mineral water body	4
2006.33.125	NE	0-12 inches	Stoneware	Stoneware, other	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.125	NE	0-12 inches	Wood	UID object	8
2006.33.129	NE	12-24 inches	Antimony	Ingot fragment	1
2006.33.129	NE	12-24 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.129	NE	12-24 inches	Ceramic	Pipe stem, plain	5
2006.33.129	NE	12-24 inches	Earthenware	Tin-glazed Blue earthenware	1
2006.33.129	NE	12-24 inches	Earthenware	Tin-glazed Purple earthenware	1
2006.33.129	NE	12-24 inches	Glass	Modern glass, clear; modern bottle, curved base	1
2006.33.129	NE	12-24 inches	Glass	Round other bottles	1
2006.33.129	NE	12-24 inches	Glass	Round wine bottles	3
2006.33.129	NE	12-24 inches	Glass	Window Glass	5
2006.33.129	NE	12-24 inches	Lead	Came	1
2006.33.129	NE	12-24 inches	Refined earthenware	Creamware	3
2006.33.129	NE	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	5
2006.33.129	NE	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.129	NE	12-24 inches	Stoneware	Stoneware mineral water body	1
2006.33.129	NE	12-24 inches	Undetermined	Net weight; barrel shaped net weight,	1
2006.33.132	NE	24-30 inches	Ceramic	Pipe bowl, plain body	2
2006.33.132	NE	24-30 inches	Ceramic	Pipe bowl, rouletted rim	1
2006.33.132	NE	24-30 inches	Ceramic	Pipe stem, plain	21
2006.33.132	NE	24-30 inches	Ceramic	Pipe stem, rouletted	3
2006.33.132	NE	24-30 inches	Earthenware	Tin-glazed Blue earthenware	2
2006.33.132	NE	24-30 inches	Glass	Case Bottles	4
2006.33.132	NE	24-30 inches	Glass	Round wine bottles	5
2006.33.132	NE	24-30 inches	Glass	UID glass	1
2006.33.132	NE	24-30 inches	Glass	Window Glass	8
2006.33.132	NE	24-30 inches	Lead	Barrel shaped bead - modern net weight?	1
2006.33.132	NE	24-30 inches	Lead	Fishing sinker; lead pendant fishing weight,	1
2006.33.132	NE	24-30 inches	Stoneware	Brown salt-glazed stoneware bottle	8
2006.33.132	NE	24-30 inches	Stoneware	Stoneware mineral water body	7
2006.33.132	NE	24-30 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.132	NE	24-30 inches	Wood	UID object	5
2006.33.124	NW	0-12 inches	Black flint	Strike-a-light	1
2006.33.124	NW	0-12 inches	Ceramic	Brick fragment	1
2006.33.124	NW	0-12 inches	Ceramic	Pipe bowl, plain body	2
2006.33.124	NW	0-12 inches	Ceramic	Pipe bowl, rouletted rim	3
2006.33.124	NW	0-12 inches	Ceramic	Pipe stem, plain	7
2006.33.124	NW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.124	NW	0-12 inches	Earthenware	Tin-glazed Purple earthenware	1
2006.33.124	NW	0-12 inches	Copper alloy	Hook	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.124	NW	0-12 inches	Glass	Round other bottles	6
2006.33.124	NW	0-12 inches	Glass	Round wine bottles	5
2006.33.124	NW	0-12 inches	Glass	UID glass	2
2006.33.124	NW	0-12 inches	Glass	Window Glass	15
2006.33.124	NW	0-12 inches	Refined earthenware	Creamware	3
2006.33.124	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	11
2006.33.124	NW	0-12 inches	Stoneware	Stoneware mineral water body	1
2006.33.124	NW	0-12 inches	Stoneware	Stoneware, other	1
2006.33.128	NW	12-24 inches	Ceramic	Pipe bowl, plain body	2
2006.33.128	NW	12-24 inches	Ceramic	Pipe stem, plain	15
2006.33.128	NW	12-24 inches	Coarse earthenware	Frankfurter ware	1
2006.33.128	NW	12-24 inches	Earthenware	Tin-glazed Blue earthenware	1
2006.33.128	NW	12-24 inches	Earthenware	Tin-glazed Purple earthenware	1
2006.33.128	NW	12-24 inches	Glass	Case Bottles	10
2006.33.128	NW	12-24 inches	Glass	Glass Lens Fragment; Circle/Bi-convex	2
2006.33.128	NW	12-24 inches	Glass	Round wine bottles	6
2006.33.128	NW	12-24 inches	Glass	Window Glass	20
2006.33.128	NW	12-24 inches	Lead	Net weight; Barrel shaped lead Length - 1.29"/32.94mm Diameter (center) - .7055"/17.92mm	1
2006.33.128	NW	12-24 inches	Pewter	Miniature, domestic ware	1
2006.33.128	NW	12-24 inches	Refined earthenware	Creamware	1
2006.33.128	NW	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	10
2006.33.128	NW	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	2
2006.33.128	NW	12-24 inches	Stoneware	Stoneware mineral water body	11
2006.33.128	NW	12-25 inches	Ferrous	UID Object	5
2006.33.128	NW	12-25 inches	Glass	UID glass	1
2006.33.134	NW	24-30 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.134	NW	24-30 inches	Ceramic	Pipe stem, plain	2
2006.33.134	NW	24-30 inches	Ceramic	Pipe stem, rouletted	1
2006.33.134	NW	24-30 inches	Earthenware	Tin-glazed Blue earthenware	1
2006.33.134	NW	24-30 inches	Earthenware	Tin-glazed Purple earthenware	1
2006.33.134	NW	24-30 inches	Glass	Glass Lens Fragment; Round/Bi-convex	1
2006.33.134	NW	24-30 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	2
2006.33.134	NW	24-30 inches	Glass	Round wine bottles	1
2006.33.134	NW	24-30 inches	Glass	Tumbler	2
2006.33.134	NW	24-30 inches	Glass	Window Glass	2
2006.33.134	NW	24-30 inches	Refined earthenware	Creamware	1
2006.33.134	NW	24-30 inches	Stoneware	Brown salt-glazed stoneware bottle	13

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.134	NW	24-30 inches	Stoneware	Stoneware mineral water body	2
2006.33.134	NW	24-30 inches	Wood	UID Object	6
2006.33.126	SE	0-12 inches	Ceramic	Pipe bowl, decorated rim	2
2006.33.126	SE	0-12 inches	Ceramic	Pipe bowl, plain body	2
2006.33.126	SE	0-12 inches	Ceramic	Pipe stem, plain	10
2006.33.126	SE	0-12 inches	Glass	Case Bottles	4
2006.33.126	SE	0-12 inches	Glass	Modern beer bottle, green; 20th Century beer bottle, curved	1
2006.33.126	SE	0-12 inches	Glass	Tumbler	1
2006.33.126	SE	0-12 inches	Glass	UID glass	2
2006.33.126	SE	0-12 inches	Glass	Window Glass	5
2006.33.126	SE	0-12 inches	Refined earthenware	Creamware	1
2006.33.126	SE	0-12 inches	Stone	Slate	1
2006.33.126	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	7
2006.33.126	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	5
2006.33.126	SE	0-12 inches	Stoneware	Stoneware mineral water body	2
2006.33.130	SE	12-24 inches	Antimony	Ingot fragment	1
2006.33.130	SE	12-24 inches	Ceramic	Pipe bowl, decorated rim	2
2006.33.130	SE	12-24 inches	Ceramic	Pipe bowl, plain body	3
2006.33.130	SE	12-24 inches	Ceramic	Pipe stem, plain	39
2006.33.130	SE	12-24 inches	Ceramic	Pipe stem, rouletted	2
2006.33.130	SE	12-24 inches	Earthenware	Tin-glazed Blue earthenware	3
2006.33.130	SE	12-24 inches	Earthenware	Tin-glazed Polychrome earthenware	1
2006.33.130	SE	12-24 inches	Glass	Case Bottles	18
2006.33.130	SE	12-24 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	3
2006.33.130	SE	12-24 inches	Glass	Round wine bottles	6
2006.33.130	SE	12-24 inches	Glass	Window Glass	6
2006.33.130	SE	12-24 inches	Refined earthenware	Creamware	7
2006.33.130	SE	12-24 inches	Rubber	UID object; Tubular artifact - appears to be manufactured of rubber	1
2006.33.130	SE	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	22
2006.33.130	SE	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	2
2006.33.130	SE	12-24 inches	Stoneware	Stoneware mineral water body	2
2006.33.130	SE	12-25 inches	Copper alloy	UID object	3
2006.33.130	SE	12-25 inches	Glass	UID glass	1
2006.33.135	SE	24-30 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.135	SE	24-30 inches	Ceramic	Pipe stem, plain	14
2006.33.135	SE	24-30 inches	Ceramic	Pipe stem, rouletted	1
2006.33.135	SE	24-30 inches	Earthenware	Tin-glazed Blue earthenware	1
2006.33.135	SE	24-30 inches	Glass	Case Bottles	2

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.135	SE	24-30 inches	Glass	Window Glass	3
2006.33.135	SE	24-30 inches	Refined earthenware	Creamware	3
2006.33.135	SE	24-30 inches	Stoneware	Brown salt-glazed stoneware bottle	6
2006.33.135	SE	24-30 inches	Stoneware	German blue and gray stoneware	1
2006.33.135	SE	24-30 inches	Stoneware	Stoneware mineral water body	4
2006.33.135	SE	24-30 inches	Wood	UID object	6
2006.33.123	SW	0-12 inches	Ceramic	Brick fragment	1
2006.33.123	SW	0-12 inches	Ceramic	Pipe bowl, decorated rim	4
2006.33.123	SW	0-12 inches	Ceramic	Pipe bowl, plain body	3
2006.33.123	SW	0-12 inches	Ceramic	Pipe stem, plain	21
2006.33.123	SW	0-12 inches	Ceramic	Pipe stem, rouletted	3
2006.33.123	SW	0-12 inches	Coarse earthenware	Frankfurter ware	1
2006.33.123	SW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	4
2006.33.123	SW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	3
2006.33.123	SW	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	1
2006.33.123	SW	0-12 inches	Earthenware	Tin-glazed Purple earthenware	1
2006.33.123	SW	0-12 inches	Copper alloy	UID Object	1
2006.33.123	SW	0-12 inches	Copper alloy	Watch key	1
2006.33.123	SW	0-12 inches	Glass	Case Bottles	11
2006.33.123	SW	0-12 inches	Glass	Decanter/pitcher	1
2006.33.123	SW	0-12 inches	Glass	Round wine bottles	8
2006.33.123	SW	0-12 inches	Glass	UID glass	1
2006.33.123	SW	0-12 inches	Glass	Wall sconce/chandelier part	1
2006.33.123	SW	0-12 inches	Glass	Window Glass	15
2006.33.123	SW	0-12 inches	Gray sandstone	Millstone	1
2006.33.123	SW	0-12 inches	Pewter	UID Object	1
2006.33.123	SW	0-12 inches	Plastic	Fishing lure, part; modern plastic leader bead	1
2006.33.123	SW	0-12 inches	Refined earthenware	Creamware	2
2006.33.123	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	37
2006.33.123	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	3
2006.33.123	SW	0-12 inches	Stoneware	Stoneware mineral water body	2
2006.33.123	SW	0-12 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.123	SW	0-12 inches	Undetermined	Possible non-cultural; small concretion, molded form; cylindrical	1
2006.33.127	SW	12-24 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.127	SW	12-24 inches	Ceramic	Pipe bowl, plain body	4
2006.33.127	SW	12-24 inches	Ceramic	Pipe stem, plain	8
2006.33.127	SW	12-24 inches	Ceramic	Pipe stem, rouletted	2
2006.33.127	SW	12-24 inches	Earthenware	Tin-glazed Blue earthenware	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.127	SW	12-24 inches	Earthenware	Tin-glazed Polychrome earthenware	2
2006.33.127	SW	12-24 inches	Glass	Case Bottles	3
2006.33.127	SW	12-24 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	1
2006.33.127	SW	12-24 inches	Glass	Round other bottles	6
2006.33.127	SW	12-24 inches	Glass	Round wine bottles	6
2006.33.127	SW	12-24 inches	Glass	Tumbler	1
2006.33.127	SW	12-24 inches	Glass	Window Glass	17
2006.33.127	SW	12-24 inches	Refined earthenware	Creamware	1
2006.33.127	SW	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	9
2006.33.127	SW	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	2
2006.33.127	SW	12-24 inches	Stoneware	Stoneware mineral water body	5
2006.33.127	SW	12-25 inches	Copper alloy	UID Object	1
2006.33.127	SW	12-25 inches	Glass	UID glass	1
2006.33.133	SW	24-30 inches	Ceramic	Brick fragment	1
2006.33.133	SW	24-30 inches	Ceramic	Pipe stem, plain	2
2006.33.133	SW	24-30 inches	Ceramic	Pipe stem, rouletted	1
2006.33.133	SW	24-30 inches	Earthenware	Tin-glazed Blue earthenware	1
2006.33.133	SW	24-30 inches	Glass	Round wine bottles	1
2006.33.133	SW	24-30 inches	Glass	Window Glass	1
2006.33.133	SW	24-30 inches	Stoneware	Brown salt-glazed stoneware bottle	5
2006.33.133	SW	24-30 inches	Wood	UID object	12

TEST UNIT N50/E60

Table E-4. Stratigraphy of Test Unit N50/E60.

Depth (from seafloor surface)	Sediment
0-2 inches	Modern sand overburden
2-12 inches	Clay, mud
12-30 inches	Shell hash, sand
30 inches	Sterile sand

Table E-5. Artifact Assemblage recovered from the Southwest Quadrant of Test Unit N50/E60.

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.138	NE	0-12 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.138	NE	0-12 inches	Ceramic	Pipe stem, plain	16
2006.33.138	NE	0-12 inches	Ceramic	Pipe stem, rouletted	2
2006.33.138	NE	0-12 inches	Ceramic	Tile, tin glazed	1
2006.33.138	NE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	2
2006.33.138	NE	0-12 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.138	NE	0-12 inches	Earthenware	Tin-glazed Purple earthenware	1
2006.33.138	NE	0-12 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	3
2006.33.138	NE	0-12 inches	Glass	Round other bottles	5
2006.33.138	NE	0-12 inches	Glass	Round wine bottles	2
2006.33.138	NE	0-12 inches	Glass	Window Glass	5
2006.33.138	NE	0-12 inches	Porcelain	Porcelain	2
2006.33.138	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	13
2006.33.138	NE	0-12 inches	Stoneware	Stoneware mineral water body	4
2006.33.138	NE	0-12 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.138	NE	0-12 inches	Stoneware	Stoneware, other	1
2006.33.142	NE	12-24 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.142	NE	12-24 inches	Ceramic	Pipe bowl, plain body	2
2006.33.142	NE	12-24 inches	Ceramic	Pipe stem, plain	14
2006.33.142	NE	12-24 inches	Ceramic	Pipe stem, rouletted	3
2006.33.142	NE	12-24 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.142	NE	12-24 inches	Glass	Case Bottles	11
2006.33.142	NE	12-24 inches	Glass	Round wine bottles	3
2006.33.142	NE	12-24 inches	Glass	Window Glass	16
2006.33.142	NE	12-24 inches	Lead	Net weight; complete, barrel shaped lead weights (net weights?) Length 1 - 1.2245"/31.1 mm Diameter 1 (max) - .7015"/18.82mm Length 2 - 1.2410"/31.52mm Diameter 2 (max.) - .7210"/18.32mm	2
2006.33.142	NE	12-24 inches	Pewter	Button, sleeve	1
2006.33.142	NE	12-24 inches	Refined earthenware	Creamware	2
2006.33.142	NE	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	13

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.142	NE	12-24 inches	Stoneware	Stoneware mineral water body	6
2006.33.142	NE	12-24 inches	Stoneware	Stoneware, other	2
2006.33.146	NE	24 inches - sterile	Ceramic	Pipe bowl, decorated rim	1
2006.33.146	NE	24 inches - sterile	Ceramic	Pipe bowl, plain body	1
2006.33.146	NE	24 inches - sterile	Ceramic	Pipe stem, plain	5
2006.33.146	NE	24 inches - sterile	Ceramic	Pipe stem, rouletted	3
2006.33.146	NE	24 inches - sterile	Coarse earthenware	Lead-glazed coarse earthenware	1
2006.33.146	NE	24 inches - sterile	Coarse earthenware	Slip decorated coarse earthenware	1
2006.33.146	NE	24 inches - sterile	Earthenware	Tin-glazed Polychrome earthenware	1
2006.33.146	NE	24 inches - sterile	Earthenware	Tin-glazed Purple earthenware	1
2006.33.146	NE	24 inches - sterile	Glass	Case Bottles	4
2006.33.146	NE	24 inches - sterile	Glass	Round wine bottles	6
2006.33.146	NE	24 inches - sterile	Glass	Window Glass	4
2006.33.146	NE	24 inches - sterile	Refined earthenware	Creamware	1
2006.33.146	NE	24 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	5
2006.33.146	NE	24 inches - sterile	Stoneware	Stoneware mineral water body	2
2006.33.146	NE	24 inches - sterile	Wood	UID object	15
2006.33.137	NW	0-12 inches	Ceramic	Pipe bowl, decorated rim	3
2006.33.137	NW	0-12 inches	Ceramic	Pipe bowl, plain body	2
2006.33.137	NW	0-12 inches	Ceramic	Pipe stem, plain	28
2006.33.137	NW	0-12 inches	Ceramic	Pipe stem, rouletted	2
2006.33.137	NW	0-12 inches	Coarse earthenware	Buckley earthenware	1
2006.33.137	NW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	2
2006.33.137	NW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.137	NW	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	1
2006.33.137	NW	0-12 inches	Copper alloy	Button	1
2006.33.137	NW	0-12 inches	Glass	Case Bottles	6
2006.33.137	NW	0-12 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	1
2006.33.137	NW	0-12 inches	Glass	Modern beer bottle, green; 20th Century beer bottle, curved	1
2006.33.137	NW	0-12 inches	Glass	Modern glass, clear Intact bottle	1
2006.33.137	NW	0-12 inches	Glass	Round wine bottles	6
2006.33.137	NW	0-12 inches	Glass	UID glass	1
2006.33.137	NW	0-12 inches	Glass	Window Glass	16
2006.33.137	NW	0-12 inches	Lead	Fishing sinker; Modern lead fishing weights of both pendant and cylinder style,	6
2006.33.137	NW	0-12 inches	Refined earthenware	Creamware	2
2006.33.137	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	43
2006.33.137	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	4

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.137	NW	0-12 inches	Stoneware	Stoneware mineral water body	6
2006.33.137	NW	0-12 inches	Wood	UID Object	5
2006.33.141	NW	12-24 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.141	NW	12-24 inches	Ceramic	Pipe bowl, plain body	1
2006.33.141	NW	12-24 inches	Ceramic	Pipe stem, plain	12
2006.33.141	NW	12-24 inches	Ceramic	Pipe stem, rouletted	3
2006.33.141	NW	12-24 inches	Earthenware	Tin-glazed Blue earthenware	2
2006.33.141	NW	12-24 inches	Glass	Case Bottles	8
2006.33.141	NW	12-24 inches	Glass	Glass, faceted stone; clear	1
2006.33.141	NW	12-24 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	2
2006.33.141	NW	12-24 inches	Glass	Round wine bottles	9
2006.33.141	NW	12-24 inches	Glass	Window Glass	8
2006.33.141	NW	12-24 inches	Refined earthenware	Creamware	1
2006.33.141	NW	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	9
2006.33.141	NW	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	2
2006.33.141	NW	12-24 inches	Stoneware	Stoneware mineral water body	2
2006.33.141	NW	12-24 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.141	NW	12-24 inches	Undetermined	Fishing sinker; modern fishing weights,	2
2006.33.145	NW	24 inches-sterile	Ceramic	Brick fragment	1
2006.33.145	NW	24 inches-sterile	Ceramic	Pipe bowl, decorated rim	1
2006.33.145	NW	24 inches-sterile	Ceramic	Pipe bowl, plain body	1
2006.33.145	NW	24 inches-sterile	Ceramic	Pipe stem, plain	17
2006.33.145	NW	24 inches-sterile	Ceramic	Pipe stem, rouletted	5
2006.33.145	NW	24 inches-sterile	Earthenware	Tin-glazed Blue earthenware	1
2006.33.145	NW	24 inches-sterile	Glass	Case Bottles	7
2006.33.145	NW	24 inches-sterile	Glass	Round wine bottles	4
2006.33.145	NW	24 inches-sterile	Glass	Window Glass	9
2006.33.145	NW	24 inches-sterile	Stoneware	Brown salt-glazed stoneware bottle	7
2006.33.145	NW	24 inches-sterile	Stoneware	Stoneware mineral water body	6
2006.33.141	NW	12-24 inches	Ferrous	Concretion	1
2006.33.141	NW	12-24 inches	Glass	UID glass	1
2006.33.141	NW	12-24 inches	Wood	UID object	2
2006.33.145	NW	24 inches-sterile	Glass	UID glass	1
2006.33.139	SE	0-12 inches	Ceramic	Brick fragment	2
2006.33.139	SE	0-12 inches	Ceramic	Pipe bowl, decorated rim	2
2006.33.139	SE	0-12 inches	Ceramic	Pipe bowl, plain body	4
2006.33.139	SE	0-12 inches	Ceramic	Pipe bowl, plain rim	1
2006.33.139	SE	0-12 inches	Ceramic	Pipe stem, plain	45
2006.33.139	SE	0-12 inches	Ceramic	Pipe stem, rouletted	2

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.139	SE	0-12 inches	Ceramic	Whole Brick	2
2006.33.139	SE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	8
2006.33.139	SE	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	2
2006.33.139	SE	0-12 inches	Copper alloy	Button	2
2006.33.139	SE	0-12 inches	Copper alloy	Straight pin	38
2006.33.139	SE	0-12 inches	Glass	Bottle glass	1
2006.33.139	SE	0-12 inches	Glass	Case Bottles	4
2006.33.139	SE	0-12 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	1
2006.33.139	SE	0-12 inches	Glass	Modern beer bottle, green; 20th Century beer bottle, curved	3
2006.33.139	SE	0-12 inches	Glass	Round other bottles	23
2006.33.139	SE	0-12 inches	Glass	UID glass	1
2006.33.139	SE	0-12 inches	Glass	Window Glass	21
2006.33.139	SE	0-12 inches	Lead	Net weight; barrel shaped, lead (net weight). Length - 1.2285"/41.20mm; Width (max.) - .7070"/17.97mm	1
2006.33.139	SE	0-12 inches	Pewter	Buckle, shoe	1
2006.33.139	SE	0-12 inches	Pewter	Miniature, domestic ware	1
2006.33.139	SE	0-12 inches	Pewter	Thimble case	1
2006.33.139	SE	0-12 inches	Refined earthenware	Creamware	2
2006.33.139	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	50
2006.33.139	SE	0-12 inches	Stoneware	Stoneware mineral water body	25
2006.33.139	SE	0-12 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.139	SE	0-12 inches	Undetermined	Concretion	1
2006.33.139	SE	0-12 inches	Undetermined	Fishing lure, part; fishing lure fragment	1
2006.33.143	SE	12-24 inches	Antimony	Ingot fragment	2
2006.33.143	SE	12-24 inches	Ceramic	Pipe bowl, decorated rim	2
2006.33.143	SE	12-24 inches	Ceramic	Pipe stem, plain	11
2006.33.143	SE	12-24 inches	Ceramic	Pipe stem, rouletted	2
2006.33.143	SE	12-24 inches	Earthenware	Tin-glazed Blue earthenware	3
2006.33.143	SE	12-24 inches	Glass	Case Bottles	6
2006.33.143	SE	12-24 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	1
2006.33.143	SE	12-24 inches	Glass	Round wine bottles	3
2006.33.143	SE	12-24 inches	Glass	Window Glass	7
2006.33.143	SE	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	3
2006.33.143	SE	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	2
2006.33.143	SE	12-24 inches	Stoneware	Stoneware mineral water body	2
2006.33.143	SE	12-24 inches	Undetermined	Fishing sinker; modern fishing weight,	1
2006.33.143	SE	12-24 inches	Wood	Modern plywood	2
2006.33.143	SE	12-24 inches	Wood	UID Cooperage	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.143	SE	12-24 inches		Thread Case Cap?	1
2006.33.147	SE	24 inches - sterile	Ceramic	Pipe bowl, plain body	1
2006.33.147	SE	24 inches - sterile	Ceramic	Pipe bowl, rouletted rim	1
2006.33.147	SE	24 inches - sterile	Ceramic	Pipe stem, plain	10
2006.33.147	SE	24 inches - sterile	Glass	Case Bottles	2
2006.33.147	SE	24 inches - sterile	Glass	Round wine bottles	3
2006.33.147	SE	24 inches - sterile	Glass	Window Glass	3
2006.33.147	SE	24 inches - sterile	Pewter	Buckle, shoe	3
2006.33.147	SE	24 inches - sterile	Refined earthenware	Creamware	4
2006.33.147	SE	24 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	4
2006.33.147	SE	24 inches - sterile	Stoneware	Stoneware mineral water body	3
2006.33.143	SE	12-24 inches	Wood	UID Object	21
2006.33.136	SW	0-12 inches	Ceramic	Pipe bowl, decorated rim	2
2006.33.136	SW	0-12 inches	Ceramic	Pipe bowl, plain body	2
2006.33.136	SW	0-12 inches	Ceramic	Pipe stem, plain	35
2006.33.136	SW	0-12 inches	Ceramic	Pipe stem, rouletted	7
2006.33.136	SW	0-12 inches	Ceramic	Tile, lead glazed	2
2006.33.136	SW	0-12 inches	Coarse earthenware	Lead-glazed coarse earthenware	1
2006.33.136	SW	0-12 inches	Earthenware	Tin-glazed Purple earthenware	1
2006.33.136	SW	0-12 inches	Glass	Case Bottles	3
2006.33.136	SW	0-12 inches	Glass	Round wine bottles	7
2006.33.136	SW	0-12 inches	Glass	Tumbler	3
2006.33.136	SW	0-12 inches	Glass	Window Glass	4
2006.33.136	SW	0-12 inches	Refined earthenware	Creamware	3
2006.33.136	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	12
2006.33.136	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	11
2006.33.136	SW	0-12 inches	Stoneware	Stoneware mineral water body	13
2006.33.136	SW	0-12 inches	Wood	UID object	12
2006.33.140	SW	12-24 inches	Antimony	Ingot fragment	1
2006.33.140	SW	12-24 inches	Ceramic	Brick fragment	1
2006.33.140	SW	12-24 inches	Ceramic	Pipe bowl, decorated rim	3
2006.33.140	SW	12-24 inches	Ceramic	Pipe stem, plain	26
2006.33.140	SW	12-24 inches	Ceramic	Pipe stem, rouletted	6
2006.33.140	SW	12-24 inches	Coarse earthenware	Frankfurter ware	1
2006.33.140	SW	12-24 inches	Earthenware	Tin-glazed Blue earthenware	2
2006.33.140	SW	12-24 inches	Earthenware	Tin-glazed Polychrome earthenware	3
2006.33.140	SW	12-24 inches	Glass	Case Bottles	3
2006.33.140	SW	12-24 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	3

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.140	SW	12-24 inches	Glass	Round wine bottles	7
2006.33.140	SW	12-24 inches	Glass	Window Glass	7
2006.33.140	SW	12-24 inches	Refined earthenware	Creamware	2
2006.33.140	SW	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	13
2006.33.140	SW	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	9
2006.33.140	SW	12-24 inches	Stoneware	Stoneware mineral water body	6
2006.33.140	SW	12-24 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.140	SW	12-24 inches	Undetermined	Fishing sinker; modern fishing weight	1
2006.33.144	SW	24 inches - sterile (30"?)	Ceramic	Pipe bowl, decorated rim	1
2006.33.144	SW	24 inches - sterile (30"?)	Ceramic	Pipe stem, plain	4
2006.33.144	SW	24 inches - sterile (30"?)	Ceramic	Pipe stem, rouletted	2
2006.33.144	SW	24 inches - sterile (30"?)	Glass	Case Bottles	4
2006.33.144	SW	24 inches - sterile (30"?)	Glass	Round wine bottles	4
2006.33.144	SW	24 inches - sterile (30"?)	Glass	Window Glass	2
2006.33.144	SW	24 inches - sterile (30"?)	Stoneware	Brown salt-glazed stoneware bottle	2
2006.33.144	SW	24 inches - sterile (30"?)	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.144	SW	24 inches - sterile (30"?)	Stoneware	Stoneware mineral water body	2
2006.33.140	SW	12-24 inches	Glass	UID glass	1
2006.33.140	SW	12-24 inches	Wood	UID Object	11

TEST UNIT N50/E70

Table E-6. Stratigraphy of Test Unit N50/E70.

Depth (from seafloor surface)	Sediment
0-2 inches	Modern sand, overburden
2-12 inches	Clay, mud
12-30 inches	Shell hash, sand
30 inches	Sterile sand

Table E-7. Artifact Assemblage recovered from the Southwest Quadrant of Test Unit N50/E70.

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.151	NE	0-12 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.151	NE	0-12 inches	Ceramic	Pipe bowl, plain body	1
2006.33.151	NE	0-12 inches	Ceramic	Pipe stem, plain	11
2006.33.151	NE	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	1
2006.33.151	NE	0-12 inches	Copper alloy	handle	1
2006.33.151	NE	0-12 inches	Glass	Case Bottles	8
2006.33.151	NE	0-12 inches	Glass	Glass, faceted stone; clear	1
2006.33.151	NE	0-12 inches	Glass	Glass, flat button insert; Round; clear	1
2006.33.151	NE	0-12 inches	Glass	Round wine bottles	9
2006.33.151	NE	0-12 inches	Glass	UID glass	2
2006.33.151	NE	0-12 inches	Glass	Window Glass	9
2006.33.151	NE	0-12 inches	Refined earthenware	Creamware	4
2006.33.151	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	20
2006.33.151	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.151	NE	0-12 inches	Stoneware	Stoneware mineral water body	6
2006.33.151	NE	0-12 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.151	NE	0-12 inches	Stoneware	Stoneware, other	1
2006.33.151	NE	0-12 inches	Undetermined	UID Object	1
2006.33.154	NE	12-24 inches	Black flint	Strike-a-light	1
2006.33.154	NE	12-24 inches	Ceramic	Pipe bowl, decorated body	1
2006.33.154	NE	12-24 inches	Ceramic	Pipe bowl, decorated rim	7
2006.33.154	NE	12-24 inches	Ceramic	Pipe bowl, plain body	2
2006.33.154	NE	12-24 inches	Ceramic	Pipe stem, plain	26
2006.33.154	NE	12-24 inches	Ceramic	Pipe stem, rouletted	5
2006.33.154	NE	12-24 inches	Earthenware	Tin-glazed Blue earthenware	1
2006.33.154	NE	12-24 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.154	NE	12-24 inches	Earthenware	Tin-glazed Purple earthenware	1
2006.33.154	NE	12-24 inches	Copper alloy	Button	1
2006.33.154	NE	12-24 inches	Copper alloy	Button links	2
2006.33.154	NE	12-24 inches	Copper Alloy	Scabbard tip	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.154	NE	12-24 inches	Glass	Case Bottles	9
2006.33.154	NE	12-24 inches	Glass	Glass, faceted stone; clear	6
2006.33.154	NE	12-24 inches	Glass	Glass, faceted stone; peach	1
2006.33.154	NE	12-24 inches	Glass	Glass, flat button insert; Oval; clear	4
2006.33.154	NE	12-24 inches	Glass	Glass, flat button insert; Oval; green	1
2006.33.154	NE	12-24 inches	Glass	Glass, flat button insert; Round; clear	2
2006.33.154	NE	12-24 inches	Glass	Modern glass, clear curved	3
2006.33.154	NE	12-24 inches	Glass	Round wine bottles	29
2006.33.154	NE	12-24 inches	Glass	Window Glass	20
2006.33.154	NE	12-24 inches	Lead	Bilge pump tube; flanged collar	1
2006.33.154	NE	12-24 inches	Pewter	Buckle	2
2006.33.154	NE	12-24 inches	Pewter	Came	1
2006.33.154	NE	12-24 inches	Pewter	Miniature, domestic ware	1
2006.33.154	NE	12-24 inches	Refined earthenware	Creamware	4
2006.33.154	NE	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	53
2006.33.154	NE	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	4
2006.33.154	NE	12-24 inches	Stoneware	Stoneware mineral water body	22
2006.33.154	NE	12-24 inches	Stoneware	Stoneware, other	3
2006.33.158	NE	24 inches-sterile	Antimony	Ingot fragment	1
2006.33.158	NE	24 inches-sterile	Ceramic	Brick fragment	2
2006.33.158	NE	24 inches-sterile	Ceramic	Pipe stem, plain	26
2006.33.158	NE	24 inches-sterile	Ceramic	Pipe stem, rouletted	9
2006.33.158	NE	24 inches-sterile	Earthenware	Tin-glazed Blue earthenware	5
2006.33.158	NE	24 inches-sterile	Earthenware	Tin-glazed Plain earthenware	1
2006.33.158	NE	24 inches-sterile	Earthenware	Tin-glazed Polychrome earthenware	1
2006.33.158	NE	24 inches-sterile	Earthenware	Tin-glazed Purple earthenware	3
2006.33.158	NE	24 inches-sterile	Copper alloy	Button	6
2006.33.158	NE	24 inches-sterile	Copper alloy	Button, sleeve	2
2006.33.158	NE	24 inches-sterile	Copper alloy	Curtain tie back	1
2006.33.158	NE	24 inches-sterile	Copper alloy	Tack	1
2006.33.158	NE	24 inches-sterile	Glass	Glass Lens Fragment; Circle/bi-convex	1
2006.33.158	NE	24 inches-sterile	Glass	Glass, flat button insert; Oval; clear	1
2006.33.158	NE	24 inches-sterile	Glass	Glass, flat button insert; Round; clear	1
2006.33.158	NE	24 inches-sterile	Glass	Round other bottles	11
2006.33.158	NE	24 inches-sterile	Glass	Round wine bottles	20
2006.33.158	NE	24 inches-sterile	Glass	UID glass	5
2006.33.158	NE	24 inches-sterile	Glass	Window Glass	16
2006.33.158	NE	24 inches-sterile	Pewter	Buckle, Knee	1
2006.33.158	NE	24 inches-sterile	Pewter	Buckle, shoe	3
2006.33.158	NE	24 inches-sterile	Pewter	Button	6

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.158	NE	24 inches-sterile	Pewter	Finial	1
2006.33.158	NE	24 inches-sterile	Pewter	Thimble case	1
2006.33.158	NE	24 inches-sterile	Refined earthenware	Creamware	4
2006.33.158	NE	24 inches-sterile	Stoneware	Brown salt-glazed stoneware bottle	28
2006.33.158	NE	24 inches-sterile	Stoneware	Brown salt-glazed stoneware jar	7
2006.33.158	NE	24 inches-sterile	Stoneware	Stoneware mineral water body	25
2006.33.158	NE	24 inches-sterile	Stoneware	Stoneware mineral water body with marks	2
2006.33.158	NE	24 inches-sterile	Stoneware	Stoneware, other	1
2006.33.158	NE	24 inches-sterile	Wood	UID Object	3
2006.33.154	NE	12-24 inches	Glass	UID glass	3
2006.33.154	NE	12-24 inches	Wood	UID Object	5
2006.33.153	NW	12-24 inches	Black flint	Strike-a-light	1
2006.33.153	NW	12-24 inches	Bone	Possible modern fish mandible?	1
2006.33.153	NW	12-24 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.153	NW	12-24 inches	Ceramic	Pipe stem, plain	7
2006.33.153	NW	12-24 inches	Ceramic	Pipe stem, rouletted	1
2006.33.153	NW	12-24 inches	Earthenware	Tin-glazed Blue earthenware	3
2006.33.153	NW	12-24 inches	Earthenware	Tin-glazed Polychrome earthenware	2
2006.33.153	NW	12-24 inches	Copper alloy	Buckle, Shoe	2
2006.33.153	NW	12-24 inches	Copper alloy	Button	2
2006.33.153	NW	12-24 inches	Copper alloy	Button, sleeve	1
2006.33.153	NW	12-24 inches	Copper alloy	Candlestick holder	1
2006.33.153	NW	12-24 inches	Copper alloy	UID Object	2
2006.33.153	NW	12-24 inches	Glass	Case Bottles	4
2006.33.153	NW	12-24 inches	Glass	Glass, faceted stone; blue	1
2006.33.153	NW	12-24 inches	Glass	Glass, faceted stone; clear	2
2006.33.153	NW	12-24 inches	Glass	Glass, flat button insert; Oval; purple	1
2006.33.153	NW	12-24 inches	Glass	Glass, flat button insert; Round; blue	1
2006.33.153	NW	12-24 inches	Glass	Modern beer bottle, green; 20th Century beer bottle; Rolling Rock, curved	1
2006.33.153	NW	12-24 inches	Glass	Round other bottles	1
2006.33.153	NW	12-24 inches	Glass	Round wine bottles	7
2006.33.153	NW	12-24 inches	Glass	UID glass	2
2006.33.153	NW	12-24 inches	Glass	Window Glass	4
2006.33.153	NW	12-24 inches	Gray sandstone	Millstone	1
2006.33.153	NW	12-24 inches	Pewter	Buckle, shoe	2
2006.33.153	NW	12-24 inches	Pewter	Button	1
2006.33.153	NW	12-24 inches	Pewter	Button, sleeve	2
2006.33.153	NW	12-24 inches	Pewter	Table, cutlery; Spoon	1
2006.33.153	NW	12-24 inches	Refined earthenware	Creamware	3

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.153	NW	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	9
2006.33.153	NW	12-24 inches	Stoneware	German blue and gray stoneware	1
2006.33.153	NW	12-24 inches	Stoneware	Stoneware mineral water body	10
2006.33.153	NW	12-24 inches	Stoneware	Stoneware mineral water body with marks	2
2006.33.157	NW	24 inches-sterile	Ceramic	Brick fragment	1
2006.33.157	NW	24 inches-sterile	Ceramic	Pipe bowl, decorated rim	1
2006.33.157	NW	24 inches-sterile	Ceramic	Pipe bowl, plain body	2
2006.33.157	NW	24 inches-sterile	Ceramic	Pipe stem, plain	19
2006.33.157	NW	24 inches-sterile	Ceramic	Pipe stem, rouletted	2
2006.33.157	NW	24 inches-sterile	Earthenware	Tin-glazed Blue earthenware	2
2006.33.157	NW	24 inches-sterile	Earthenware	Tin-glazed Polychrome earthenware	1
2006.33.157	NW	24 inches-sterile	Copper alloy	Straight pin	8
2006.33.157	NW	24 inches-sterile	Glass	Case Bottles	8
2006.33.157	NW	24 inches-sterile	Glass	Glass, flat button insert; Round; clear	2
2006.33.157	NW	24 inches-sterile	Glass	Round wine bottles	4
2006.33.157	NW	24 inches-sterile	Glass	Window Glass	9
2006.33.157	NW	24 inches-sterile	Lead	Chunk	1
2006.33.157	NW	24 inches-sterile	Pewter	Button	3
2006.33.157	NW	24 inches-sterile	Pewter	Thimble case	2
2006.33.157	NW	24 inches-sterile	Refined earthenware	Creamware	3
2006.33.157	NW	24 inches-sterile	Stoneware	Brown salt-glazed stoneware bottle	10
2006.33.157	NW	24 inches-sterile	Stoneware	Stoneware mineral water body	6
2006.33.157	NW	24 inches-sterile	Stoneware	Stoneware mineral water body with marks	2
2006.33.157	NW	24 inches-sterile	Wood	UID Object	7
2006.33.148	SE	0-12 inches		Buckle, shoe	1
2006.33.148	SE	0-12 inches	Black flint	Strike-a-light	1
2006.33.148	SE	0-12 inches	Bone	Domino	1
2006.33.148	SE	0-12 inches	Ceramic	Brick fragment	1
2006.33.148	SE	0-12 inches	Ceramic	Pipe bowl, plain body	6
2006.33.148	SE	0-12 inches	Ceramic	Pipe bowl, rouletted rim	8
2006.33.148	SE	0-12 inches	Ceramic	Pipe stem, plain	53
2006.33.148	SE	0-12 inches	Ceramic	Pipe stem, rouletted	4
2006.33.148	SE	0-12 inches	Ceramic	Whole Brick	1
2006.33.148	SE	0-12 inches	Coarse earthenware	Frankfurter ware	1
2006.33.148	SE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	2
2006.33.148	SE	0-12 inches	Earthenware	Tin-glazed Plain earthenware	4
2006.33.148	SE	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	2
2006.33.148	SE	0-12 inches	Copper alloy	Button	4
2006.33.148	SE	0-12 inches	Copper alloy	Foot or leg	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.148	SE	0-12 inches	Glass	Case Bottles	18
2006.33.148	SE	0-12 inches	Glass	Glass Lens Fragment; Circle/plano-convex	1
2006.33.148	SE	0-12 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	2
2006.33.148	SE	0-12 inches	Glass	Round wine bottles	38
2006.33.148	SE	0-12 inches	Glass	Stemmed glassware	1
2006.33.148	SE	0-12 inches	Glass	UID glass	2
2006.33.148	SE	0-12 inches	Glass	Window Glass	29
2006.33.148	SE	0-12 inches	Pewter	Base ring, teapot	2
2006.33.148	SE	0-12 inches	Pewter	Buckle, shoe	11
2006.33.148	SE	0-12 inches	Pewter	Button	2
2006.33.148	SE	0-12 inches	Pewter	Miniature, domestic ware	2
2006.33.148	SE	0-12 inches	Pewter	Table, cutlery; Spoon	3
2006.33.148	SE	0-12 inches	Pewter	Thimble case	1
2006.33.148	SE	0-12 inches	Refined earthenware	Creamware	13
2006.33.148	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	51
2006.33.148	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	3
2006.33.148	SE	0-12 inches	Stoneware	Stoneware mineral water body	43
2006.33.148	SE	0-12 inches	Stoneware	Stoneware, other	1
2006.33.148	SE	0-12 inches	Undetermined	Fishing line clasp; modern fishing line clasp	1
2006.33.155	SE	12-24 inches	Antimony	Ingot fragment	1
2006.33.155	SE	12-24 inches	Ceramic	Pipe bowl, decorated rim	2
2006.33.155	SE	12-24 inches	Ceramic	Pipe bowl, plain body	6
2006.33.155	SE	12-24 inches	Ceramic	Pipe stem, plain	31
2006.33.155	SE	12-24 inches	Ceramic	Pipe stem, rouletted	1
2006.33.155	SE	12-24 inches	Earthenware	Tin-glazed Blue earthenware	8
2006.33.155	SE	12-24 inches	Earthenware	Tin-glazed Plain earthenware	4
2006.33.155	SE	12-24 inches	Earthenware	Tin-glazed Purple earthenware	1
2006.33.155	SE	12-24 inches	Copper alloy	Button	17
2006.33.155	SE	12-24 inches	Copper alloy	Button, sleeve	6
2006.33.155	SE	12-24 inches	Copper alloy	Candlestick holder	1
2006.33.155	SE	12-24 inches	Copper alloy	Jetton	1
2006.33.155	SE	12-24 inches	Copper alloy	UID Object	9
2006.33.155	SE	12-24 inches	Copper alloy	Smokers companion	1
2006.33.155	SE	12-24 inches	Glass	Case Bottles	19
2006.33.155	SE	12-24 inches	Glass	Glass Lens Fragment; Circle/ Bi-convex	1
2006.33.155	SE	12-24 inches	Glass	Glass Lens Fragment; Circle/Bi-convex	1
2006.33.155	SE	12-24 inches	Glass	Glass, faceted stone; blue	1
2006.33.155	SE	12-24 inches	Glass	Glass, faceted stone; clear	4
2006.33.155	SE	12-24 inches	Glass	Glass, faceted stone; red	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.155	SE	12-24 inches	Glass	Glass, flat button insert; Oval; clear	2
2006.33.155	SE	12-24 inches	Glass	Round wine bottles	46
2006.33.155	SE	12-24 inches	Glass	UID glass	3
2006.33.155	SE	12-24 inches	Glass	UID glass; clear, may be modern; flat	1
2006.33.155	SE	12-24 inches	Glass	Window Glass	41
2006.33.155	SE	12-24 inches	Lead	Came	3
2006.33.155	SE	12-24 inches	Lead	Net weight; lead, barrel shaped weight - modern	1
2006.33.155	SE	12-24 inches	Lead	Patch	1
2006.33.155	SE	12-24 inches	Pewter	Buckle	3
2006.33.155	SE	12-24 inches	Pewter	Buckle, shoe	1
2006.33.155	SE	12-24 inches	Pewter	Jug lid	1
2006.33.155	SE	12-24 inches	Pewter	Miniature, domestic ware	1
2006.33.155	SE	12-24 inches	Pewter	Miniature, watch	1
2006.33.155	SE	12-24 inches	Pewter	Thimble case	3
2006.33.155	SE	12-24 inches	Refined earthenware	Creamware	6
2006.33.155	SE	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	51
2006.33.155	SE	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	18
2006.33.155	SE	12-24 inches	Stoneware	Stoneware mineral water body	29
2006.33.155	SE	12-24 inches	Stoneware	Stoneware mineral water body with marks	2
2006.33.155	SE	12-24 inches	Stoneware	Stoneware, other	2
2006.33.159	SE	24 inches-sterile	Ceramic	Pipe bowl, decorated rim	1
2006.33.159	SE	24 inches-sterile	Ceramic	Pipe bowl, plain body	3
2006.33.159	SE	24 inches-sterile	Ceramic	Pipe stem, plain	15
2006.33.159	SE	24 inches-sterile	Ceramic	Pipe stem, rouletted	2
2006.33.159	SE	24 inches-sterile	Earthenware	Tin-glazed Blue earthenware	2
2006.33.159	SE	24 inches-sterile	Copper alloy	Bracket/faceplate	1
2006.33.159	SE	24 inches-sterile	Copper alloy	Buckle, Shoe	1
2006.33.159	SE	24 inches-sterile	Copper alloy	Button	2
2006.33.159	SE	24 inches-sterile	Copper alloy	Button links	1
2006.33.159	SE	24 inches-sterile	Copper alloy	Button, sleeve	7
2006.33.159	SE	24 inches-sterile	Copper alloy	Finial	1
2006.33.159	SE	24 inches-sterile	Copper alloy	UID Object	2
2006.33.159	SE	24 inches-sterile	Copper alloy	UID Object	14
2006.33.159	SE	24 inches-sterile	Copper alloy	Watch key	1
2006.33.159	SE	24 inches-sterile	Glass	Case Bottles	7
2006.33.159	SE	24 inches-sterile	Glass	Glass, faceted stone; clear	4
2006.33.159	SE	24 inches-sterile	Glass	Glass, faceted stone; red	1
2006.33.159	SE	24 inches-sterile	Glass	Round wine bottles	24
2006.33.159	SE	24 inches-sterile	Glass	UID glass	3
2006.33.159	SE	24 inches-sterile	Glass	Window Glass	19

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.159	SE	24 inches-sterile	Lead	Net weight; lead, barrel shaped net weight. Length - 1.2275"/31.19mm Max. Dia. - .706"/17.93mm	1
2006.33.159	SE	24 inches-sterile	Pewter	Buckle, shoe	3
2006.33.159	SE	24 inches-sterile	Pewter	Button	12
2006.33.159	SE	24 inches-sterile	Pewter	Spout, teapot	1
2006.33.159	SE	24 inches-sterile	Pewter or lead	Miniature, watch	2
2006.33.159	SE	24 inches-sterile	Pewter/lead	Ink well liner	1
2006.33.159	SE	24 inches-sterile	Refined earthenware	Creamware	6
2006.33.159	SE	24 inches-sterile	Stoneware	Brown salt-glazed stoneware bottle	25
2006.33.159	SE	24 inches-sterile	Stoneware	Brown salt-glazed stoneware jar	2
2006.33.159	SE	24 inches-sterile	Stoneware	Stoneware mineral water body	2
2006.33.159	SE	24 inches-sterile	Wood	UID Object	21
2006.33.149	SW	0-12 inches	Black flint	Strike-a-light	1
2006.33.149	SW	0-12 inches	Ceramic	Pipe bowl, decorated rim	2
2006.33.149	SW	0-12 inches	Ceramic	Pipe bowl, plain body	2
2006.33.149	SW	0-12 inches	Ceramic	Pipe stem, plain	15
2006.33.149	SW	0-12 inches	Ceramic	Pipe stem, rouletted	2
2006.33.149	SW	0-12 inches	Ceramic	Tile, lead glazed	1
2006.33.149	SW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	5
2006.33.149	SW	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	3
2006.33.149	SW	0-12 inches	Copper alloy	Candlestick holder	1
2006.33.149	SW	0-12 inches	Copper alloy	UID Object	1
2006.33.149	SW	0-12 inches	Glass	Modern glass, clear; Modern navigation light lens or windshield fragment? , curved	1
2006.33.149	SW	0-12 inches	Glass	Round wine bottles	15
2006.33.149	SW	0-12 inches	Glass	Window Glass	9
2006.33.149	SW	0-12 inches	Pewter	Buckle, shoe	2
2006.33.149	SW	0-12 inches	Refined earthenware	Creamware	4
2006.33.149	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	18
2006.33.149	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	13
2006.33.149	SW	0-12 inches	Stoneware	Stoneware mineral water body	11
2006.33.149	SW	0-12 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.152	SW	12-24 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.152	SW	12-24 inches	Ceramic	Pipe bowl, plain body	2
2006.33.152	SW	12-24 inches	Ceramic	Pipe stem, plain	10
2006.33.152	SW	12-24 inches	Ceramic	Pipe stem, rouletted	2
2006.33.152	SW	12-24 inches	Earthenware	Tin-glazed Blue earthenware	1
2006.33.152	SW	12-24 inches	Glass	Case Bottles	5
2006.33.152	SW	12-24 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	2

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.152	SW	12-24 inches	Glass	Round wine bottles	7
2006.33.152	SW	12-24 inches	Glass	UID glass	2
2006.33.152	SW	12-24 inches	Glass	Window Glass	6
2006.33.152	SW	12-24 inches	Pewter	Teapot	1
2006.33.152	SW	12-24 inches	Pewter	Thimble case	1
2006.33.152	SW	12-24 inches	Refined earthenware	Creamware	2
2006.33.152	SW	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	16
2006.33.152	SW	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	2
2006.33.152	SW	12-24 inches	Stoneware	Stoneware mineral water body	6
2006.33.152	SW	12-24 inches	Wood	UID Object	3
2006.33.156	SW	24 inches-sterile	Ceramic	Brick fragment	1
2006.33.156	SW	24 inches-sterile	Ceramic	Pipe bowl, decorated rim	2
2006.33.156	SW	24 inches-sterile	Ceramic	Pipe stem, plain	21
2006.33.156	SW	24 inches-sterile	Ceramic	Pipe stem, rouletted	3
2006.33.156	SW	24 inches-sterile	Earthenware	Tin-glazed Blue earthenware	2
2006.33.156	SW	24 inches-sterile	Earthenware	Tin-glazed Plain earthenware	1
2006.33.156	SW	24 inches-sterile	Earthenware	Tin-glazed Polychrome earthenware	2
2006.33.156	SW	24 inches-sterile	Earthenware	Tin-glazed Purple earthenware	1
2006.33.156	SW	24 inches-sterile	Copper alloy	Button	3
2006.33.156	SW	24 inches-sterile	Copper alloy	Button, sleeve	1
2006.33.156	SW	24 inches-sterile	Copper alloy	Divider	1
2006.33.156	SW	24 inches-sterile	Copper alloy	Spigot key	1
2006.33.156	SW	24 inches-sterile	Glass	Case Bottles	17
2006.33.156	SW	24 inches-sterile	Glass	Round wine bottles	7
2006.33.156	SW	24 inches-sterile	Glass	UID glass	1
2006.33.156	SW	24 inches-sterile	Glass	Window Glass	7
2006.33.156	SW	24 inches-sterile	Lead	Bilge Pump	1
2006.33.156	SW	24 inches-sterile	Pewter	Buckle, shoe	4
2006.33.156	SW	24 inches-sterile	Pewter	Button	3
2006.33.156	SW	24 inches-sterile	Pewter	Miniature, domestic ware	2
2006.33.156	SW	24 inches-sterile	Pewter	Table, cutlery; Spoon	1
2006.33.156	SW	24 inches-sterile	Porcelain	Porcelain	1
2006.33.156	SW	24 inches-sterile	Refined earthenware	Creamware	3
2006.33.156	SW	24 inches-sterile	Stoneware	Brown salt-glazed stoneware bottle	17
2006.33.156	SW	24 inches-sterile	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.156	SW	24 inches-sterile	Stoneware	Stoneware mineral water body	13
2006.33.156	SW	24 inches-sterile	Stoneware	Stoneware mineral water body with marks	1
2006.33.156	SW	24 inches-sterile	Undetermined	Patch	1
2006.33.156	SW	24 inches-sterile	Wood	UID Object	11

TEST UNIT N50/E80

Table E-8. Stratigraphy of Test Unit N50/E80.

Depth (from seafloor surface)	Sediment
0-2 inches	Modern sand, over burden
2-12 inches	Clay, mud
12-30 inches	Shell hash, sand
30 inches	Sterile sand

Table E-9. Artifact Assemblage recovered from the Southwest Quadrant of Test Unit N50/E80.

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.163	NE	0-12 inches	Antimony	Ingot fragment	1
2006.33.163	NE	0-12 inches	Ceramic	Pipe bowl, decorated rim	7
2006.33.163	NE	0-12 inches	Ceramic	Pipe bowl, plain body	2
2006.33.163	NE	0-12 inches	Ceramic	Pipe stem, plain	9
2006.33.163	NE	0-12 inches	Ceramic	Pipe stem, rouletted	3
2006.33.163	NE	0-12 inches	Ceramic	Tile, tin glazed	1
2006.33.163	NE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	5
2006.33.163	NE	0-12 inches	Copper alloy	Button	3
2006.33.163	NE	0-12 inches	Copper alloy	Button links	2
2006.33.163	NE	0-12 inches	Copper alloy	Button, sleeve	4
2006.33.163	NE	0-12 inches	Copper alloy	Riding stirrup	1
2006.33.163	NE	0-12 inches	Glass	Case Bottles	11
2006.33.163	NE	0-12 inches	Glass	Glass, faceted stone; blue	1
2006.33.163	NE	0-12 inches	Glass	Glass, faceted stone; clear	1
2006.33.163	NE	0-12 inches	Glass	Glass, flat button insert; Oval; blue	1
2006.33.163	NE	0-12 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	1
2006.33.163	NE	0-12 inches	Glass	Modern glass, clear; kerosene lantern lenses 20th Century, curved	1
2006.33.163	NE	0-12 inches	Glass	Round wine bottles	7
2006.33.163	NE	0-12 inches	Glass	Tumbler	1
2006.33.163	NE	0-12 inches	Glass	Window Glass	14
2006.33.163	NE	0-12 inches	Pewter	Button, sleeve	1
2006.33.163	NE	0-12 inches	Pewter	Miniature, domestic ware	1
2006.33.163	NE	0-12 inches	Pewter	Table, cutlery; Spoon	1
2006.33.163	NE	0-12 inches	Pewter	Thimble	3
2006.33.163	NE	0-12 inches	Refined earthenware	Creamware	5
2006.33.163	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	26
2006.33.163	NE	0-12 inches	Stoneware	Stoneware mineral water body	18
2006.33.167	NE	12-24 inches	Antimony	Ingot fragment	5

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.167	NE	12-24 inches	Ceramic	Pipe bowl, decorated rim	2
2006.33.167	NE	12-24 inches	Ceramic	Pipe bowl, plain body	1
2006.33.167	NE	12-24 inches	Ceramic	Pipe stem, plain	6
2006.33.167	NE	12-24 inches	Ceramic	Pipe stem, rouletted	1
2006.33.167	NE	12-24 inches	Earthenware	Tin-glazed Blue earthenware	2
2006.33.167	NE	12-24 inches	Copper alloy	Button	5
2006.33.167	NE	12-24 inches	Copper alloy	Nail	1
2006.33.167	NE	12-24 inches	Glass	Case Bottles	4
2006.33.167	NE	12-24 inches	Glass	Round wine bottles	9
2006.33.167	NE	12-24 inches	Glass	Window Glass	14
2006.33.167	NE	12-24 inches	Lead	Came	1
2006.33.167	NE	12-24 inches	Pewter	Buckle, shoe	1
2006.33.167	NE	12-24 inches	Pewter	Button	3
2006.33.167	NE	12-24 inches	Refined earthenware	Creamware	1
2006.33.167	NE	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	10
2006.33.167	NE	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.167	NE	12-24 inches	Stoneware	Stoneware mineral water body	6
2006.33.167	NE	12-24 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.171	NE	24 inches-sterile	Ceramic	Pipe stem, plain	5
2006.33.171	NE	24 inches-sterile	Earthenware	Tin-glazed Blue earthenware	1
2006.33.171	NE	24 inches-sterile	Copper alloy	Button	1
2006.33.171	NE	24 inches-sterile	Glass	Case Bottles	6
2006.33.171	NE	24 inches-sterile	Glass	Round wine bottles	1
2006.33.171	NE	24 inches-sterile	Glass	Window Glass	4
2006.33.171	NE	24 inches-sterile	Pewter	Button	2
2006.33.171	NE	24 inches-sterile	Refined earthenware	Creamware	2
2006.33.171	NE	24 inches-sterile	Stoneware	Brown salt-glazed stoneware bottle	5
2006.33.171	NE	24 inches-sterile	Stoneware	Stoneware mineral water body	3

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.171	NE	24 inches-sterile	Undetermined	Sheath	1
2006.33.167	NE	12-24 inches	Copper alloy	UID Object	6
2006.33.167	NE	12-24 inches	Glass	UID glass	2
2006.33.167	NE	12-24 inches	Wood	UID Object	2
2006.33.171	NE	24 inches-sterile	Glass	UID glass	1
2006.33.162	NW	0-12 inches	Antimony	Ingot fragment	4
2006.33.162	NW	0-12 inches	Ceramic	Brick fragment	4
2006.33.162	NW	0-12 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.162	NW	0-12 inches	Ceramic	Pipe bowl, plain body	3
2006.33.162	NW	0-12 inches	Ceramic	Pipe stem, plain	28
2006.33.162	NW	0-12 inches	Ceramic	Pipe stem, rouletted	4
2006.33.162	NW	0-12 inches	Ceramic	Tile, lead glazed	1
2006.33.162	NW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	11
2006.33.162	NW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	6
2006.33.162	NW	0-12 inches	Earthenware	Tin-glazed Purple earthenware	3
2006.33.162	NW	0-12 inches	Copper alloy	Bell	1
2006.33.162	NW	0-12 inches	Copper alloy	Buckle, Knee	1
2006.33.162	NW	0-12 inches	Copper alloy	Buckle, Shoe	1
2006.33.162	NW	0-12 inches	Copper alloy	Button	9
2006.33.162	NW	0-12 inches	Copper alloy	Button, sleeve	2
2006.33.162	NW	0-12 inches	Copper alloy	Miniature Fork	1
2006.33.162	NW	0-12 inches	Copper alloy	Thimble	4
2006.33.162	NW	0-12 inches	Copper alloy	Thimble case	1
2006.33.162	NW	0-12 inches	Copper alloy	Watch key	1
2006.33.162	NW	0-12 inches	Glass	Case Bottles	12
2006.33.162	NW	0-12 inches	Glass	Glass Lens Fragment; Circular/ Bi-convex	1
2006.33.162	NW	0-12 inches	Glass	Glass Lens Fragment; Circular/Bi-convex	1
2006.33.162	NW	0-12 inches	Glass	Glass, faceted stone; blue	1
2006.33.162	NW	0-12 inches	Glass	Glass, faceted stone; clear	3
2006.33.162	NW	0-12 inches	Glass	Glass, flat button insert; Oval; clear	2
2006.33.162	NW	0-12 inches	Glass	Glass, flat button insert; Round; blue	1
2006.33.162	NW	0-12 inches	Glass	Glass, flat button insert; Round; clear	3
2006.33.162	NW	0-12 inches	Glass	Modern glass, smoky grey; modern sunglass lens fragments, curved	8
2006.33.162	NW	0-12 inches	Glass	Round wine bottles	33
2006.33.162	NW	0-12 inches	Glass	Window Glass	39
2006.33.162	NW	0-12 inches	Lead	Patch	1
2006.33.162	NW	0-12 inches	Pewter	Buckle, shoe	3

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.162	NW	0-12 inches	Pewter	Button	3
2006.33.162	NW	0-12 inches	Refined earthenware	Creamware	8
2006.33.162	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	42
2006.33.162	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	9
2006.33.162	NW	0-12 inches	Stoneware	Stoneware mineral water body	20
2006.33.162	NW	0-12 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.166	NW	12-24 inches	Ceramic	Brick fragment	5
2006.33.166	NW	12-24 inches	Ceramic	Pipe bowl, decorated rim	5
2006.33.166	NW	12-24 inches	Ceramic	Pipe bowl, plain body	4
2006.33.166	NW	12-24 inches	Ceramic	Pipe stem, plain	29
2006.33.166	NW	12-24 inches	Ceramic	Pipe stem, rouletted	3
2006.33.166	NW	12-24 inches	Coarse earthenware	Lead-glazed coarse earthenware	2
2006.33.166	NW	12-24 inches	Earthenware	Tin-glazed Blue earthenware	4
2006.33.166	NW	12-24 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.166	NW	12-24 inches	Copper alloy	Button	1
2006.33.166	NW	12-24 inches	Copper alloy	Button, sleeve	4
2006.33.166	NW	12-24 inches	Glass	Case Bottles	24
2006.33.166	NW	12-24 inches	Glass	Decanter/pitcher	1
2006.33.166	NW	12-24 inches	Glass	Glass, faceted bead; Octahedral; purple	1
2006.33.166	NW	12-24 inches	Glass	Glass, flat button insert; Oval; clear	1
2006.33.166	NW	12-24 inches	Glass	Round other bottles	1
2006.33.166	NW	12-24 inches	Glass	Round wine bottles	10
2006.33.166	NW	12-24 inches	Glass	Stemmed glassware	1
2006.33.166	NW	12-24 inches	Glass	Wall sconce/chandelier part	1
2006.33.166	NW	12-24 inches	Glass	Window Glass	12
2006.33.166	NW	12-24 inches	Pewter	Button	2
2006.33.166	NW	12-24 inches	Pewter	Button, sleeve	1
2006.33.166	NW	12-24 inches	Refined earthenware	Creamware	16
2006.33.166	NW	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	31
2006.33.166	NW	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	2

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.166	NW	12-24 inches	Stoneware	Stoneware mineral water body	25
2006.33.170	NW	24 inches-sterile	Ceramic	Pipe bowl, decorated rim	1
2006.33.170	NW	24 inches-sterile	Ceramic	Pipe bowl, plain body	2
2006.33.170	NW	24 inches-sterile	Ceramic	Pipe stem, plain	15
2006.33.170	NW	24 inches-sterile	Ceramic	Pipe stem, rouletted	1
2006.33.170	NW	24 inches-sterile	Earthenware	Tin-glazed Blue earthenware	4
2006.33.170	NW	24 inches-sterile	Earthenware	Tin-glazed Plain earthenware	1
2006.33.170	NW	24 inches-sterile	Copper alloy	Straight pin	3
2006.33.170	NW	24 inches-sterile	Glass	Round wine bottles	6
2006.33.170	NW	24 inches-sterile	Glass	Stemmed glassware	1
2006.33.170	NW	24 inches-sterile	Glass	Window Glass	25
2006.33.170	NW	24 inches-sterile	Pewter	Button	3
2006.33.170	NW	24 inches-sterile	Refined earthenware	Creamware	8
2006.33.170	NW	24 inches-sterile	Stoneware	Brown salt-glazed stoneware bottle	11
2006.33.170	NW	24 inches-sterile	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.170	NW	24 inches-sterile	Stoneware	Stoneware mineral water body	6
2006.33.162	NW	0-12 inches	Copper alloy	UID Object	1
2006.33.162	NW	0-12 inches	Glass	UID glass	4
2006.33.166	NW	12-24 inches	Wood	UID Object	7
2006.33.170	NW	24 inches-sterile	Glass	UID glass	4
2006.33.164	SE	0-12 inches	Antimony	Ingot fragment	1
2006.33.164	SE	0-12 inches	Ceramic	Pipe bowl, decorated rim	2
2006.33.164	SE	0-12 inches	Ceramic	Pipe stem, plain	8
2006.33.164	SE	0-12 inches	Ceramic	Pipe stem, rouletted	1
2006.33.164	SE	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	1
2006.33.164	SE	0-12 inches	Copper alloy	Button, sleeve	1
2006.33.164	SE	0-12 inches	Copper alloy	Handle	1
2006.33.164	SE	0-12 inches	Glass	Glass, faceted stone; clear	2
2006.33.164	SE	0-12 inches	Glass	Glass, faceted stone; purple	1
2006.33.164	SE	0-12 inches	Glass	Round wine bottles	27
2006.33.164	SE	0-12 inches	Glass	Window Glass	12
2006.33.164	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	13

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.164	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.164	SE	0-12 inches	Stoneware	Stoneware mineral water body	6
2006.33.168	SE	12-24 inches	Antimony	Ingot fragment	2
2006.33.168	SE	12-24 inches	Ceramic	Pipe bowl, decorated rim	2
2006.33.168	SE	12-24 inches	Ceramic	Pipe bowl, plain body	3
2006.33.168	SE	12-24 inches	Ceramic	Pipe stem, plain	15
2006.33.168	SE	12-24 inches	Ceramic	Pipe stem, rouletted	1
2006.33.168	SE	12-24 inches	Coarse earthenware	Frankfurter ware	2
2006.33.168	SE	12-24 inches	Coarse earthenware	Lead-glazed coarse earthenware	2
2006.33.168	SE	12-24 inches	Earthenware	Tin-glazed Blue earthenware	3
2006.33.168	SE	12-24 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.168	SE	12-24 inches	Earthenware	Tin-glazed Purple earthenware	1
2006.33.168	SE	12-24 inches	Copper alloy	Button	2
2006.33.168	SE	12-24 inches	Copper alloy	Button, sleeve	1
2006.33.168	SE	12-24 inches	Copper alloy	Riding spur	1
2006.33.168	SE	12-24 inches	Glass	Case Bottles	11
2006.33.168	SE	12-24 inches	Glass	Glass, faceted stone; clear	1
2006.33.168	SE	12-24 inches	Glass	Round wine bottles	22
2006.33.168	SE	12-24 inches	Glass	Stemmed glassware	1
2006.33.168	SE	12-24 inches	Glass	Tumbler	1
2006.33.168	SE	12-24 inches	Glass	Window Glass	24
2006.33.168	SE	12-24 inches	Lead	Fishing sinker; lead fishing weight	1
2006.33.168	SE	12-24 inches	Pewter	Buckle, shoe	2
2006.33.168	SE	12-24 inches	Pewter	Button	1
2006.33.168	SE	12-24 inches	Refined earthenware	Creamware	8
2006.33.168	SE	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	12
2006.33.168	SE	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	17
2006.33.168	SE	12-24 inches	Stoneware	German blue and gray stoneware	1
2006.33.168	SE	12-24 inches	Stoneware	Stoneware mineral water body	4

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.168	SE	12-24 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.172	SE	24 inches-sterile	Ceramic	Pipe stem, plain	1
2006.33.172	SE	24 inches-sterile	Ceramic	Pipe stem, rouletted	1
2006.33.172	SE	24 inches-sterile	Copper alloy	Button, sleeve	1
2006.33.172	SE	24 inches-sterile	Glass	Case Bottles	3
2006.33.172	SE	24 inches-sterile	Glass	Glass, faceted stone; clear	1
2006.33.172	SE	24 inches-sterile	Lead	Fishing sinker; lead fishing weight	1
2006.33.172	SE	24 inches-sterile	Pewter	Button	1
2006.33.172	SE	24 inches-sterile	Stoneware	Brown salt-glazed stoneware bottle	1
2006.33.172	SE	24 inches-sterile	Stoneware	Stoneware mineral water body	2
2006.33.172	SE	24 inches-sterile	Stoneware	Stoneware mineral water body with marks	1
2006.33.164	SE	0-12 inches	Glass	UID glass	2
2006.33.168	SE	12-24 inches	Copper alloy	UID Object	1
2006.33.168	SE	12-24 inches	Glass	UID glass	2
2006.33.168	SE	12-24 inches	Wood	UID Object	1
2006.33.161	SW	0-12 inches	Antimony	Ingot fragment	3
2006.33.161	SW	0-12 inches	Ceramic	Brick fragment	1
2006.33.161	SW	0-12 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.161	SW	0-12 inches	Ceramic	Pipe bowl, plain body	2
2006.33.161	SW	0-12 inches	Ceramic	Pipe stem, plain	12
2006.33.161	SW	0-12 inches	Ceramic	Pipe stem, rouletted	2
2006.33.161	SW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	3
2006.33.161	SW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.161	SW	0-12 inches	Copper alloy	Button	1
2006.33.161	SW	0-12 inches	Copper alloy	Button, sleeve	7
2006.33.161	SW	0-12 inches	Glass	Case Bottles	20
2006.33.161	SW	0-12 inches	Glass	Glass Lens Fragment; Circle/convex	1
2006.33.161	SW	0-12 inches	Glass	Glass, flat button insert; Oval; clear	1
2006.33.161	SW	0-12 inches	Glass	Round other bottles	3
2006.33.161	SW	0-12 inches	Glass	Round wine bottles	12
2006.33.161	SW	0-12 inches	Glass	Window Glass	23
2006.33.161	SW	0-12 inches	Lead	Patch	1
2006.33.161	SW	0-12 inches	Pewter	Buckle, shoe	1
2006.33.161	SW	0-12 inches	Refined earthenware	Creamware	10

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.161	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	27
2006.33.161	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.161	SW	0-12 inches	Stoneware	Stoneware mineral water body	15
2006.33.161	SW	0-12 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.161	SW	0-12 inches	Stoneware	Stoneware, other	1
2006.33.165	SW	12-24 inches	Antimony	Ingot fragment	2
2006.33.165	SW	12-24 inches	Ceramic	Pipe bowl, plain body	1
2006.33.165	SW	12-24 inches	Ceramic	Pipe stem, plain	10
2006.33.165	SW	12-24 inches	Ceramic	Pipe stem, rouletted	2
2006.33.165	SW	12-24 inches	Earthenware	Tin-glazed Blue earthenware	3
2006.33.165	SW	12-24 inches	Copper alloy	Button	1
2006.33.165	SW	12-24 inches	Copper alloy	Button, sleeve	3
2006.33.165	SW	12-24 inches	Copper alloy	Handle	1
2006.33.165	SW	12-24 inches	Glass	Case Bottles	4
2006.33.165	SW	12-24 inches	Glass	Glass, faceted stone; clear	1
2006.33.165	SW	12-24 inches	Glass	Glass, faceted stone; red	1
2006.33.165	SW	12-24 inches	Glass	Round wine bottles	17
2006.33.165	SW	12-24 inches	Glass	Window Glass	5
2006.33.165	SW	12-24 inches	Lead	Sheath	1
2006.33.165	SW	12-24 inches	Pewter	Buckle, shoe	2
2006.33.165	SW	12-24 inches	Pewter	Miniature, domestic ware	2
2006.33.165	SW	12-24 inches	Pewter	Thimble case	1
2006.33.165	SW	12-24 inches	Refined earthenware	Creamware	4
2006.33.165	SW	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	25
2006.33.165	SW	12-24 inches	Stoneware	Stoneware mineral water body	13
2006.33.165	SW	12-24 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.169	SW	24 inches-sterile	Antimony	Ingot fragment	1
2006.33.169	SW	24 inches-sterile	Ceramic	Pipe stem, plain	1
2006.33.169	SW	24 inches-sterile	Earthenware	Tin-glazed Purple earthenware	1
2006.33.169	SW	24 inches-sterile	Copper alloy	Button	3

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.169	SW	24 inches-sterile	Glass	Glass, faceted stone; pink	1
2006.33.169	SW	24 inches-sterile	Glass	Round wine bottles	3
2006.33.169	SW	24 inches-sterile	Glass	Window Glass	4
2006.33.169	SW	24 inches-sterile	Pewter	Button	1
2006.33.169	SW	24 inches-sterile	Refined earthenware	Creamware	11
2006.33.169	SW	24 inches-sterile	Stoneware	Brown salt-glazed stoneware bottle	3
2006.33.169	SW	24 inches-sterile	Stoneware	Stoneware mineral water body	4
2006.33.161	SW	0-12 inches	Copper alloy	UID Object	1
2006.33.161	SW	0-12 inches	Glass	UID glass	5
2006.33.161	SW	0-12 inches	Lead	UID Object	2
2006.33.161	SW	0-12 inches	Organic	Coal	2
2006.33.161	SW	0-12 inches	Wood	UID Object	5
2006.33.165	SW	12-24 inches	Glass	UID glass	4
2006.33.169	SW	24 inches-sterile	Lead	UID Object	2

TEST UNIT N75/E60

Table E-10. Stratigraphy of Test Unit N75/E60.

Depth (from seafloor surface)	Sediment
0-2 inches	Modern sand, overburden
2-12 inches	Clay, mud
12-24 inches	Shell hash, sand
30 inches	Sterile sand

Table E-11. Artifact Assemblage recovered from the Southwest Quadrant of Test Unit N75/E60.

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.175	NE	0-12 inches	Antimony	Ingot fragment	12
2006.33.175	NE	0-12 inches	Ceramic	Pipe bowl, decorated rim	8
2006.33.175	NE	0-12 inches	Ceramic	Pipe bowl, plain body	1
2006.33.175	NE	0-12 inches	Ceramic	Pipe stem, decorated	1
2006.33.175	NE	0-12 inches	Ceramic	Pipe stem, plain	17
2006.33.175	NE	0-12 inches	Ceramic	Pipe stem, rouletted	4
2006.33.175	NE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	2
2006.33.175	NE	0-12 inches	Glass	Case Bottles	2
2006.33.175	NE	0-12 inches	Glass	Glass, faceted stone; clear	1
2006.33.175	NE	0-12 inches	Glass	Round wine bottles	6
2006.33.175	NE	0-12 inches	Glass	Window Glass	3
2006.33.175	NE	0-12 inches	Lead	Chunk	3
2006.33.175	NE	0-12 inches	Pewter	Thimble	5
2006.33.175	NE	0-12 inches	Pewter	Thimble case	2
2006.33.175	NE	0-12 inches	Quartz crystal	Possible non-cultural	1
2006.33.175	NE	0-12 inches	Refined earthenware	Creamware	1
2006.33.175	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	10
2006.33.175	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	3
2006.33.175	NE	0-12 inches	Stoneware	Stoneware mineral water body	3
2006.33.179	NE	12-24 inches	Antimony	Ingot fragment	19
2006.33.179	NE	12-24 inches	Antimony	Ingot whole	1
2006.33.179	NE	12-24 inches	Ceramic	Brick fragment	1
2006.33.179	NE	12-24 inches	Ceramic	Pipe bowl, decorated rim	8
2006.33.179	NE	12-24 inches	Ceramic	Pipe bowl, plain body	2
2006.33.179	NE	12-24 inches	Ceramic	Pipe stem, decorated	1
2006.33.179	NE	12-24 inches	Ceramic	Pipe stem, plain	17

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.179	NE	12-24 inches	Ceramic	Pipe stem, rouletted	5
2006.33.179	NE	12-24 inches	Copper alloy	UID Object	9
2006.33.179	NE	12-24 inches	Glass	UID glass	1
2006.33.179	NE	12-24 inches	Glass	Case Bottles	4
2006.33.179	NE	12-24 inches	Glass	Glass, faceted stone; clear	2
2006.33.179	NE	12-24 inches	Glass	Round wine bottles	12
2006.33.179	NE	12-24 inches	Glass	Window Glass	2
2006.33.179	NE	12-24 inches	Lead	Shot	1
2006.33.179	NE	12-24 inches	Pewter	Thimble case	1
2006.33.179	NE	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	13
2006.33.179	NE	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	8
2006.33.179	NE	12-24 inches	Stoneware	Stoneware mineral water body	10
2006.33.179	NE	12-24 inches	Wood	UID Object	4
2006.33.183	NE	24 inches - sterile	Antimony	Ingot fragment	5
2006.33.183	NE	24 inches - sterile	Antimony	Ingot whole	1
2006.33.183	NE	24 inches - sterile	Ceramic	Pipe bowl, decorated rim	12
2006.33.183	NE	24 inches - sterile	Ceramic	Pipe bowl, plain body	7
2006.33.183	NE	24 inches - sterile	Ceramic	Pipe stem, plain	57
2006.33.183	NE	24 inches - sterile	Ceramic	Pipe stem, rouletted	8
2006.33.183	NE	24 inches - sterile	Ceramic	Whole Brick	1
2006.33.183	NE	24 inches - sterile	Earthenware	Tin-glazed Blue earthenware	2
2006.33.183	NE	24 inches - sterile	Copper alloy	Straight pin	1
2006.33.183	NE	24 inches - sterile	Glass	Case Bottles	7
2006.33.183	NE	24 inches - sterile	Glass	Glass, faceted stone; clear	1
2006.33.183	NE	24 inches - sterile	Glass	Round wine bottles	7
2006.33.183	NE	24 inches - sterile	Glass	Window Glass	16
2006.33.183	NE	24 inches - sterile	Lead	Ingot whole	2
2006.33.183	NE	24 inches - sterile	Plastic	Neon yellow plastic bead or fishing lure	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.183	NE	24 inches - sterile	Refined earthenware	Creamware	5
2006.33.183	NE	24 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	21
2006.33.183	NE	24 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.183	NE	24 inches - sterile	Stoneware	Stoneware mineral water body	4
2006.33.183	NE	24 inches - sterile	Glass	UID glass	3
2006.33.183	NE	24 inches - sterile	Organic	Sunflower seed husk	1
2006.33.183	NE	24 inches - sterile	Wood	UID Object	10
2006.33.174	NW	0-12 inches	Ceramic	Pipe bowl, decorated rim	30
2006.33.174	NW	0-12 inches	Ceramic	Pipe bowl, plain body	18
2006.33.174	NW	0-12 inches	Ceramic	Pipe stem, decorated	2
2006.33.174	NW	0-12 inches	Ceramic	Pipe stem, plain	228
2006.33.174	NW	0-12 inches	Ceramic	Pipe stem, rouletted	34
2006.33.174	NW	0-12 inches	Coarse earthenware	Lead-glazed coarse earthenware	1
2006.33.174	NW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	11
2006.33.174	NW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	3
2006.33.174	NW	0-12 inches	Glass	Case Bottles	5
2006.33.174	NW	0-12 inches	Glass	Round wine bottles	29
2006.33.174	NW	0-12 inches	Glass	Window Glass	11
2006.33.174	NW	0-12 inches	Glass	UID glass	6
2006.33.174	NW	0-12 inches	Refined earthenware	Creamware	7
2006.33.174	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	18
2006.33.174	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	5
2006.33.174	NW	0-12 inches	Stoneware	Stoneware mineral water body	5
2006.33.178	NW	12-24 inches	Antimony	Ingot fragment	24
2006.33.178	NW	12-24 inches	Ceramic	Pipe bowl, decorated body	1
2006.33.178	NW	12-24 inches	Ceramic	Pipe bowl, decorated rim	17
2006.33.178	NW	12-24 inches	Ceramic	Pipe bowl, plain body	21
2006.33.178	NW	12-24 inches	Ceramic	Pipe stem, plain	135
2006.33.178	NW	12-24 inches	Ceramic	Pipe stem, rouletted	15
2006.33.178	NW	12-24 inches	Earthenware	Tin-glazed Blue earthenware	1
2006.33.178	NW	12-24 inches	Earthenware	Tin-glazed Purple earthenware	1
2006.33.178	NW	12-24 inches	Felt	Felt Fragment	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.178	NW	12-24 inches	Glass	Bottle glass	2
2006.33.178	NW	12-24 inches	Glass	Case Bottles	2
2006.33.178	NW	12-24 inches	Glass	Glass, faceted stone; clear	1
2006.33.178	NW	12-24 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	1
2006.33.178	NW	12-24 inches	Glass	Modern beer bottle, green; 20th Century beer bottle, curved	4
2006.33.178	NW	12-24 inches	Glass	Modern glass, clear; 20th Century jar? Light mold seam, curved	1
2006.33.178	NW	12-24 inches	Glass	Round wine bottles	28
2006.33.178	NW	12-24 inches	Glass	Window Glass	19
2006.33.178	NW	12-24 inches	Pewter	Miniature, domestic ware	1
2006.33.178	NW	12-24 inches	Pewter	Thimble case	1
2006.33.178	NW	12-24 inches	Pewter	UID Object	9
2006.33.178	NW	12-24 inches	Pewter	UID spout	1
2006.33.178	NW	12-24 inches	Refined earthenware	Creamware	1
2006.33.178	NW	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	18
2006.33.178	NW	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.178	NW	12-24 inches	Stoneware	Stoneware mineral water body	4
2006.33.178	NW	12-24 inches	Wood	UID object	1
2006.33.182	NW	24 inches - sterile	Antimony	Chunk	2
2006.33.182	NW	24 inches - sterile	Antimony	Ingot fragment	1
2006.33.182	NW	24 inches - sterile	Ceramic	Pipe bowl, decorated rim	12
2006.33.182	NW	24 inches - sterile	Ceramic	Pipe bowl, plain body	14
2006.33.182	NW	24 inches - sterile	Ceramic	Pipe stem, plain	125
2006.33.182	NW	24 inches - sterile	Ceramic	Pipe stem, rouletted	16
2006.33.182	NW	24 inches - sterile	Earthenware	Tin-glazed Blue earthenware	2
2006.33.182	NW	24 inches - sterile	Copper alloy	Tack	1
2006.33.182	NW	24 inches - sterile	Glass	Case Bottles	1
2006.33.182	NW	24 inches - sterile	Glass	Glass Lens Fragment; Circular/convex	1
2006.33.182	NW	24 inches - sterile	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.182	NW	24 inches - sterile	Glass	Round wine bottles	13
2006.33.182	NW	24 inches - sterile	Glass	Window Glass	13
2006.33.182	NW	24 inches - sterile	Lead	Sheath	1
2006.33.182	NW	24 inches - sterile	Pewter	Miniature, figurine	1
2006.33.182	NW	24 inches - sterile	Pewter	Thimble case	1
2006.33.182	NW	24 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	6
2006.33.182	NW	24 inches - sterile	Stoneware	Stoneware mineral water body	4
2006.33.182	NW	24 inches - sterile	Glass	UID glass	2
2006.33.182	NW	24 inches - sterile	Wood	UID Object	16
2006.33.176	SE	0-12 inches	Antimony	Ingot fragment	94
2006.33.176	SE	0-12 inches	Antimony	Ingot whole	2
2006.33.176	SE	0-12 inches	Bone	Domino	1
2006.33.176	SE	0-12 inches	Ceramic	Brick fragment	1
2006.33.176	SE	0-12 inches	Ceramic	Pipe bowl, decorated rim	10
2006.33.176	SE	0-12 inches	Ceramic	Pipe bowl, plain body	9
2006.33.176	SE	0-12 inches	Ceramic	Pipe stem, decorated	2
2006.33.176	SE	0-12 inches	Ceramic	Pipe stem, plain	95
2006.33.176	SE	0-12 inches	Ceramic	Pipe stem, rouletted	12
2006.33.176	SE	0-12 inches	Ceramic	Tile, unglazed	1
2006.33.176	SE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	2
2006.33.176	SE	0-12 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.176	SE	0-12 inches	Copper alloy	Hooked link	1
2006.33.176	SE	0-12 inches	Copper alloy	Pressing iron	0
2006.33.176	SE	0-12 inches	Copper alloy	Straight pin	5
2006.33.176	SE	0-12 inches	Glass	Case Bottles	4
2006.33.176	SE	0-12 inches	Glass	Glass, faceted stone; clear	14
2006.33.176	SE	0-12 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	2
2006.33.176	SE	0-12 inches	Glass	Round wine bottles	22
2006.33.176	SE	0-12 inches	Glass	Window Glass	65
2006.33.176	SE	0-12 inches	Pewter	Miniature, domestic ware	1
2006.33.176	SE	0-12 inches	Pewter	Miniature, watch	2
2006.33.176	SE	0-12 inches	Pewter	Thimble	4
2006.33.176	SE	0-12 inches	Pewter	Thimble case	2
2006.33.176	SE	0-12 inches	Refined earthenware	Creamware	3
2006.33.176	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	19

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.176	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.176	SE	0-12 inches	Stoneware	Stoneware mineral water body	13
2006.33.176	SE	0-12 inches	Stoneware	Stoneware mineral water body with marks	2
2006.33.176	SE	0-12 inches	Copper alloy	UID Object	1
2006.33.176	SE	0-12 inches	Glass	UID glass	3
2006.33.176	SE	0-12 inches	Lead	UID Object	1
2006.33.176	SE	0-12 inches	Lead	UID spout	1
2006.33.180	SE	12-24 inches	Antimony	Ingot fragment	45
2006.33.180	SE	12-24 inches	Ceramic	Pipe bowl, decorated rim	8
2006.33.180	SE	12-24 inches	Ceramic	Pipe bowl, plain body	2
2006.33.180	SE	12-24 inches	Ceramic	Pipe stem, plain	40
2006.33.180	SE	12-24 inches	Ceramic	Pipe stem, rouletted	5
2006.33.180	SE	12-24 inches	Copper alloy	Button links	3
2006.33.180	SE	12-24 inches	Copper alloy	Rivet / eyelet	4
2006.33.180	SE	12-24 inches	Copper alloy	Straight pin	25
2006.33.180	SE	12-24 inches	Copper alloy	Table, cutlery; Fork	1
2006.33.180	SE	12-24 inches	Copper alloy	Tack	1
2006.33.180	SE	12-24 inches	Glass	Case Bottles	1
2006.33.180	SE	12-24 inches	Glass	Glass Lens Fragment; Circle/bi-convex	1
2006.33.180	SE	12-24 inches	Glass	Glass, faceted stone; clear	9
2006.33.180	SE	12-24 inches	Glass	Linen Smoother	2
2006.33.180	SE	12-24 inches	Glass	Round wine bottles	11
2006.33.180	SE	12-24 inches	Glass	Window Glass	39
2006.33.184	SE	24 inches - sterile	Antimony	Ingot fragment	3
2006.33.184	SE	24 inches - sterile	Antimony	Ingot whole	1
2006.33.184	SE	24 inches - sterile	Ceramic	Pipe bowl, decorated rim	2
2006.33.184	SE	24 inches - sterile	Ceramic	Pipe stem, plain	19
2006.33.184	SE	24 inches - sterile	Ceramic	Pipe stem, rouletted	3
2006.33.184	SE	24 inches - sterile	Earthenware	Tin-glazed Purple earthenware	1
2006.33.184	SE	24 inches - sterile	Copper alloy	Rivet / eyelet	2

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.184	SE	24 inches - sterile	Copper alloy	Straight pin	81
2006.33.184	SE	24 inches - sterile	Glass	Case Bottles	1
2006.33.184	SE	24 inches - sterile	Glass	Round wine bottles	3
2006.33.184	SE	24 inches - sterile	Glass	Window Glass	9
2006.33.184	SE	24 inches - sterile	Lead	Ingot fragment	1
2006.33.184	SE	24 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	1
2006.33.184	SE	24 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	3
2006.33.184	SE	24 inches - sterile	Stoneware	Stoneware mineral water body	1
2006.33.180	SE	12-24 inches	Copper alloy	UID Object	5
2006.33.180	SE	12-24 inches	Glass	UID glass	1
2006.33.184	SE	24 inches - sterile	Copper alloy	UID Object	5
2006.33.173	SW	0-12 inches	Bone	Domino	1
2006.33.173	SW	0-12 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.173	SW	0-12 inches	Ceramic	Pipe bowl, plain body	4
2006.33.173	SW	0-12 inches	Ceramic	Pipe bowl, rouletted body	2
2006.33.173	SW	0-12 inches	Ceramic	Pipe stem, plain	26
2006.33.173	SW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	2
2006.33.173	SW	0-12 inches	Glass	Case Bottles	2
2006.33.173	SW	0-12 inches	Glass	Round wine bottles	4
2006.33.173	SW	0-12 inches	Glass	Window Glass	19
2006.33.173	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	10
2006.33.173	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.173	SW	0-12 inches	Stoneware	Stoneware mineral water body	3
2006.33.173	SW	0-12 inches	Wood	UID Cooperage	1
2006.33.177	SW	12-24 inches	Antimony	Ingot fragment	31
2006.33.177	SW	12-24 inches	Bone	Domino	1
2006.33.177	SW	12-24 inches	Ceramic	Pipe bowl, decorated rim	64
2006.33.177	SW	12-24 inches	Ceramic	Pipe bowl, plain body	87
2006.33.177	SW	12-24 inches	Ceramic	Pipe bowl, plain rim	1
2006.33.177	SW	12-24 inches	Ceramic	Pipe stem, decorated	2
2006.33.177	SW	12-24 inches	Ceramic	Pipe stem, plain	376
2006.33.177	SW	12-24 inches	Ceramic	Pipe stem, rouletted	46

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.177	SW	12-24 inches	Ceramic	Tile, tin glazed	1
2006.33.177	SW	12-24 inches	Coarse earthenware	Lead-glazed coarse earthenware	2
2006.33.177	SW	12-24 inches	Earthenware	Tin-glazed Blue earthenware	2
2006.33.177	SW	12-24 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.177	SW	12-24 inches	Earthenware	Tin-glazed Polychrome earthenware	2
2006.33.177	SW	12-24 inches	Felt	Felt Fragment	1
2006.33.177	SW	12-24 inches	Glass	Case Bottles	17
2006.33.177	SW	12-24 inches	Glass	Glass, faceted stone; clear	2
2006.33.177	SW	12-24 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	2
2006.33.177	SW	12-24 inches	Glass	Modern beer bottle, green; 20th Century beer (Rolling rock), curved	1
2006.33.177	SW	12-24 inches	Glass	Round other bottles	3
2006.33.177	SW	12-24 inches	Glass	Round wine bottles	15
2006.33.177	SW	12-24 inches	Glass	Window Glass	77
2006.33.177	SW	12-24 inches	Leather	Heel	1
2006.33.177	SW	12-24 inches	Leather	Heel Quarter	1
2006.33.177	SW	12-24 inches	Leather	Heel Waist	1
2006.33.177	SW	12-24 inches	Leather	Heel Waist Outsole Insole	1
2006.33.177	SW	12-24 inches	Leather	Leather Fragments (18)	1
2006.33.177	SW	12-24 inches	Leather	Toe Outsole Insole	2
2006.33.177	SW	12-24 inches	Pewter	Finial	1
2006.33.177	SW	12-24 inches	Pewter	Miniature, domestic ware	1
2006.33.177	SW	12-24 inches	Porcelain	Porcelain	1
2006.33.177	SW	12-24 inches	Refined earthenware	Creamware	3
2006.33.177	SW	12-24 inches	Stoneware	Brown salt-glazed stoneware bottle	20
2006.33.177	SW	12-24 inches	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.177	SW	12-24 inches	Stoneware	Stoneware mineral water body	22
2006.33.177	SW	12-24 inches	Stoneware	Stoneware, other	1
2006.33.177	SW	12-24 inches		Unknown/Holder?	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.177	SW	12-24 inches	Glass	UID glass	6
2006.33.177	SW	12-24 inches	Wood	UID Object	25
2006.33.181	SW	24 inches - sterile	Antimony	Ingot fragment	32
2006.33.181	SW	24 inches - sterile	Ceramic	Brick fragment	1
2006.33.181	SW	24 inches - sterile	Ceramic	Pipe bowl, decorated rim	29
2006.33.181	SW	24 inches - sterile	Ceramic	Pipe bowl, plain body	16
2006.33.181	SW	24 inches - sterile	Ceramic	Pipe stem, plain	159
2006.33.181	SW	24 inches - sterile	Ceramic	Pipe stem, rouletted	18
2006.33.181	SW	24 inches - sterile	Earthenware	Tin-glazed Blue earthenware	3
2006.33.181	SW	24 inches - sterile	Earthenware	Tin-glazed Plain earthenware	3
2006.33.181	SW	24 inches - sterile	Earthenware	Tin-glazed Purple earthenware	1
2006.33.181	SW	24 inches - sterile	Copper alloy	Button	1
2006.33.181	SW	24 inches - sterile	Felt	Felt Fragment	1
2006.33.181	SW	24 inches - sterile	Ferrous	Shot	1
2006.33.181	SW	24 inches - sterile	Glass	Case Bottles	19
2006.33.181	SW	24 inches - sterile	Glass	Glass, faceted stone; clear	3
2006.33.181	SW	24 inches - sterile	Glass	Round other bottles	1
2006.33.181	SW	24 inches - sterile	Glass	Round wine bottles	5
2006.33.181	SW	24 inches - sterile	Glass	Window Glass	69
2006.33.181	SW	24 inches - sterile	Lead	Fishing sinker	1
2006.33.181	SW	24 inches - sterile	Leather	Insole	1
2006.33.181	SW	24 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	6
2006.33.181	SW	24 inches - sterile	Stoneware	Stoneware mineral water body	5
2006.33.181	SW	24 inches - sterile	Stoneware	Stoneware mineral water body with marks	1
2006.33.181	SW	24 inches - sterile	Glass	UID glass	1
2006.33.181	SW	24 inches - sterile	Wood	UID Object	6

TEST UNIT N75/E70

Table E-12. Stratigraphy of Test Unit N75/E70.

Depth (from seafloor surface)	Sediment
0-2 inches	Modern sand, overburden
2-12 inches	Clay, mud
12-24 inches	Shell hash, sand
24 inches	Sterile sand

Table E-13. Artifact Assemblage recovered from the Southwest Quadrant of Test Unit N75/E70.

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.187	NE	0-12 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.187	NE	0-12 inches	Ceramic	Pipe bowl, plain body	4
2006.33.187	NE	0-12 inches	Ceramic	Pipe stem, plain	14
2006.33.187	NE	0-12 inches	Ceramic	Pipe stem, rouletted	5
2006.33.187	NE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	4
2006.33.187	NE	0-12 inches	Earthenware	Tin-glazed Plain earthenware	2
2006.33.187	NE	0-12 inches	Glass	Modern glass, clear; molded pattern, curved	1
2006.33.187	NE	0-12 inches	Glass	Round other bottles	4
2006.33.187	NE	0-12 inches	Glass	Round wine bottles	4
2006.33.187	NE	0-12 inches	Glass	Window Glass	9
2006.33.187	NE	0-12 inches	Pewter	Button, sleeve	1
2006.33.187	NE	0-12 inches	Refined earthenware	Creamware	1
2006.33.187	NE	0-12 inches	Steel	Crown cap; Heineken	1
2006.33.187	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	9
2006.33.187	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	2
2006.33.187	NE	0-12 inches	Stoneware	Dry-bodied stoneware	1
2006.33.187	NE	0-12 inches	Stoneware	Stoneware mineral water body	2
2006.33.187	NE	0-12 inches	Wood	UID Object	1
2006.33.191	NE	12 inches - sterile	Antimony	Ingot fragment	6
2006.33.191	NE	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	4
2006.33.191	NE	12 inches - sterile	Ceramic	Pipe bowl, plain body	5
2006.33.191	NE	12 inches - sterile	Ceramic	Pipe stem, plain	37
2006.33.191	NE	12 inches - sterile	Ceramic	Pipe stem, rouletted	4
2006.33.191	NE	12 inches - sterile	Coarse earthenware	Lead-glazed coarse earthenware	1
2006.33.191	NE	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	7
2006.33.191	NE	12 inches - sterile	Earthenware	Tin-glazed Plain earthenware	1
2006.33.191	NE	12 inches - sterile	Glass	Case Bottles	12
2006.33.191	NE	12 inches - sterile	Glass	Glass, faceted stone; clear	3
2006.33.191	NE	12 inches - sterile	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.191	NE	12 inches - sterile	Glass	Round wine bottles	11
2006.33.191	NE	12 inches - sterile	Glass	UID glass	3
2006.33.191	NE	12 inches - sterile	Glass	Window Glass	29
2006.33.191	NE	12 inches - sterile	Refined earthenware	Creamware	15
2006.33.191	NE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	57
2006.33.191	NE	12 inches - sterile	Stoneware	Stoneware mineral water body	7
2006.33.191	NE	12 inches - sterile	Stoneware	Stoneware, other	1
2006.33.186	NW	0-12 inches	Antimony	Ingot fragment	24
2006.33.186	NW	0-12 inches	Bone	Domino	1
2006.33.186	NW	0-12 inches	Ceramic	Pipe bowl, decorated rim	4
2006.33.186	NW	0-12 inches	Ceramic	Pipe bowl, plain body	4
2006.33.186	NW	0-12 inches	Ceramic	Pipe stem, plain	40
2006.33.186	NW	0-12 inches	Ceramic	Pipe stem, rouletted	7
2006.33.186	NW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	14
2006.33.186	NW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	4
2006.33.186	NW	0-12 inches	Earthenware	Tin-glazed Purple earthenware	2
2006.33.186	NW	0-12 inches	Copper alloy	Straight pin	3
2006.33.186	NW	0-12 inches	Glass	Case Bottles	8
2006.33.186	NW	0-12 inches	Glass	Round wine bottles	20
2006.33.186	NW	0-12 inches	Glass	UID glass	1
2006.33.186	NW	0-12 inches	Glass	UID glass; green, rounded rim - may be modern?; curved	1
2006.33.186	NW	0-12 inches	Glass	Window Glass	17
2006.33.186	NW	0-12 inches	Glass	Window glass fragment	1
2006.33.186	NW	0-12 inches	Lithic	Slate fragment	1
2006.33.186	NW	0-12 inches	Organic	Chalk fragments	2
2006.33.186	NW	0-12 inches	Organic	Coal fragment	1
2006.33.186	NW	0-12 inches	Pewter	Buckle, shoe	1
2006.33.186	NW	0-12 inches	Pewter	Miniature, domestic ware	1
2006.33.186	NW	0-12 inches	Pewter	UID Object	3
2006.33.186	NW	0-12 inches	Refined earthenware	Creamware	20
2006.33.186	NW	0-12 inches	Stoneware	Brown salt glazed stoneware neck sherd	1
2006.33.186	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	47
2006.33.186	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	5
2006.33.186	NW	0-12 inches	Stoneware	German blue and gray stoneware	1
2006.33.186	NW	0-12 inches	Stoneware	Stoneware mineral water body	8
2006.33.186	NW	0-12 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.190	NW	12 inches - sterile	Antimony	Ingot fragment	17
2006.33.190	NW	12 inches - sterile	Ceramic	Brick fragment	2

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.190	NW	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	13
2006.33.190	NW	12 inches - sterile	Ceramic	Pipe bowl, plain body	14
2006.33.190	NW	12 inches - sterile	Ceramic	Pipe stem, plain	99
2006.33.190	NW	12 inches - sterile	Ceramic	Pipe stem, rouletted	2
2006.33.190	NW	12 inches - sterile	Coarse earthenware	Lead-glazed coarse earthenware	1
2006.33.190	NW	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	14
2006.33.190	NW	12 inches - sterile	Earthenware	Tin-glazed Plain earthenware	3
2006.33.190	NW	12 inches - sterile	Earthenware	Tin-glazed Purple earthenware	2
2006.33.190	NW	12 inches - sterile	Copper alloy	Straight pin	11
2006.33.190	NW	12 inches - sterile	Copper alloy	Table, cutlery; Fork	1
2006.33.190	NW	12 inches - sterile	Copper alloy	UID Object	1
2006.33.190	NW	12 inches - sterile	Glass	Case Bottles	12
2006.33.190	NW	12 inches - sterile	Glass	Round wine bottles	15
2006.33.190	NW	12 inches - sterile	Glass	UID kitchen glass	1
2006.33.190	NW	12 inches - sterile	Glass	Window Glass	1
2006.33.190	NW	12 inches - sterile	Refined earthenware	Creamware	32
2006.33.190	NW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	123
2006.33.190	NW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	15
2006.33.190	NW	12 inches - sterile	Stoneware	Stoneware mineral water body	24
2006.33.190	NW	12 inches - sterile	Stoneware	Stoneware mineral water body with marks	2
2006.33.190	NW	12 inches - sterile	Wood	UID Object	11
2006.33.188	SE	0-12 inches	Antimony	Ingot fragment	6
2006.33.188	SE	0-12 inches	Ceramic	Pipe bowl, decorated rim	2
2006.33.188	SE	0-12 inches	Ceramic	Pipe stem, plain	17
2006.33.188	SE	0-12 inches	Ceramic	Pipe stem, rouletted	4
2006.33.188	SE	0-12 inches	Ceramic	Tile, lead glazed	1
2006.33.188	SE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	1
2006.33.188	SE	0-12 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.188	SE	0-12 inches	Earthenware	Tin-glazed Purple earthenware	1
2006.33.188	SE	0-12 inches	Copper alloy	Button	2
2006.33.188	SE	0-12 inches	Copper alloy	Kettle / cooking pot handle	1
2006.33.188	SE	0-12 inches	Copper alloy	Spigot key	1
2006.33.188	SE	0-12 inches	Copper alloy	Straight pin	158
2006.33.188	SE	0-12 inches	Copper alloy	UID Object	3
2006.33.188	SE	0-12 inches	Glass	Case Bottles	2
2006.33.188	SE	0-12 inches	Glass	Glass, faceted stone; clear	2
2006.33.188	SE	0-12 inches	Glass	Modern glass, clear; molded curved	4
2006.33.188	SE	0-12 inches	Glass	Round wine bottles	5
2006.33.188	SE	0-12 inches	Glass	Window Glass	17

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.188	SE	0-12 inches	Mineral	Possible non-cultural	2
2006.33.188	SE	0-12 inches	Refined earthenware	Creamware	2
2006.33.188	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	25
2006.33.188	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	4
2006.33.188	SE	0-12 inches	Stoneware	Stoneware mineral water body	8
2006.33.188	SE	0-12 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.192	SE	12 inches - sterile	Antimony	Ingot fragment	4
2006.33.192	SE	12 inches - sterile	Ceramic	Brick fragment	1
2006.33.192	SE	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	11
2006.33.192	SE	12 inches - sterile	Ceramic	Pipe bowl, plain body	9
2006.33.192	SE	12 inches - sterile	Ceramic	Pipe stem, plain	74
2006.33.192	SE	12 inches - sterile	Ceramic	Pipe stem, rouletted	4
2006.33.192	SE	12 inches - sterile	Coarse earthenware	Lead-glazed coarse earthenware	1
2006.33.192	SE	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	15
2006.33.192	SE	12 inches - sterile	Earthenware	Tin-glazed Plain earthenware	2
2006.33.192	SE	12 inches - sterile	Earthenware	Tin-glazed Purple earthenware	1
2006.33.192	SE	12 inches - sterile	Copper alloy	Curtain ring	1
2006.33.192	SE	12 inches - sterile	Copper alloy	Eyelet for hook	1
2006.33.192	SE	12 inches - sterile	Copper alloy	Kettle /cooking pot handle	1
2006.33.192	SE	12 inches - sterile	Copper alloy	Straight pin	32
2006.33.192	SE	12 inches - sterile	Copper alloy	UID Object	4
2006.33.192	SE	12 inches - sterile	Glass	Case Bottles	22
2006.33.192	SE	12 inches - sterile	Glass	Glass, faceted stone; clear	8
2006.33.192	SE	12 inches - sterile	Glass	Modern glass, clear/amethyst; appears modern ; early 20th Century?, flat	2
2006.33.192	SE	12 inches - sterile	Glass	Round wine bottles	32
2006.33.192	SE	12 inches - sterile	Glass	UID glass	6
2006.33.192	SE	12 inches - sterile	Glass	Window Glass	103
2006.33.192	SE	12 inches - sterile	Pewter	Button, sleeve	1
2006.33.192	SE	12 inches - sterile	Pewter	Thimble case	1
2006.33.192	SE	12 inches - sterile	Refined earthenware	Creamware	34
2006.33.192	SE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	85
2006.33.192	SE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	5
2006.33.192	SE	12 inches - sterile	Stoneware	Stoneware mineral water body	25
2006.33.192	SE	12 inches - sterile	Stoneware	Stoneware, other	6
2006.33.192	SE	12 inches - sterile	Undetermined	UID Object	8
2006.33.185	SW	0-12 inches	Antimony	Ingot fragment	47
2006.33.185	SW	0-12 inches	Bone	Domino	1
2006.33.185	SW	0-12 inches	Ceramic	Pipe bowl, decorated body	1
2006.33.185	SW	0-12 inches	Ceramic	Pipe bowl, decorated rim	27
2006.33.185	SW	0-12 inches	Ceramic	Pipe bowl, plain body	29

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.185	SW	0-12 inches	Ceramic	Pipe stem, plain	129
2006.33.185	SW	0-12 inches	Ceramic	Pipe stem, rouletted	22
2006.33.185	SW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	23
2006.33.185	SW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	27
2006.33.185	SW	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	7
2006.33.185	SW	0-12 inches	Earthenware	Tin-glazed Purple earthenware	10
2006.33.185	SW	0-12 inches	Copper alloy	Bell	1
2006.33.185	SW	0-12 inches	Copper alloy	Button links	6
2006.33.185	SW	0-12 inches	Copper alloy	Button, sleeve	1
2006.33.185	SW	0-12 inches	Copper alloy	Curtain tie back	1
2006.33.185	SW	0-12 inches	Copper alloy	Rivet	1
2006.33.185	SW	0-12 inches	Copper alloy	Straight pin	471
2006.33.185	SW	0-12 inches	Copper alloy	UID Object	3
2006.33.185	SW	0-12 inches	Copper alloy	Watch key	1
2006.33.185	SW	0-12 inches	Ferrous	Shot	1
2006.33.185	SW	0-12 inches	Glass	Case Bottles	26
2006.33.185	SW	0-12 inches	Glass	Glass Lens Fragment; Circular/Bi-convex	1
2006.33.185	SW	0-12 inches	Glass	Glass Lens Fragment; Circular/Convex	1
2006.33.185	SW	0-12 inches	Glass	Glass, faceted bead; cranberry	419
2006.33.185	SW	0-12 inches	Glass	Glass, faceted stone; blue	1
2006.33.185	SW	0-12 inches	Glass	Glass, faceted stone; clear	34
2006.33.185	SW	0-12 inches	Glass	Glass, faceted stone; green	1
2006.33.185	SW	0-12 inches	Glass	Round other bottles	6
2006.33.185	SW	0-12 inches	Glass	Round wine bottles	41
2006.33.185	SW	0-12 inches	Glass	Stemmed glassware	2
2006.33.185	SW	0-12 inches	Glass	Tumbler	3
2006.33.185	SW	0-12 inches	Glass	UID glass	10
2006.33.185	SW	0-12 inches	Glass	Wall sconce/chandelier part	1
2006.33.185	SW	0-12 inches	Glass	Window Glass	137
2006.33.185	SW	0-12 inches	Lead	Fishing sinker	1
2006.33.185	SW	0-12 inches	Lead	Thimble case	1
2006.33.185	SW	0-12 inches	Lead	UID Object	1
2006.33.185	SW	0-12 inches	Lead	UID spout	1
2006.33.185	SW	0-12 inches	Pewter	Finial	1
2006.33.185	SW	0-12 inches	Pewter	Miniature, domestic ware	3
2006.33.185	SW	0-12 inches	Pewter	Miniature, miscellaneous	1
2006.33.185	SW	0-12 inches	Pewter	Miniature, watch	3
2006.33.185	SW	0-12 inches	Pewter	Thimble	1
2006.33.185	SW	0-12 inches	Pewter	Thimble case	3
2006.33.185	SW	0-12 inches	Porcelain	Porcelain	3

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.185	SW	0-12 inches	Refined earthenware	Creamware	28
2006.33.185	SW	0-12 inches	Stone	Slate	2
2006.33.185	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	106
2006.33.185	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	12
2006.33.185	SW	0-12 inches	Stoneware	Stoneware mineral water body	47
2006.33.185	SW	0-12 inches	Stoneware	Stoneware mineral water body with marks	2
2006.33.189	SW	12 inches - sterile	Ceramic	Brick fragment	1
2006.33.189	SW	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	9
2006.33.189	SW	12 inches - sterile	Ceramic	Pipe bowl, plain body	7
2006.33.189	SW	12 inches - sterile	Ceramic	Pipe stem, plain	67
2006.33.189	SW	12 inches - sterile	Ceramic	Pipe stem, rouletted	4
2006.33.189	SW	12 inches - sterile	Ceramic	Whole Brick	1
2006.33.189	SW	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	20
2006.33.189	SW	12 inches - sterile	Earthenware	Tin-glazed Plain earthenware	12
2006.33.189	SW	12 inches - sterile	Earthenware	Tin-glazed Polychrome earthenware	4
2006.33.189	SW	12 inches - sterile	Earthenware	Tin-glazed Purple earthenware	6
2006.33.189	SW	12 inches - sterile	Copper alloy	Nail	1
2006.33.189	SW	12 inches - sterile	Copper alloy	Straight pin	143
2006.33.189	SW	12 inches - sterile	Copper alloy	UID object	10
2006.33.189	SW	12 inches - sterile	Glass	Case Bottles	24
2006.33.189	SW	12 inches - sterile	Glass	Glass, faceted stone; clear	12
2006.33.189	SW	12 inches - sterile	Glass	Round wine bottles	20
2006.33.189	SW	12 inches - sterile	Glass	UID glass	14
2006.33.189	SW	12 inches - sterile	Glass	Window Glass	41
2006.33.189	SW	12 inches - sterile	Lead	UID Object	1
2006.33.189	SW	12 inches - sterile	Pewter	Miniature, domestic ware	1
2006.33.189	SW	12 inches - sterile	Pewter	Miniature, watch	1
2006.33.189	SW	12 inches - sterile	Pewter	Table, cutlery; Spoon	1
2006.33.189	SW	12 inches - sterile	Pewter	Thimble	3
2006.33.189	SW	12 inches - sterile	Pewter	Thimble case	3
2006.33.189	SW	12 inches - sterile	Porcelain	Porcelain	1
2006.33.189	SW	12 inches - sterile	Refined earthenware	Creamware	26
2006.33.189	SW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	66
2006.33.189	SW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	4
2006.33.189	SW	12 inches - sterile	Stoneware	Dry-bodied stoneware	2
2006.33.189	SW	12 inches - sterile	Stoneware	Stoneware mineral water body	27
2006.33.189	SW	12 inches - sterile	Stoneware	Stoneware, other	2
2006.33.189	SW	12 inches - sterile	Stoneware	White salt-glazed stoneware	1
2006.33.189	SW	12 inches - sterile	Undetermined	Possible non-cultural	1
2006.33.189	SW	12 inches - sterile	Wood	UID Object	8

TEST UNIT N75/E80

Table E-14. Stratigraphy of Test Unit N75/E80.

Depth (from seafloor surface)	Sediment
0-2 inches	Modern sand overburden
2-12 inches	Clay, mud
12-24 inches	Shell hash
24 inches	Sterile sand

Table E-15. Artifact Assemblage recovered from the Southwest Quadrant of Test Unit N75/E80.

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.195	NE	0-12 inches	Bone	Domino	1
2006.33.195	NE	0-12 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.195	NE	0-12 inches	Ceramic	Pipe bowl, plain body	2
2006.33.195	NE	0-12 inches	Ceramic	Pipe stem, plain	4
2006.33.195	NE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	4
2006.33.195	NE	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	1
2006.33.195	NE	0-12 inches	Glass	Case Bottles	3
2006.33.195	NE	0-12 inches	Glass	Round wine bottles	4
2006.33.195	NE	0-12 inches	Glass	Window Glass	14
2006.33.195	NE	0-12 inches	Pewter	Miniature, miscellaneous	1
2006.33.195	NE	0-12 inches	Pewter	UID Object	1
2006.33.195	NE	0-12 inches	Refined earthenware	Creamware	2
2006.33.195	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	15
2006.33.195	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	3
2006.33.195	NE	0-12 inches	Stoneware	German blue and gray stoneware	1
2006.33.195	NE	0-12 inches	Stoneware	Stoneware mineral water body	4
2006.33.199	NE	12 inches - sterile	Ceramic	Pipe stem, plain	4
2006.33.199	NE	12 inches - sterile	Coarse earthenware	Frankfurter ware	1
2006.33.199	NE	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	5
2006.33.199	NE	12 inches - sterile	Copper alloy	Nail	1
2006.33.199	NE	12 inches - sterile	Copper alloy	Nail	1
2006.33.199	NE	12 inches - sterile	Glass	Case Bottles	2
2006.33.199	NE	12 inches - sterile	Glass	Round wine bottles	4
2006.33.199	NE	12 inches - sterile	Glass	Window Glass	25
2006.33.199	NE	12 inches - sterile	Refined earthenware	Creamware	7
2006.33.199	NE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	17
2006.33.199	NE	12 inches - sterile	Stoneware	Stoneware mineral water body	2
2006.33.194	NW	0-12 inches	Glass	Window Glass	1
2006.33.194	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	10

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.194	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	3
2006.33.194	NW	0-12 inches	Stoneware	Stoneware mineral water body	2
2006.33.198	NW	12 inches - sterile	Antimony	Chunk	4
2006.33.198	NW	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	1
2006.33.198	NW	12 inches - sterile	Ceramic	Pipe bowl, plain body	2
2006.33.198	NW	12 inches - sterile	Ceramic	Pipe stem, plain	15
2006.33.198	NW	12 inches - sterile	Ceramic	Pipe stem, rouletted	5
2006.33.198	NW	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	5
2006.33.198	NW	12 inches - sterile	Copper alloy	Button, sleeve	1
2006.33.198	NW	12 inches - sterile	Copper alloy	Rivet	1
2006.33.198	NW	12 inches - sterile	Copper alloy	Thimble	1
2006.33.198	NW	12 inches - sterile	Glass	Case Bottles	3
2006.33.198	NW	12 inches - sterile	Glass	Glass, faceted stone; clear	1
2006.33.198	NW	12 inches - sterile	Glass	Round wine bottles	18
2006.33.198	NW	12 inches - sterile	Glass	Window Glass	8
2006.33.198	NW	12 inches - sterile	Pewter	Button	1
2006.33.198	NW	12 inches - sterile	Pewter	UID Object	1
2006.33.198	NW	12 inches - sterile	Refined earthenware	Creamware	5
2006.33.198	NW	12 inches - sterile	Steel	Fishing lure, part	1
2006.33.198	NW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	24
2006.33.198	NW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.198	NW	12 inches - sterile	Stoneware	Stoneware mineral water body	12
2006.33.198	NW	12 inches - sterile		Thread Case?	1
2006.33.196	SE	0-12 inches	Antimony	Ingot fragment	1
2006.33.196	SE	0-12 inches	Ceramic	Pipe bowl, plain body	1
2006.33.196	SE	0-12 inches	Ceramic	Pipe stem, plain	7
2006.33.196	SE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	1
2006.33.196	SE	0-12 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.196	SE	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	1
2006.33.196	SE	0-12 inches	Earthenware	Tin-glazed Purple earthenware	2
2006.33.196	SE	0-12 inches	Copper alloy	Button	2
2006.33.196	SE	0-12 inches	Copper alloy	UID Object	1
2006.33.196	SE	0-12 inches	Glass	Case Bottles	15
2006.33.196	SE	0-12 inches	Glass	Glass, faceted stone; clear	1
2006.33.196	SE	0-12 inches	Glass	Glass, faceted stone; pink	1
2006.33.196	SE	0-12 inches	Glass	Round wine bottles	7
2006.33.196	SE	0-12 inches	Glass	Tumbler	1
2006.33.196	SE	0-12 inches	Glass	UID glass	5
2006.33.196	SE	0-12 inches	Glass	Window Glass	63
2006.33.196	SE	0-12 inches	Organic	UID Seed	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.196	SE	0-12 inches	Refined earthenware	Creamware	5
2006.33.196	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	17
2006.33.196	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.196	SE	0-12 inches	Stoneware	Stoneware mineral water body	6
2006.33.196	SE	0-12 inches	Wood	UID object	3
2006.33.200	SE	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	1
2006.33.200	SE	12 inches - sterile	Ceramic	Pipe bowl, plain body	1
2006.33.200	SE	12 inches - sterile	Ceramic	Pipe stem, plain	5
2006.33.200	SE	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	9
2006.33.200	SE	12 inches - sterile	Glass	Case Bottles	3
2006.33.200	SE	12 inches - sterile	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	3
2006.33.200	SE	12 inches - sterile	Glass	Round wine bottles	5
2006.33.200	SE	12 inches - sterile	Glass	UID glass	1
2006.33.200	SE	12 inches - sterile	Glass	Window Glass	40
2006.33.200	SE	12 inches - sterile	Refined earthenware	Creamware	6
2006.33.200	SE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	18
2006.33.200	SE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	4
2006.33.200	SE	12 inches - sterile	Stoneware	Stoneware mineral water body	1
2006.33.200	SE	12 inches - sterile	Wood	UID Object	4
2006.33.193	SW	0-12 inches	Antimony	Ingot fragment	6
2006.33.193	SW	0-12 inches	Bone	4-Hole Button	1
2006.33.193	SW	0-12 inches	Bone	Button disc	1
2006.33.193	SW	0-12 inches	Bone	Turned bone button / disc, obverse flat w/ beveled edges, t/s line, row of other lines visible cutting across face, reverse partially concave, tooling marks visible, two iron loops present, one survives, four ends are visible on face	1
2006.33.193	SW	0-12 inches	Ceramic	Brick fragment	1
2006.33.193	SW	0-12 inches	Ceramic	Pipe bowl, decorated rim	5
2006.33.193	SW	0-12 inches	Ceramic	Pipe bowl, plain body	2
2006.33.193	SW	0-12 inches	Ceramic	Pipe stem, decorated	1
2006.33.193	SW	0-12 inches	Ceramic	Pipe stem, plain	25
2006.33.193	SW	0-12 inches	Ceramic	Pipe stem, rouletted	6
2006.33.193	SW	0-12 inches	Coarse earthenware	Frankfurter ware	2
2006.33.193	SW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	8
2006.33.193	SW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	3
2006.33.193	SW	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	1
2006.33.193	SW	0-12 inches	Copper alloy	Button	4
2006.33.193	SW	0-12 inches	Copper alloy	Button, sleeve	1
2006.33.193	SW	0-12 inches	Copper alloy	Curtain ring	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.193	SW	0-12 inches	Copper alloy	Knob / finial	1
2006.33.193	SW	0-12 inches	Copper alloy	Nail	2
2006.33.193	SW	0-12 inches	Copper alloy	Straight pin	8
2006.33.193	SW	0-12 inches	Copper alloy	UID Object	5
2006.33.193	SW	0-12 inches	Glass	Case Bottles	20
2006.33.193	SW	0-12 inches	Glass	Glass Lens Fragment; circular/bi-convex	3
2006.33.193	SW	0-12 inches	Glass	Round wine bottles	20
2006.33.193	SW	0-12 inches	Glass	UID glass	8
2006.33.193	SW	0-12 inches	Glass	Window Glass	48
2006.33.193	SW	0-12 inches	Lead	Sheath	1
2006.33.193	SW	0-12 inches	Pewter	Buckle, shoe	1
2006.33.193	SW	0-12 inches	Pewter	Miniature, domestic ware	1
2006.33.193	SW	0-12 inches	Refined earthenware	Creamware	27
2006.33.193	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	52
2006.33.193	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	13
2006.33.193	SW	0-12 inches	Stoneware	German blue and gray stoneware	1
2006.33.193	SW	0-12 inches	Stoneware	Stoneware mineral water body	10
2006.33.197	SW	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	2
2006.33.197	SW	12 inches - sterile	Ceramic	Pipe bowl, plain body	1
2006.33.197	SW	12 inches - sterile	Ceramic	Pipe stem, plain	10
2006.33.197	SW	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	5
2006.33.197	SW	12 inches - sterile	Earthenware	Tin-glazed Purple earthenware	1
2006.33.197	SW	12 inches - sterile	Copper alloy	Button, sleeve	3
2006.33.197	SW	12 inches - sterile	Copper alloy	UID Object	34
2006.33.197	SW	12 inches - sterile	Copper alloy & Pewter	Button	1
2006.33.197	SW	12 inches - sterile	Glass	Case Bottles	8
2006.33.197	SW	12 inches - sterile	Glass	Glass, faceted stone; blue	1
2006.33.197	SW	12 inches - sterile	Glass	Glass, faceted stone; clear	1
2006.33.197	SW	12 inches - sterile	Glass	Glass, flat button insert; Oval; clear	2
2006.33.197	SW	12 inches - sterile	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	5
2006.33.197	SW	12 inches - sterile	Glass	Modern glass, clear; Rim - kerosene lamp chimney, curved	1
2006.33.197	SW	12 inches - sterile	Glass	Round wine bottles	2
2006.33.197	SW	12 inches - sterile	Glass	UID glass	2
2006.33.197	SW	12 inches - sterile	Glass	Window Glass	20
2006.33.197	SW	12 inches - sterile	Lead	UID Object	1
2006.33.197	SW	12 inches - sterile	Pewter	Miniature, watch	1
2006.33.197	SW	12 inches - sterile	Plastic	Plastic; curved brown sherd - looks like a "Coffee Mate" jar,	1
2006.33.197	SW	12 inches - sterile	Refined earthenware	Creamware	5

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.197	SW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	35
2006.33.197	SW	12 inches - sterile	Stoneware	Stoneware mineral water body	6

TEST UNIT N10/E50

Table E-16. Stratigraphy of Test Unit N10/E50.

Depth (from seafloor surface)	Sediment
0-4 inches	Modern sand, overburden
4-6 inches	Clay, mud
6-12 inches	Shell hash
12 inches	Sterile sand

Table E-17. Artifact Assemblage recovered from the Southwest Quadrant of Test Unit N10/E50.

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.203	NE	0-12 inches	Bone	4-Hole Button	1
2006.33.203	NE	0-12 inches	Ceramic	Brick fragment	44
2006.33.203	NE	0-12 inches	Ceramic	Pipe bowl, decorated rim	13
2006.33.203	NE	0-12 inches	Ceramic	Pipe bowl, plain body	1
2006.33.203	NE	0-12 inches	Ceramic	Pipe stem, plain	56
2006.33.203	NE	0-12 inches	Ceramic	Pipe stem, rouletted	13
2006.33.203	NE	0-12 inches	Ceramic	Tile, unglazed	1
2006.33.203	NE	0-12 inches	Coarse earthenware	Frankfurter ware	12
2006.33.203	NE	0-12 inches	Coarse earthenware	Lead-glazed coarse earthenware	3
2006.33.203	NE	0-12 inches	Coarse earthenware	Slip decorated coarse earthenware	2
2006.33.203	NE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	14
2006.33.203	NE	0-12 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.203	NE	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	2
2006.33.203	NE	0-12 inches	Earthenware	Tin-glazed Purple earthenware	2
2006.33.203	NE	0-12 inches	Copper alloy	Buckle	1
2006.33.203	NE	0-12 inches	Copper alloy	Hook /fastener	1
2006.33.203	NE	0-12 inches	Copper alloy	Pen knife scale	2
2006.33.203	NE	0-12 inches	Copper alloy	Straight pin	123
2006.33.203	NE	0-12 inches	Copper alloy	Tack	1
2006.33.203	NE	0-12 inches	Copper alloy	UID object	1
2006.33.203	NE	0-12 inches	Glass	Case Bottles	338
2006.33.203	NE	0-12 inches	Glass	Decanter/pitcher	1
2006.33.203	NE	0-12 inches	Glass	Glass Lens Fragment; Circular/bi-convex	1
2006.33.203	NE	0-12 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	2
2006.33.203	NE	0-12 inches	Glass	Modern glass, clear; mold seam on 1 sherd curved	3
2006.33.203	NE	0-12 inches	Glass	Round wine bottles	28
2006.33.203	NE	0-12 inches	Glass	Stemmed glassware	6
2006.33.203	NE	0-12 inches	Glass	Tumbler	2
2006.33.203	NE	0-12 inches	Glass	UID glass	25

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.203	NE	0-12 inches	Glass	Window Glass	94
2006.33.203	NE	0-12 inches	Lead	Came	2
2006.33.203	NE	0-12 inches	Pewter	Buckle, Knee	2
2006.33.203	NE	0-12 inches	Pewter	Vessel top hinge	1
2006.33.203	NE	0-12 inches	Refined earthenware	Creamware	16
2006.33.203	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	73
2006.33.203	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	14
2006.33.203	NE	0-12 inches	Stoneware	German blue and gray stoneware	10
2006.33.203	NE	0-12 inches	Stoneware	Stoneware mineral water body	114
2006.33.203	NE	0-12 inches	Stoneware	Stoneware mineral water body with marks	3
2006.33.203	NE	0-12 inches	Undetermined	Buckle, shoe	1
2006.33.203	NE	0-12 inches	Wood	UID Object	7
2006.33.207	NE	12 inches - sterile	Ceramic	Brick fragment	73
2006.33.207	NE	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	6
2006.33.207	NE	12 inches - sterile	Ceramic	Pipe bowl, plain body	14
2006.33.207	NE	12 inches - sterile	Ceramic	Pipe stem, decorated	1
2006.33.207	NE	12 inches - sterile	Ceramic	Pipe stem, plain	72
2006.33.207	NE	12 inches - sterile	Ceramic	Pipe stem, rouletted	7
2006.33.207	NE	12 inches - sterile	Coarse earthenware	Frankfurter ware	12
2006.33.207	NE	12 inches - sterile	Coarse earthenware	Lead-glazed coarse earthenware	1
2006.33.207	NE	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	14
2006.33.207	NE	12 inches - sterile	Earthenware	Tin-glazed Plain earthenware	2
2006.33.207	NE	12 inches - sterile	Earthenware	Tin-glazed Polychrome earthenware	5
2006.33.207	NE	12 inches - sterile	Earthenware	Tin-glazed Purple earthenware	1
2006.33.207	NE	12 inches - sterile	Copper alloy	Buckle	2
2006.33.207	NE	12 inches - sterile	Copper alloy	Eyelet for hook	2
2006.33.207	NE	12 inches - sterile	Copper alloy	Hook	2
2006.33.207	NE	12 inches - sterile	Copper alloy	Pen knife scale	2
2006.33.207	NE	12 inches - sterile	Copper alloy	Spring catch	1
2006.33.207	NE	12 inches - sterile	Copper alloy	Straight pin	58
2006.33.207	NE	12 inches - sterile	Copper alloy	Tack	6
2006.33.207	NE	12 inches - sterile	Glass	Case Bottles	302
2006.33.207	NE	12 inches - sterile	Glass	Decanter/pitcher	2
2006.33.207	NE	12 inches - sterile	Glass	Glass Lens Fragment; circular/plano-convex	2
2006.33.207	NE	12 inches - sterile	Glass	Modern glass, clear; Kerosene lantern lens - Loc-Nob Pat. 12-4-2_ . - some mend, curved	8
2006.33.207	NE	12 inches - sterile	Glass	Round wine bottles	17
2006.33.207	NE	12 inches - sterile	Glass	Stemmed glassware	2
2006.33.207	NE	12 inches - sterile	Glass	Tumbler	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.207	NE	12 inches - sterile	Glass	UID glass	26
2006.33.207	NE	12 inches - sterile	Glass	Window Glass	126
2006.33.207	NE	12 inches - sterile	Lead	Came	1
2006.33.207	NE	12 inches - sterile	Lead	Scrap / off-cut	2
2006.33.207	NE	12 inches - sterile	Lithic	Possible non-cultural	1
2006.33.207	NE	12 inches - sterile	Organic	Coal	15
2006.33.207	NE	12 inches - sterile	Pewter	Miniature, domestic ware	1
2006.33.207	NE	12 inches - sterile	Porcelain	Porcelain	1
2006.33.207	NE	12 inches - sterile	Refined earthenware	Creamware	12
2006.33.207	NE	12 inches - sterile	Serpentine, black	Polished stone mortar	1
2006.33.207	NE	12 inches - sterile	Serpentine, black	Polished stone pestle	1
2006.33.207	NE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	60
2006.33.207	NE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	3
2006.33.207	NE	12 inches - sterile	Stoneware	German blue and gray stoneware	9
2006.33.207	NE	12 inches - sterile	Stoneware	Stoneware mineral water body	100
2006.33.207	NE	12 inches - sterile	Stoneware	Stoneware mineral water body with marks	6
2006.33.207	NE	12 inches - sterile	Stoneware	Stoneware, other	8
2006.33.207	NE	12 inches - sterile	Stoneware	White salt-glazed stoneware	1
2006.33.207	NE	12 inches - sterile	Wood	UID object	8
2006.33.202	NW	0-12 inches	Ceramic	Brick fragment	5
2006.33.202	NW	0-12 inches	Ceramic	Pipe bowl, decorated rim	2
2006.33.202	NW	0-12 inches	Ceramic	Pipe bowl, plain body	2
2006.33.202	NW	0-12 inches	Ceramic	Pipe stem, plain	13
2006.33.202	NW	0-12 inches	Coarse earthenware	Frankfurter ware	2
2006.33.202	NW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	6
2006.33.202	NW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	2
2006.33.202	NW	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	2
2006.33.202	NW	0-12 inches	Copper alloy	Buckle	1
2006.33.202	NW	0-12 inches	Copper alloy	Straight pin	16
2006.33.202	NW	0-12 inches	Ferrous	UID Object	1
2006.33.202	NW	0-12 inches	Glass	Case Bottles	92
2006.33.202	NW	0-12 inches	Glass	Lantern glass	1
2006.33.202	NW	0-12 inches	Glass	Round wine bottles	5
2006.33.202	NW	0-12 inches	Glass	Tumbler	3
2006.33.202	NW	0-12 inches	Glass	UID glass	10
2006.33.202	NW	0-12 inches	Glass	UID glass; clear, perhaps modern; curved	1
2006.33.202	NW	0-12 inches	Glass	Window Glass	67
2006.33.202	NW	0-12 inches	Pewter	Buckle, shoe	1
2006.33.202	NW	0-12 inches	Refined earthenware	Creamware	8

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.202	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	28
2006.33.202	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	2
2006.33.202	NW	0-12 inches	Stoneware	German blue and gray stoneware	2
2006.33.202	NW	0-12 inches	Stoneware	Stoneware mineral water body	23
2006.33.202	NW	0-12 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.202	NW	0-12 inches	Stoneware	Stoneware, other	5
2006.33.202	NW	0-12 inches	Stoneware	White salt-glazed stoneware	1
2006.33.202	NW	0-12 inches	Wood	UID Object	39
2006.33.206	NW	12 inches – sterile	Ceramic	Pipe stem, plain	3
2006.33.206	NW	12 inches – sterile	Ceramic	Pipe stem, rouletted	4
2006.33.206	NW	12 inches – sterile	Copper alloy	Button	2
2006.33.206	NW	12 inches – sterile	Copper alloy	Jetton	9
2006.33.206	NW	12 inches – sterile	Copper alloy	Straight pin	12
2006.33.206	NW	12 inches – sterile	Glass	Case Bottles	13
2006.33.206	NW	12 inches – sterile	Glass	Stemmed glassware	2
2006.33.206	NW	12 inches – sterile	Glass	Tumbler	1
2006.33.206	NW	12 inches – sterile	Glass	UID glass	1
2006.33.206	NW	12 inches – sterile	Glass	Window Glass	9
2006.33.206	NW	12 inches – sterile	Lithic	Possible non-cultural	1
2006.33.206	NW	12 inches – sterile	Refined earthenware	Creamware	2
2006.33.206	NW	12 inches – sterile	Stoneware	Brown salt-glazed stoneware bottle	6
2006.33.206	NW	12 inches – sterile	Stoneware	Stoneware mineral water body	7
2006.33.204	SE	0-12 inches	Ceramic	Brick fragment	68
2006.33.204	SE	0-12 inches	Ceramic	Pipe bowl, decorated rim	4
2006.33.204	SE	0-12 inches	Ceramic	Pipe bowl, plain body	5
2006.33.204	SE	0-12 inches	Ceramic	Pipe stem, plain	75
2006.33.204	SE	0-12 inches	Ceramic	Pipe stem, rouletted	7
2006.33.204	SE	0-12 inches	Ceramic	Tile, unglazed	2
2006.33.204	SE	0-12 inches	Coarse earthenware	Frankfurter ware	15
2006.33.204	SE	0-12 inches	Coarse earthenware	Lead-glazed coarse earthenware	4
2006.33.204	SE	0-12 inches	Coarse earthenware	Other coarse earthenware	1
2006.33.204	SE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	12
2006.33.204	SE	0-12 inches	Earthenware	Tin-glazed Plain earthenware	7
2006.33.204	SE	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	2
2006.33.204	SE	0-12 inches	Earthenware	Tin-glazed Purple earthenware	1
2006.33.204	SE	0-12 inches	Copper alloy	Hooping	2
2006.33.204	SE	0-12 inches	Copper alloy	Pen knife scale	1
2006.33.204	SE	0-12 inches	Copper alloy	Straight pin	48
2006.33.204	SE	0-12 inches	Copper alloy	Tack	3
2006.33.204	SE	0-12 inches	Ferrous	UID Object	3

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.204	SE	0-12 inches	Glass	Case Bottles	261
2006.33.204	SE	0-12 inches	Glass	Glass Lens Fragment; ?/bi-convex	1
2006.33.204	SE	0-12 inches	Glass	Glass Lens Fragment; circular/bi-convex	1
2006.33.204	SE	0-12 inches	Glass	Round other bottles	2
2006.33.204	SE	0-12 inches	Glass	Round wine bottles	45
2006.33.204	SE	0-12 inches	Glass	Stemmed glassware	1
2006.33.204	SE	0-12 inches	Glass	Tumbler	2
2006.33.204	SE	0-12 inches	Glass	UID glass	36
2006.33.204	SE	0-12 inches	Glass	Window Glass	107
2006.33.204	SE	0-12 inches	Lead	Came	3
2006.33.204	SE	0-12 inches	Lead	UID Object	1
2006.33.204	SE	0-12 inches	Lithic	Possible non-cultural	3
2006.33.204	SE	0-12 inches	Pewter	Bottle closure	1
2006.33.204	SE	0-12 inches	Pewter	Button	2
2006.33.204	SE	0-12 inches	Pewter or lead	Miniature, figurine	1
2006.33.204	SE	0-12 inches	Refined earthenware	Creamware	8
2006.33.204	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	81
2006.33.204	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	10
2006.33.204	SE	0-12 inches	Stoneware	German blue and gray stoneware	8
2006.33.204	SE	0-12 inches	Stoneware	Stoneware mineral water body	139
2006.33.204	SE	0-12 inches	Stoneware	Stoneware mineral water body with marks	2
2006.33.204	SE	0-12 inches	Stoneware	Stoneware, other	12
2006.33.204	SE	0-12 inches	Undetermined	Buckle	2
2006.33.204	SE	0-12 inches	Undetermined	Buckle, shoe	1
2006.33.204	SE	0-12 inches	wood	Vessel wood	2
2006.33.208	SE	12 inches - sterile	Ceramic	Brick fragment	38
2006.33.208	SE	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	1
2006.33.208	SE	12 inches - sterile	Ceramic	Pipe bowl, plain body	1
2006.33.208	SE	12 inches - sterile	Ceramic	Pipe stem, plain	15
2006.33.208	SE	12 inches - sterile	Ceramic	Pipe stem, rouletted	1
2006.33.208	SE	12 inches - sterile	Coarse earthenware	Frankfurter ware	5
2006.33.208	SE	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	5
2006.33.208	SE	12 inches - sterile	Copper alloy	Straight pin	44
2006.33.208	SE	12 inches - sterile	Ferrous	UID Object	13
2006.33.208	SE	12 inches - sterile	Glass	Case Bottles	107
2006.33.208	SE	12 inches - sterile	Glass	Round wine bottles	44
2006.33.208	SE	12 inches - sterile	Glass	Stemmed glassware	1
2006.33.208	SE	12 inches - sterile	Glass	Tumbler	1
2006.33.208	SE	12 inches - sterile	Glass	UID glass	15
2006.33.208	SE	12 inches - sterile	Glass	Window Glass	50

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.208	SE	12 inches - sterile	Lead	Came	1
2006.33.208	SE	12 inches - sterile	Pewter	Ceramic vessel fitting	1
2006.33.208	SE	12 inches - sterile	Pewter	Jetton	1
2006.33.208	SE	12 inches - sterile	Refined earthenware	Creamware	4
2006.33.208	SE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	26
2006.33.208	SE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	5
2006.33.208	SE	12 inches - sterile	Stoneware	German blue and gray stoneware	3
2006.33.208	SE	12 inches - sterile	Stoneware	Stoneware mineral water body	33
2006.33.208	SE	12 inches - sterile	Stoneware	Stoneware, other	1
2006.33.208	SE	12 inches - sterile	Undetermined	Buckle	1
2006.33.208	SE	12 inches - sterile	Undetermined	Buckle, shoe	2
2006.33.208	SE	12 inches - sterile	Wood	UID Object	19
2006.33.201	SW	0-12 inches	Ceramic	Pipe bowl, decorated body	1
2006.33.201	SW	0-12 inches	Ceramic	Pipe bowl, decorated rim	2
2006.33.201	SW	0-12 inches	Ceramic	Pipe bowl, plain body	2
2006.33.201	SW	0-12 inches	Ceramic	Pipe stem, plain	29
2006.33.201	SW	0-12 inches	Ceramic	Pipe stem, rouletted	3
2006.33.201	SW	0-12 inches	Coarse earthenware	Frankfurter ware	6
2006.33.201	SW	0-12 inches	Coarse earthenware	Lead-glazed coarse earthenware	3
2006.33.201	SW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	5
2006.33.201	SW	0-12 inches	Copper alloy	Buckle chape	1
2006.33.201	SW	0-12 inches	Copper alloy	Hook	1
2006.33.201	SW	0-12 inches	Copper alloy	Jetton	1
2006.33.201	SW	0-12 inches	Copper alloy	Straight pin	23
2006.33.201	SW	0-12 inches	Copper alloy	Tack	2
2006.33.201	SW	0-12 inches	Glass	Case Bottles	94
2006.33.201	SW	0-12 inches	Glass	Round other bottles	1
2006.33.201	SW	0-12 inches	Glass	Round wine bottles	31
2006.33.201	SW	0-12 inches	Glass	Tumbler	2
2006.33.201	SW	0-12 inches	Glass	Window Glass	60
2006.33.201	SW	0-12 inches	Lead	Came	2
2006.33.201	SW	0-12 inches	Lead	Fishing sinker; Triangular,	1
2006.33.201	SW	0-12 inches	Pewter	Buckle, shoe	1
2006.33.201	SW	0-12 inches	Refined earthenware	Creamware	4
2006.33.201	SW	0-12 inches	Refined earthenware	Creamware, annularware	1
2006.33.201	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	39
2006.33.201	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	3
2006.33.201	SW	0-12 inches	Stoneware	German blue and gray stoneware	2
2006.33.201	SW	0-12 inches	Stoneware	Stoneware mineral water body	35

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.201	SW	0-12 inches	Stoneware	White salt-glazed stoneware	1
2006.33.201	SW	0-12 inches	Undetermined	Vessel top hinge	1
2006.33.201	SW	0-12 inches	Wood	UID Object	5
2006.33.205	SW	12 inches - sterile	Ceramic	Brick fragment	8
2006.33.205	SW	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	1
2006.33.205	SW	12 inches - sterile	Ceramic	Pipe bowl, plain body	1
2006.33.205	SW	12 inches - sterile	Ceramic	Pipe stem, plain	13
2006.33.205	SW	12 inches - sterile	Coarse earthenware	Frankfurter ware	1
2006.33.205	SW	12 inches - sterile	Copper alloy	Jetton	1
2006.33.205	SW	12 inches - sterile	Copper alloy	Straight pin	9
2006.33.205	SW	12 inches - sterile	Ferrous	Concretion	3
2006.33.205	SW	12 inches - sterile	Glass	Case Bottles	52
2006.33.205	SW	12 inches - sterile	Glass	Round wine bottles	16
2006.33.205	SW	12 inches - sterile	Glass	UID glass	1
2006.33.205	SW	12 inches - sterile	Glass	Window Glass	22
2006.33.205	SW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	11
2006.33.205	SW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	3
2006.33.205	SW	12 inches - sterile	Stoneware	German blue and gray stoneware	2
2006.33.205	SW	12 inches - sterile	Stoneware	Stoneware mineral water body	26
2006.33.205	SW	12 inches - sterile	Stoneware	Stoneware mineral water body with marks	4
2006.33.205	SW	12 inches - sterile	Wood	UID Object	8
2006.33.205	SW	12 inches - sterile		Cylindrical Cap	1

TEST UNIT N10/E60

Table E-18. Stratigraphy of Test Unit N10/E60.

Depth (from seafloor surface)	Sediment
0-4 inches	Modern sand overburden
4-6 inches	Clay, mud
6-12 inches	Shell hash
12-20 inches	Varied sediment
18-20 inches	Sterile sand

Table E-19. Artifact Assemblage recovered from the Southwest Quadrant of Test Unit N10/E60.

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.211	NE	0-12 inches	Coarse earthenware	Frankfurter ware	1
2006.33.211	NE	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	1
2006.33.211	NE	0-12 inches	Copper alloy	Pen knife scale	1
2006.33.211	NE	0-12 inches	Copper alloy	Tack	4
2006.33.211	NE	0-12 inches	Ferrous	UID Object	1
2006.33.211	NE	0-12 inches	Glass	Stemmed glassware	1
2006.33.211	NE	0-12 inches	Glass	UID glass	2
2006.33.211	NE	0-12 inches	Glass	Window Glass	1
2006.33.211	NE	0-12 inches	Pewter	Buckle, shoe	1
2006.33.211	NE	0-12 inches	Polished stone	Snuff box lid	1
2006.33.211	NE	0-12 inches	Refined earthenware	Creamware	1
2006.33.211	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	14
2006.33.211	NE	0-12 inches	Stoneware	Stoneware mineral water body	10
2006.33.215	NE	12 inches – sterile	Ceramic	Brick fragment	8
2006.33.215	NE	12 inches – sterile	Ceramic	Pipe bowl, decorated rim	7
2006.33.215	NE	12 inches – sterile	Ceramic	Pipe bowl, plain body	3
2006.33.215	NE	12 inches – sterile	Ceramic	Pipe stem, plain	21
2006.33.215	NE	12 inches – sterile	Ceramic	Pipe stem, rouletted	2
2006.33.215	NE	12 inches – sterile	Coarse earthenware	Frankfurter ware	2
2006.33.215	NE	12 inches – sterile	Coarse earthenware	Lead-glazed coarse earthenware	1
2006.33.215	NE	12 inches – sterile	Earthenware	Tin-glazed Blue earthenware	7
2006.33.215	NE	12 inches – sterile	Earthenware	Tin-glazed Plain earthenware	3
2006.33.215	NE	12 inches – sterile	Copper alloy	Button	1
2006.33.215	NE	12 inches – sterile	Copper alloy	Drafting points	3
2006.33.215	NE	12 inches – sterile	Copper alloy	Eyelet for hook	1
2006.33.215	NE	12 inches – sterile	Copper alloy	Key	1
2006.33.215	NE	12 inches – sterile	Copper alloy	Lock part	1
2006.33.215	NE	12 inches – sterile	Copper alloy	Pen knife scale	2
2006.33.215	NE	12 inches – sterile	Copper alloy	Straight pin	5

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.215	NE	12 inches - sterile	Copper alloy	Tack	7
2006.33.215	NE	12 inches - sterile	Copper alloy	UID Object	1
2006.33.215	NE	12 inches - sterile	Copper alloy	UID Object	2
2006.33.215	NE	12 inches - sterile	Ferrous	Concretion	35
2006.33.215	NE	12 inches - sterile	Ferrous	UID Object	2
2006.33.215	NE	12 inches - sterile	Glass	Bottle glass	8
2006.33.215	NE	12 inches - sterile	Glass	Case Bottles	268
2006.33.215	NE	12 inches - sterile	Glass	Glass Lens Fragment; circular/flat	1
2006.33.215	NE	12 inches - sterile	Glass	Glass, flat button insert; Oval; clear	1
2006.33.215	NE	12 inches - sterile	Glass	Round wine bottles	73
2006.33.215	NE	12 inches - sterile	Glass	Stemmed glassware	3
2006.33.215	NE	12 inches - sterile	Glass	UID glass	9
2006.33.215	NE	12 inches - sterile	Glass	UID glass; clear, modern?; curved	2
2006.33.215	NE	12 inches - sterile	Glass	Window Glass	52
2006.33.215	NE	12 inches - sterile	Lead	Came	1
2006.33.215	NE	12 inches - sterile	Lead	Fishing sinker; Barrel-shaped	1
2006.33.215	NE	12 inches - sterile	Pewter	Buckle	3
2006.33.215	NE	12 inches - sterile	Porcelain	Porcelain	2
2006.33.215	NE	12 inches - sterile	Refined earthenware	Creamware	7
2006.33.215	NE	12 inches - sterile	Serpentine, black	Polished stone pestle	2
2006.33.215	NE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	36
2006.33.215	NE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	5
2006.33.215	NE	12 inches - sterile	Stoneware	German blue and gray stoneware	4
2006.33.215	NE	12 inches - sterile	Stoneware	Stoneware mineral water body	99
2006.33.215	NE	12 inches - sterile	Stoneware	Stoneware mineral water body with marks	5
2006.33.215	NE	12 inches - sterile	Stoneware	Stoneware, other	1
2006.33.215	NE	12 inches - sterile	Stoneware	White salt-glazed stoneware	1
2006.33.215	NE	12 inches - sterile	Wood	UID Object	6
2006.33.210	NW	0-12 inches	Ceramic	Pipe stem, plain	3
2006.33.210	NW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	1
2006.33.210	NW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.210	NW	0-12 inches	Copper alloy	Pen knife scale	2
2006.33.210	NW	0-12 inches	Copper alloy	Tack	1
2006.33.210	NW	0-12 inches	Ferrous	Concretion	13
2006.33.210	NW	0-12 inches	Ferrous	UID Object	1
2006.33.210	NW	0-12 inches	Glass	Case Bottles	16
2006.33.210	NW	0-12 inches	Glass	Glass Lens Fragment; Circular/Bi-convex	3
2006.33.210	NW	0-12 inches	Glass	Round wine bottles	16
2006.33.210	NW	0-12 inches	Glass	Stemmed glassware	1
2006.33.210	NW	0-12 inches	Glass	UID glass	2

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.210	NW	0-12 inches	Glass	Window Glass	8
2006.33.210	NW	0-12 inches	Refined earthenware	Creamware	1
2006.33.210	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	8
2006.33.210	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.210	NW	0-12 inches	Stoneware	German blue and gray stoneware	1
2006.33.210	NW	0-12 inches	Stoneware	Stoneware mineral water body	9
2006.33.214	NW	12 inches – sterile	Ferrous	Concretion	4
2006.33.214	NW	12 inches – sterile	Glass	Case Bottles	6
2006.33.214	NW	12 inches – sterile	Glass	Round wine bottles	3
2006.33.214	NW	12 inches – sterile	Glass	UID glass	1
2006.33.214	NW	12 inches – sterile	Glass	Window Glass	5
2006.33.214	NW	12 inches – sterile	Lead	Came	1
2006.33.214	NW	12 inches – sterile	Pewter	Mug / tankard lid and hinge	1
2006.33.214	NW	12 inches – sterile	Pewter	UID container	1
2006.33.214	NW	12 inches – sterile	Stoneware	Brown salt-glazed stoneware bottle	9
2006.33.214	NW	12 inches – sterile	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.214	NW	12 inches – sterile	Stoneware	Stoneware mineral water body	15
2006.33.212	SE	0-12 inches	Ceramic	Pipe stem, plain	6
2006.33.212	SE	0-12 inches	Coarse earthenware	Frankfurter ware	1
2006.33.212	SE	0-12 inches	Coarse earthenware	Lead-glazed coarse earthenware	1
2006.33.212	SE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	4
2006.33.212	SE	0-12 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.212	SE	0-12 inches	Ferrous	UID object	2
2006.33.212	SE	0-12 inches	Glass	Case Bottles	29
2006.33.212	SE	0-12 inches	Glass	Glass Lens Fragment; round/Concave/convex	1
2006.33.212	SE	0-12 inches	Glass	Modern beer bottle, brown; Likely 20th Century beer bottle,	1
2006.33.212	SE	0-12 inches	Glass	Round wine bottles	13
2006.33.212	SE	0-12 inches	Glass	UID glass	1
2006.33.212	SE	0-12 inches	Glass	UID glass; clear, perhaps modern; curved	1
2006.33.212	SE	0-12 inches	Glass	Window Glass	17
2006.33.212	SE	0-12 inches	Pewter	Miniature, figurine	1
2006.33.212	SE	0-12 inches	Polished stone	Snuff box lid	1
2006.33.212	SE	0-12 inches	Refined earthenware	Whieldonware	1
2006.33.212	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	19
2006.33.212	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.212	SE	0-12 inches	Stoneware	Stoneware mineral water body	32
2006.33.212	SE	0-12 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.212	SE	0-12 inches	Stoneware	Stoneware, other	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.212	SE	0-12 inches	Undetermined	Concretion; Small	3
2006.33.216	SE	12 inches - sterile	Ceramic	Brick fragment	1
2006.33.216	SE	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	1
2006.33.216	SE	12 inches - sterile	Ceramic	Pipe bowl, plain body	3
2006.33.216	SE	12 inches - sterile	Ceramic	Pipe stem, plain	7
2006.33.216	SE	12 inches - sterile	Ceramic	Tile, lead glazed	1
2006.33.216	SE	12 inches - sterile	Coarse earthenware	Frankfurter ware	2
2006.33.216	SE	12 inches - sterile	Coarse earthenware	Lead-glazed coarse earthenware	1
2006.33.216	SE	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	2
2006.33.216	SE	12 inches - sterile	Earthenware	Tin-glazed Plain earthenware	1
2006.33.216	SE	12 inches - sterile	Earthenware	Tin-glazed Polychrome earthenware	1
2006.33.216	SE	12 inches - sterile	Earthenware	Tin-glazed Purple earthenware	1
2006.33.216	SE	12 inches - sterile	Copper alloy	Eyelet for hook	1
2006.33.216	SE	12 inches - sterile	Copper alloy	Pen knife scale	1
2006.33.216	SE	12 inches - sterile	Copper alloy	Tack	1
2006.33.216	SE	12 inches - sterile	Copper alloy	UID Object	2
2006.33.216	SE	12 inches - sterile	Glass	Case Bottles	186
2006.33.216	SE	12 inches - sterile	Glass	Round wine bottles	31
2006.33.216	SE	12 inches - sterile	Glass	UID glass	18
2006.33.216	SE	12 inches - sterile	Glass	Window Glass	26
2006.33.216	SE	12 inches - sterile	Lead	Came	1
2006.33.216	SE	12 inches - sterile	Pewter	Buckle	1
2006.33.216	SE	12 inches - sterile	Pewter	Buckle, shoe	3
2006.33.216	SE	12 inches - sterile	Porcelain	Porcelain	1
2006.33.216	SE	12 inches - sterile	Refined earthenware	Creamware	4
2006.33.216	SE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	25
2006.33.216	SE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	3
2006.33.216	SE	12 inches - sterile	Stoneware	Dry-bodied stoneware	1
2006.33.216	SE	12 inches - sterile	Stoneware	German blue and gray stoneware	6
2006.33.216	SE	12 inches - sterile	Stoneware	Stoneware mineral water body	77
2006.33.216	SE	12 inches - sterile	Stoneware	Stoneware mineral water body with marks	2
2006.33.216	SE	12 inches - sterile	Stoneware	Stoneware, other	2
2006.33.216	SE	12 inches - sterile	Undetermined	Concretion	5
2006.33.209	SW	0-12 inches	Ceramic	Brick fragment	2
2006.33.209	SW	0-12 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.209	SW	0-12 inches	Ceramic	Pipe stem, plain	12
2006.33.209	SW	0-12 inches	Ceramic	Tile, lead glazed	1
2006.33.209	SW	0-12 inches	Coarse earthenware	Frankfurter ware	5
2006.33.209	SW	0-12 inches	Coarse earthenware	Lead-glazed coarse earthenware	1
2006.33.209	SW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	4

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.209	SW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.209	SW	0-12 inches	Earthenware	Tin-glazed Purple earthenware	1
2006.33.209	SW	0-12 inches	Copper alloy	Pen knife scale	3
2006.33.209	SW	0-12 inches	Copper alloy	Straight pin	22
2006.33.209	SW	0-12 inches	Copper alloy	Tack	1
2006.33.209	SW	0-12 inches	Ferrous	UID Object	2
2006.33.209	SW	0-12 inches	Glass	Case Bottles	82
2006.33.209	SW	0-12 inches	Glass	Decanter/pitcher	1
2006.33.209	SW	0-12 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	3
2006.33.209	SW	0-12 inches	Glass	Round other bottles	1
2006.33.209	SW	0-12 inches	Glass	Round wine bottles	52
2006.33.209	SW	0-12 inches	Glass	Tumbler	2
2006.33.209	SW	0-12 inches	Glass	UID glass	5
2006.33.209	SW	0-12 inches	Glass	Window Glass	15
2006.33.209	SW	0-12 inches	Lead	Came	1
2006.33.209	SW	0-12 inches	Pewter	Buckle, shoe	1
2006.33.209	SW	0-12 inches	Refined earthenware	Creamware	2
2006.33.209	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	16
2006.33.209	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	14
2006.33.209	SW	0-12 inches	Stoneware	German blue and gray stoneware	3
2006.33.209	SW	0-12 inches	Stoneware	Stoneware mineral water body	61
2006.33.209	SW	0-12 inches	Stoneware	Stoneware, other	1
2006.33.209	SW	0-12 inches	Wood	UID Object	2
2006.33.213	SW	12 inches – sterile	Ceramic	Brick fragment	5
2006.33.213	SW	12 inches – sterile	Ceramic	Pipe bowl, plain body	1
2006.33.213	SW	12 inches – sterile	Ceramic	Pipe stem, plain	5
2006.33.213	SW	12 inches – sterile	Coarse earthenware	Frankfurter ware	5
2006.33.213	SW	12 inches – sterile	Coarse earthenware	Slip decorated coarse earthenware	1
2006.33.213	SW	12 inches – sterile	Copper alloy	Eyelet for hook	1
2006.33.213	SW	12 inches – sterile	Copper alloy	Pen knife scale	3
2006.33.213	SW	12 inches – sterile	Copper alloy	Tack	2
2006.33.213	SW	12 inches – sterile	Glass	Case Bottles	76
2006.33.213	SW	12 inches – sterile	Glass	Modern beer bottle, green; 20th Century beer bottle; Rolling Rock. , curved	1
2006.33.213	SW	12 inches – sterile	Glass	Modern glass, clear curved	1
2006.33.213	SW	12 inches – sterile	Glass	Round wine bottles	23
2006.33.213	SW	12 inches – sterile	Glass	Tumbler	1
2006.33.213	SW	12 inches – sterile	Glass	Window Glass	7
2006.33.213	SW	12 inches – sterile	Pewter	Buckle, shoe	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.213	SW	12 inches - sterile	Refined earthenware	Creamware	1
2006.33.213	SW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	30
2006.33.213	SW	12 inches - sterile	Stoneware	German blue and gray stoneware	1
2006.33.213	SW	12 inches - sterile	Stoneware	Stoneware mineral water body	48

TEST UNIT N10/E70

Table E-20. Stratigraphy of Test Unit N10/E70.

Depth (from seafloor surface)	Sediment
0-2 inches	Modern sand, overburden
2-6 inches	Clay, mud
6-12 inches	Shell hash
12 inches	Sterile sand

Table E-21. Artifact Assemblage recovered from the Southwest Quadrant of Test Unit N10/E70.

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.219	NE	0-12 inches	black stone	Turned Chess piece	1
2006.33.219	NE	0-12 inches	Ceramic	Brick fragment	4
2006.33.219	NE	0-12 inches	Ceramic	Pipe bowl, decorated rim	4
2006.33.219	NE	0-12 inches	Ceramic	Pipe bowl, plain body	5
2006.33.219	NE	0-12 inches	Ceramic	Pipe stem, plain	17
2006.33.219	NE	0-12 inches	Ceramic	Pipe stem, rouletted	3
2006.33.219	NE	0-12 inches	Ceramic	Tile, lead glazed	1
2006.33.219	NE	0-12 inches	Ceramic	Whole Brick	1
2006.33.219	NE	0-12 inches	Coarse earthenware	Frankfurter ware	3
2006.33.219	NE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	5
2006.33.219	NE	0-12 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.219	NE	0-12 inches	Earthenware	Tin-glazed Purple earthenware	2
2006.33.219	NE	0-12 inches	Copper alloy	Button, sleeve	6
2006.33.219	NE	0-12 inches	Copper alloy	Hinge	1
2006.33.219	NE	0-12 inches	Copper alloy	Key	1
2006.33.219	NE	0-12 inches	Copper alloy	Nail	1
2006.33.219	NE	0-12 inches	Copper alloy	Tack	47
2006.33.219	NE	0-12 inches	Copper alloy	UID Object	3
2006.33.219	NE	0-12 inches	Glass	Case Bottles	46
2006.33.219	NE	0-12 inches	Glass	Glass Lens Fragment; circular; bi-convex	1
2006.33.219	NE	0-12 inches	Glass	Glass, flat button insert; Oval; green	1
2006.33.219	NE	0-12 inches	Glass	Glass, flat button insert; Round; clear	3
2006.33.219	NE	0-12 inches	Glass	Round other bottles	3
2006.33.219	NE	0-12 inches	Glass	Round wine bottles	16
2006.33.219	NE	0-12 inches	Glass	Stemmed glassware	5
2006.33.219	NE	0-12 inches	Glass	UID glass	23
2006.33.219	NE	0-12 inches	Glass	Window Glass	29
2006.33.219	NE	0-12 inches	Pewter	Buckle, shoe	4
2006.33.219	NE	0-12 inches	Pewter	Button	5
2006.33.219	NE	0-12 inches	Pewter	UID Object	2

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.219	NE	0-12 inches	Porcelain	Porcelain	1
2006.33.219	NE	0-12 inches	Refined earthenware	Creamware	2
2006.33.219	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	37
2006.33.219	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	2
2006.33.219	NE	0-12 inches	Stoneware	German blue and gray stoneware	3
2006.33.219	NE	0-12 inches	Stoneware	Stoneware mineral water body	64
2006.33.219	NE	0-12 inches	Stoneware	Stoneware mineral water body with marks	2
2006.33.223	NE	12 inches – sterile	Ceramic	Pipe bowl, plain body	3
2006.33.223	NE	12 inches – sterile	Ceramic	Pipe stem, plain	5
2006.33.223	NE	12 inches – sterile	Earthenware	Tin-glazed Blue earthenware	1
2006.33.223	NE	12 inches – sterile	Earthenware	Tin-glazed Purple earthenware	1
2006.33.223	NE	12 inches – sterile	Copper alloy	Buckle chape	1
2006.33.223	NE	12 inches – sterile	Copper alloy	Buckle, Shoe	1
2006.33.223	NE	12 inches – sterile	Copper alloy	Fitting	1
2006.33.223	NE	12 inches – sterile	Copper alloy	Tack	10
2006.33.223	NE	12 inches – sterile	Glass	Case Bottles	21
2006.33.223	NE	12 inches – sterile	Glass	Decanter/pitcher	1
2006.33.223	NE	12 inches – sterile	Glass	Glass, flat button insert; Oval; clear	1
2006.33.223	NE	12 inches – sterile	Glass	Round wine bottles	19
2006.33.223	NE	12 inches – sterile	Glass	UID glass	2
2006.33.223	NE	12 inches – sterile	Glass	UID glass; clear, modern?; curved	1
2006.33.223	NE	12 inches – sterile	Glass	Window Glass	18
2006.33.223	NE	12 inches – sterile	Porcelain	Porcelain	1
2006.33.223	NE	12 inches – sterile	Stoneware	Brown salt-glazed stoneware bottle	13
2006.33.223	NE	12 inches – sterile	Stoneware	Brown salt-glazed stoneware jar	2
2006.33.223	NE	12 inches – sterile	Stoneware	German blue and gray stoneware	1
2006.33.223	NE	12 inches – sterile	Stoneware	Stoneware mineral water body	20
2006.33.223	NE	12 inches – sterile	Wood	UID object	2
2006.33.223	NE	12 inches – sterile	wood	Vessel hull section/fabric	1
2006.33.218	NW	0-12 inches	Ceramic	Brick fragment	5
2006.33.218	NW	0-12 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.218	NW	0-12 inches	Ceramic	Pipe bowl, plain body	4
2006.33.218	NW	0-12 inches	Ceramic	Pipe stem, plain	22
2006.33.218	NW	0-12 inches	Ceramic	Pipe stem, rouletted	3
2006.33.218	NW	0-12 inches	Ceramic	Tile, lead glazed	1
2006.33.218	NW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	4
2006.33.218	NW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	2
2006.33.218	NW	0-12 inches	Copper alloy	Bead	1
2006.33.218	NW	0-12 inches	Copper alloy	Button	1
2006.33.218	NW	0-12 inches	Copper alloy	Coin	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.218	NW	0-12 inches	Copper alloy	Hook	1
2006.33.218	NW	0-12 inches	Copper alloy	Neck Stock Clasp	2
2006.33.218	NW	0-12 inches	Copper alloy	Scrap / off-cut	1
2006.33.218	NW	0-12 inches	Copper alloy	Straight pin	4
2006.33.218	NW	0-12 inches	Copper alloy	Tack	38
2006.33.218	NW	0-12 inches	Copper alloy	UID Object	2
2006.33.218	NW	0-12 inches	Copper alloy	Watch key	1
2006.33.218	NW	0-12 inches	Copper alloy	Wire	1
2006.33.218	NW	0-12 inches	Glass	Case Bottles	126
2006.33.218	NW	0-12 inches	Glass	Glass Lens Fragment; Circular; bi-convex	1
2006.33.218	NW	0-12 inches	Glass	Glass, flat button insert; Round; clear	1
2006.33.218	NW	0-12 inches	Glass	Modern glass, clear curved	1
2006.33.218	NW	0-12 inches	Glass	Round wine bottles	74
2006.33.218	NW	0-12 inches	Glass	Stemmed glassware	2
2006.33.218	NW	0-12 inches	Glass	Tumbler	4
2006.33.218	NW	0-12 inches	Glass	UID glass	17
2006.33.218	NW	0-12 inches	Glass	UID glass; clear, some may be modern?; curved	13
2006.33.218	NW	0-12 inches	Glass	Window Glass	58
2006.33.218	NW	0-12 inches	Lead	Came	1
2006.33.218	NW	0-12 inches	Lead	Fishing sinker; W/ Copper alloy wire loop, marked #8	1
2006.33.218	NW	0-12 inches	Lead	Patch	1
2006.33.218	NW	0-12 inches	Pewter	Buckle	1
2006.33.218	NW	0-12 inches	Pewter	Buckle, Knee	1
2006.33.218	NW	0-12 inches	Pewter	Buckle, shoe	11
2006.33.218	NW	0-12 inches	Pewter	Button, sleeve	1
2006.33.218	NW	0-12 inches	Pewter	Miniature, figurine	2
2006.33.218	NW	0-12 inches	Porcelain	Porcelain	1
2006.33.218	NW	0-12 inches	Refined earthenware	Creamware	3
2006.33.218	NW	0-12 inches	Serpentine, black	Polished stone pestle	1
2006.33.218	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	30
2006.33.218	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	8
2006.33.218	NW	0-12 inches	Stoneware	German blue and gray stoneware	2
2006.33.218	NW	0-12 inches	Stoneware	Stoneware mineral water body	49
2006.33.218	NW	0-12 inches	Stoneware	Stoneware mineral water body with marks	3
2006.33.218	NW	0-12 inches	Stoneware	Stoneware, other	2
2006.33.218	NW	0-12 inches	Undetermined	UID object	1
2006.33.222	NW	12 inches - sterile	Ceramic	Brick fragment	3
2006.33.222	NW	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	1
2006.33.222	NW	12 inches - sterile	Ceramic	Pipe stem, plain	2

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.222	NW	12 inches - sterile	Coarse earthenware	Frankfurter ware	1
2006.33.222	NW	12 inches - sterile	Copper alloy	Buckle, Shoe	1
2006.33.222	NW	12 inches - sterile	Copper alloy	Button	1
2006.33.222	NW	12 inches - sterile	Copper alloy	Tack	8
2006.33.222	NW	12 inches - sterile	Glass	Case Bottles	31
2006.33.222	NW	12 inches - sterile	Glass	Decanter/pitcher	1
2006.33.222	NW	12 inches - sterile	Glass	Glass, flat button insert; Round; clear	1
2006.33.222	NW	12 inches - sterile	Glass	Round wine bottles	10
2006.33.222	NW	12 inches - sterile	Glass	UID glass	4
2006.33.222	NW	12 inches - sterile	Glass	Window Glass	20
2006.33.222	NW	12 inches - sterile	Lead	Came	1
2006.33.222	NW	12 inches - sterile	Pewter	Buckle, shoe	4
2006.33.222	NW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	4
2006.33.222	NW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	2
2006.33.222	NW	12 inches - sterile	Stoneware	German blue and gray stoneware	1
2006.33.222	NW	12 inches - sterile	Stoneware	Stoneware mineral water body	9
2006.33.222	NW	12 inches - sterile	Wood	UID object	2
2006.33.220	SE	0-12 inches	Ceramic	Brick fragment	6
2006.33.220	SE	0-12 inches	Ceramic	Pipe bowl, decorated rim	2
2006.33.220	SE	0-12 inches	Ceramic	Pipe bowl, plain body	3
2006.33.220	SE	0-12 inches	Ceramic	Pipe stem, plain	13
2006.33.220	SE	0-12 inches	Ceramic	Pipe stem, rouletted	2
2006.33.220	SE	0-12 inches	Ceramic	Tile, lead glazed	1
2006.33.220	SE	0-12 inches	Coarse earthenware	Frankfurter ware	1
2006.33.220	SE	0-12 inches	Coarse earthenware	Slip decorated coarse earthenware	1
2006.33.220	SE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	5
2006.33.220	SE	0-12 inches	Earthenware	Tin-glazed Plain earthenware	2
2006.33.220	SE	0-12 inches	Copper alloy	Buckle, Shoe	1
2006.33.220	SE	0-12 inches	Copper alloy	Button	2
2006.33.220	SE	0-12 inches	Copper alloy	Jetton	1
2006.33.220	SE	0-12 inches	Copper alloy	Straight pin	2
2006.33.220	SE	0-12 inches	Copper alloy	Tack	17
2006.33.220	SE	0-12 inches	Copper alloy	Wire	1
2006.33.220	SE	0-12 inches	Ferrous	Concretion	12
2006.33.220	SE	0-12 inches	Glass	Case Bottles	132
2006.33.220	SE	0-12 inches	Glass	Glass Lens Fragment; circular; bi-convex	3
2006.33.220	SE	0-12 inches	Glass	Modern beer bottle, amber/brown; 20th Century beer bottle, curved	1
2006.33.220	SE	0-12 inches	Glass	Round wine bottles	44
2006.33.220	SE	0-12 inches	Glass	UID glass	13

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.220	SE	0-12 inches	Glass	Window Glass	37
2006.33.220	SE	0-12 inches	Pewter	Buckle	1
2006.33.220	SE	0-12 inches	Pewter	Buckle, shoe	8
2006.33.220	SE	0-12 inches	Pewter	Miniature, domestic ware	1
2006.33.220	SE	0-12 inches	Porcelain	Porcelain	3
2006.33.220	SE	0-12 inches	Refined earthenware	Creamware	2
2006.33.220	SE	0-12 inches	Serpentine, black	Polished stone pestle	1
2006.33.220	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	34
2006.33.220	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	3
2006.33.220	SE	0-12 inches	Stoneware	German blue and gray stoneware	3
2006.33.220	SE	0-12 inches	Stoneware	Stoneware mineral water body	81
2006.33.220	SE	0-12 inches	Stoneware	Stoneware mineral water body with marks	2
2006.33.220	SE	0-12 inches	Wood	UID Object	14
2006.33.224	SE	12 inches – sterile	Ceramic	Pipe stem, plain	2
2006.33.224	SE	12 inches – sterile	Copper alloy	Buckle	1
2006.33.224	SE	12 inches – sterile	Copper alloy	Straight pin	1
2006.33.224	SE	12 inches – sterile	Copper alloy	Tack	4
2006.33.224	SE	12 inches – sterile	Glass	Case Bottles	13
2006.33.224	SE	12 inches – sterile	Glass	Decanter/pitcher	1
2006.33.224	SE	12 inches – sterile	Glass	Round wine bottles	8
2006.33.224	SE	12 inches – sterile	Glass	Window Glass	9
2006.33.224	SE	12 inches – sterile	Stoneware	Brown salt-glazed stoneware bottle	5
2006.33.224	SE	12 inches – sterile	Stoneware	Stoneware mineral water body	8
2006.33.224	SE	12 inches – sterile	Stoneware	Stoneware mineral water body with marks	1
2006.33.217	SW	0-12 inches	Bone	Fan rib	1
2006.33.217	SW	0-12 inches	Ceramic	Brick fragment	4
2006.33.217	SW	0-12 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.217	SW	0-12 inches	Ceramic	Pipe bowl, plain body	1
2006.33.217	SW	0-12 inches	Ceramic	Pipe stem, plain	23
2006.33.217	SW	0-12 inches	Ceramic	Pipe stem, rouletted	4
2006.33.217	SW	0-12 inches	Coarse earthenware	Frankfurter ware	8
2006.33.217	SW	0-12 inches	Coarse earthenware	Lead-glazed coarse earthenware	2
2006.33.217	SW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	5
2006.33.217	SW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	1
2006.33.217	SW	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	1
2006.33.217	SW	0-12 inches	Earthenware	Tin-glazed Purple earthenware	3
2006.33.217	SW	0-12 inches	Copper alloy	Bead	1
2006.33.217	SW	0-12 inches	Copper alloy	Button	1
2006.33.217	SW	0-12 inches	Copper alloy	Drawer pull	1
2006.33.217	SW	0-12 inches	Copper alloy	Tack	27

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.217	SW	0-12 inches	Copper alloy	Thimble	1
2006.33.217	SW	0-12 inches	Copper alloy	UID Object	1
2006.33.217	SW	0-12 inches	Glass	Case Bottles	182
2006.33.217	SW	0-12 inches	Glass	Decanter/pitcher	1
2006.33.217	SW	0-12 inches	Glass	Glass Lens Fragment; circular; bi-convex	2
2006.33.217	SW	0-12 inches	Glass	Glass, flat button insert; Round; clear	1
2006.33.217	SW	0-12 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle - include a neck/finish, curved	4
2006.33.217	SW	0-12 inches	Glass	Round other bottles	1
2006.33.217	SW	0-12 inches	Glass	Round wine bottles	96
2006.33.217	SW	0-12 inches	Glass	Stemmed glassware	4
2006.33.217	SW	0-12 inches	Glass	Tumbler	5
2006.33.217	SW	0-12 inches	Glass	UID glass	5
2006.33.217	SW	0-12 inches	Glass	Window Glass	51
2006.33.217	SW	0-12 inches	Lead	Came	1
2006.33.217	SW	0-12 inches	Lead	Scrap / off-cut	1
2006.33.217	SW	0-12 inches	Pewter	Buckle	1
2006.33.217	SW	0-12 inches	Pewter	Buckle, Knee	3
2006.33.217	SW	0-12 inches	Pewter	Buckle, shoe	14
2006.33.217	SW	0-12 inches	Pewter	Button	1
2006.33.217	SW	0-12 inches	Pewter	Miniature, figurine	1
2006.33.217	SW	0-12 inches	Pewter	Plate warmer	2
2006.33.217	SW	0-12 inches	Pewter	Table, cutlery; Spoon	1
2006.33.217	SW	0-12 inches	Porcelain	Porcelain	1
2006.33.217	SW	0-12 inches	Refined earthenware	Creamware	4
2006.33.217	SW	0-12 inches	Serpentine, black	Polished stone pestle	1
2006.33.217	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	57
2006.33.217	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	25
2006.33.217	SW	0-12 inches	Stoneware	German blue and gray stoneware	5
2006.33.217	SW	0-12 inches	Stoneware	Stoneware mineral water body	80
2006.33.217	SW	0-12 inches	Stoneware	Stoneware mineral water body with marks	4
2006.33.217	SW	0-12 inches	Stoneware	Stoneware, other	2
2006.33.217	SW	0-12 inches	Stoneware	White salt-glazed stoneware	1
2006.33.217	SW	0-12 inches	Undetermined	Undetermined; Tube w/ collar	1
2006.33.217	SW	0-12 inches	Wood	4-Hole Button	1
2006.33.221	SW	12 inches - sterile	Ceramic	Pipe bowl, plain body	1
2006.33.221	SW	12 inches - sterile	Ceramic	Pipe stem, plain	3
2006.33.221	SW	12 inches - sterile	Ceramic	Pipe stem, rouletted	1
2006.33.221	SW	12 inches - sterile	Ceramic	Tile, tin glazed	1
2006.33.221	SW	12 inches - sterile	Coarse earthenware	Frankfurter ware	2

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.221	SW	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	1
2006.33.221	SW	12 inches - sterile	Copper alloy	Eyelet for hook	1
2006.33.221	SW	12 inches - sterile	Copper alloy	Hook	1
2006.33.221	SW	12 inches - sterile	Copper alloy	Tack	11
2006.33.221	SW	12 inches - sterile	Copper alloy	UID Object	9
2006.33.221	SW	12 inches - sterile	Glass	Case Bottles	51
2006.33.221	SW	12 inches - sterile	Glass	Round wine bottles	4
2006.33.221	SW	12 inches - sterile	Glass	Stemmed glassware	1
2006.33.221	SW	12 inches - sterile	Glass	UID glass	1
2006.33.221	SW	12 inches - sterile	Glass	Window Glass	3
2006.33.221	SW	12 inches - sterile	Lead	Came	1
2006.33.221	SW	12 inches - sterile	Organic	Coal	1
2006.33.221	SW	12 inches - sterile	Pewter	Buckle	2
2006.33.221	SW	12 inches - sterile	Pewter	Buckle, shoe	1
2006.33.221	SW	12 inches - sterile	Pewter or lead	UID object	2
2006.33.221	SW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	14
2006.33.221	SW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.221	SW	12 inches - sterile	Stoneware	Stoneware mineral water body	29
2006.33.221	SW	12 inches - sterile	Stoneware	Stoneware, other	1

TEST UNIT N0/E50

Table E-22. Stratigraphy of Test Unit N0/E50.

Depth (from seafloor surface)	Sediment
0-4 inches	Modern sand, overburden
4-6 inches	Clay, mud
6-20 inches	Shell hash
20 inches	Sterile sand

Table E-23. Artifact Assemblage recovered from the Southwest Quadrant of Test Unit N0/E50.

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.227	NE	0-12 inches	Ceramic	Brick fragment	5
2006.33.227	NE	0-12 inches	Ceramic	Pipe bowl, decorated rim	1
2006.33.227	NE	0-12 inches	Ceramic	Pipe bowl, plain body	1
2006.33.227	NE	0-12 inches	Ceramic	Pipe stem, plain	9
2006.33.227	NE	0-12 inches	Ceramic	Pipe stem, rouletted	1
2006.33.227	NE	0-12 inches	Coarse earthenware	Frankfurter ware	2
2006.33.227	NE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	1
2006.33.227	NE	0-12 inches	Copper alloy	Pen knife scale	3
2006.33.227	NE	0-12 inches	Copper alloy	Straight pin	12
2006.33.227	NE	0-12 inches	Copper alloy	Tack	1
2006.33.227	NE	0-12 inches	Glass	Case Bottles	80
2006.33.227	NE	0-12 inches	Glass	Round other bottles	2
2006.33.227	NE	0-12 inches	Glass	Round wine bottles	7
2006.33.227	NE	0-12 inches	Glass	Window Glass	18
2006.33.227	NE	0-12 inches	Pewter	Buckle	1
2006.33.227	NE	0-12 inches	Pewter	Table, cutlery; Spoon	1
2006.33.227	NE	0-12 inches	Pewter	UID Object	5
2006.33.227	NE	0-12 inches	Pewter	Vessel fragment	1
2006.33.227	NE	0-12 inches	Porcelain	Porcelain	1
2006.33.227	NE	0-12 inches	Refined earthenware	Creamware	1
2006.33.227	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	24
2006.33.227	NE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.227	NE	0-12 inches	Stoneware	German blue and gray stoneware	1
2006.33.227	NE	0-12 inches	Stoneware	Stoneware mineral water body	24
2006.33.227	NE	0-12 inches	Stoneware	Stoneware, other	1
2006.33.227	NE	0-12 inches	Wood	UID Object	1
2006.33.231	NE	12 inches - sterile	Ceramic	Brick fragment	14
2006.33.231	NE	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	2
2006.33.231	NE	12 inches - sterile	Ceramic	Pipe stem, plain	13
2006.33.231	NE	12 inches - sterile	Ceramic	Pipe stem, rouletted	2
2006.33.231	NE	12 inches - sterile	Coarse earthenware	Frankfurter ware	4

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.231	NE	12 inches - sterile	Coarse earthenware	Lead-glazed coarse earthenware	1
2006.33.231	NE	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	4
2006.33.231	NE	12 inches - sterile	Earthenware	Tin-glazed Plain earthenware	1
2006.33.231	NE	12 inches - sterile	Earthenware	Tin-glazed Purple earthenware	1
2006.33.231	NE	12 inches - sterile	Copper alloy	Hook	1
2006.33.231	NE	12 inches - sterile	Copper alloy	Pen knife scale	4
2006.33.231	NE	12 inches - sterile	Copper alloy	Straight pin	70
2006.33.231	NE	12 inches - sterile	Copper alloy	UID object	1
2006.33.231	NE	12 inches - sterile	Glass	Case Bottles	123
2006.33.231	NE	12 inches - sterile	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	1
2006.33.231	NE	12 inches - sterile	Glass	Round other bottles	1
2006.33.231	NE	12 inches - sterile	Glass	Round wine bottles	4
2006.33.231	NE	12 inches - sterile	Glass	UID glass	3
2006.33.231	NE	12 inches - sterile	Glass	Window Glass	47
2006.33.231	NE	12 inches - sterile	Lead	Fishing sinker; Triangular w/ copper alloy & steel leader parts	1
2006.33.231	NE	12 inches - sterile	Lead	Net weight; Barrel-Shaped	3
2006.33.231	NE	12 inches - sterile	Pewter	Buckle	1
2006.33.231	NE	12 inches - sterile	Pewter	Scrap/off-cut	11
2006.33.231	NE	12 inches - sterile	Refined earthenware	Creamware	2
2006.33.231	NE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	19
2006.33.231	NE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	2
2006.33.231	NE	12 inches - sterile	Stoneware	German blue and gray stoneware	2
2006.33.231	NE	12 inches - sterile	Stoneware	Stoneware mineral water body	44
2006.33.231	NE	12 inches - sterile	Stoneware	Stoneware mineral water body with marks	2
2006.33.231	NE	12 inches - sterile	Wood	UID Object	8
2006.33.226	NW	0-12 inches	Ceramic	Brick fragment	64
2006.33.226	NW	0-12 inches	Ceramic	Pipe bowl, decorated rim	9
2006.33.226	NW	0-12 inches	Ceramic	Pipe bowl, plain body	6
2006.33.226	NW	0-12 inches	Ceramic	Pipe stem, plain	71
2006.33.226	NW	0-12 inches	Ceramic	Pipe stem, rouletted	5
2006.33.226	NW	0-12 inches	Coarse earthenware	Frankfurter ware	23
2006.33.226	NW	0-12 inches	Coarse earthenware	Lead-glazed coarse earthenware	3
2006.33.226	NW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	15
2006.33.226	NW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	5
2006.33.226	NW	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	3
2006.33.226	NW	0-12 inches	Earthenware	Tin-glazed Purple earthenware	1
2006.33.226	NW	0-12 inches	Copper alloy	Drafting points	1
2006.33.226	NW	0-12 inches	Copper alloy	Jetton	1
2006.33.226	NW	0-12 inches	Copper alloy	Straight pin	158
2006.33.226	NW	0-12 inches	Copper alloy	Tack	1
2006.33.226	NW	0-12 inches	Copper ally & ferrous	UID Object	3

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.226	NW	0-12 inches	Glass	Case Bottles	544
2006.33.226	NW	0-12 inches	Glass	Glass Lens Fragment; circular; bi-convex	4
2006.33.226	NW	0-12 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	4
2006.33.226	NW	0-12 inches	Glass	Round wine bottles	15
2006.33.226	NW	0-12 inches	Glass	Stemmed glassware	4
2006.33.226	NW	0-12 inches	Glass	Tumbler	2
2006.33.226	NW	0-12 inches	Glass	UID glass	29
2006.33.226	NW	0-12 inches	Glass	Window Glass	122
2006.33.226	NW	0-12 inches	Lead	Fishing sinker	3
2006.33.226	NW	0-12 inches	Pewter	Buckle, shoe	1
2006.33.226	NW	0-12 inches	Pewter	Mug / tankard lid and hinge	1
2006.33.226	NW	0-12 inches	Pewter	UID object	6
2006.33.226	NW	0-12 inches	Pewter or lead	Vessel fragment	2
2006.33.226	NW	0-12 inches	Porcelain	Porcelain	1
2006.33.226	NW	0-12 inches	Refined earthenware	Creamware	15
2006.33.226	NW	0-12 inches	Serpentine, black	Polished stone mortar	1
2006.33.226	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	99
2006.33.226	NW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	11
2006.33.226	NW	0-12 inches	Stoneware	German blue and gray stoneware	18
2006.33.226	NW	0-12 inches	Stoneware	Stoneware mineral water body	146
2006.33.226	NW	0-12 inches	Stoneware	Stoneware mineral water body with marks	7
2006.33.226	NW	0-12 inches	Stoneware	Stoneware, other	1
2006.33.226	NW	0-12 inches	Stoneware	White salt-glazed stoneware	2
2006.33.226	NW	0-12 inches	Wood	UID object	4
2006.33.230	NW	12 inches - sterile	Ceramic	Brick fragment	4
2006.33.230	NW	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	2
2006.33.230	NW	12 inches - sterile	Ceramic	Pipe bowl, plain body	2
2006.33.230	NW	12 inches - sterile	Ceramic	Pipe stem, plain	14
2006.33.230	NW	12 inches - sterile	Ceramic	Pipe stem, rouletted	1
2006.33.230	NW	12 inches - sterile	Coarse earthenware	Frankfurter ware	5
2006.33.230	NW	12 inches - sterile	Coarse earthenware	Lead-glazed coarse earthenware	1
2006.33.230	NW	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	2
2006.33.230	NW	12 inches - sterile	Copper alloy	Jetton	1
2006.33.230	NW	12 inches - sterile	Copper alloy	Vessel fragment	1
2006.33.230	NW	12 inches - sterile	Glass	Case Bottles	91
2006.33.230	NW	12 inches - sterile	Glass	Glass Lens Fragment; circular; bi-convex	3
2006.33.230	NW	12 inches - sterile	Glass	Glass, flat button insert; Round; clear	1
2006.33.230	NW	12 inches - sterile	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	1
2006.33.230	NW	12 inches - sterile	Glass	Round wine bottles	28
2006.33.230	NW	12 inches - sterile	Glass	UID glass	7
2006.33.230	NW	12 inches - sterile	Glass	Window Glass	44

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.230	NW	12 inches - sterile	Leather	Heel Stack	1
2006.33.230	NW	12 inches - sterile	Leather	Heel Waist Outsole Insole	1
2006.33.230	NW	12 inches - sterile	Leather	Toe Outsole Insole	1
2006.33.230	NW	12 inches - sterile	Pewter	Buckle	1
2006.33.230	NW	12 inches - sterile	Pewter	Button	1
2006.33.230	NW	12 inches - sterile	Porcelain	Porcelain	1
2006.33.230	NW	12 inches - sterile	Refined earthenware	Creamware	3
2006.33.230	NW	12 inches - sterile	Coarse earthenware	Lead-glazed coarse earthenware	1
2006.33.230	NW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	27
2006.33.230	NW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	2
2006.33.230	NW	12 inches - sterile	Stoneware	German blue and gray stoneware	3
2006.33.230	NW	12 inches - sterile	Stoneware	Stoneware mineral water body	42
2006.33.230	NW	12 inches - sterile	Stoneware	Stoneware mineral water body with marks	1
2006.33.230	NW	12 inches - sterile	Wood	UID Object	3
2006.33.228	SE	0-12 inches	Ceramic	Brick fragment	3
2006.33.228	SE	0-12 inches	Ceramic	Pipe bowl, plain body	2
2006.33.228	SE	0-12 inches	Ceramic	Pipe stem, plain	10
2006.33.228	SE	0-12 inches	Ceramic	Pipe stem, rouletted	2
2006.33.228	SE	0-12 inches	Coarse earthenware	Frankfurter ware	7
2006.33.228	SE	0-12 inches	Earthenware	Tin-glazed Blue earthenware	2
2006.33.228	SE	0-12 inches	Glass	Case Bottles	40
2006.33.228	SE	0-12 inches	Glass	Round wine bottles	8
2006.33.228	SE	0-12 inches	Glass	Stemmed glassware	1
2006.33.228	SE	0-12 inches	Glass	UID glass	2
2006.33.228	SE	0-12 inches	Glass	Window Glass	12
2006.33.228	SE	0-12 inches	Lead	Fishing lure, part; Appears to be the "head" of a movable lure, paint on body of eye and mouth	1
2006.33.228	SE	0-12 inches	Pewter	Buckle, shoe	1
2006.33.228	SE	0-12 inches	Refined earthenware	Creamware	3
2006.33.228	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	22
2006.33.228	SE	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.228	SE	0-12 inches	Stoneware	German blue and gray stoneware	1
2006.33.228	SE	0-12 inches	Stoneware	Stoneware mineral water body	33
2006.33.232	SE	12 inches - sterile	Ceramic	Brick fragment	3
2006.33.232	SE	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	1
2006.33.232	SE	12 inches - sterile	Ceramic	Pipe bowl, plain body	1
2006.33.232	SE	12 inches - sterile	Ceramic	Pipe stem, plain	3
2006.33.232	SE	12 inches - sterile	Ceramic	Pipe stem, rouletted	2
2006.33.232	SE	12 inches - sterile	Coarse earthenware	Frankfurter ware	1
2006.33.232	SE	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	1
2006.33.232	SE	12 inches - sterile	Copper alloy	Tack	1
2006.33.232	SE	12 inches - sterile	Copper alloy	UID Object	2

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.232	SE	12 inches - sterile	Glass	Case Bottles	39
2006.33.232	SE	12 inches - sterile	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	4
2006.33.232	SE	12 inches - sterile	Glass	Round wine bottles	1
2006.33.232	SE	12 inches - sterile	Glass	Stemmed glassware	7
2006.33.232	SE	12 inches - sterile	Glass	UID glass	13
2006.33.232	SE	12 inches - sterile	Glass	Window Glass	10
2006.33.232	SE	12 inches - sterile	Pewter	Buckle	1
2006.33.232	SE	12 inches - sterile	Pewter	Miniature, figurine	3
2006.33.232	SE	12 inches - sterile	Pewter or lead	Scrap/off-cut	1
2006.33.232	SE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	16
2006.33.232	SE	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	1
2006.33.232	SE	12 inches - sterile	Stoneware	German blue and gray stoneware	1
2006.33.232	SE	12 inches - sterile	Stoneware	Stoneware mineral water body	13
2006.33.232	SE	12 inches - sterile	Wood	UID object	2
2006.33.225	SW	0-12 inches	Ceramic	Brick fragment	16
2006.33.225	SW	0-12 inches	Ceramic	Pipe bowl, decorated rim	4
2006.33.225	SW	0-12 inches	Ceramic	Pipe bowl, plain body	2
2006.33.225	SW	0-12 inches	Ceramic	Pipe stem, plain	35
2006.33.225	SW	0-12 inches	Ceramic	Pipe stem, rouletted	3
2006.33.225	SW	0-12 inches	Coarse earthenware	Frankfurter ware	9
2006.33.225	SW	0-12 inches	Coarse earthenware	Lead-glazed coarse earthenware	1
2006.33.225	SW	0-12 inches	Earthenware	Tin-glazed Blue earthenware	2
2006.33.225	SW	0-12 inches	Earthenware	Tin-glazed Plain earthenware	3
2006.33.225	SW	0-12 inches	Earthenware	Tin-glazed Polychrome earthenware	2
2006.33.225	SW	0-12 inches	Copper alloy	Jetton	1
2006.33.225	SW	0-12 inches	Copper alloy	Pen knife scale	1
2006.33.225	SW	0-12 inches	Copper alloy	Straight pin	7
2006.33.225	SW	0-12 inches	Copper alloy	Tack	1
2006.33.225	SW	0-12 inches	Copper alloy	UID Object	1
2006.33.225	SW	0-12 inches	Glass	Case Bottles	133
2006.33.225	SW	0-12 inches	Glass	Decanter/pitcher	1
2006.33.225	SW	0-12 inches	Glass	Glass Lens Fragment; unknown	1
2006.33.225	SW	0-12 inches	Glass	Modern beer bottle, brown; 20th Century beer bottle, curved	2
2006.33.225	SW	0-12 inches	Glass	Modern beer bottle, green; 20th Century beer bottle (Rolling Rock?), curved	1
2006.33.225	SW	0-12 inches	Glass	Round wine bottles	42
2006.33.225	SW	0-12 inches	Glass	Stemmed glassware	2
2006.33.225	SW	0-12 inches	Glass	Tumbler	2
2006.33.225	SW	0-12 inches	Glass	UID glass	4
2006.33.225	SW	0-12 inches	Glass	Window Glass	32
2006.33.225	SW	0-12 inches	Pewter	Buckle	1

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.225	SW	0-12 inches	Pewter	Buckle, shoe	1
2006.33.225	SW	0-12 inches	Refined earthenware	Creamware	5
2006.33.225	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware bottle	55
2006.33.225	SW	0-12 inches	Stoneware	Brown salt-glazed stoneware jar	10
2006.33.225	SW	0-12 inches	Stoneware	German blue and gray stoneware	5
2006.33.225	SW	0-12 inches	Stoneware	Stoneware mineral water body	74
2006.33.225	SW	0-12 inches	Stoneware	Stoneware mineral water body with marks	1
2006.33.229	SW	12 inches - sterile	Ceramic	Brick fragment	71
2006.33.229	SW	12 inches - sterile	Ceramic	Pipe bowl, decorated rim	3
2006.33.229	SW	12 inches - sterile	Ceramic	Pipe bowl, plain body	9
2006.33.229	SW	12 inches - sterile	Ceramic	Pipe stem, decorated	1
2006.33.229	SW	12 inches - sterile	Ceramic	Pipe stem, plain	47
2006.33.229	SW	12 inches - sterile	Ceramic	Pipe stem, rouletted	9
2006.33.229	SW	12 inches - sterile	Coarse earthenware	Frankfurter ware	22
2006.33.229	SW	12 inches - sterile	Coarse earthenware	Lead-glazed coarse earthenware	4
2006.33.229	SW	12 inches - sterile	Earthenware	Tin-glazed Blue earthenware	6
2006.33.229	SW	12 inches - sterile	Earthenware	Tin-glazed Plain earthenware	7
2006.33.229	SW	12 inches - sterile	Earthenware	Tin-glazed Polychrome earthenware	1
2006.33.229	SW	12 inches - sterile	Earthenware	Tin-glazed Purple earthenware	1
2006.33.229	SW	12 inches - sterile	Copper alloy	Buckle, Shoe	1
2006.33.229	SW	12 inches - sterile	Copper alloy	Eyelet for hook	1
2006.33.229	SW	12 inches - sterile	Copper alloy	Hook	2
2006.33.229	SW	12 inches - sterile	Copper alloy	Jetton	1
2006.33.229	SW	12 inches - sterile	Copper alloy	Straight pin	93
2006.33.229	SW	12 inches - sterile	Copper alloy	UID object	12
2006.33.229	SW	12 inches - sterile	Glass	Case Bottles	345
2006.33.229	SW	12 inches - sterile	Glass	Decanter/pitcher	1
2006.33.229	SW	12 inches - sterile	Glass	Glass Lens Fragment; circular; bi-convex	1
2006.33.229	SW	12 inches - sterile	Glass	Round wine bottles	103
2006.33.229	SW	12 inches - sterile	Glass	Stemmed glassware	7
2006.33.229	SW	12 inches - sterile	Glass	UID glass	22
2006.33.229	SW	12 inches - sterile	Glass	Window Glass	99
2006.33.229	SW	12 inches - sterile	Lead	Fishing / net sinker; Barrel-Shaped	7
2006.33.229	SW	12 inches - sterile	Lead	Fishing sinker; Mark "1", steel wire attached	1
2006.33.229	SW	12 inches - sterile	Organic	Coal	1
2006.33.229	SW	12 inches - sterile	Pewter	Buckle	2
2006.33.229	SW	12 inches - sterile	Pewter	Miniature, figurine	1
2006.33.229	SW	12 inches - sterile	Pewter	UID Object	1
2006.33.229	SW	12 inches - sterile	Pewter or lead	Scrap / off-cut	2
2006.33.229	SW	12 inches - sterile	Porcelain	Porcelain	3
2006.33.229	SW	12 inches - sterile	Refined earthenware	Creamware	9
2006.33.229	SW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware bottle	83

Provenience	Quadrant	Depth	Material	Artifact Description	Count
2006.33.229	SW	12 inches - sterile	Stoneware	Brown salt-glazed stoneware jar	2
2006.33.229	SW	12 inches - sterile	Stoneware	German blue and gray stoneware	17
2006.33.229	SW	12 inches - sterile	Stoneware	Stoneware mineral water body	161
2006.33.229	SW	12 inches - sterile	Stoneware	Stoneware mineral water body with marks	10
2006.33.229	SW	12 inches - sterile	Stoneware	Stoneware, other	1
2006.33.229	SW	12 inches - sterile	Stoneware	White salt-glazed stoneware	2
2006.33.229	SW	12 inches - sterile	Wood	UID Object	14

Appendix F

Correspondence with Researchers

Dr. Peter Davey
Personal Communication
2009-2010

From: [Davey, Peter](#)
To: [Debra J. Wells](#)
Subject: RE: Tobacco pipes from the Roosevelt Inlet Shipwreck
Date: Sunday, January 10, 2010 7:24:19 AM

Dear Debra,

You certainly have a fascinating conundrum. I am away from home at the moment but will be back in a day or two and can then look to see what I may have that might help.

In the meanwhile one or two questions:

How strong is the evidence that identifies the wreck as the HMS Severn?

What do you know of its movements before arriving off Delaware Bay?

Do you have any bowls without marks and, if so, are they in the same forms as the marked ones?

I will hope to write again during next week,

All good wishes,

Peter

From: Debra J. Wells [Debra@searchinc.com]
Sent: 08 January 2010 17:39
To: Davey, Peter
Subject: Tobacco pipes from the Roosevelt Inlet Shipwreck

Dear Dr. Davey,

I am writing in the hope that you might be able to shed some light on a tobacco pipe conundrum. I am currently doing the analysis and interpretation of a shipwreck recovered from Delaware Bay, just off of Lewes, Delaware. Included in the assemblage from this vessel were a wide variety of slipware, creamware, a mixture of Dutch and English style bricks, and over 4,500 tobacco pipe fragments. Of the pipe fragments, 870 had makers marks, all of which appear to be of Dutch origin. I've taken the liberty of attaching a PDF file with illustrations of the marks and the information I've been able to glean regarding them. The conundrum lies in the fact that this vessel had been identified as the HMS Severn, which sank in Delaware Bay in 1774. From the research I've been able to find, it would seem improbable that an English vessel of this time period would only be carrying Dutch pipes given the protective nature of the English mercantile system and various tariffs.

As I do more and more research into this topic, your name keeps rising to the top of the list of researchers. Would it be possible to point me in the direction of information regarding the distribution of tobacco pipes during the late eighteenth century? Based on the morphology of the ceramics, glass, and other items recovered, this vessel does seem to date from between 1770 and 1790. Any help would be enormously appreciated.

Kind regards,
Debra

Debra J. Wells, M.A., RPA
Archaeologist/Lab Director

From: [Davey, Peter](#)
To: [Debra J. Wells](#)
Subject: RE: Tobacco pipes from the Roosevelt Inlet Shipwreck
Date: Monday, February 01, 2010 2:51:57 PM

Dear Debra,

I am so sorry to be so tardy in replying to you. I have just returned to the Isle of Man from a second unlooked for absence in the UK.

I have spent a little while looking through my papers to see whether I could find any quantity of Dutch pipes on English vessels, in particular naval ones. I haven't found any. Groups from merchant vessels can sometimes be shown to have been purchased at various ports of call and are usually seen as items belong to the individual sailors. Again you will also know that crates of unused pipes representing part of the cargo have been found on wrecks in various places.

In any case Dutch pipes are comparatively rare finds in the British Isles; there does not seem to have been any concerted trade in them. In the early 17th century before the Anglo-Dutch wars they do turn up especially in east coastal towns such as Great Yarmouth and Aberdeen. But pipes of the period you have them are extremely rare indeed.

Given the numbers that you have found and their dating it seems very unlikely that your ship is British. This is an argument from silence I know, but if the Severn the pipes would have had to be purchased in places not likely to have them. Four of the pieces you sent to me look French (2006.33. 154, 178, 185, 201). With your permission I will send the photos to a French colleague who has recently published a monograph on pipes produced at St Quentin (Gard) during this period. There were much greater numbers of Dutch pipes circulating in France in the 18th century.

Another line of approach might be to look at the slipware and the tin-glaze. Slipware from the various manufacturing centres in Britain is fairly distinctive. If the slipware - a fairly low value item - is not British it would help confirm the negative. I spent some years working at one centre (Buckley) in north Wales and am familiar with most other British slipware types, so perhaps you might send a few photographs for me to look at? The tin-glazed pottery may also be difficult to source, but again by the later 18th century (ie quite unlike the 17th) the products of factories in Bristol, London and Liverpool can often be distinguished from each other and usually from continental centres

Another point is whether the pipes have been smoked - from the photographs some seem to have been. Can you tell? They do not look like a single batch.

Your finds seem really fascinating and enigmatic.

Let me know if I can help further and apologies again for the long delay.

All good wishes,

Peter

From: Debra J. Wells [Debra@searchinc.com]
Sent: 24 January 2010 21:38
To: Davey, Peter
Subject: RE: Tobacco pipes from the Roosevelt Inlet Shipwreck

Dear Peter,

The identification of the vessel as the HMS Severn is definitely not ironclad. The Severn was one of several vessels that sank in the vicinity during the last quarter of the eighteenth century. At this point, identification is based solely on the historic descriptions of the wreck location and the lack of Pearlware ceramics on board. This identification was made during the initial Phase II study conducted prior to SEARCH's involvement with the wreck. We were hired by the state of Delaware to conduct a Phase III excavation and analysis of the wreck. Artifact analysis was carried out under the aegis of the State of Delaware and we are tasked with doing a site analysis based on their notes, tables, descriptions, and photographs. Remote control archaeology is not always pleasant. I am uncomfortable making an identification based on negative evidence (lack of Pearlware) for a vessel of this time period. The bulk of the items recovered appear to be of Northern European origin to me (Tolles and Selters branded mineral water bottles, several variants of Delft [which have not been identified as to origin of manufacture], creamware, slipwares of possible German or English origin, wheel engraved tablewares, casks of nails, pewter toy soldiers, a variety of copper alloy buttons, and pewter and copper alloy buckles, to name a few).

There are unmarked bowls but all appear to be of Dutch origin based on bowl morphology. Many of the stems are also marked (roulette, "Gouda", "Speernay" are a few of the marks). I've attached a couple of images for you to see.

As for the history of the Severn, she ported out of Bristol, England and appears to primarily run the Bristol to Philadelphia shuttle with occasional calls to New York, Leghorn (Italy), Barcelona (Spain), and Lisbon (Portugal). She appears in the Lloyds Register for the first time in 1769 and made approximately 10 voyages between 69 and 1774 when she was lost inbound from England in Delaware Bay due to flooding.

Once again, thanks so much for any help you can provide. This is a very interesting project; the hope is that much more research will be carried out by graduate students in the coming years and I would very much like my analysis to provide a good foundation for future work. I personally am doubtful regarding the identification of this wreck as the vessel Severn and would like to present an impartial analysis that fairly represents the material culture. Please let me know if I can provide any additional information.

Kind regards,

Debra

Debra J. Wells, M.A., RPA
Archaeologist/Lab Director

From: [Davey, Peter](#)
To: [Debra J. Wells](#)
Subject: RE: 9th
Date: Saturday, February 06, 2010 4:41:35 AM

Debra,

I have had a reply from both Duncan and Derek. The slipwares and redwares are not British. They both think Low Countries or possibly neighbouring parts of north Germany. The buff sherd has stumped us so far; they think also possible Weser/Werra (though by nor means normal to either production centre) but also possibly southern European.

So I suggest I write to two further specialists. David Gaimster (of Soc of Ants in London) about a possible German origin and Hugo Blake about the just possible Mediterranean.

Is that OK?

My French correspondant has replied with interest about the pottery which might just possibly be French ie pas de Calais ie Low Countries really. He has still to make any remarks about the pipes!!

All for now.

I will have a closer look at the tin glaze sometime this weekend.

From: Debra J. Wells [Debra@searchinc.com]
Sent: 02 February 2010 15:18
To: Davey, Peter
Subject: RE: 9th

Dear Peter,

Thanks so much for looking at this material. This is such an interesting project and is made more so by information such as you've provided. I am seriously considering whether or not this vessel is a Revolutionary War era blockade runner of some sort. With the mostly Continental cargo, I am doubtful of it being an English vessel at all.

Yes, if you would be so kind and to contact Brown and Hall and pass along my contact information if they are interested in this project, I would very much appreciate it. Thanks so much for contact Andre Leclair for me. How very unusual if these molded pipes turn out to be French!

As always, thank so much again for your continued interest and help. I look forward to hearing from you again.

Best regards,
Debra

Debra J. Wells, M.A., RPA
Archaeologist/Lab Director

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352-333-0049 ext. 307 phone 706-566-3950 cell 352-333-0069 fax
debra@searchinc.com www.searchinc.com

Archaeology-Architectural History & History-Maritime Archaeology

-----Original Message-----

From: Davey, Peter _____
Sent: Tuesday, February 02, 2010 4:53 AM
To: Debra J. Wells
Subject: RE: 9th

Dear Debra,

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My own detailed knowledge of continental imports into Britain ends in the 16th century I'm afraid so I think you need to ask others. There are two people that I can immediately think of who might be prepared to assist - Duncan Brown in Southampton and Derek Hall in Perth (Scotland). They both have wide experience of such material. If it would help I will sound them out for you.

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I have written to Andre Leclaire the French clay pipe expert for his advice about the four decorated bowl fragmetns. I am intrigued to know what he will say!

With every good wish,

Peter

From: Debra J. Wells [Debra@searchinc.com]
Sent: 01 February 2010 20:53
To: Davey, Peter
Subject: 9th

Debra J. Wells, M.A., RPA
Archaeologist/Lab Director

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www.searchinc.com <<http://www.searchinc.com>>

Archaeology-Architectural History & History-Maritime Archaeology

From: [Davey, Peter](#)
To: [Debra J. Wells](#)
Subject: RE: 9th
Date: Sunday, February 07, 2010 4:39:48 AM

Debra,

I will let you know how I get on.

Regards,

Peter

From: Debra J. Wells [Debra@searchinc.com]
Sent: 07 February 2010 02:06
To: Davey, Peter
Subject: Re: 9th

Hi Peter,

Thanks so much for the information. Yes, please do share the images with your associates. I so appreciate any information I can receive.

Best,

Debra

Debra J. Wells, M.A., RPA
Archaeologist/Lab Director

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debra@searchinc.com www.searchinc.com

Archaeology—Architectural History & History—Maritime Archaeology

----- Original Message -----

From: Davey, Peter
To: Debra J. Wells
Sent: Sat Feb 06 04:41:31 2010
Subject: RE: 9th

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Archaeology-Architectural History & History-Maritime Archaeology

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With every good wish,

Peter

From: Debra J. Wells [Debra@searchinc.com]
Sent: 01 February 2010 20:53
To: Davey, Peter
Subject: 9th

Debra J. Wells, M.A., RPA
Archaeologist/Lab Director

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Archaeology-Architectural History & History-Maritime Archaeology

From: [Davey, Peter](#)
To: [Debra J. Wells](#)
Subject: sherds from Delaware bay
Date: Wednesday, February 10, 2010 2:40:26 PM

Dear Debra,

Is it possible to have images of the reverse of the sherds. The Italians want to know whether they are glazed or not.

Some interest is being shown,

Peter

From: [Davey, Peter](#)
To: [Debra J. Wells](#)
Subject: RE: Ceramics
Date: Monday, April 05, 2010 5:57:21 AM

Hello Debra,

I have collected together a few more opinions and re-checked others. In brief the outcome is general agreement that the slipwares are low countries, one sherd is late (ie 18th century) Weser ware and the Tin-glaze north-eastern French or Low Countries too. The pipes you already know about. All the pieces fit with a later 18th-century date.

How are you hoping to publish this group of ceramics? I would need to go to Liverpool or, preferably London, to get together definitive (as far as this is possible) documentation (I do visit both fairly regularly). This is especially true for the tin-glaze but also to some extent for the slipware as much of the literature I have here at home deals with 16th and 17th century versions of what you have. Or you would need to write to a number of individuals who might be prepared to report on individual pieces for you.

I would be prepared to put together a report for you if you let me know exactly what was wanted; but it would take a little while to complete.

Let me know.

It is certainly a very interesting and coherent group of finds.

All good wishes,

Peter

From: Debra J. Wells [Debra@searchinc.com]
Sent: 25 March 2010 23:08
To: Davey, Peter
Subject: Ceramics

Hi Peter,

I just wanted to drop you a quick note and ask if you had heard any additional comments from your colleagues regarding the ceramics from Delaware. Also, would you possibly have any references you might recommend that would have photos and discussion of the French slipwares and tin-glazed.

I so appreciate your continued assistance with this research. I would very much like to establish a definitive id for some of these things.

Kind regards,
Debra

Debra J. Wells, M.A., RPA
Archaeologist/Lab Director

From: [Davey, Peter](#)
To: [Debra J. Wells](#)
Subject: RE: Ceramics
Date: Tuesday, April 06, 2010 5:07:42 AM

Hello Debra,

I understand your position. I have discussed the slipwares with the three most knowledgeable and experienced UK ceramic archaeologists and they and I all say definitively that the slipwares are not British. The clear consensus is that they are 'Low Countries' with the specific identification of the two rim sherds DSCN 0204 as late (18th century) Weser slipware. As the 'Low Countries' slipwares are relatively crude and cannot be attributed to a particular centre there must remain a possibility that some of them also derive from neighbouring areas of the north German plain.

The tin glaze is more difficult. My opinion is that they are all from north-east France or the Low Countries. I realize that some of the smaller, individual sherds, might be English, but those with sufficient design on them seem much closer to continental types. For example the most complete plate compares well with a number of vase and flower designs illustrated in *Nederlandse Majolica* by Dingeman Korf (Haarlem 1981) cf pp 231-237, but, as with most of the books I have here he stops at the end of the 17th century. Some of your pieces also remind me of examples I have seen in Luik. This needs a lot more research to sort out.

In short none of the specialists I have contacted have identified any of your pottery as British. They have, unanimously agreed that the slipwares are Low Countries in origin. Two sherds are Weser slipware. The tin-glaze is more difficult but probably derives from the same general area of north-west continental Europe.

And you have the Dutch-type clay pipes. I'm still chasing the decorated bowl fragments (Your: Artefact 034) - but they are not English either.

I hope that helps for now.

With all good wishes,

Peter

Faye Stocum
Personal Communication
2008-2009

From: [Stocum Faye \(DOS\)](#)
To: [Debra J. Wells](#)
Subject: FW: Some notes on the artifact photos
Date: Tuesday, July 15, 2008 1:07:23 PM
Attachments: [Lewes DE arts.doc](#)
[Chap04 low_res.pdf](#)

Debra-

Here is the e-mail response from Mary Beaudry. The first attachment includes her Notes on the artifacts. The 2nd attachment included a section of a book wherein Mary contributed analysis of needlework artifacts from a site in California, which she discusses below.

Happy reading!

Faye

*Faye L. Stocum
Archaeologist
DHCA Lewes Archaeology Lab/PEL Bldg.
UD/College of Marine & Earth Studies
700 Pilottown Road
Lewes, DE 19958
(302) 645-6654 (phone)
(302) 645-4332 (fax)*

From: mbeaudrycomcastnet@gmail.com on behalf of Mary C. Beaudry
Sent: Sun 6/8/2008 12:28 PM
To: Stocum Faye (DOS)
Subject: Some notes on the artifact photos

Hello, Faye,

I regret that it has taken me so long to get you some feedback on the artifact images that you sent. Since my book has come out I am inundated with requests to identify artifacts, and have an inbox full of such requests. None include an offer of a consulting fee or the like, and I am not in the position to drop everything and do this sort of thing unless I take a Sunday morning, such as I have done now, to see what if anything I can say about someone's objects.

This is an interesting group of objects, and I'm pretty sure that not all of them are sewing/needlework related. It would of course be useful to consider the items in their finds context, knowing what else was with them, assuming that items of a similar nature would be packed and shipped together. The stacked thimbles provide some useful insight into the way that these items were shipped over and underscores the fact that by the late 17th century these were being mass-produced. None of this stuff is very fancy.

I attach my notes on the images, keyed to images and artifact numbers; I am also sending you a draft version of a portion of a report that Mary and Adrian Praetzellis asked me to contribute to (I spent several days at their lab after the SHAs in Sacramento and physically examined the objects, which makes me a bit more confident of my identifications). Their collection had quite a few of the spool/reel ends such as those in some of your images. These were made in nearly identical form from the 17th-19th centuries, so don't be too concerned that the ones from

San Francisco are 19th-century in date. See page 31 of this draft chapter.

I hope this helps a bit and arrives in time to be of use. I fear that even though it is summer my schedule did not open up at the end of classes as it usually does, so I have taken even longer to get to this than I expected.

All the best,
Mary

--

Mary C. Beaudry, PhD, RPA, FSA
Professor of Archaeology & Anthropology
Department of Archaeology
Boston University
675 Commonwealth Avenue
Boston, MA 02215-1406
tel. 617-358-1650

people.bu.edu/beaudry/Mary_Beaudrys_Research/Welcome.html

Notes on artifacts from Lewes, Delaware shipwreck

Mary C. Beaudry

Folder #1 Grabowski "needlecase"

Cylindrical turned bone tube, truncated cone shape, with internal screw threads at either end; cordons and incising decoration exterior.

This is unlikely to have been a needlecase; it is really far too large in diameter, though it is possible it could have served the purpose if a bit of cloth or pincushion or emery were inserted into the tube. My guess is that it was more likely a ferrule of some sort. It has a lot of wear that makes one think it was part of a handle. Could possibly have been a cotton or thread barrel but the diagnostic parts are not present.

Folder #2

Image 022, 023 Item #2006.33.143 turned bone or wood base of reel/spool holder?

Image 063, 068, Item #2006.33.177 turned bone tubular object, possibly a needlecase; has internal screw threads at one end, flange for "snap-on" fitting at other end (seems this way from photo), polished/worn from use and very scratched (note that scratches are all in the same direction and "around" the tube vs. along it—interesting but I cannot explain it). This item is plain and rather crude and not the sort of thing that would have been part of a typical needleworker's kit. It is, however, about the right size (length, diameter) for a needlecase, but perhaps one for a man (e.g., sailor who mended canvas?).

Image 117, Item #2006.33.143 turned bone or wood base of reel/spool holder; could be top of a thread barrel though I am not sure that these would have been so thick or would have had interior threading

Image 263, Item #2006.33.198 is this iron? it looks very like a pomander, an item worn on a thong or ribbon round the neck and filled with herbs or the like to deflect unpleasant odors from the wearer's sensitive nose; pomanders not usually of metal but it's always possible; would of course have had a lid on top, or closures at either end

Folder #3

Image 052 scn0015, Assorted copper alloy thimbles, some still “stacked” for shipping; all have mechanical knurlings, are two-piece, deep-drawn, rolled rim, seem to be a mix of women’s and “girl’s” or “maid’s” size (Item #2006.33.198 is example of the latter); all 18th century (no surprise there)

Image 056, assorted thimbles (as in Image 052); most I can say about them from this angle is that they all have mechanical knurlings, likely are deep drawn & probably two-piece

Folder 4a

Image 087 – These for the most part possibly copper alloy thimble cases (the two-piece ones with screw-thread fastenings); cannot tell manufacturing technique from image. They seem a little thick to be spun; possibly cast? Are there mold marks?

Image 090

Close ups of two artifacts also shown in 087? #2006.33.155 and #2006.33.179 “barrel shaped” – not clear if there is a threaded lid or cap so perhaps these are cotton barrels/thread holders?

#2006.33.204, “acorn”-shaped thimble case

Image 093

#2006.33.155 and #2006.33.179 cotton barrels? Note that it would be unusual to have these in copper alloy so I’m very uncertain about this identification,

Image 095

#2006.33.204, “acorn”-shaped thimble case ?

Remarks: none of these items are of high quality; most thimble cases would have some sort of interior fitting, usually a post, to keep the thimble in place and prevent it from rattling around inside the case. Scent bottle cases often look on the exterior exactly like thimble cases; these items are a bit too ordinary to have been scent bottle cases, however.

Folder 4b

Image 137, Image 141 – Item #2006.33.185 possible thimble case (unless all one piece?); looks as though assembled of several parts, which is typical of 18th-century thimbles so perhaps of some thimble cases; Image 11 drawing of cast ? decoration on top of the item = double-headed eagle, widely used symbol of the

Byzantine empire, Holy Roman Empire, later of Imperial Russia, also a Masonic emblem. If this drawing is of the top of item #2006.33.185, the artist has both failed to see elements of the design (I believe the eagle is holding an orb and a scepter in its talons, closely resembling the coat of arms of the Russian Federation) and added some (I do not see those circles behind the heads). Image 11, drawing, is stylized and lacks many elements that help identify the symbol as a coat of arms, sports emblem, etc., but it is altogether possible that it is deliberately stylized.

I have not located any examples of the double-headed eagle design used on needlework accessories, but this does not mean much—just about everything known to humankind was put to use on both implements and accessories, and an item such as this is not the sort of thing that tends to attract collectors.

Folder 5

Images 054, 057, scan0028 – Item #2006.33.218, not a needlework tool, but possibly an embellishment for a fitted needlework box (though it is a bit large for that); in the drawing the item is rendered upside down, the flower heads should be on top of the stalks and the tab with loop should be on the bottom. Any such decorative appliqué for a needlework box would have had some company, that is, an identical piece for the other end of the box (this is obviously not a keyhole escutcheon so would not have been on the front), other bits such as corner protectors, etc. I have not seen examples of copper alloy appliqués on needlework boxes, but then books show the fancy collectors' items, not much in the way of the ordinary or everyday.

Dr. Hugh Willmott
Personal Communication
2009

From: [Hugh Willmott](#)
To: [Debra J. Wells](#)
Subject: Glass and things
Date: Wednesday, January 14, 2009 6:01:15 AM

Dear Debra,

First I just wanted to say how much I enjoyed your talk, I am very glad you came and shared your wonderful material with us.

My own particular research interest is in glass, and I would therefore be very interested to see any/all pictures you might have of your material. I would be able to confirm its origin (whether it be English, Dutch or Bohemian) and make any other appropriate comments.

I also mentioned Jerzy Gawronski to you at the conference. Not only is he head of the Amsterdam Bureau Monumenten & Archeologie, he is also a leading expert on VOC shipping. I know he would be very interested to learn of your vessel and cargo. Although he's rather busy and might take a while to respond, I do urge you to contact him as he is very friendly and helpful. If you like you can say I told you to get in touch and his email is;

j.gawronski@dab.amsterdam.nl

I'll keep this email short as I suspect you'll get many others, but I hope to hear from you soon.

Best wishes,
Hugh

--

Dr Hugh Willmott FSA MIFA
Lecturer in European Historical Archaeology
Department of Archaeology
University of Sheffield
Northgate House, West Street
Sheffield S1 4ET, United Kingdom
Phone +44 (0) 114 222 2940
Fax +44 (0) 114 272 2563

From: [Hugh Willmott](#)
To: [Debra J. Wells](#)
Subject: Re: Glass and things
Date: Monday, September 07, 2009 9:20:14 AM
Attachments: [catalogue.doc](#)

Dear Debra,

Please find attached a quick catalogue of the glass I could identify from the photographs. I think a date around 1775 would fit perfectly with the glass. This is mainly based on the wine glasses with facet cut stems that come particularly popular from 1775-1800. However, there is at least one fragment of an air twist stem, a form that ceased to be produced 1750-75, so if I had to, I would take a date in the middle; 1775. Obviously don't take this as unbending.

Not sure why you didn't here back from Jerzy, but he is incredibly busy, so please don't take it negatively. The other person to contact is Michel Hulst. He's the best guy working on glass in The Netherlands and based in Amsterdam with Jerzy. DO drop him a line saying I told you to. He is incredibly helpful. His email is;

michel.hulst@gmail.com

If I can be of more help, or if you have more glass pictures, do let me know.

Hugh

--

Dr Hugh Willmott FSA MIFA
Head of Graduate Taught Programmes
Lecturer in European Historical Archaeology
Department of Archaeology
Northgate House
West Street
Sheffield, S14ET

Reference No	Object	Photographs
2006.33.123	jelly base	October 2006 Artifact 283, 287, 288, 290, 293
2006.33.134	uncertain rim	October 2006 Artifact 198
2006.33.166	jelly base	October 2006 Artifact 301, 302, 303
2006.33.167	tankard base	October 2006 Artifact 191, 193
2006.33.202	uncertain rim	October 2006 Artifact 188
2006.33.203	decanter stopper, facet cut	October 2006 Artifact 137, 139
	Uncertain	October 2006 Artifact 233
2006.33.204	tumbler rim? Ribbed?	October 2006 Artifact 120
2006.33.207	decanter stopper, facet cut	October 2006 Artifact 137, 139
2006.33.212	uncertain	October 2006 Artifact 072
2006.33.215	tumbler rim, engraved	October 2006 Artifact 103
	Uncertain rim	October 2006 Artifact 126, 129
2006.33.216	wine glass, facet cut stem	October 2006 Artifact 072
	tankard? Trailed	October 2006 Artifact 180, 181, 183
2006.33.217	wine glass, plain rod stem, lower bowl	October 2006 Artifact 021
	wine glass, face cut stem	October 2006 Artifact 072
	tumbler, ribbed and engraved	October 2006 Artifact 236, 240, 248, 252
2006.33.218	wine glass, plain rod stem, lower bowl	October 2006 Artifact 011
	tumbler body, engraved	October 2006 Artifact 108
2006.33.219	uncertain rim	October 2006 Artifact 126, 129
2006.33.221	tumbler rim, engraved	October 2006 Artifact 226
2006.33.225	wine glass, lower stem	October 2006 Artifact 072
	Tankard handle	October 2006 Artifact 202, 203
2006.33.226	tumbler base	October 2006 Artifact 1208, 215
2006.33.227	tankard? Trailed	October 2006 Artifact 167
2006.33.229	wine glass, air twist stem, lower bowl	October 2006 Artifact 063, 065, 069

	wine glass stem?	October 2006 Artifact 072
	tumbler? Engraved	October 2006 Artifact 110
	tankard handle	October 2006 Artifact 157, 165
	uncertain	October 2006 Artifact 231
2006.33.231	tankard? Trailed	October 2006 Artifact 167, 174
2006.33.232	wine glass, plain rod stem, base	October 2006 Artifact 032, 033
	wine glass, facet cut stem	October 2006 Artifact 072
2006.33.234	tankard rim? Trailed	October 2006 Artifact 167, 170

Appendix G
Artifact Analysis Tables

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Table G-1. MNI of Frankfurter ware vessels within the Roosevelt Inlet Shipwreck site collection.

Vessel #	Provenience	Rim Radius (cm)	Base Radius (cm)	Paste color	Glaze color	Notes
1	2006.33.168	9.40	n/a	5Y 8/1	5Y 7/4	Pale Yellow Glaze
2	2006.33.148	10.20	n/a	unknown	unknown	Heavily mineralized rim
3	2006.33.201	9.50	n/a	5Y 8/1	10Y-5GY 6/10Y	Pale Olive Glaze
4	2006.33.229	18.75	n/a	2.5Y 8/1	10 YR 7/6	Brownish Yellow Glaze
5	2006.33.228	14.00	n/a	5Y 8/1	2.5Y 6/6	Olive Yellow Glaze
6	2006.33.207	21.50	n/a	5Y 8/1	5Y 7/4	Pale Yellow Glaze
7	2006.33.203	12.10	n/a	2.5Y 8/1	5Y 7/4	Pale Yellow Glaze
8	2006.33.204	too small	n/a	2.5Y 8/1	2.5Y 7/6	Yellow-Olive Yellow Glaze
9	2006.33.204	15.40	n/a	5Y 8/1	2.5Y 7/6	Yellow-Olive Yellow Glaze
10	2006.33.201	13.60	n/a	2.5Y 8/2	2.5Y 7/4	Pale Yellow Glaze
11	2006.33.225	11.00	n/a	2.5Y 8/1	2.5Y 7/6	Yellow-Olive Yellow Glaze
12	2006.33.217	too small	n/a	unknown	10Y-5GY 6/10Y	Pale Olive Glaze
13	2006.33.204	too small	n/a	2.5Y 8/1	2.5Y 7/6	Yellow-Olive Yellow Glaze
14	2006.33.128	n/a	12.60	5Y 8/1	10Y-5GY 6/10Y	Pale Olive Glaze
15	2006.33.231	n/a	6.40	2.5Y 8/1	10Y-5GY 6/10Y	Pale Olive Glaze
16	2006.33.230	n/a	10.55	2.5Y 8/1	2.5 Y 6/6	Olive Yellow Glaze
17	2006.33.217	n/a	16.10	2.5Y 8/1	2.5Y 6/6	Olive Yellow Glaze
18	2006.33.193	n/a	12.25	5Y 8/1	10Y-5GY 6/10Y	Pale Olive Glaze
19	2006.33.226	n/a	13.35	5Y 8/1	5Y 6/4	Pale Olive Glaze
20	2006.33.228	n/a	n/a	unknown	unknown	spout fragment; mineralized
21	2006.33.229	n/a	n/a	2.5Y 8/1	2.5Y 7/6	Yellow-Olive Yellow Glaze; handle sherd

Table G-2. MNI and decoration motifs of tin-glazed earthenware by vessel base.

Base #	Provenience	Ware Form	Base Type	Body Color	Motif Color	Motif Style	Notes
1	2006.33.207	Plate	Undetermined	white w/blue tint	blue	Chinoiserie - landscape	
2	2006.33.220	Plate	Undetermined	white w/blue tint	blue	Chinoiserie - landscape w/figure	
3	2006.33.231	Plate	Undetermined	white w/blue tint	blue	Chinoiserie - floral	1 mend
4	2006.33.197	Plate	Flat	white w/purple tint	purple	Floral	
5	2006.33.190	Plate	Flat	white w/blue tint	blue	plain border; floral	
6	2006.33.190	Plate	Flat	white w/blue tint	blue	Floral	
7	2006.33.188	Plate	Flat	white ;stained	blue	plain border; floral	
8	2006.33.185	Plate	Flat	white; stained	blue	plain border	
9	2006.33.173	Plate	Flat	white; stained	blue	plain border; floral	
10	2006.33.220	Plate	Flat	white; stained	blue	plain border; floral	
11	2006.33.156	Plate	Flat	white; stained	blue	plain border; floral	
12	2006.33.149	Plate	Flat	white w/blue tint	blue	plain border; floral	
13	2006.33.193	Plate	Flat	white; stained	blue	plain border; floral	2 mends
14	2006.33.185	Plate	Flat	white; stained	blue	plain border; floral	
15	2006.33.170	Plate	Flat	white; stained	blue	plain border; floral	
16	2006.33.185	Plate	Flat	white; stained	blue	plain border; floral	
17	2006.33.207	Plate	Flat	white; stained	blue	plain border; floral	
18	2006.33.207	Plate	Undetermined	white; stained	blue	undetermined	
19	2006.33.185	Plate	Flat	white; stained	blue	Floral	
20	2006.33.185	Plate	Undetermined	white; stained	blue	Floral	
21	2006.33.186	Plate	Flat	white; stained	blue	plain border; floral	
22	2006.33.189	Plate	Flat	white; stained	blue	plain border	
23	2006.33.186	Plate	Flat	white; stained	blue	plain border; floral	
24	2006.33.148	Plate	Flat	white; stained	blue	undetermined	
25	2006.33.190	Plate	Flat	white; stained	purple	Floral	
26	2006.33.196	Plate	Flat	white; stained	purple	plain border; floral	
27	2006.33.189	Plate	Flat	white; stained	purple	plain border	
28	2006.33.189	Plate	Flat	white; stained	purple	plain border; floral	
29	2006.33.231	Plate	Flat	white; stained	purple	plain border; floral	
30	2006.33.185	Plate	Flat	white; stained	purple	plain border	1 mend
31	2006.33.192	Plate	Flat	white; stained	purple	plain border	
32	2006.33.223	Plate	Flat	white; stained	purple	plain border	

Base #	Provenience	Ware Form	Base Type	Body Color	Motif Color	Motif Style	Notes
33	2006.33.217	Plate	Flat	white	purple	plain border	
34	2006.33.156	Plate	Flat	white; stained	purple	plain border	.
35	2006.33.185	Plate	Flat	white; stained	purple	plain border	
36	2006.33.132	Plate	Foot ring	white	blue	Floral	
37	2006.33.200	Plate	Foot ring	white w/blue tint	blue	Chinoiserie - floral	1 mend in provenience
38	2006.33.163	Plate	Undetermined	white; stained	blue	foliage w/stars	
39	2006.33.130	Plate	Undetermined	white; stained	blue	foliage w/stars	
40	2006.33.204	Plate	Undetermined	white; stained	blue	foliage w/stars	
41	2006.33.190	Plate	Foot ring	white; stained	none	none	
42	2006.33.162	Plate	Foot ring	white	blue	undetermined	
43	2006.33.134	Plate	Foot ring	white w/blue tint	blue	undetermined	
44	2006.33.202	Plate	Foot ring	white w/blue tint	blue	undetermined	
45	2006.33.145	Plate	Undetermined	white; stained	blue	Chinoiserie - landscape	
46	2006.33.175	Plate	Undetermined	white; stained	blue	Chinoiserie - landscape	
47	2006.33.209	Plate	Foot ring	white; stained	blue	Chinoiserie - tree	
48	2006.33.166	Plate	Foot ring	white w/blue tint	blue	Chinoiserie - trees	1 mend in provenience
49	2006.33.141	Plate	Foot ring	white; stained	blue	Chinoiserie - floral	1 mend in provenience
50	2006.33.190	Plate	Foot ring	white; stained	blue	Chinoiserie - foliage	
51	2006.33.212	Plate	Undetermined	white; stained	blue	Chinoiserie - foliage	
52	2006.33.207	Plate	Foot ring	white; stained	blue	fern	
53	2006.33.191	Plate	Undetermined	white; stained	blue	Chinoiserie - floral	
54	2006.33.186	Plate	Undetermined	white w/blue tint	blue	Chinoiserie - floral	
55	2006.33.193	Plate	Undetermined	white; stained	blue	Chinoiserie - floral	
56	2006.33.137	Plate	Undetermined	white; stained	blue	Chinoiserie - floral	
57	2006.33.163	Plate	Undetermined	white; stained	blue	Chinoiserie - floral	
58	2006.33.192	Plate	Undetermined	white; stained	blue	Chinoiserie - floral	
59	2006.33.200	Plate	Undetermined	white w/blue tint	blue	Chinoiserie - floral	
60	2006.33.158	Plate	Undetermined	white w/blue tint	blue	Chinoiserie - floral	
61	2006.33.192	Plate	Foot ring	white; stained	blue	Plain border	
62	2006.33.193	Plate	Foot ring	white; stained	blue	Chinoiserie - landscape	
63	2006.33.199	Plate	Foot ring	white; stained	blue	Chinoiserie - landscape	
64	2006.33.197	Plate	Foot ring	white; stained	blue	Chinoiserie - landscape	

Base #	Provenience	Ware Form	Base Type	Body Color	Motif Color	Motif Style	Notes
65	2006.33.189	Plate	Foot ring	white; stained	blue	Chinoiserie - scroll border w/floral	
66	2006.33.231	Plate	Foot ring	white; stained	blue	Cross hatched border	
67	2006.33.202	Plate	Foot ring	white; stained	blue	Cross hatched border	
68	2006.33.192	Plate	Foot ring	white; stained	blue	Cross hatched border	
69	2006.33.190	Bowl	Undetermined	white w/blue tint	blue	Squiggled line	1 mend in provenience
70	2006.33.135	Bowl	Foot ring	white w/blue tint	blue	Squiggled line	
71	2006.33.186	Bowl	Foot ring	white w/blue tint	blue	Squiggled line	
72	2006.33.167	Bowl	Foot ring	white; stained	blue	Squiggled line	
73	2006.33.163	Bowl	Foot ring	white; stained	blue	Squiggled line	
74	2006.33.154	Bowl	Foot ring	white; stained	none	none	
75	2006.33.189	Bowl	Foot ring	white; stained	blue	Plain border	
76	2006.33.174	Bowl	Foot ring	white; stained	blue	Floral	
77	2006.33.191	Bowl	Foot ring	white; stained	blue	Floral	
78	2006.33.227	Bowl	Foot ring	white; stained	blue	plain border; floral	
79	2006.33.204	Bowl	Foot ring	white; stained	blue	plain border	
80	2006.33.190	Bowl	Foot ring	white; stained	blue	plain border; floral	
81	2006.33.139	Bowl	Foot ring	white; stained	blue	plain border; floral	
82	2006.33.185	Bowl	Foot ring	white; stained	blue	plain border	
83	2006.33.225	Bowl	Foot ring	white; stained	blue	plain border; floral	
84	2006.33.174	Bowl	Foot ring	white; stained	blue	plain border; floral	
85	2006.33.202	Plate	Foot ring	white w/blue tint	blue	Chinoiserie	
86	2006.33.146	Bowl	Foot ring	white; stained	purple	plain border	
87	2006.33.143	Bowl	Foot ring	white; stained	blue	plain border; cross hatched	1 mend in provenience
88	2006.33.193	Bowl	Foot ring	white; stained	polychrome	Floral	
89	2006.33.177	Bowl	Foot ring	white; stained	purple	plain border; floral	
90	2006.33.203	Bowl	Foot ring	white w/blue tint	polychrome	plain border; floral	
91	2006.33.149	Bowl	Foot ring	white; stained	polychrome	plain border; floral	
92	2006.33.203	Pharmaceutical Jar	Undetermined	white; stained	none	none	
93	2006.33.218	Pharmaceutical Jar	Undetermined	white; stained	none	none	
94	2006.33.162	Plate	Foot ring	white w/blue tint	blue	Flowers in urn	COMPLETE PLATE; same as Rim # 179
95	2006.33.049	Plate	Flat	white w/blue tint	blue	floral	From hydro probe survey

Table G-3. MNI and decoration motifs of tin-glazed earthenware by vessel rim and decoration.

Rim #	Provenience	Ware Form	Body Color	Motif Color	Motif Style	Notes
1	2006.33.149	Plate	White - mineralized	Blue	Floral	
2	2006.33.201	Plate	White - mineralized	Blue	Floral	
3	2006.33.158	Plate	White - mineralized	Blue	Fruit and foliage	
4	2006.33.202	Plate	White - mineralized	Blue and yellow	Foliage	Rim edged in yellow
5	2006.33.208	Plate	White - mineralized	Blue and yellow	Floral	Rim edged in yellow
6	2006.33.123	Plate	White - mineralized	Blue	Floral - Oriental	
7	2006.33.223	Plate	White - mineralized	Blue	Flower w/foilage and stars	iron oxide staining on sherd
8	2006.33.199	Plate	White - mineralized	Blue	Flower w/foilage and stars	
9	2006.33.139	Plate	White - mineralized	Blue	Flower w/foilage and stars	3 mends; same provenience
10	2006.33.216	Plate	White - mineralized	Blue and yellow	Scroll and floral - Oriental	
11	2006.33.196	Plate	White - mineralized	Blue and yellow	Scroll and floral - Oriental	
12	2006.33.266	Plate	White - mineralized	Blue and yellow	Undetermined	Rim edged in yellow
13	2006.33.211	Plate	White - mineralized	Blue and yellow	Undetermined	Rim edged in yellow
14	2006.33.168	Plate	White - mineralized	Blue	Undetermined	
15	2006.33.192	Plate	White - mineralized	Blue	Stylized landscape - Oriental	
16	2006.33.200	Plate	White - mineralized	Blue	Stylized landscape - Oriental	
17	2006.33.204	Plate	White - mineralized	Blue and yellow	Fern	Rim edged in yellow
18	2006.33.221	Plate	White - mineralized	Blue	Flower and fern	mend w/ 2006.33.208
19	2006.33.155	Plate	White - mineralized	Blue	Ferns, flowers in urn	
20	2006.33.155	Plate	White - mineralized	Blue	Ferns, urn base	
21	2006.33.192	Plate	White - mineralized	Blue	Ferns, urn base	
22	2006.33.139	Plate	White - mineralized	Blue	Fern	
23	2006.33.199	Plate	White w/blue tint	Blue	Fern, flowers, scallop border	
24	2006.33.193	Plate	White w/blue tint	Blue	Fern, flowers, scallop border	
25	2006.33.197	Plate	White w/iron oxide	Blue	Fern, flowers, scallop border	
26	2006.33.200	Plate	White w/blue tint	Blue	Fern and scallop border	
27	2006.33.162	Plate	White w/blue tint	Blue	Fern and scallop border	
28	2006.33.167	Plate	White w/iron oxide	Blue	Fern border	

Rim #	Provenience	Ware Form	Body Color	Motif Color	Motif Style	Notes
29	2006.33.156	Shallow bowl	White w/iron oxide	Blue and yellow	Scroll and dot border	Rim edged in yellow
30	2006.33.220	Shallow bowl	White - mineralized	Blue	Trellis border and floral	
31	2006.33.193	Plate	White - mineralized	Blue	Trellis and dot border	Chinoiserie motif
32	2006.33.199	Plate	White - mineralized	Blue	Trellis and dot border	Chinoiserie motif
33	2006.33.220	Plate	White - mineralized	Blue	Trellis and dot border	Chinoiserie motif
34	2006.33.203	Plate	White - mineralized	Blue	Trellis and dot border	Chinoiserie motif
35	2006.33.199	Plate	White - mineralized	Blue	Trellis and dot border	Chinoiserie motif
36	2006.33.155	Plate	White - mineralized	Blue	Trellis and dot border	Chinoiserie motif
37	2006.33.229	Plate	White - mineralized	Blue	Trellis and dot border	Chinoiserie motif
38	2006.33.139	Plate	White - mineralized	Blue	Trellis and dot border	Chinoiserie motif
39	2006.33.219	Plate	White - mineralized	Blue	Trellis and dot border	Chinoiserie motif; one mend same provenience
40	2006.33.133	Plate	White - mineralized	Blue	Trellis and dot border	Chinoiserie motif
41	2006.33.226	Plate	White - mineralized	Blue	Trellis and dot border; floral	Chinoiserie motif
42	2006.33.175	Plate	White w/blue tint	Blue	Trellis and dot border; floral	Chinoiserie motif
43	2006.33.215	Plate	White - mineralized	Blue	Trellis and dot border; floral	Chinoiserie motif
44	2006.33.200	Plate	White - mineralized	Blue	Trellis and dot border; floral	Chinoiserie motif
45	2006.33.143	Plate	White - mineralized	Blue	Trellis and dot border; floral	Chinoiserie motif
46	2006.33.158	Plate	White - mineralized	Blue	Trellis and dot border; floral	Chinoiserie motif
47	2006.33.231	Plate	White - mineralized	Blue	Trellis and dot border	Chinoiserie motif
48	2006.33.217	Plate	White - mineralized	Blue	Trellis and dot border	Chinoiserie motif
49	2006.33.200	Plate	White - mineralized	Blue	Trellis w/dot and scroll, fern and flower	Chinoiserie motif
50	2006.33.190	Plate	White - mineralized	Blue	Trellis w/dot and scroll, fern and flower	Chinoiserie motif
51	2006.33.230	Plate	White - mineralized	Blue	Scroll, fern and flower	Chinoiserie motif
52	2006.33.201	Plate	White - mineralized	Blue	Scroll border	Chinoiserie motif
53	2006.33.137	Plate	White - mineralized	Blue	Trellis border and floral	Chinoiserie motif
54	2006.33.163	Plate	White - mineralized	Blue	Trellis border and floral	Chinoiserie motif
55	2006.33.226	Plate	White w/blue tint	Blue	Trellis border and floral	Chinoiserie motif

Rim #	Provenience	Ware Form	Body Color	Motif Color	Motif Style	Notes
56	2006.33.207	Plate	White - mineralized	Blue	Trellis border	Chinoiserie motif
57	2006.33.191	Plate	White - mineralized	Blue	Trellis border	Chinoiserie motif
58	2006.33.198	Plate	White - mineralized	Blue	Trellis border and floral	Chinoiserie motif
59	2006.33.230	Plate	White - mineralized	Blue	Trellis border	Chinoiserie motif
60	2006.33.165	Plate	White - mineralized	Blue	Trellis border and floral	Chinoiserie motif
61	2006.33.195	Plate	White w/iron oxide	Blue	Trellis border and floral	Chinoiserie motif
62	2006.33.168	Plate	White w/blue tint	Blue	Trellis border and floral	Chinoiserie motif
63	2006.33.198	Plate	White - mineralized	Blue	Trellis border and floral	3 mends; one w/2006.33.192
64	2006.33.190	Plate	White - mineralized	Blue	Trellis border and floral	Chinoiserie motif
65	2006.33.195	Shallow bowl	White w/blue tint	Blue	Trellis border and floral	Chinoiserie motif
66	2006.33.190	Plate	White - mineralized	Blue	Trellis border and floral	Chinoiserie motif
67	2006.33.215	Plate	White - mineralized	Blue	Trellis border and floral	Chinoiserie motif
68	2006.33.226	Plate	White - mineralized	Blue	Trellis border and floral	Chinoiserie motif
69	2006.33.226	Plate	White - mineralized	Blue	Trellis border and floral	Chinoiserie motif
70	2006.33.123	Plate	White - mineralized	Blue	Trellis border	Chinoiserie motif
71	2006.33.168	Plate	White - mineralized	Blue	Trellis border	Chinoiserie motif
72	2006.33.192	Plate	White - mineralized	Blue	Trellis border	Chinoiserie motif
73	2006.33.166	Plate	White - mineralized	Blue	Trellis border	Chinoiserie motif
74	2006.33.161	Plate	White - mineralized	Blue	Trellis border and floral	Chinoiserie motif
75	2006.33.191	Plate	White - mineralized	Blue	Trellis border and floral	Chinoiserie motif
76	2006.33.161	Plate	White - mineralized	Blue	Trellis border and floral	Chinoiserie motif
77	2006.33.209	Plate	White - mineralized	Blue	Trellis border and floral	Chinoiserie motif
78	2006.33.186	Bowl	White - mineralized	Purple	Plain border; floral and foliage	
79	2006.33.217	Bowl	White - mineralized	Purple	Foliage and large flower	
80	2006.33.168	Bowl	White - mineralized	Purple	Plain border; large flowers	
81	2006.33.185	Bowl	White - mineralized	Polychrome	Plain border; floral	
82	2006.33.217	Bowl	White - mineralized	Polychrome	Plain border; floral	
83	2006.33.156	Bowl	White - mineralized	Polychrome	Plain border; floral	
84	2006.33.137	Bowl	White	Polychrome	Plain border; floral	

Rim #	Provenience	Ware Form	Body Color	Motif Color	Motif Style	Notes
85	2006.33.181	Bowl	White - mineralized	Polychrome	Plain border; floral	
86	2006.33.189	Bowl	White - mineralized	Polychrome	Plain border; undetermined motif	
87	2006.33.146	Bowl	White	Polychrome	Oval motif border; floral	
88	2006.33.185	Bowl	White - mineralized	Purple	Plain border	
89	2006.33.185	Bowl	White - mineralized	Purple	Plain border	
90	2006.33.185	Plate	White - mineralized	Purple	Plain border	
91	2006.33.178	Plate	White - mineralized	Purple	Plain border	
92	2006.33.158	Plate	White - mineralized	Purple	Plain border	
93	2006.33.158	Plate	White - mineralized	Purple	Plain border	
94	2006.33.188	Plate	White - mineralized	Purple	Plain border	
95	2006.33.209	Plate	White - mineralized	Purple	Plain border	
96	2006.33.131	Plate	White - mineralized	Purple	Plain border	
97	2006.33.138	Plate	White - mineralized	Purple	Plain border	
98	2006.33.155	Plate	White - mineralized	Purple	Plain border	
99	2006.33.169	Plate	White - mineralized	Purple	Plain border	
100	2006.33.190	Plate	White - mineralized	Purple	Plain border	
101	2006.33.134	Plate	White - mineralized	Purple	Plain border; circular motif	
102	2006.33.154	Plate	White - mineralized	Purple	Plain border; cluster of three stems	
103	2006.33.188	Plate	White - mineralized	Purple	Plain border	
104	2006.33.200	Shallow bowl	White - mineralized	Blue	Squiggled line motif	
105	2006.33.170	Shallow bowl	White - mineralized	Blue	Squiggled line motif	
106	2006.33.193	Bowl	White - mineralized	Blue	Squiggled line motif	
107	2006.33.200	Bowl	White - mineralized	Blue	Squiggled line motif	
108	2006.33.190	Bowl	White - mineralized	Blue	Squiggled line motif	
109	2006.33.197	Bowl	White - mineralized	Blue	Squiggled line motif	
110	2006.33.195	Bowl	White - mineralized	Blue	Squiggled line motif	
111	2006.33.174	Bowl	White - mineralized	Blue	Squiggled line motif	
112	2006.33.190	Bowl	White w/blue tint	Blue	Plain border; floral	
113	2006.33.170	Bowl	White w/blue tint	Blue	Plain border; floral	
114	2006.33.215	Bowl	White w/blue tint	Blue	Plain border; floral	

Rim #	Provenience	Ware Form	Body Color	Motif Color	Motif Style	Notes
115	2006.33.130	Bowl	White - mineralized	Blue	Plain border; floral	
116	2006.33.162	Bowl	White - mineralized	Blue	Plain border; floral	
117	2006.33.160	Bowl	White w/blue tint	Blue	Plain border; floral	
118	2006.33.174	Bowl	White - mineralized	Blue	Plain border; floral	
119	2006.33.185	Bowl	White - mineralized	Blue	Plain border	
120	2006.33.199	Bowl	White w/blue tint	Blue	Plain border	
121	2006.33.177	Bowl	White - mineralized	Blue	Plain border	
122	2006.33.232	Bowl	White - mineralized	Blue	Plain border; floral	
123	2006.33.189	Bowl	White - mineralized	Blue	Plain border; floral	
124	2006.33.191	Bowl	White w/blue tint	Blue	Plain border; floral	
125	2006.33.192	Bowl	White - mineralized	Blue	Plain border	
126	2006.33.215	Bowl	White w/blue tint	Blue	Plain border	
127	2006.33.178	Bowl	White - mineralized	Blue	Plain border; floral	
128	2006.33.192	Bowl	White - mineralized	Blue	Plain border; floral	
129	2006.33.149	Bowl	White - mineralized	Blue	Plain border; floral	
130	2006.33.204	Bowl	White - mineralized	Blue	Plain border; floral	
131	2006.33.165	Bowl	White - mineralized	Blue	Plain border; floral	
132	2006.33.210	Bowl	White - mineralized	Blue	Plain border; floral	
133	2006.33.212	Bowl	White w/blue tint	Blue	Plain border; floral	
134	2006.33.170	Plate	White w/blue tint	Blue	Plain border; cluster of three stems w/leaves	
135	2006.33.191	Plate	White w/blue tint	Blue	Plain border; cluster to three stems w/leaves	
136	2006.33.162	Plate	White w/blue tint	Blue	Plain border	
137	2006.33.186	Plate	White - mineralized	Blue	Plain border	
138	2006.33.186	Plate	White - mineralized	Blue	Plain border	
139	2006.33.186	Plate	White - mineralized	Blue	Plain border	
140	2006.33.186	Plate	White - mineralized	Blue	Plain border	
141	2006.33.186	Plate	White - mineralized	Blue	Plain border	
142	2006.33.186	Plate	White - mineralized	Blue	Plain border	One mend from same provenience
143	2006.33.156	Plate	White - mineralized	Blue	Plain border	
144	2006.33.163	Plate	White - mineralized	Blue	Plain border	One mend from same provenience

Rim #	Provenience	Ware Form	Body Color	Motif Color	Motif Style	Notes
145	2006.33.193	Plate	White - mineralized	None	None	
146	2006.33.176	Plate	White - mineralized	Blue	Plain border	
147	2006.33.189	Plate	white-	None	None	
148	2006.33.155	Plate	White - mineralized	Blue	Plain border	
149	2006.33.185	Plate	White - mineralized	Blue	Plain border; floral	
150	2006.33.185	Plate	White - mineralized	Blue	Plain border	
151	2006.33.185	Plate	White - mineralized	Blue	Plain border	
152	2006.33.226	Plate	White - mineralized	Blue	Plain border; floral	
153	2006.33.226	Plate	White - mineralized	Blue	Plain border	
154	2006.33.142	Plate	White - mineralized	None	None	
155	2006.33.123	Plate	White - mineralized	None	None	
156	2006.33.185	Plate	White - mineralized	Blue	Plain border	
157	2006.33.189	Plate	White - mineralized	Blue	Plain border	
158	2006.33.190	Plate	White - mineralized	Blue	Plain border	
159	2006.33.139	Plate	White - mineralized	Blue	Plain border; 3 leaves on stem	
160	2006.33.207	Plate	White - mineralized	Blue	Plain border	
161	2006.33.153	Plate	White - mineralized	Blue	Plain border	
162	2006.33.216	Plate	White - mineralized	Blue	Plain border	
163	2006.33.219	Plate	White - mineralized	Blue	Plain border	
164	2006.33.173	Plate	White w/blue tint	Blue	Plain border	
165	2006.33.189	Plate	White - mineralized	Blue	Plain border	
166	2006.33.185	Plate	White - mineralized	Blue	Plain border	
167	2006.33.181	Plate	White - mineralized	Blue	Plain border	
168	2006.33.203	Plate	White - mineralized	Blue	Plain border	
169	2006.33.185	Plate	White - mineralized	Blue	Plain border	
170	2006.33.166	Plate	White - mineralized	None	None	
171	2006.33.192	Plate	White - mineralized	Blue	Plain border	
172	2006.33.177	Plate	White - mineralized	Blue	Plain border	
173	2006.33.166	Plate	White - mineralized	Blue	Plain border	

Rim #	Provenience	Ware Form	Body Color	Motif Color	Motif Style	Notes
174	2006.33.185	Plate	White - mineralized	Blue	Plain border	
175	2006.33.219	Plate	White - mineralized	Blue	Plain border	
176	2006.33.219	Plate	White - mineralized	Blue	Plain border	
177	2006.33.216	Plate	White - mineralized	Blue	Plain border; circular motif	
178	2006.33.183	Plate	White - mineralized	Blue	Plain border; floral	One mend from same provenience
179	2006.33.162	Plate	White w/blue tint	Blue	Flowers in urn	342 grams; Complete plate; same as base # 94
180	2006.33.193	Plate	White-mineralized	Purple	Plain border	2 sherds mend

Table G-4. MNI of refined earthenware by vessel base.

Vessel #	Provenience	Glaze Color	Foot Ring Radius (inches)	Form	Notes
1	2006.33.220	2.5Y 8/1.5	15/16	Cup	Complete base w/foot ring
2	2006.33.166	2.5Y 8/1.5	7/8	Cup	2 base sherds mend
3	2006.33.196	2.5Y 8/1.5	15/16	Cup	Partial base fragment
4	2006.33.226	2.5Y 8/1.5	1 1/16	Cup	Partial base fragment w/foot ring
5	2006.33.163	2.5Y 8/1.5	15/16	Cup	Partial base fragment w/foot ring
6	2006.33.149	2.5Y 8/1.5	15/16	Cup	2 sherds mend
7	2006.33.227	2.5Y 8/1.5	n/a	Saucer?	Small foot ring w/beaded decoration on exterior
8	2006.33.220	2.5Y 8/1.5	1	Cup	Partial base fragment w/foot ring
9	2006.33.186	2.5Y 8/1.5	1	Cup	Partial base fragment w/foot ring
10	2006.33.186	2.5Y 8/1.5	1	Cup	Partial base fragment w/foot ring
11	2006.33.192	2.5Y 8/1.5	1	Cup	Partial base fragment w/foot ring
12	2006.33.158	2.5Y 8/1.5	1 1/8	Bowl	Partial base fragment w/foot ring
13	2006.33.156	2.5Y 8/1.5	1 1/8	Bowl	Partial base fragment w/foot ring
14	2006.33.186	2.5Y 8/1.5	1 1/8	Bowl	Partial base fragment w/foot ring
15	2006.33.193	2.5Y 8/1.5	1 1/8	Bowl	Partial base fragment w/foot ring; 3 sherds mend
16	2006.33.163	2.5Y 8/1.5	1 1/8	Bowl	
17	2006.33.134	2.5Y 8/1.5	1 1/8	Bowl	Partial base fragment w/ foot ring
18	2006.33.149	2.5Y 8/1.5	1 1/8	Bowl	Partial base fragment w/foot ring
19	2006.33.185	2.5Y 8/1.5	1 3/16	Bowl	Partial base fragment w/foot ring; mineralized
20	2006.33.201	2.5Y 8/1.5	1 1/8	Bowl	Complete base w/foot ring; incised line at top of foot ring
21	2006.33.189	2.5Y 8/1.5	1 3/16	Bowl	Partial base fragment w/foot ring
22	2006.33.155	2.5Y 8/1.5	1 3/16	?	Partial base fragment w/foot ring
23	2006.33.147	2.5Y 8/1.5	1 1/4	Bowl	Partial base fragment w/foot ring
24	2006.33.148	2.5Y 8/1.5	1 1/4	Bowl	Partial base fragment w/foot ring
25	2006.33.215	2.5Y 8/1.5	1 1/4	Bowl	4 sherds; 3 mend - base to rim mend; height 2 1/4"; rim too small for radius
26	2006.33.192	2.5Y 8/1.5	1 1/4	Bowl	Base w/foot ring; incised line at top of foot ring
27	2006.33.202	2.5Y 8/1.5	1 1/4	Bowl	3 sherds mend; two base w/foot ring and one body
28	2006.33.213	2.5Y 8/1.5	1 1/4	?	Base fragment w/foot ring
29	2006.33.189	2.5Y 8/1.5	1 11/16	Bowl	
30	2006.33.130	2.5Y 8/1.5	1 5/8	Bowl	Base fragment w/foot ring
31	2006.33.187	2.5Y 8/1.5	?	Bowl	Base fragment w/foot ring; too small to measure foot ring
32	2006.33.196	2.5Y 8/1.5	?	Bowl	Base fragment w/foot ring; too small to measure foot ring
33	2006.33.129	2.5Y 8/1.5	?	Bowl	Base fragment w/foot ring; too small to measure foot ring
34	2006.33.130	2.5Y 8/1.5	?	?	Base fragment w/foot ring; too small to measure foot ring
35	2006.33.159	2.5Y 8/1.5	?	Bowl	Base fragment w/foot ring; too small to measure foot ring
36	2006.33.199	2.5Y 8/1.5	?	Bowl	Base fragment w/foot ring; too small to measure foot ring
37	2006.33.229	2.5Y 8/1.5	?	?	Base fragment w/foot ring; too small to measure foot ring
38	2006.33.190	2.5Y 8/1.5	?	?	Base fragment w/foot ring; too small to measure foot ring

Vessel #	Provenience	Glaze Color	Foot Ring Radius (inches)	Form	Notes
39	2006.33.147	2.5Y 8/1.5	?	?	Base fragment w/foot ring; too small to measure foot ring
40	2006.33.216	2.5Y 8/1.5	?	?	Base fragment w/foot ring; too small to measure foot ring
41	2006.33.193	2.5Y 8/1.5	?	?	Base fragment w/foot ring; too small to measure foot ring
42	2006.33.174	2.5Y 8/1.5	?	?	Base fragment w/foot ring; too small to measure foot ring
43	2006.33.190	2.5Y 8/1.5	?	?	Base fragment w/foot ring; too small to measure foot ring
44	2006.33.189	2.5Y 8/1.5	?	?	Base fragment w/foot ring; too small to measure foot ring

Table G-5. Identified marks on brown salt-glazed stoneware bottle fragments.

Provenience	Vessel Part	Marks Description	Sherd Count	Weight (g)	Diameter (mm)	Volume (mL)	Height (mm)	Base Diameter (mm)
2006.33.123	Body	1 - rouletted ring ; 2 stamped triangles on same vessel	34	1643.90				
2006.33.123	Base	rouletted ring; 2 stamped triangles on same vessel	2	626.00				
2006.33.134	Body	One body sherd has rouletted stamped star	12	902.00				
2006.33.137	Body	Partial #3 with complete and one partial rouletted triangle on same sherd	37	1856.00				
2006.33.139	Body	1- on one body - roulette stamped #4	47	1868.50				
2006.33.139	Handle/ neck	on handle/neck/finish sherd - face (partial)	1	240.00				
2006.33.146	Body	1 body sherd with partial mark - an incised curved line. Perhaps part of a number?	4	96.00				
2006.33.149	Body	One body sherd has a #4; second body sherd has incised curved line	15	736.70				
2006.33.153	Body	One body - partial stamped, rouletted #4	8	214.00				
2006.33.156	Body	One partial mark - curved incised line with roulette stamped line on outside arc of incised line	13	670.00				
2006.33.161	Body	2 rouletted circles (partial)	23	1705.20				
2006.33.181	Complete	Capacity Mark # 3	1	4626	204.46	7275	400	130.51
2006.33.183	Complete	# 3	1	4286	226.41			132.06
2006.33.185	Body	One body sherd roulette marked - possible circle	94	2576.00				
2006.33.187	Complete	Mark -stylized # 1 roulette stamped	1	2334	174.1	267	295	96.3
2006.33.188	Body	One body mark - roulette stamped triangle	23	1014.00				
2006.33.191	Body	One body sherd has a stamped #3	51	1294.00				
2006.33.192	Body	one body with mark - undetermined shape (sherd is broken)	82	2384.90				
2006.33.197	Body	1 body sherd with stamped #4	33	1622.00				
2006.33.201	Body	One body has partial incised line - sideways "V"	35	1374.20				
2006.33.204	Body	1 body sherd with capacity mark - #4	73	1922.20				
2006.33.208	Body	1 body mark - rouletted partial triangle	19	976.00				
2006.33.209	Body	Capacity mark - #2	15	611.20				
2006.33.211	Body	1 body sherd stamped - design undetermined	12	522.00				
2006.33.213	Body	One body sherd marked with stamp #4	26	1140.00				
2006.33.218	Body	One body mark - incised circle with incised slash below	28	909.80				
2006.33.229	Neck	one partial "beard"	4	74.00				
2006.33.229	Body	stamped design	59	1782.00				

Table G-6. MNI of brown salt-glazed stoneware bottles by vessel base.

Vessel #	Provenience	Base Radius (inches)	Paste Color	Exterior Glaze Color	Finish	Interior Treatment	Notes
1	2006.33.204 and .214	2 1/2	Stained	10YR 5.5/6	Gloss	Unglazed/matte	2 base sherds mend
2	2006.33.212	2 1/2	Stained	7.5YR 4.5/4	Gloss	Unglazed/matte	
3	2006.33.215	1 13/16	Stained	10YR 7.5/2	Gloss	Unglazed/matte	
4	2006.33.217	2 1/16	10YR 5.5/1	7.5YR 4/6	Gloss	Unglazed/matte	
5	2006.33.212	2 5/8	Stained	10YR 5.5/4	Gloss	Unglazed/matte	
6	2006.33.217 and .226	2 11/16	10YR 8/3	10YR 6.5/6	Gloss	Unglazed/matte	2 base sherds mend
7	2006.33.204	2 11/16	Stained	10YR 5.5/6	Gloss	Unglazed/matte	
8	2006.33.204	2	10YR 6/1	7.5YR 4/4	Gloss	Unglazed/matte	
9	2006.33.218	2 3/8	10YR 8/4	7.5YR 6/8	Gloss	Unglazed/matte	
10	2006.33.220	2	Stained	10YR 6.5/4	Semi-gloss	Unglazed/matte	
11	2006.33.217	2 1/16	Stained	10YR 6.5/3	Matte	Unglazed/matte	
12	2006.33.217	2	Stained	7.5YR 6.5/3	Semi-gloss	Unglazed/matte	
13	2006.33.193	2 11/16	Stained	7.5YR 6.5/8	Gloss	Unglazed/matte	
14	2006.33.229	2 9/16	Stained	10YR 6.5/4	Semi-gloss	Unglazed/matte	
15	2006.33.217	2 5/8	Stained	10YR 7.5/3	Semi-gloss	Unglazed/matte	
16	2006.33.215	1 15/16	10YR 5.5/1	10YR 5/4	Semi-gloss	Unglazed/matte	
17	2006.33.226	2	Stained	7.5 YR 4/4	Gloss	Unglazed/matte	
18	2006.33.226	2 11/16	10YR 7.5/1	10YR 6.5/3	Gloss	Unglazed/matte	
19	2006.33.219	2 1/16	Stained	7.5 YR 4.5/6	Semi-gloss	Unglazed/matte	
20	2006.33.208	2 11/16	Stained	10YR 6.5	Semi-gloss	Unglazed/matte	
21	2006.33.217	2 11/16	Stained	7.5 YR 5.5/6	Semi-gloss	Unglazed/matte	
22	2006.33.219	2 13/16	10YR 8/3	7.5YR 5/6	Gloss	Unglazed/matte	
23	2006.33.228	2 13/16	Stained	7.5YR 5/6	Gloss	Unglazed/matte	
24	2006.33.226	2	10YR 6/1	7.5YR 4.5/6	Gloss	10YR 8/4 Matte	
25	2006.33.204	too small	10YR 5.5/1	7.5YR 4.5/6	Gloss	10YR 7/4 Matte	
26	2006.33.226 and .229	2 1/4	7.5YR 8/3.5	7.5 YR 6/6	Semi-gloss	Unglazed/matte	2 base sherds mend
27	2006.33.204	2 1/2	10YR 7/1	7.5 YR 5.5/6	Semi-gloss	Unglazed/matte	
28	2006.33.201	too small	7.5 YR 8/3	7.5 YR 4.5/6	Gloss	Unglazed/matte	
29	2006.33.215	2 1/4	7.5 YR 7/2	10YR 6/6	Gloss	2.5YR 7/4 Matte	
30	2006.33.225	2 11/16	Stained	10YR 6.5/6	Semi-gloss	Unglazed/matte	
31	2006.33.227	1 7/8	Stained	7.5 YR 6.5/8	Gloss	Unglazed/matte	
32	2006.33.217	2 7/16	Stained	7.5 YR 6.5/8	Gloss	Unglazed/matte	
33	2006.33.225	2 1/16	Stained	7.5YR 6.5/6	Semi-gloss	Unglazed/matte	
34	2006.33.201	1 15/16	Stained	10YR 7.5/4	Semi-gloss	Unglazed/matte	
35	2006.33.228	2 9/16	Stained	10YR 6/4	Gloss	Unglazed/matte	
36	2006.33.225	2 3/8	Stained	10YR 7/3.5	Gloss	Unglazed/matte	
37	2006.33.230	1 15/16	Stained	10YR 7/4	Semi-gloss	Unglazed/matte	
38	2006.33.201	2	Stained	10YR 6.5/5	Semi-gloss	Unglazed/matte	
39	2006.33.204	2 3/16	Stained	10YR 6.5/4	Semi-gloss	Unglazed/matte	
40	2006.33.203	2 1/4	Stained	10YR 7/2	Gloss	Unglazed/matte	
41	2006.33.229	1 7/8	Stained	10YR 7/2	Semi-gloss	Unglazed/matte	2 sherds in lot; no mends
42	2006.33.225	too small	Stained	10YR 7/1	Gloss	Unglazed/matte	
43	2006.33.229	too small	Stained	10YR 8/2	Gloss	Unglazed/matte	
44	2006.33.193	2	10YR 7/1	10YR 6.5/4	Semi-gloss	10YR 8/3 Matte	

Vessel #	Provenience	Base Radius (inches)	Paste Color	Exterior Glaze Color	Finish	Interior Treatment	Notes
45	2006.33.153	2 3/4	Stained	10YR 7/4	Gloss	Unglazed/matte	
46	2006.33.148	2 11/16	Stained	10YR 7.5/3	Semi-gloss	Unglazed/matte	
47	2006.33.154	2 3/4	Stained	7.5YR 4/6	Gloss	Unglazed/matte	
48	2006.33.140	2 11/16	Stained	7.5 YR 4.5/6	Semi-gloss	5YR 6/3.5 Matte	
49	2006.33.162	2 3/8	Stained	10YR 7/3.5	Semi-gloss	Unglazed/matte	
50	2006.33.163	1 11/16	Stained	7.5YR 6/6	Semi-gloss	Unglazed/matte	
51	2006.33.123	1 13/16	10YR 7.5/1.5	10YR 7/5	Gloss	10YR 8/3 Matte	
52	2006.33.161	2 5/8	Stained	10YR 7/3	Semi-gloss	Unglazed/matte	
53	2006.33.155	2 5/16	10YR 8/3	10YR 7.5/5	Gloss	Unglazed/matte	
54	2006.33.165	2 13/16	Stained	10YR 6/6	Gloss	Unglazed/matte	
55	2006.33.148	2 11/16	Stained	2.5Y 7/1.5	Gloss	Unglazed/matte	
56	2006.33.160	2 1/16	Stained	10YR 7.5/4	Semi-gloss	Unglazed/matte	
57	2006.33.156	2 1/2	Stained	7.5YR 4.5/6	Gloss	Unglazed/matte	
58	2006.33.126	2 3/16	10YR 5.5/1	7.5 YR 4.5/4	Semi-gloss	5YR 6/4 Matte	
59	2006.33.142	2 7/8	Stained	7.5YR 5.5/4	Matte	Unglazed/matte	
60	2006.33.159	2 1/4	Stained	10YR 6.5/3.5	Semi-gloss	Unglazed/matte	
61	2006.33.152	2	Stained	10YR 7/5	Semi-gloss	Unglazed/matte	
62	2006.33.149	too small	7.5YR 6.5/1	7.5YR 5.5/6	Gloss	10YR 8/4 Matte	
63	2006.22.137	2 1/4	10YR 7.5/1	10YR 6/6	Gloss	Unglazed/matte	
64	2006.33.149	too small	Stained	10YR 7.5/4	Gloss	Unglazed/matte	
65	2006.33.137	1 15/16	Stained	10YR 7/2.5	Matte	Unglazed/matte	
66	2006.33.161	too small	Stained	10YR 7.5/3	Gloss	Unglazed/matte	2 sherds in lot; no mends
67	2006.33.134	2 1/2	10YR 7.5/1	10YR 7/5	Gloss	Unglazed/matte	
68	2006.33.156	2 1/2	Stained	10YR 7.5/1	Semi-gloss	Unglazed/matte	
69	2006.33.162	2 5/8	Stained	2.5Y 7/1.5	Semi-gloss	10YR 7/4 Semi-gloss	
70	2006.33.162	too small	10YR 6/1	7.5YR 4/6	Gloss	10YR 8/6 Matte	
71	2006.33.162	too small	10YR 7/1	10YR 6.5/1	Semi-gloss	10YR 7/6 Matte	
72	2006.33.130	2 3/8	Stained	10YR 7.5/2	Semi-gloss	Unglazed/matte	
73	2006.33.123	too small	7.5YR 8/3	10YR 7/4	Matte	Unglazed/matte	
74	2006.33.170	too small	Stained	10YR 8/1.5	Matte	Unglazed/matte	
75	2006.33.151	2 1/2	7.5YR 6/1-6	10YR 6/1.5	Matte	7.5YR 6/6 Matte	
76	2006.33.158	too small	Stained	7.5YR 6/5	Semi-gloss	5YR 7/2 Matte	
77	2006.33.138	too small	10YR 8/3.5	10YR 8/5	Gloss	Unglazed/matte	
78	2006.33.158	1 13/16	Stained	10YR 6.5/6	Gloss	Unglazed/matte	
79	2006.33.142	2	Stained	10YR 8/3	Semi-gloss	Unglazed/matte	
80	2006.33.142	too small	Stained	10YR 8/3.5	Semi-gloss	Unglazed/matte	
81	2006.33.161	too small	Stained	10YR 8/3.5	Semi-gloss	Unglazed/matte	
82	2006.33.185	2 7/16	Stained	10YR 7.5/3	Semi-gloss	Unglazed/matte	
83	2006.33.183	2 3/4	Stained	10YR 3.5/6	Gloss	Unglazed/matte	
84	2006.33.195	2 5/8	7.5YR 8/3	7.5YR 4.5/6	Gloss	Unglazed/matte	
85	2006.33.188 and 192	2 7/8	10YR 6.5/1	7.5YR 4.5/6	Gloss	5YR 7.5/2 Matte	
86	2006.33.185	1 7/8	Stained	10YR 7/6-9	Semi-gloss	Unglazed/matte	
87	2006.33.189	1 15/16	10YR 8/3	7.5YR 5/6	Gloss	Unglazed/matte	

Vessel #	Provenience	Base Radius (inches)	Paste Color	Exterior Glaze Color	Finish	Interior Treatment	Notes
88	2006.33.190	2 7/16	Stained	10YR 3/3.5	Gloss	Unglazed/matte	
89	2006.33.189	2 5/8	Stained	7.5YR 4/4	Semi-gloss	5YR 7/3 Matte	
90	2006.33.190	2 1/2	5YR 7/2	7.5YR 5.5/4	Matte	Unglazed/matte	
91	2006.33.185	2 11/16	10YR 8/2.5	10YR 8/2.5	Semi-gloss	Unglazed/matte	
92	2006.33.197	2 7/8	10YR 8/2.5	7.5YR 4.5/6	Gloss	Unglazed/matte	
93	2006.33.190	2	10YR 8/2.5	7.5YR 4.5/6	Gloss	Unglazed/matte	
94	2006.33.190	1 11/16	Gley 2	7.5YR 4.5/6	Gloss	Unglazed/matte	
95	2006.33.185	1 11/16	Stained	10YR 7.5/4	Semi-gloss	Unglazed/matte	
96	2006.33.185	2 9/16	Stained	10YR 7.5/2	Gloss	Unglazed/matte	
97	2006.33.173	2 11/16	Stained	10YR 6.5/2	Gloss	Unglazed/matte	
98	2006.33.185	2 3/4	7.5YR 8/3	10YR 6.5/2	Gloss	Unglazed/matte	
99	2006.33.183	2 3/4	10YR 7.5/1	7.5YR 4.5/6	Gloss	Unglazed/matte	
100	2006.33.182	2 1/16	Stained	10YR 7.5/2.5	Semi-gloss	Unglazed/matte	
101	2006.33.176	2 1/8	Stained	10YR 7/1.5	Semi-gloss	Unglazed/matte	
102	2006.33.177	2 1/4	Stained	10YR 7.5/2	Semi-gloss	Unglazed/matte	
103	2006.33.185	too small	10YR 8/2	10YR 7.5/4	Matte	Unglazed/matte	
104	2006.33.189	2 3/4	10YR 8/1.5	10YR 7.5/4	Matte	Unglazed/matte	
105	2006.33.183	1 5/8	10YR 7.5/1	10YR 5/6	Gloss	Unglazed/matte	
106	2006.33.191	1 5/8	10YR 7.5/1	10YR 6/6	Semi-gloss	Unglazed/matte	Sections of exterior glaze are matte
107	2006.33.158	2 13/16	Stained	5YR 5/6	Matte	Glazed/semi-gloss	
108	2006.33.186	2 7/8	10YR 7/3	10YR 7.5/1	Matte	Unglazed/matte	
109	2006.33.191	2 5/8	Stained	10YR 7/2	Semi-gloss	Unglazed/matte	
110	2006.33.178	2 9/16	Stained	2.5Y 6.5/1	Gloss	Unglazed/matte	
111	2006.33.189	1 11/16	Stained	5YR 6.5/6	Semi-gloss	Unglazed/matte	
112	2006.33.198	1 15/16	Stained	7.5YR 6.5/4	Gloss	Unglazed/matte	
113	2006.33.190	2 1/16	2.5YR 7/5	5YR 5.5/4	Semi-gloss	Unglazed/matte	
114	2006.33.176	2 11/16	2.5Y 6/1	10YR 7/3.5	Semi-gloss	Unglazed/matte	Sections of exterior glaze are matte
115	2006.33.191	2 3/4	Stained	Stained	Matte	Unglazed/matte	
116	2006.33.179	2 7/16	Stained	7.5YR 4.5/4	Gloss	Unglazed/matte	
117	2006.33.189	2 3/8	Stained	10YR 7.5/1	Semi-gloss	Unglazed/matte	
118	2006.33.183	too small	Stained	7.5YR 4.5/4	Gloss	Unglazed/matte	
119	2006.33.185	too small	7.5YR 6.5/1	10YR 7/3.5	Semi-gloss	Unglazed/matte	
120	2006.33.046	2 5/16	Stained	7.5YR 5/5	Semi-gloss	Unglazed/matte	
121	2006.33.072	too small	Stained	7.5YR 4.5/6	Gloss	Unglazed/matte	
122	2006.33.181	2 53/93	Complete Vessel	7.5YR 4/4-6	Semi-gloss	Complete vessel	On exhibit at Zwaanendael
123	2006.33.183	2 3/5	10YR 7/1	7.5YR 4/3.5	Semi-gloss	Mostly complete	Neck missing; Capacity Mark #3
124	2006.33.185	2 15/79	Complete Vessel	5YR 4/4-6	Semi-gloss	Complete vessel	On exhibit at Zwaanendael
125	2006.33.187	1 9/10	Complete Vessel	7.5 YR 6/5	Semi-gloss	Complete vessel	Capacity mark "1"

Table G-7. MNI of brown salt-glazed stoneware bottles by vessel neck.

Neck #	Provenience	Neck Width - Inches	Paste Color	Exterior Glaze Color	Finish	Interior Treatment	Notes
1	2006.33.207	Incomplete	10YR 8/3	7.5YR 6/8	Gloss	Glazed/gloss	
2	2006.33.201	Incomplete	10YR 7.5/3	7.5YR 4/3	Gloss	Unglazed/matte	
3	2006.33.217	1 10/11	Stained	7.5YR 4/4	Gloss	Partial glaze near lip	
4	2006.33.229	Incomplete	10YR 7.5/1	7.5YR 4.5/6	Gloss	Glazed/gloss	
5	2006.33.207	Incomplete	10YR 6.5/2	10YR 4.5/6	Gloss	Glazed/gloss	
6	2006.33.231	Incomplete	Stained	5YR 4/6	Semi-gloss	Unglazed/matte	
7	2006.33.229	Incomplete	10YR 7.5/2	7.5YR 5/8	Gloss	Unglazed/matte	
8	2006.33.229	Incomplete	Stained	7.5YR 3/4	Gloss	Unglazed/matte	
9	2006.33.217	1 47/50	10YR 5.5/1	7.5YR 4/4	Gloss	Partial glaze near lip	
10	2006.33.219 and 219	2 9/53	Stained	7.5YR 3.5/4	Semi-gloss	Unglazed/matte	two sherds mend
11	2006.33.226	2 10/77	Stained	7.5YR 4.5/6	Matte	Light glaze	
12	2006.33.217	Incomplete	Stained	10YR 7/6	Gloss	Light glaze	
13	2006.33.166	1 19/20	7.5YR 8/3.5	7.5YR 4/5	Gloss	Unglazed/matte	handle intact
14	2006.33.153	1 17/20	Stained	7.5 YR 4.5/4	Gloss	Glazed/gloss	
15	2006.33.162	2 2/25	10YR 7/1	10YR 3/5	Gloss	Glazed/gloss	
16	2006.33.139	1 22/25	Stained	7.5YR 5.5/6	Semi-gloss	Unglazed/matte	Partial handle and Bartman face
17	2006.33.162	1 24/25	Stained	7.5YR 4.5/3	Semi-gloss	Glazed/gloss	
18	2006.33.152	Incomplete	Stained	10YR 5/3	Semi-gloss	Unglazed/matte	
19	2006.33.162	Incomplete	Stained	7.5YR 5/5	Semi-gloss	Glazed/gloss	
20	2006.33.148	Incomplete	7.5YR 7.5/4	7.5 YR 3.5/5	Gloss	Light glaze	
21	2006.33.165	Incomplete	Stained	7.5 YR 6/2.5	Semi-gloss	Glazed/gloss	
22	2006.33.155 and .156	Incomplete	Stained	7.5 YR 4.5/6	Gloss	Light glaze	two sherds mend
23	2006.33.148	Incomplete	7.5YR 7/1	7.5YR 4/5	Gloss	Glazed/gloss	
24	2006.33.167	Incomplete	10YR 7/1	7.5YR 4/6	Gloss	Light glaze	
25	2006.33.123	Incomplete	10YR 7/1	10YR 3.5/6	Gloss	Light glaze	
26	2006.33.183	2 4/29	7.5YR 7/2	2.5YR 6.5/1	Semi-gloss	Unglazed/matte	
27	2006.33.183	1 35/52	2.5Y 7.5/2	2.5Y 6.6/1	Gloss	Unglazed/matte	handle intact
28	2006.33.178	1 22/31	Stained	10YR 3.5/4	Gloss	Glazed/gloss	handle intact
29	2006.33.189	1 64/81	Stained	10YR 4.5/4	Gloss	Glazed/gloss	partial handle
30	2006.33.183	Incomplete	10YR 6.5/2	10YR 4/6	Gloss	Glazed/gloss	
31	2006.33.178	Incomplete	10YR 8/2	10YR 8/2.5	Semi-gloss	Partial glaze near lip	
32	2006.33.193	Incomplete	10YR 7.5/3	7.5YR 5.5/6	Gloss	Matte black	Interior of neck has sparkles
33	2006.33.190	Incomplete	7.5YR 6.5/6	5YR 4.5/4	Gloss	Unglazed/matte	
34	2006.33.159	Incomplete	10YR 6.5/2	5YR 4.5/6	Gloss	Unglazed/matte	

Neck #	Provenience	Neck Width - Inches	Paste Color	Exterior Glaze Color	Finish	Interior Treatment	Notes
35	2006.33.191	Incomplete	Stained	7.5YR 3.5/3	Gloss	Unglazed/matte	
36	2006.33.178	Incomplete	Stained	7.5YR 3.5/3	Gloss	Light glaze	
37	2006.33.183 and .190	Incomplete	5YR 5.5/1	5YR 3.5/4	Gloss	Light glaze	two sherds in lot; don't mend
38	2006.33.190	Incomplete	10YR 8/2	10YR 7/4	Semi-gloss	Unglazed/matte	capacity mark stylized "1"

Table G-8. Identified marks on brown salt-glazed stoneware wide mouth jars.

Provenience	Vessel Type	Marks Description	Sherd Count	Weight (g)
2006.33.126	Body	One Body - Triple Stars under two horizontal, incised bands parallel to rim	4	21.50
2006.33.128	Body	1 mark on Body - nested triangles	1	10.50
2006.33.149	Body	One body sherd has incised lines parallel to rim plus or minus 1/2" below the rim.	11	275.20
2006.33.152	Body	Unknown rouletted mark (partial) and double incised horizontal bands, likely near rim	1	20.00
2006.33.155	Body	One partial mark on body - unidentifiable	16	318.80
2006.33.166	Body	stylized "1 1/2" incised	1	7.70
2006.33.176	Neck/rim	Rim - two horizontal incised bands parallel to rim	1	24.00
2006.33.184	Body	stamped "star"	3	18.60
2006.33.185	Body	Two near rim sherds with horizontal bands	12	204.00
2006.33.186	Body	One body sherd has Floral stamp - single flower and stalk with a few opposing leaves.	3	100.00
2006.33.187	Body	1 Body has rouletted stamped stylized # 1	2	32.50
2006.33.194	Handle/ neck/rim	Rim has double incised band parallel to rim	1	204.00
2006.33.200	Neck/rim	Rim - two parallel incised lines parallel to rim	1	86.00
2006.33.201	Neck/rim	Incised horizontal bands parallel to rim on both rims	2	372.00
2006.33.203	Body	One body sherd with mark - a complete stamped star	10	140.00
2006.33.204	Body	1 body sherd with 3 horizontal, incised bands parallel to rim	8	154.00
2006.33.204	Neck/rim	1 rim sherd with 2 horizontal, incised bands and handle scar; 1 rim sherd with 2 horizontal, incised bands with "shield" stamp	2	204.00
2006.33.207	Handle/ neck/rim	Horizontal bands on rim sherd parallel to rim with handle scar	1	57.90
2006.33.210	Neck/rim	2 horizontal incised bands under and parallel to rim	1	56.00
2006.33.214	Body	4 incised horizontal bands below rim with handle scar	1	30.00
2006.33.215	Neck/rim	Rim - on incised horizontal band on rim (partial)	1	26.60
2006.33.217	Body	incised horizontal lines near rim	21	532.00
2006.33.217	Handle/ neck/rim	incised horizontal lines near rim	1	744.00
2006.33.217	Neck/rim	incised horizontal lines near rim	1	206.00
2006.33.218	Neck/rim	2 horizontal, incised bands parallel to rim on both rim sherds	2	160.60
2006.33.225	Body	1 body sherd - partial stamped star	9	181.10

Table G-9. MNI of brown salt-glazed stoneware wide mouth jars.

Vessel #	Provenience	Vessel Part	Base Radius (inches)	Rim Radius (inches)	Paste Color	Exterior Glaze Color	Finish	Mark Type	Mark Style	Interior Treatment	Notes
1	2006.33.219	Rim/Handle	n/a	4 5/8	5Y 7/1	10YR 7/6	Glossy	Incised	Hor. Lines	Matte	Mark is 4 horizontal lines parallel to rim
2	2006.33.207 and .230	Rim/Body	n/a	2 9/16	2.5Y 8/1	2.5Y 8/2	Matte	Incised	Hor. Lines	Matte	Mark is 2 horizontal lines parallel to rim; two mends
3	2006.33.216 and .226	Rim/Body	n/a	3 9/16	10YR 6/1	10YR 6/3	Semi-gloss	Incised	Hor. Lines	Matte	Mark is 3 horizontal lines parallel to rim; two sherds in same lot - don't mend
4	2006.33.229	Rim/Handle	n/a	2 9/16	10YR 7/1	10YR 7/6	Glossy	Incised	Hor. Lines	Glazed	Mark is 2 horizontal lines parallel to rim
5	2006.33.217	Rim/Handle	n/a	3 3/4	2.5YR 6/1	10YR 7/1	Glossy	Incised	Hor. Lines	Glazed	Mark is 4 horizontal lines parallel to rim
6	2006.33.201 and .203	Rim/Handle	n/a	3 9/16	10YR 7/1	10YR 7/6	Glossy	Incised	Hor. Lines	Glazed	Mark is 4 horizontal lines parallel to rim; two sherds in same lot - don't mend
7	2006.33.210	Rim/Body	n/a	2 9/16	Stained	2.5Y 7/4	Semi-gloss	Incised	Hor. Lines	Matte	Mark is 2 horizontal lines parallel to rim
8	2006.33.218	Rim/Body	n/a	2 7/8	Stained	7.5YR 5/6	Glossy	Incised	Hor. Lines	Glazed	Mark is 2 horizontal lines parallel to rim
9	2006.33.216	Rim/Handle	n/a	3	2.5YR 7/6	2.5Y 6/3	Glossy	Incised	Hor. Lines	Matte	Mark is 2 horizontal lines parallel to rim
10	2006.33.208	Rim/Body	n/a	too small	Stained	2.5Y 7/2	Glossy	Incised	Hor. Lines	Semi-gloss	Mark is 2 horizontal lines parallel to rim
11	2006.33.207 and .217	Rim/Handle	n/a	3 1/16	Stained	10YR 7/6	Glossy	Incised	Hor. Lines	Matte	Mark is 3 horizontal lines parallel to rim; two sherds in same lot - don't mend
12	2006.33.201 and 214	Rim/Handle	n/a	4 3/16	7.5YR 7/1	2.5Y 7/2.5	Glossy	Incised	Hor. Lines	Semi-gloss	Mark is 4 horizontal lines parallel to rim; two sherds mend
13	2004.37.37 and 2006.33.227	Rim/Handle	n/a	2 5/8	10YR 7.5/4	7.5YR 5.5/8	Glossy	Incised	Hor. Lines	Matte	Mark is 2 horizontal lines parallel to rim; shed mend between offshore site and beach!
14	2006.33.203	Rim/Body	n/a	3 7/16	Stained	7.5YR 5.5/6	Glossy	Incised	Hor. Lines	Glazed	Mark is 2 horizontal lines parallel to rim; two sherds in same lot - don't mend

Vessel #	Provenience	Vessel Part	Base Radius (inches)	Rim Radius (inches)	Paste Color	Exterior Glaze Color	Finish	Mark Type	Mark Style	Interior Treatment	Notes
15	2006.33.204	Rim/Body	n/a	2 1/2	Stained	10YR 5/6	Glossy	Incised	Hor. Lines + Shield	Glazed	Mark is 2 horizontal lines parallel to rim surmounting an incised shield
16	2006.33.221	Rim/Body	n/a	2 11/16	10YR 5.5/1	10YR 5.5/6	Glossy	Incised	Hor. Lines	Glazed	Mark is 2 horizontal lines parallel to rim
17	2004.37.37 and 2006.33.218	Rim/Body	n/a	2 5/8	10YR 5.5/1	10YR 5/3	Glossy	Incised + Stamped	Hor. Lines + Circle	Semi-gloss	Mark is 2 horizontal lines parallel to rim surmounting an incised circle; two sherds same lot
18	2006.33.216	Rim/Body	n/a	2 5/8	10YR 7/2	10YR 7.5/2	Semi-gloss	none	none	Matte	
19	2006.33.204	Rim/Body	n/a	2 5/8	10YR 7.5/1	10YR 7/1	Glossy	Incised	Hor. Lines	Matte	Mark is 2 horizontal lines parallel to rim
20	2006.33.220	Rim	n/a	2 7/16	10YR 5.5/1	10YR 7/1	Glossy	none	none	Matte	
21	2006.33.203	Rim	n/a	4 3/8	Stained	Stained	Glossy	none	none	Glazed	
22	2006.33.215	Rim/Body	n/a	2 7/8	Stained	10YR 5.5/4	Glossy	Incised	Hor. Lines	Matte	Number of horizontal lines in mark unknown - sherd broken
23	2006.33.203 and .220	Base/Body	2 5/16	n/a	Stained	7.5YR 5.5/6	Glossy	none	none	Matte	Two sherds in lot; don't mend
24	2006.33.215	Base/Body	3 3/16	n/a	Stained	10YR 5.5/4	Glossy	none	none	Matte	
25	2006.33.218	Base/Body	2 13/16	n/a	Stained	7.5YR 4.5/4	Glossy	Incised	Hor. Lines	Matte	Mark is 2 horizontal lines above collar on base
26	2006.33.218	Base	2 1/2	n/a	Stained	2.5Y 6.5/1	Glossy	Incised	Hor. Lines	Matte	Mark is 1 horizontal line above collar on base
27	2006.33.209	Base	3 1/8	n/a	Stained	2.5Y 6.5/1	Glossy	Incised	Hor. Lines	Matte	Mark is 1 horizontal line above collar on base
28	2006.33.229	Base/Body	3 1/8	n/a	Stained	10YR 6.5/4	Glossy	Incised	Hor. Lines	Matte	Mark is 1 horizontal line above collar on base
29	2006.33.209	Base/Body	3 1/8	n/a	7.5YR 6.5/2	2.5YR 6.5/1	Glossy	Incised	Hor. Lines	Semi-gloss	Mark is 2 horizontal lines above collar on base
30	2006.33.225	Base/Body	1 13/16	n/a	Stained	7.5YR 5.5/6	Glossy	Incised	Hor. Lines	Glazed	Mark is 1 horizontal line above collar on base
31	2006.33.220	Base	2 1/2	n/a	Stained	2.5YR 6.5/1	Glossy	Incised	Hor. Lines	Glazed	Mark is 1 horizontal line above collar on base

Vessel #	Provenience	Vessel Part	Base Radius (inches)	Rim Radius (inches)	Paste Color	Exterior Glaze Color	Finish	Mark Type	Mark Style	Interior Treatment	Notes
32	2006.33.230	Base	2 11/16	n/a	7.5YR 5/1	10YR 5/2.5	Matte	Incised	Hor. Lines	Matte	Mark is 1 horizontal line above collar on base
33	2006.33.155	Rim/Body	n/a	3 1/8	Stained	10YR 5.5/5	Semi-gloss	Incised	Hor. Lines	Glazed	Mark is 3 horizontal lines parallel to rim
34	2006.33.128	Rim/Handle	n/a	2 1/4	Stained	2.5YR 6.5/1.5	Glossy	Incised	Hor. Lines	Glazed	Mark is 1 horizontal line parallel to rim
35	2006.33.166	Rim/Body	n/a	2 7/16	Stained	2.5YR 6/2	Glossy	Incised	Hor. Lines + Cap.	Matte	Mark is 2 horizontal lines surmounting a capacity mark 1 1/2 (one and one half)
36	2006.33.126 and .143	Rim/Body	n/a	2 9/16	Stained	2.5YR 6/2	Glossy	Incised + Stamped	Hor. Lines + Stars	Glazed	Mark is 2 horizontal lines surmounting 2 1/2 stars - broken; two sherds in lot don't mend
37	2006.33.129	Rim/Body	n/a	2 3/4	Stained	10YR 4.5/6	Glossy	Incised	Hor. Lines	Glazed	Mark is 2 horizontal lines parallel to rim
38	2006.33.155	Rim/Body	n/a	2 5/8	Stained	7.5YR 4.5/4	Semi-gloss	Incised	Hor. Lines	Glazed	Mark is 2 horizontal lines parallel to rim
39	2006.33.154	Rim/Body	n/a	3 9/16	Stained	10YR 4.5/4	Glossy	Incised	Hor. Lines	Matte	Mark is 2 horizontal lines parallel to rim
40	2006.33.149	Rim/Body	n/a	2 13/16	Stained	Stained	Glossy	Incised	Hor. Lines	Matte	Mark is 2 horizontal lines parallel to rim
41	2006.33.151	Rim	n/a	2 7/16	Stained	2.5Y 6/1	Glossy	Incised	Hor. Lines	Semi-gloss	Mark is at least 2 horizontal lines parallel to rim
42	2006.33.164	Rim/Body	n/a	3 7/16	Stained	2.5Y 5/1	Semi-gloss	Incised	Hor. Lines	Semi-gloss	Mark is 2 horizontal lines parallel to rim
43	2006.33.167	Rim	n/a	3 1/16	Stained	2.5Y 7/4	Glossy	none	none	Semi-gloss	
44	2006.33.149	Rim/Body	n/a	3 1/8	Stained	7.5YR 5/3	Matte	Incised	Hor. Lines	Matte	Mark is 2 horizontal lines parallel to rim
45	2006.33.148	Base/Body	2 9/16	n/a	10YR 6.5/1	10YR 7/2.5	Semi-gloss	Incised	Hor. Lines	Matte	Mark is 1 horizontal line parallel to rim
46	2006.33.159 and .161	Base/Body	2 5/16	n/a	10YR 6.5/1	2.5Y 6.5/1	Glossy	Incised	Hor. Lines	Glazed	Mark is 1 horizontal line parallel to rim; 2 sherds mend
47	2006.33.148	Base/Body	2 5/8	n/a	Stained	2.5Y 6.5/2	Glossy	Incised	Hor. Lines	Semi-gloss	Mark is 1 horizontal line parallel to rim
48	2006.33.137	Base/Body	2 7/8	n/a	Stained	10YR 5.5/6	Glossy	Incised	Hor. Lines	Matte	Mark is 1 horizontal line parallel to rim

Vessel #	Provenience	Vessel Part	Base Radius (inches)	Rim Radius (inches)	Paste Color	Exterior Glaze Color	Finish	Mark Type	Mark Style	Interior Treatment	Notes
49	2006.33.130	Base/Body	2 1/4	n/a	10YR 6/1	2.5Y 5.5/1	Semi-gloss	Incised	Hor. Lines	Matte	Mark is 1 horizontal line parallel to rim
50	2006.33.137	Base/Body	2 1/8	n/a	2.5Y 7/2	7.5YR 5/6	Glossy	Incised	Hor. Lines	Glazed	Mark is 1 horizontal line parallel to rim
51	2006.33.156	Base	2 7/16	n/a	5YR 7/6	10YR 7/3	Glossy	none	none		Slight indentation above collar on base but not clearly incised
52	2006.33.183	Rim/Handle	n/a	2 5/8	Stained	2.5Y 7/2	Glossy	Incised + Stamped	Hor. Lines + Stars	Glazed	Mark is 2 horizontal lines parallel to rim surmounting a partial star
53	2006.33.186	Rim/Body	n/a	2 3/4	Stained	2.5Y 6.5/1	Glossy	Incised + Stamped	Hor. Lines + Flower	Matte	Mark is 2 horizontal lines parallel to rim surmounting a single flower w/stem and leaves
54	2006.33.194 and .200	Rim/Handle	n/a	2 1/2	2.5Y 7/1	2.5Y 6.5/1	Glossy	Incised	Hor. Lines	Matte	Mark is 2 horizontal lines parallel to rim; two sherds in same lot - don't mend
55	2006.33.190	Rim/Handle	n/a	2 3/4	2.5Y 7/1	2.5Y 6.5/1.5	Glossy	Incised	Hor. Lines	Matte	Mark is 2 horizontal lines parallel to rim
56	2006.33.176	Rim/Body	n/a	3	Stained	Stained	Glossy	Incised	Hor. Lines	Glazed	Mark is 2 horizontal lines parallel to rim
57	2006.33.190	Rim	n/a	2 1/8	2.5Y 7/2	2.5Y 7/1.5	Glossy	none	none	Glazed	
58	2006.33.175	Base/Body	2 7/16	n/a	2.5Y 5/1	7.5YR 5/3	Semi-gloss	Incised	Hor. Lines	Matte	Mark is 2 horizontal lines parallel to rim
59	2006.33.175	Base/Body	2	n/a	Stained	10YR 7/2	Glossy	Incised	Hor. Lines	Glazed	Mark is 1 horizontal line parallel to rim
60	2006.33.194	Base/Body	1 7/8	n/a	Stained	10YR 5.5/4	Semi-gloss	Incised	Hor. Lines	Matte	Mark is 1 horizontal line parallel to rim
61	2006.33.198	Base/Body	2 3/16	n/a	Stained	10YR 6.5/4	Glossy	Incised	Hor. Lines	Matte	Mark is 1 horizontal line parallel to rim
62	2006.33.186	Base/Body	2 5/8	n/a	10YR 5.5/1	2.5Y 6.5/1	Glossy	Incised	Hor. Lines	Matte	Mark is 1 horizontal line parallel to rim
63	2006.33.174	Base/Body	2 7/16	n/a	Stained	Stained	Semi-gloss	Incised	Hor. Lines	Matte	Mark is 2 horizontal lines parallel to rim; very shallow incising
64	2006.33.069	Base/Body	3 3/16	n/a	Stained	2.5Y 7.5/1	Glossy	Incised	Hor. Lines	Matte	Mark is 2 horizontal lines parallel to rim

Vessel #	Provenience	Vessel Part	Base Radius (inches)	Rim Radius (inches)	Paste Color	Exterior Glaze Color	Finish	Mark Type	Mark Style	Interior Treatment	Notes
65	2006.33.063	Base/Body	2 3/16	n/a	Stained	2.5Y 7/1.5	Glossy	Incised	Hor. Lines	Matte	Mark is 2 horizontal lines parallel to rim
66	2006.33.047	Base/Body	2 7/8	n/a	10R/ 6/1	2.5Y 7/1.5	Semi-gloss	Incised	Hor. Lines	Matte	Mark is 1 horizontal line parallel to rim
67	2006.33.041	Base	2 3/16	n/a	5YR 6.5/3	7.5YR 6/4	Glossy	Incised	Hor. Lines	Semi-gloss	Mark is 1 horizontal line parallel to rim
68	2006.33.209	Base/Body	1 15/16	n/a	2.5YR 6/1-6/4	10R 4/3.5	Glossy	Incised	Hor. Line	Matte	Mark is 1 horizontal line/indentation above collar on base

Table G-10. MNI of Westerwald stoneware vessels.

Vessel #	Provenience	Vessel Part	Form	Paste Color	Motif Glaze Color	Motif	Notes
1	2006.33.218	Rim	Open	2.5Y 8/1	Cobalt Blue	Floral	
2	2006.33.207	Rim	Open	10YR 8/2	Cobalt Blue	Band	Chamber pot?
3	2006.33.203	Rim	Open	Gley 1 8/N	Cobalt Blue	Band	Chamber pot?; everted rim
4	2006.33.226	Rim	Open	Gley 1 8/N	None	None	Upper rim only
5	2006.33.229	Rim	Open	Gley 1 8/N	Cobalt Blue	Band + Floral	Floral decoration below band
6	2006.33.226	Rim	Open	Gley 1 7/N	None	None	Rim slightly everted
7	2006.33.226	Rim	Open	Gley 1 8/N	Cobalt Blue	Band	Rim slightly everted
8	2006.33.186	Rim	Open	10YR 8/1	None	Incised Line	Line may be top of band
9	2006.33.203	Rim	Closed	Gley 1 7/N	Cobalt Blue	Band	Bottle form?
10	2006.33.215	Base	Open	2.5Y 7/1	Cobalt Blue	Band	Slight eversion of vessel wall
11	2006.33.226	Base	Open	Gley 2 8/5 PB	Cobalt Blue	Band + Geometric	Vessel wall everted
12	2006.33.219	Base	Open	2.5Y 6/1	Cobalt Blue	Band	Vessel wall everted
13	2006.13.216	Base	Open	2.5Y 7/1	None	None	Vessel wall widely everted; bowl?
14	2006.33.220	Base	Unknown	Stained	None	None	Vessel wall everted
15	2006.33.226	Base	Unknown	2.5Y 7/1	Cobalt Blue	Band	Vessel wall slightly everted
16	2006.33.226	Base	Unknown	Stained	None	None	Mid-base fragment only
17	2006.33.226	Base	Unknown	Stained	None	None	Mid-base fragment only
18	2006.33.229	Base	Unknown	2.5Y 8/1	None	None	Mid-base fragment only
19	2006.33.216	Base	Unknown	2.5Y 8/1	None	None	Mid-base fragment only
20	2006.33.207	Base	Unknown	2.5Y 6/1	None	None	Mid-base fragment only

Table G-11. Identified marks on mineral water bottles.

Mark #	Provenience	Paste Color	Exterior Glaze Color	Exterior Finish	Mark	Ring Color	Maker	Town	Interior Color	Interior Finish	Notes
1	2006.33.132	7.5YR 7/1	10YR 7/1.5	Semi-gloss	Selters	Blue	none	none	10YR 7/4	Matte	
2	2006.33.168	7.5YR 7/1	5YR 7/1.5	Semi-gloss	Selters	Blue	none	none	10YR 6.5/4	Matte	mark - "...TERS"
3	2006.33.157	7.5YR 7/1 & 8/1	10YR 8/2.5	Semi-gloss	Selters	Blue	none	HR	7.5YR 7/6	Matte	mark - "...ELT..."
4	2006.33.151	7.5YR 7/1	10YR 8/2.5	Semi-gloss	Selters	Blue	none	none	10YR 7/3.5	Matte	mark - "...TERS"
5	2006.33.123	7.5YR 7/5/1	7.5YR 7.5/1	Semi-gloss	Selters	Blue	none	none	7.5YR 7.5/4	Matte	mark - "...TERS"
6	2006.33.157	7.5YR 7/1 & 8/1	Gley 2 10B 6.5/1	Gloss	Selters	Blue	none	none	7.5YR 7/1.5	Matte	mark - "...ERS"; "R" upside down
7	2006.33.140	7.5YR 7.5/1	10YR 7.5/1-4	Gloss	Selters	Blue	none	none	7.5YR 6.5/4	Matte	mark - "...E..."
8	2006.33.153	Stained	7.5YR 7/1.4	Semi-gloss	Selters	Blue	none	none	7.5YR 7/1.5	Semi-gloss	mark - "...TE..."
9	2006.33.141	7.5YR 6.5/1	10YR 7.5/1	Semi-gloss	Selters	Blue	none	none	7.5YR 7/2	Matte	mark - "...R..."
10	2006.33.139	7.5YR 7/1	5YR 5/5	Semi-gloss	Selters	Blue	none	none	10YR 7/2.5	Matte	mark - "SE..."
11	2006.33.155	7.5YR 7/1 & 8/1	7.5YR 6/4	Semi-gloss	Selters	Blue	17	R	7.5YR 7.5/1	Matte	
12	2006.33.162	7.5YR 7/1	10YR 7/3.5	Semi-gloss	Selters	Blue/brown	117	R	7.5YR 7/3	Matte	mark - "...ERS"
13	2006.33.153	7.5YR 7/1	10YR 7/4	Semi-gloss	Selters	Blue	none	none	10YR 7/3.5	Matte	
14	2006.33.139	Stained	10YR 7.5/2	Semi-gloss	Tolle	None	none	none	Stained	Matte	
15	2006.33.149	10YR 7/1	10YR 7.5/1.5	Gloss	Tolle	None	none	none	10YR 7/1	Semi-gloss	mark - "TOLLES"; "S" is backwards
16	2006.33.161	7.5YR 7/1	10YR 7/1.5	Semi-gloss	Selters	Blue	_3	partial R	7.5YR 7/3	Matte	same vessel as Neck #2 in 2006.33.167
17	2006.33.155	7.5YR 7/1	10YR 7/1.4	Semi-gloss	Selters	Blue	none	none	7.5YR 7/3	Matte	
18	2006.33.165	7.5YR 7/1	10YR 7/3.5	Semi-gloss	?	None	125	B	7.5YR 7/4	Semi-gloss	Likely "Selters" based on Town mark
19	2006.33.158	7.5YR 7/1	10YR 7/3.5	Gloss	Selters	Blue	none	B	Stained	Matte	
20	2006.33.156	5YR 6.5/1	10YR 7.5/3	Gloss	Selters	Blue	illegible	R	10YR 7.5/2	Semi-gloss	

Mark #	Provenience	Paste Color	Exterior Glaze Color	Exterior Finish	Mark	Ring Color	Maker	Town	Interior Color	Interior Finish	Notes
21	2006.33.172	7.5YR 7/1	7.5YR 7/1.5	Gloss	?	None	_4	A	10YR 7/2.5	Matte	Likely "Selters" based on Town mark
22	2006.33.155	10YR 7/1	10YR 7/1	Semi-gloss	?	None	none	HS	10YR 7/3.5	Matte	Likely "Selters" based on Town mark
23	2006.33.167	7.5YR 7/1	10YR 7/1	Semi-gloss	Selters	None	79	H or R?	10YR 7/3	Semi-gloss	
24	2006.33.140 & .165	7.5YR 7/1	10YR 7/1	Semi-gloss	?	None	illegible	illegible	7.5YR 7/4	Matte	two .140 sherds mend to a .165 sherd
25	2006.33.185	10YR 6.5/1	10YR 7/3.5	Semi-gloss	Selters	Blue	none	none	10YR 7/3.5	Matte	Mark - ".ELTE.."
26	2006.33.181	7.5YR 7.5/1	10YR 7/3.5	Semi-gloss	Selters	Blue	186	R	7.5YR 7.5/2	Matte	
27	2006.33.176	7.5YR 6.5/1	10YR 7/1	Gloss	Selters	Blue	none	B	7.5YR 6.5/6	Semi-gloss	Mark - "SE...."
28	2006.33.188	7.5YR 7/1	10YR 7/1	Semi-gloss	Selters	Blue	none	HR??	7.5YR 7/2	Matte	Mark - "...LTER..."
29	2006.33.176	10YR 7/1	10YR 7/1	Gloss	Selters	Blue	none	none	10YR 7/2	Matte	Mark - "...LT..."
30	2006.33.186	7.5YR 7/1	10YR 7/2.5	Gloss	Selters	Blue	none	B	10YR 7/3	Matte	
31	2006.33.185	7.5YR 7/1	10YR 6.5/4	Semi-gloss	Selters	Blue	none	none	10YR 7/3	Matte	Mark - "S...ERS"; the "S's" are backwards
32	2006.33.190 & .191	10YR 5/1	10YR 6/1.4	Gloss	Selters	Brown	none	A	2.5YR 5/4	Matte	Same vessel as Neck #26; no mends
33	2006.33.176 & .177 & .189	10YR 7.5/1	10YR 7.5/1	Gloss	Selters	Blue	none	none	10YR 7.5/1.5	Matte	
34	2006.33.177	10YR 7.5/1	10YR 7.5/1	Semi-gloss	Selters	Blue	none	none	7.5YR 7/4	Matte	
35	2006.33.190	10YR 7/1	Gley 5N - 10YR 6/1	Gloss	?	Blue	none	illegible	10YR 6.5/3	Matte	
36	2006.33.189	10YR 7/1	10YR 7/2.5	Gloss	?	?	illegible	?	Stained	Matte	
37	2006.33.094	10YR 7/1	10YR 7.5/1	Semi-gloss	?	None	_8?	R	10YR 7.5/2	Matte	
38	2006.33.097	complete bottle	10YR 7.5/1	Semi-gloss	Selters	Blue/brown	126	R	?	?	Iron oxide specs on exterior; Neck #20
39	2006.33.139	7.5YR 7/1	10YR 7/2.5	Gloss	Selters	Blue	none	none	7.5YR 7.5/2	Matte	Neck #21
40	2006.33.151	7.5YR 7/1	5YR 6/5	Semi-gloss	Selters	Blue	none	none	7.5YR 7/1.5	Matte	Cork intact; Neck #24
41	2006.33.207	Stained	10YR 8/1.5	Semi-gloss	Selters	Blue	none	none	7.5YR 7.5/3	Matte	Cork intact; Neck #22

Mark #	Provenience	Paste Color	Exterior Glaze Color	Exterior Finish	Mark	Ring Color	Maker	Town	Interior Color	Interior Finish	Notes
42	2006.33.219	10YR 7/1	10YR 7/1.5	Semi-gloss	Selters	Blue	_76	HR	7.5YR 7/2.5	Matte	Mark - "...TERS"; "S" is backwards. Neck #59
43	2006.33.215	Stained	2.5YR 7.5/1	Gloss	Selters	Blue	none	none	7.5YR 7/4	Semi-gloss	Mark - "...LT."; Neck # 61
44	2006.33.229	Stained	10YR 7/1	Semi-gloss	Selters	Blue	none	none	2.5YR 6/3.5	Semi-gloss	Mark - "...ELTERS"; deeply incised
45	2006.33.213	Stained	2.5YR 6.5/1	Gloss	Selters	Blue	none	none	7.5YR 7/3.5	Matte	Outer ring has zig-zag incising
46	2006.33.218	Stained	10YR 6.5/1	Gloss	Selters	Blue	none	none	5YR 7/1.5	Matte	Mark - "...ER..."
47	2006.33.215	7.5YR 7.5/1	10YR 7.5/1	Gloss	Selters	Blue	none	none	10YR 7.5/2	Semi-gloss	Mark - "...TERS"; very faint ring glaze
48	2006.33.205 & .229	7.5YR 6.5/1	2.5Y 7.5/1	Gloss	Selters	Blue	none	none	7.5YR 7/4	Semi-gloss	Mark - "SELT"; "S" is backwards; sherds mend
49	2006.33.207	7.5YR 7/1	2.5Y 7/1	Gloss	Selters	Blue	none	none	2.5YR 6.5/4	Semi-gloss	Mark - "...T...."; small stamp
50	2006.33.215	10YR 7/1	10YR 7/1	Gloss	?	Blue	none	none	10YR 7/3	Matte	Possible oval shaped ring; no letters
51	2006.33.204	10YR 7/1	10YR 6/2.5	Semi-gloss	Selters	Blue	none	none	10YR 6.5/2	Gloss	
52	2006.33.225	10YR 6.5/1	10YR 7/1.5	Semi-gloss	Selters	Blue	none	none	10YR 7/1.5	Matte	Mark - "ERR..."; duplicate "R"
53	2006.33.218	10YR 7/1	10YR 7/1.5	Gloss	Selters	None	none	none	7.5YR 6.5/4	Semi-gloss	Mark - "SEL..."; no outer ring around mark
54	2006.33.215	Stained	10YR 7/1-3	Gloss	Selters	Blue	none	HS	7.5YR 7/4	Matte	No letters
55	2006.33.202 & .206	5YR 7/1	10YR 6/4-6	Gloss	Selters	Blue	none	none	10YR 7/3.5	Gloss	Mark - "...ER..."; 3 sherds mend
56	2006.33.xxx	7.5YR 6.5/1	7.5YR 6/3.5	Semi-gloss	Selters	Blue	none	none	5YR 6/3.5	Matte	Mark - "...ES..RS.."; reversed "ES"; deep incising
57	2006.33.217	Stained	7.5YR 7/1.5	Semi-gloss	Selters	Blue	none	none	5YR 6/4	Semi-gloss	Mark - "SELT..."
58	2006.33.203	Stained	10YR 7/2.5	Semi-gloss	Selters	Blue	none	none	5YR 6.5/4	Matte	No letters
59	2006.33.208	7.5YR 7/1	10YR 6/4-6	Semi-gloss	Selters	Blue	none	none	5YR 6/4	Matte	No letters
60	2006.33.202	5YR 7.5/1	10YR 7/1-4	Semi-gloss	Selters	Blue	none	none	7.5YR 7/3.5	Matte	No letters; drip mark near ring
61	2006.33.220	10YR 7/1	10YR 6.5/4	Semi-gloss	Selters	Blue	none	illegible	10YR 7/2.5	Matte	Mark - "SELT.."
62	2006.33.217	7.5YR 7/1	7.5YR 5.5/4	Semi-gloss	Selters	Blue	none	none	10YR 7/2	Matte	Mark - partial "L"
63	2006.33.205	5YR 7/1	10YR 6/3.5	Gloss	Selters	Blue	none	none	5YR 6.5/3	Gloss	Mark - "S....."

Mark #	Provenience	Paste Color	Exterior Glaze Color	Exterior Finish	Mark	Ring Color	Maker	Town	Interior Color	Interior Finish	Notes
64	2006.33.220	10YR 7/1	7.5YR 6.5/3	Semi-gloss	Selters	Blue	none	none	5YR 6/3.5	Gloss	No letters
65	2006.33.226	7.5YR 7/1	7.5YR 6/4-6	Semi-gloss	Selters	Blue	none	none	10YR 7/2.5	Matte	Mark - "...RS"
66	2006.33.203	10YR 7.5/1	10YR 6.5/3	Semi-gloss	Selters	Blue	none	none	7.5YR 6.5/4	Matte	No letters
67	2006.33.229	7.5YR 7/1	10YR 6.5/3	Semi-gloss	Selters	Blue	none	none	10YR 7.5/3	Matte	No letters
68	2006.33.217	10YR 7/1	10YR 7/1.5	Semi-gloss	Selters	Blue	none	none	7.5YR 7/3	Matte	No letters
69	2006.33.207	7.5YR 7/1	10YR 7/1-3	Gloss	Selters	Blue	none	none	7.5YR 6.5/3	Matte	Mark - "SE..."; "S" is backwards
70	2006.33.226	10YR 6.5/1	10YR 7/2.5	Semi-gloss	Selters	Blue	none	none	10YR 7/2.5	Matte	
71	2006.33.229	7.5YR 7/1	10YR 6.5/3	Semi-gloss	Selters	Blue	none	none	7.5YR 6/3	Matte	
72	2006.33.213	10YR 7.5/1	10YR 7/3.5	Semi-gloss	Selters	Blue	none	none	7.5YR 7/4	Semi-gloss	Thin blue ring
73	2006.33.229	7.5YR 6/1	7.5YR 7/1-4	Semi-gloss	Selters	Blue	none	none	5YR 6.5/4	Gloss	Mark - "SEL..."
74	2006.33.220	5YR 7/1	2.5Y 7/4	Gloss	Selters	Blue	none	none	7.5YR 6.5/3	Semi-gloss	Illegible letters
75	2006.33.231	Stained	10YR 6.5/3	Semi-gloss	Selters	Blue	none	none	10YR 7/2.5	Matte	Mark - "...ERS"
76	2006.33.202	7.5YR 7/1	10YR 7.5/3	Semi-gloss	Selters	Blue	none	none	10YR 7/2	Matte	Partial Town mark - "1"; straight line - not number one
77	2006.33.215	Stained	10YR 7.5/2	Matte	Selters	Blue	none	none	10YR 7/2	Matte	Mark - "SEL..."
78	2006.33.224	10YR 6/1	10YR 7/3	Semi-gloss	Selters	Blue	none	none	10YR 7.5/3	Matte	Mark - "SELT..S"
79	2006.33.205	10YR 7/1	10YR 7/3.5	Gloss	Selters	Blue	none	HS	10YR 7.5/2	Semi-gloss	Mark - "...RS"
80	2006.33.202	5YR 6/1	7.5YR 6/3.5	Semi-gloss	Selters	Blue	none	none	5YR 6/4-6	Semi-gloss	Mark - "..EL..."
81	2006.33.207	10YR 7/1	7.5YR 6/4-6	Semi-gloss	Selters	Blue	242	R	10YR 7/2	Matte	No letters
82	2006.33.xxx	7.5YR 7/1	Stained	Stained	Selters	Blue	none	none	7.5YR 7/3	Matte	Mark - "S...."
83	2006.33.230	7.5YR 7/1	10YR 7/2	Semi-gloss	Selters	Blue	18	B	10YR 7/2	Matte	No letters
84	2006.33.226	Stained	10YR 7.5/2	Semi-gloss	?	None	none	MB?	7.5YR 7/3	Matte	No ring; second letter in Town mark illegible

Mark #	Provenience	Paste Color	Exterior Glaze Color	Exterior Finish	Mark	Ring Color	Maker	Town	Interior Color	Interior Finish	Notes
85	2006.33.226	7.5YR 7/1	10YR 7/1.5	Semi-gloss	?	None	7_	none	10YR 7/2	Matte	No letters; second maker number illegible
86	2006.33.202	7.5YR 7/1	10YR 7/1	Gloss	?	None	122	illegible	10YR 7/1	Semi-gloss	Town letter possible R or H
87	2006.33.229	10YR 7/1	10YR 6/4	Gloss	Selters	Blue	none	none	7.5YR 7/2.5	Matte	Mark - "...ELTER.."
88	2006.33.226	10YR 7/1	10YR 7/3	Gloss	Selters	Blue/brown	none	none	5YR 7/3	Matte	Mark - "SEEL...S"; duplicate "E"
89	2006.33.218	10YR 7/1	10YR 7/3	Gloss	Selters	Brown	none	none	7.5YR 6.5/3	Matte	Mark - "SEL..."; incising error on letter "E"
90	2006.33.204	Stained	10YR 6.5/4	Semi-gloss	Selters	Blue	none	none	7.5YR 7/3	Matte	No letters
91	2006.33.231	7.5YR 6.5/1	10YR 6.5/4	Semi-gloss	Selters	Blue	none	none	7.5YR 6.5/4	Semi-gloss	Mark - "...RS"; "S" is backwards
92	2006.33.217	10YR 7/1	10YR 6.5/3	Gloss	Selters	Brown	none	none	2.5YR 6.5/3	Matte	Mark - "...T...."
93	2006.33.212	10YR 7/1	7.5YR 6/3	Semi-gloss	Selters	None	none	none	10YR 7/2	Matte	Mark - "SE...."
94	2006.33.207	7.5YR 7/1	7.5YR 6.5/3	Semi-gloss	Selters	None	18_	B	10YR 7.5/3	Matte	Deeply incised Town mark "B"
95	2006.33.207	7.5YR 7/1	10YR 7/3.5	Semi-gloss	Selters	None	18_	B	5YR 6.5/3	Matte	
96	2006.33.230	7.5YR 7.5/1	10YR 7/3	Semi-gloss	Selters	None	none	R	10YR 7/2.5	Matte	
97	2006.33.205	7.5YR 7/1	7.5YR 7/1.5	Semi-gloss	Selters	None	none	R	10YR 7/2.5	Matte	
98	2006.33.221	10YR 6.5/1	10YR 7/2.4	Gloss	Selters	None	14	none	10YR 6.5/4	Matte	Blue glaze residue on ring
99	2006.33.229	Stained	10YR 7/3	Gloss	Selters	None	17	none	10YR 7/2	Matte	
100	2006.33.218	7.5YR 6/1	10YR 6.5/3	Gloss	Selters	None	67	none	10YR 7.5/2	Matte	Numbers in cursive form; incised
101	2006.33.229	7.5YR 7/1	7.5YR 6/4	Gloss	Selters	None	63	none	10YR 7/1.5	Matte	
102	2006.33.229	7.5YR 7/1	7.5YR 7/4	Gloss	Selters	None	95	none	7.5YR 7/3.5	Matte	Distinctive interior tooling ridges
103	2006.33.216	10YR 7/1	10YR 7/3	Semi-gloss	Selters	Blue	1	R	10YR 7/2.5	Matte	Partial outer ring incised; Neck #62
104	2006.33.219	10YR 6.5/1	10YR 6/4.6	Gloss	?	None	none	MF?	5YR 6/4	Semi-gloss	Partial second letter for Town; ring incised - no glaze

Table G-12. MNI of mineral water bottles by vessel base.

Base #	Provenience	Base Radius (inches)	Exterior Glaze Color	Exterior Finish	Interior Color	Interior Finish	Notes
1	2006.33.166	1 7/8	10YR 7.5/2.5	Gloss	5YR 7.5/3	Gloss	Exterior de-glazing
2	2006.33.160	1 3/4	10YR 7/2.5	Semi-gloss	10YR 7/1.5	Gloss	
3	2006.33.164	1 7/8	10YR 7/1	Gloss	10YR 7.5/1.5	Semi-gloss	
4	2006.33.139	1 7/8	10YR 7/1.4	Gloss	5YR 5/4	Matte	
5	2006.33.157	1 3/4	7.5YR 6/3.5	Gloss	5YR 6/3.5	Semi-gloss	
6	2006.33.135	1 7/8	10YR 7/1	Gloss	5YR 6/4	Semi-gloss	
7	2006.33.166	2	10 YR 7/1.5	Gloss	2.5YR 6.5/3	Gloss	
8	2006.33.137	1 15/16	7.5YR 6.5/2	Semi-gloss	7.5YR 6/3	Matte	
9	2006.33.158	1 13/16	10YR 6.5/1	Gloss	10YR 7/2	Semi-gloss	
10	2006.33.154	1 15/16	7.5YR 6.5/3	Semi-gloss	10YR 7/2.5	Matte	
11	2006.33.147	1 15/16	7.5YR 6/3	Gloss	7.5YR 6.5/3	Matte	
12	2006.33.163	1 7/8	10YR 7/1	Gloss	5YR 6.5/4	Matte	
13	2006.33.148	1 3/4	10YR 7/1	Gloss	7.5YR 7/5	Matte	
14	2006.33.162	1 7/8	10YR 7/5	Gloss	7.5YR 7/5	Matte	
15	2006.33.149	1 15/16	7.5YR 7.5/1	Semi-gloss	7.5YR 8/3.5	Matte	
16	2006.33.142	1 7/8	7.5YR 6.5/3	Semi-gloss	7.5YR 7/3.5	Semi-gloss	
17	2006.33.155	2 1/8	10YR 7/2.5	Gloss	7.5YR 6.5/4	Matte	
18	2006.33.154	too small	10YR 7/1.5	Gloss	7.5YR 7.5/3	Semi-gloss	
19	2006.33.144	too small	7.5YR 7/1.5	Gloss	7.5YR 7.5/3	Matte	
20	2006.33.149	too small	missing	missing	7.5YR 6.5/3	Matte	Base only; no body wall
21	2006.33.128	too small	missing	missing	10YR 7/1.5	Matte	Base only; no body wall
22	2006.33.132	too small	missing	missing	Stained	Matte	Base only; no body wall
23	2006.33.196	1 15/16	10YR 7/1	Gloss	7.5YR 7/4	Matte	Complete base
24	2006.33.174	1 15/16	7.5YR 6.5/3	Gloss	7.5YR 7/3	Matte	Iron oxide specs int/ext.
25	2006.33.177	1 7/8	10YR 7/1	Gloss	10YR 7/4	Matte	
26	2006.33.190	1 15/16	10YR 7/2.5	Semi-gloss	10YR 7/5	Matte	
27	2006.33.174 and .175	2 1/16	10YR 7/3	Matte	10 YR 7.5/4	Matte	Three base sherds mend
28	2006.33.185	2 1/8	7.5YR 7/2	Semi-gloss	2.5 YR 7/2	Matte	Iron oxide specs exterior
29	2006.33.177	1 7/8	10YR 7/1.5	Gloss	7.5YR 7/3.5	Semi-gloss	Two sherds mend
30	2006.33.189	1 7/8	10YR 7/3.5	Semi-gloss	10YR 7.5/6	Matte	
31	2006.33.192	2	10YR 6.5/4	Gloss	7.5YR 7/3	Matte	
32	2006.33.189	1 7/8	10YR 7/1	Semi-gloss	10YR 7/3	Matte	small concretion attached
33	2006.33.185	1 7/8	10YR 7/1	Gloss	5YR 6/4	Matte	
34	2006.33.176	2	10YR 6.5/4	Gloss	7.5YR 6.5/3	Matte	Iron oxide specs int/ext.
35	2006.33.198	too small	10YR 7/2.5	Gloss	7.5YR 6.5/3	Matte	Iron oxide specs interior
36	2006.33.177	2	10YR 6.5/1	Gloss	5YR 6.5/2	Matte	Some exterior de-glazing
37	2006.33.179	too small	7.5YR 6.5/4	Semi-gloss	10YR 7.5/3	Matte	
38	2006.33.190	too small	7.5YR 6/4	Semi-gloss	10YR 7.5/2	Matte	
39	2006.33.189	too small	10YR 7/2.5	Gloss	Stained	Matte	Heavy iron staining; incised numbers unreadable
40	2006.33.185	2 1/16	10YR 7.5/2	Gloss	10YR 7.5/3	Semi-gloss	

Base #	Provenience	Base Radius (inches)	Exterior Glaze Color	Exterior Finish	Interior Color	Interior Finish	Notes
41	2006.33.180	too small	10YR 7.5/2	Semi-gloss	7.5YR 7/3	Matte	Heavy iron staining
42	2006.33.185	too small	missing	missing	7.5YR 6/3.5	Matte	
43	2006.33.185	too small	missing	missing	7.5YR 6.5/3	Matte	Iron oxide specs interior
44	2006.33.185	too small	10YR 7/1	Gloss	10YR 7/1	Semi-gloss	Possibly a "Tolle" bottle?
45	2006.33.097	1 13/16	10YR 7/3	Semi-gloss	Complete vessel	Unknown	Complete Vessel from Hydroprobe survey
46	2006.33.057	2 1/16	5YR 5/4	Gloss	10YR 7/2	Matte	
47	2006.33.054	2	7.5YR 7/3	Semi-gloss	7.5YR 8/4	Matte	
48	2006.33.216	1 7/8	10YR 7.5/1	Gloss	10YR 7/2.5	Semi-gloss	
49	2006.33.207	1 15/16	10YR 7/1	Semi-gloss	10YR 7.5/2.5	Matte	Possibly a "Tolle" bottle?
50	2006.33.220	1 7/8	7.5YR 5/3.5	Semi-gloss	5YR 5/3	Gloss	
51	2006.33.215	1 7/8	7.5YR 5/3.5	Semi-gloss	5YR 5/3	Semi-gloss	
52	2006.33.209	2 1/16	10YR 6/1.5	Gloss	10YR 6/1	Gloss	Iron oxide staining on interior
53	2006.33.227	too small	10YR 7/1.4	Semi-gloss	10YR 7/2.5	Semi-gloss	
54	2006.33.218	2	10YR 7.5/1	Gloss	10YR 6/4	Semi-gloss	
55	2006.33.229	too small	missing	missing	7.5YR 5.5/3	Gloss	
56	2006.33.219	1 15/16	7.5YR 6.5/4	Semi-gloss	5YR 6.5/5	Semi-gloss	
57	2006.33.209	1 15/16	10YR 7/3.5	Gloss	7.5YR 6.5/3	Semi-gloss	
58	2006.33.212	1 15/16	10YR 6.5/4	Semi-gloss	7.5YR 7/4	Gloss	
59	2006.33.203	1 7/8	7.5YR 6.5/3	Semi-gloss	7.5YR 7/3.5	Gloss	
60	2006.33.201	too small	10YR 6/4	Gloss	7.5YR 7/4	Gloss	
61	2006.33.205	too small	5Y 6/3	Gloss	7.5YR 7/4	Gloss	
62	2006.33.209	too small	10YR 7/1.4	Gloss	7.5YR 7/4	Gloss	
63	2006.33.218	too small	10YR 7/3	Gloss	7.5YR 7/3.5	Semi-gloss	
64	2006.33.228	too small	10YR 7/1.3	Semi-gloss	7.5YR 7/4	Semi-gloss	
65	2006.33.220	too small	missing	missing	7.5YR 6.5/4	Semi-gloss	
66	2006.33.201	2	2.5Y 7/1.5	Gloss	5YR 6/4	Semi-gloss	
67	2006.33.207	1 15/16	10YR 7.5/3	Semi-gloss	2.5YR 6/4	Gloss	
68	2006.33.218	1 15/16	10YR 7/2	Semi-gloss	5YR 7/3	Semi-gloss	
69	2006.33.226	2 1/16	10YR 7.5/1	Gloss	10YR 7.5/2	Gloss	
70	2006.33.204	2 1/16	10YR 7/2.5	Gloss	10YR 7.5/3	Semi-gloss	
71	2006.33.203	2	10YR 7/2	Gloss	7.5YR 8/1.4	Gloss	Exterior de-glazing
72	2006.33.212	2 1/8	10YR 7.5/1	Gloss	2.5YR 7/1.5	Semi-gloss	Iron oxide specs on exterior
73	2006.33.217	too small	missing	missing	10YR 7.5/2	Gloss	
74	2006.33.213	2	10YR 7/1	Semi-gloss	10YR 7/1.5	Semi-gloss	
75	2006.33.225	too small	10YR 5.5/4	Gloss	10YR 7/1	Semi-gloss	
76	2006.33.217	1 15/16	10YR 6/3.5	Semi-gloss	10YR 7/2	Semi-gloss	

Base #	Provenience	Base Radius (inches)	Exterior Glaze Color	Exterior Finish	Interior Color	Interior Finish	Notes
77	2006.33.229	too small	missing	missing	10YR 7/3	Gloss	
78	2006.33.203	too small	7.5YR 6/4	Semi-gloss	5YR 6/5	Semi-gloss	
79	2006.33.230	too small	missing	missing	10YR 6.5/3	Semi-gloss	
80	2006.33.204	1 3/4	7.5YR 6/5	Semi-gloss	7.5YR 6.5/6	Semi-gloss	
81	2006.33.204	too small	missing	missing	2.5Y 7/2	Gloss	
82	2006.33.204	too small	missing	missing	10YR 7/4	Gloss	
83	2006.33.226	too small	missing	missing	10YR 6.5/4	Semi-gloss	
84	2006.33.217	2	10YR 7/1.4	Gloss	5YR 6/4	Semi-gloss	
85	2006.33.227	1 15/16	10YR 7.5/1	Semi-gloss	10YR 7.5/1	Gloss	
86	2006.33.207 and .217	2	10YR 7.5/1	Gloss	2.5Y 7.5/1.5	Semi-gloss	Two sherds mend
87	2006.33.219	too small	10YR 7/3	Gloss	10YR 7.5/1	Semi-gloss	
88	2006.33.207	1 15/16	2.5Y 7/1	Gloss	10YR 7.5/1	Semi-gloss	
89	2006.33.225	too small	10YR 6.5/3	Gloss	10YR 7/1	Semi-gloss	
90	2006.33.204	2	10YR 7/4	Gloss	2.5Y 7/1	Gloss	
91	2006.33.217	1 13/16	10YR 7/1.5	Semi-gloss	10YR 8/2	Semi-gloss	
92	2006.33.225	2 1/16	10YR 7/1.5	Semi-gloss	10YR 7.5/3	Semi-gloss	
93	2006.33.177	too small	10YR 7.5/1	Gloss	10YR 7.5/2	Semi-gloss	
94	2006.33.229	too small	missing	missing	10YR 7.5/2	Semi-gloss	
95	2006.33.226	2	10YR 7/3	Semi-gloss	10YR 7.5/2	Semi-gloss	Some interior is matte
96	2006.33.215	too small	10YR 7/3	Gloss	5YR 7/1.5	Semi-gloss	Some interior is matte
97	2006.33.213 and .216	1 15/16	10YR 7.5/1	Gloss	7.5YR 7/5	Matte	Two sherds mend
98	2006.33.229	too small	10YR 6.5/1	Gloss	10YR 7.5/2	Matte	Tolle bottle
99	2006.33.207	too small	10YR 6/1	Gloss	2.5YR 6/4	Semi-gloss	
100	2006.33.213 and .231	too small	missing	missing	5YR 7/4	Matte	Two sherds from .213 mend; sherd 231 same lot
101	2006.33.201	too small	10YR 6.5/1	Gloss	10YR 6/3	Matte	
102	2006.33.207 and .229	2	7.5YR 5.5/4	Semi-gloss	10YR 7/2.5	Matte	Two sherds mend
103	2006.33.223	too small	7.5YR 7/3	Semi-gloss	10YR 8/4	Matte	Four sherds mend from this context
104	2006.33.207	2 1/8	10YR 7.5/1	Semi-gloss	10YR 8/4	Matte	Two sherds mend from this context
105	2006.33.216	too small	missing	missing	10YR 7.5/4	Matte	
106	2006.33.227	too small	missing	missing	7.5YR 7/2	Matte	
107	2006.33.208	too small	10YR 6.6/4	Gloss	10YR 7.5/4	Matte	
108	2006.33.215	2 1/8	10YR 7/3	Semi-gloss	10YR 8/3	Matte	

Base #	Provenience	Base Radius (inches)	Exterior Glaze Color	Exterior Finish	Interior Color	Interior Finish	Notes
109	2006.33.207	too small	7.5YR 7/3.5	Semi-gloss	10YR 7.5/3	Matte	
110	2006.33.225	too small	10YR 7/4	Gloss	10YR 7.5/3	Matte	
111	2006.33.213	too small	7.5YR 6.5/4	Gloss	10YR 8/1.5	Matte	
112	2006.33.215	too small	missing	missing	10YR 7.5/3	Matte	
113	2006.33.207 and .229	too small	2.5YR 7.5/1	Gloss	10YR 7.5/3	Matte	two sherds mend
114	2006.33.231	too small	missing	missing	10YR 7/2.5	Matte	
115	2006.33.203	2	2.5YR 7/1	Gloss	10YR 7/2.5	Matte	
116	2006.33.213	too small	10YR 6.5/4	Semi-gloss	7.5YR 7/4	Matte	
117	2006.33.217	1 7/8	10YR 7/1.5	Semi-gloss	7.5YR 7/3	Matte	
118	2006.33.229	too small	10YR 7.5/1	Semi-gloss	10YR 7/3	Matte	
119	2006.33.226	too small	2.5 YR 7.5/1	Gloss	10YR 7/3.5	Matte	
120	2006.33.226	too small	10YR 6/4	Semi-gloss	10YR 7/2.5	Matte	
121	2006.33.204	2 1/16	10YR 7/2	Semi-gloss	10YR 7/2	Matte	
122	2006.33.213	too small	7.5YR 6/3	Semi-gloss	10YR 7/1.5	Matte	
123	2006.33.216	too small	missing	missing	10YR 7/2	Matte	
124	2006.33.225	too small	missing	missing	10YR 7/1	Matte	
125	2006.33.204	1 15/16	2.5Y 7/1	Gloss	7.5YR 7/4	Matte	Iron stained
126	2006.33.229	2	2.5Y 7.5/1	Gloss	7.5YR 6.5/4	Matte	
127	2006.33.204	2 1/8	7.5YR 6.5/4	Semi-gloss	5YR 6.5/4	Semi-gloss	
128	2006.33.212	1 15/16	10YR 7/3	Semi-gloss	7.5YR 7/3	Matte	
129	2006.33.227	too small	10YR 7.5/1.5	Gloss	10YR 7.5/1.5	Matte	
130	2006.33.203	too small	2.5Y 7.5/1	Semi-gloss	10YR 7.5/1	Matte	
131	2006.33.216	too small	10YR 7/1.4	Gloss	10YR 7.5/1	Matte	
132	2006.33.229	too small	7.5YR 6/4	Semi-gloss	10YR 7.5/1	Matte	Iron stained
133	2006.33.223	too small	10YR 7.5/1.5	Semi-gloss	10YR 8/2.5	Matte	
134	2006.33.214	1 7/8	10YR 7/1.5	Gloss	7.5YR 7/3.5	Matte	
135	2006.33.219	1 15/16	10YR 7.5/1	Gloss	10YR 7/4	Matte	
136	2006.33.214	2	10YR 7/2	Gloss	10YR 7.5/2	Matte	Slight concretion
137	2006.33.218	2	2.5YR 7.5/1	Gloss	5YR 6.5/4	Matte	
138	2006.33.205	2 1/16	2.5YR 7.5/1	Gloss	5YR 6.5/4	Matte	
139	2006.33.219	1 7/8	2.5YR 7.5/1	Gloss	5YR 6.5/4	Matte	
140	2006.33.203	too small	10YR 7/1.5	Gloss	5YR 6/4	Matte	
141	2006.33.220	too small	10YR 6/4	Gloss	5YR 6/4	Matte	

Base #	Provenience	Base Radius (inches)	Exterior Glaze Color	Exterior Finish	Interior Color	Interior Finish	Notes
142	2006.33.204	too small	2.5YR 7.5/1	Gloss	5YR 6.5/4	Matte	
143	2006.33.204	too small	10YR 7/2	Gloss	5YR 6.5/4	Matte	
144	2006.33.207	1 7/8	10YR 7/1.5	Semi-gloss	5YR 6.5/3	Matte	
145	2006.33.208	too small	7.5YR 5.5/4	Semi-gloss	5YR 7/3.5	Matte	
146	2006.33.221	2	Gley 2 10B 7/1	Gloss	7.5YR 6.5/4	Matte	
147	2006.33.220	1 13/16	10YR 7.5/1	Semi-gloss	7.5YR 7/4	Matte	
148	2006.33.207	1 7/8	5YR 6.5/2	Gloss	7.5 YR 6.5/3	Matte	
149	2006.33.201	2	2.5Y 6.5/1	Semi-gloss	7.5YR 6.5/3	Matte	
150	2006.33.207	too small	Gley 2 5B 7/1	Gloss	7.5YR 6/3	Matte	
151	2006.33.208	too small	10YR 7/2	Gloss	7.5YR 6/3	Matte	
152	2006.33.205	too small	10YR 7/1.5	Semi-gloss	5YR 7/3.5	Semi-gloss	
153	2006.33.212	2	10YR 7/3	Gloss	7.5YR 7/2.5	Matte	
154	2006.33.204	1 3/4	10YR 7/3	Semi-gloss	7.5YR 7/3	Matte	
155	2006.33.201	1 15/16	2.5YR 7/1	Gloss	10YR 7/3	Matte	
156	2006.33.216 and.226	1 15/16	10YR 7/3.5	Gloss	10YR 7/2	Matte	Two sherds mend
157	2006.33.203 and.217	1 3/4	10YR 6.5/3	Semi-gloss	10YR 7.5/2	Matte	Two sherds, same lot; don' mend
158	2006.33.219	2 1/8	10YR 7/3	Semi-gloss	10YR 7/2.5	Matte	Interior and paste stained
159	2006.33.218	1 15/16	7.5YR 6/4	Semi-gloss	10YR 7/2.5	Matte	
160	2006.218 and .219	2	2.5Y 7.5/1	Gloss	10YR 7/3	Matte	Sherds mend
161	2006.33.220	2	10YR 6/3	Semi-gloss	10YR 7/1.5	Matte	
162	2006.33.217	2	10YR 6/3.5	Semi-gloss	10YR 7/1.5	Matte	
163	2006.33.213	too small	7.5YR 6/3	Semi-gloss	10YR 7/2	Matte	
164	2006.33.217	2	10YR 7/2.5	Semi-gloss	10YR 6.5/3	Matte	
165	2006.33.204	2	10YR 7/2.5	Semi-gloss	10YR 7/2.5	Matte	
166	2006.33.225	too small	10YR 7/3	Gloss	10YR 7/2	Matte	
167	2006.33.215	too small	10YR 7/1.5	Semi-gloss	10YR 7/2.5	Matte	
168	2006.33.217	too small	10YR 7/1.5	Gloss	7.5YR 7.5/3	Matte	
169	2006.33.219	too small	10YR 7.5/1	Semi-gloss	10YR 6.5/3	Matte	

Table G-13. MNI of mineral water bottles by vessel neck.

Neck #	Provenience	Neck width (inches)	Exterior Glaze Color	Exterior Finish	Interior Treatment	Interior Finish	Notes
1	2006.33.158	1.25	10YR 7/1.5	Gloss	7.5YR 7/1.5	Semi-gloss	Opening 3/4"; intact handle
2	2006.33.167	1.27	10YR 7/1.5	Semi-gloss	5YR 7/3	Matte	Opening 3/4"; intact handle
3	2006.33.141	broken	10YR 7/1.5	Gloss	7.5YR 6/2.5	Gloss	
4	2006.33.165	broken	10YR 7.5/1	Matte	7.5YR 7/5	Matte	
5	2006.33.161	broken	10YR 7/2.5	Semi-gloss	5YR 6.5/4	Semi-gloss	Handle intact
6	2006.33.157	broken	7.5YR 7/1.5	Semi-gloss	7.5YR 7/3.5	Semi-gloss	
7	2006.33.161	broken	10YR 7/1	Gloss	5YR 6/4	Semi-gloss	
8	2006.33.165	broken	7.5YR 7/1.5	Semi-gloss	5YR 7/3	Matte	
9	2006.33.139	broken	10YR 7/3	Semi-gloss	2.5YR 4.5/4	Matte	Handle intact
10	2006.33.163	broken	10YR 7/1.5	Gloss	2.5YR 6.5/4	Semi-gloss	Handle intact
11	2006.33.148	broken	10YR 6/5	Gloss	10YR 7/3.5	Matte	Handle intact
12	2006.33.198	1.26	10YR 6/3.5	Semi-gloss	10YR 7/2.5	Matte	Opening 7/8"; 2 sherds; partially de-glazed
13	2006.33.188	broken	7.5YR 6/4	Gloss	7.5YR 7/3	Matte	Handle intact
14	2006.33.189	broken	10YR 6.5/3	Gloss	5YR 7/2	Matte	Partial handle; 2 sherds
15	2006.33.190	broken	10YR 7/4	Semi-gloss	5YR 7/2	Matte	Fractured and partially deglazed
16	2006.33.185	broken	10YR 7/2.5	Gloss	10YR 7.5/2	Matte	Handle intact
17	2006.33.177	broken	7.5YR 6/3.5	Gloss	5YR 6.5/4	Matte	partial handle
18	2006.33.189	broken	10YR 7.5/3.5	Semi-gloss	10YR 7.5/3	Matte	Handle intact
19	2006.33.177	broken	10YR 7.5/3	Gloss	7.5YR 7/2.5	Matte	partial handle
20	2006.33.097	1.31	10YR 7/3	Semi-gloss	complete bottle	unknown	Hydroprobe recovery
21	2006.33.139	1.27	10YR 7/2.5	Gloss	7.5YR 7.5/2	Matte	cork in neck; partial handle
22	2006.33.139	1.27	10YR 7.5/2	Gloss	5YR 7/5	Matte	cork in neck; partial handle
23	2006.33.198	1.31	10YR 7/1.5	Semi-gloss	7.5YR 7.5/2	Matte	cork in neck
24	2006.33.151	1.26	5YR 6/5	Semi-gloss	7.5YR 7/1.5	Matte	cork in neck
25	2006.33.142	1.22	10YR 7.5/1.5	Gloss	10YR 7.5/1.5	Matte	cork in neck; handle intact
26	2006.33.191	1.20	10YR 6/3	Gloss	2.5YR 5.5/4	Matte	cork in neck; Mark #41
27	2006.33.207	1.21	10YR 8/1.5	Semi-gloss	7.5YR 7.5/3	Matte	cork in neck
28	2006.33.212	broken	10YR 7/3.5	Semi-gloss	7.5YR 7.5/2	Matte	Handle intact
29	2006.33.222	broken	10YR 6.5/4	Semi-gloss	7.5YR 7/3	Matte	partial handle
30	2006.33.215	broken	10YR 7/2.5	Semi-gloss	7.5YR 7/3	Matte	Handle intact
31	2006.33.204	broken	10YR 7/1.5	Semi-gloss	5YR 6.5/3	Matte	Handle intact
32	2006.33.207	broken	10YR 6/5	Gloss	7.5YR 7/3	Matte	Handle intact
33	2006.33.203	broken	10YR 7.5/1	Semi-gloss	5YR 7/3	Matte	partial handle
34	2006.33.205	broken	2.5YR 6/5	Semi-gloss	2.5YR 6/4	Matte	
35	2006.33.225	broken	5YR 7/3	Semi-gloss	5YR 6.5/3	Gloss	
36	2006.33.229	broken	10YR 4-6/4	Semi-gloss	5YR 6.5/4	Gloss	
37	2006.33.209	broken	10YR 7/1-4	Semi-gloss	10YR 7/2	Gloss	2 sherds mend
38	2006.33.209	broken	10YR 6.5/3	Gloss	5YR 5.5/4	Gloss	paste iron stained
39	2006.33.204	broken	10YR 7/1.5	Semi-gloss	7.5YR 6/3.5	Gloss	Cobalt blue line on neck
40	2006.33.209	broken	10YR 7.5/3	Semi-gloss	7.5YR 7.5/3	Semi-gloss	
41	2006.33.215	broken	10YR 7/3.5	Gloss	10YR 7/1.5	Gloss	
42	2006.33.226	broken	10YR 7.5/2	Gloss	7.5YR 7.5/3	Gloss	
43	2006.33.225	broken	7.5YR 6/3.5	Semi-gloss	5YR 6/4	Semi-gloss	Exterior de-glazed
44	2006.33.231	broken	10YR 8/1.5	Semi-gloss	10YR 7/2	Semi-gloss	

Neck #	Provenience	Neck width (inches)	Exterior Glaze Color	Exterior Finish	Interior Treatment	Interior Finish	Notes
45	2006.33.204	broken	10YR 7/3.5	Semi-gloss	10YR 6.5/4	Semi-gloss	
46	2006.33.226	broken	deglazed	Semi-gloss	5YR 6/3.5	Semi-gloss	exterior de-glazed; cobalt blue line
47	2006.33.226	broken	10YR 7/2.5	Semi-gloss	7.5YR 7/3	Matte	
48	2006.33.203	broken	7.5YR 6/4	Semi-gloss	10R 6/4	Matte	
49	2006.33.226	broken	2.5Y 7/1	Semi-gloss	2.5Y 7/1	Semi-gloss	decorative incising
50	2006.33.229	broken	deglazed	deglazed	7.5YR 5.5/4	Semi-gloss	
51	2006.33.204 and .226	broken	10YR 7/1.4	Semi-gloss	7.5YR 7/2.5	Matte	two sherds mend
52	2006.33.203 and .207	broken	10YR 7/2.5	Semi-gloss	5YR 6/4	Matte	two sherds mend
53	2006.33.207	broken	10YR 7.5/1.5	Gloss	10YR 7/1.5	Matte	
54	2006.33.207	broken	2.5Y 7.5/1	Gloss	5YR 7.5/1	Semi-gloss	near mark - cobalt blue ring (partial)
55	2006.33.211	broken	10YR 6/4	Semi-gloss	7.5YR 6.5/4	Semi-gloss	
56	2006.33.201	broken	10YR 6/3.5	Gloss	2.5YR 6.5/3	Gloss	
57	2006.33.229	broken	10YR 7/3.5	Gloss	5YR 6.5/3	Semi-gloss	
58	2006.33.207	broken	2.5Y 7.5/1.5	Gloss	7.5YR 7/5	Semi-gloss	
59	2006.33.219	broken	10YR 7/1.5	Semi-gloss	7.5YR 7/2.5	Matte	Mark #42
60	2006.33.203	broken	10YR 6/4	Gloss	7.5YR 6.5/3	Matte	Handle intact
61	2006.33.215	broken	2.5Y 7.5/1	Gloss	7.5YR 7/4	Semi-gloss	Mark # 43
62	2006.33.216	1.30	10YR 7/3	Semi-gloss	7.5YR 7/2.5	Matte	Mark # 103

Table G-14. Inventory of white salt-glazed stoneware vessels recovered from the Roosevelt Inlet Shipwreck.

Provenience	Vessel Part	Form Description	Count	Weight (g)
2006.33.189	Rim	Plate; motif-lattice with star	1	2.90
2006.33.201	Base	Plate base - plain	1	6.00
2006.33.202	Rim	Plate; motif-wicker	1	2.00
2006.33.207	Rim	Plate; motif-wicker	1	0.90
2006.33.215	Base	Plate base fragment	1	4.30
2006.33.217	Body	Plate; motif-dot and diaper and wicker	1	9.40
2006.33.226	Base	Possible plate	2	2.50
2006.33.229	Rim	1- dot and diaper; 1 - wicker and floral	2	2.60

Table G-15. Porcelain recovered from the Roosevelt Inlet Shipwreck.

Vessel #	Provenience	Vessel Type	Vessel Part	Paste Type	Décor. Location	Interior Décor.*	Exterior Décor.*	Underglaze Color	Overglaze Color*	Glaze	Motif	Pattern	Associations	Comments
1	2006.33.229	Hollow	Base	Soft	Int. Base	Transfer Printed	None	Blue	N/A	Orange peel texture	Floral/Fruit	"Pine Cone"	Maybe #10?	Fruit basket or plate bottom; Worcester Porcelain Factory design; Imperfections: dimples on bottom surface; Association with #10 remote given distance between proveniences
2	2006.33.139	Unknown	Unknown	Soft	Int. Base?	Transfer Printed	N/A	Blue	N/A	Orange peel texture	Floral	Unknown	None	Unknown British Porcelain Factory
3	2006.33.230	Flat?	Base	?	Int. Base/Body	Transfer Printed	N/A	None	Unknown	Slight orange peel text.	Curvilinear lines	"Gold Queen's"	None	Partially ground foot ring; Worcester Factory design; Imperfections: dimple on exterior; foot ring diameter= +/-3 15/16"
4	2006.33.226	Unknown	Body	Hard?	Int. Body	Transfer Printed	N/A	None	Unknown	Glossy-Semi-glossy	Floral	Unknown	Maybe #s 5, 11, /or 14	Overglaze design is similar to parts of Vessels #5,11 & 14's design
5	2006.33.220	Flat?	Unknown	Hard?	Interior?	Transfer Printed	N/A	None	Unknown	Slight orange peel text.	Floral	Unknown	Maybe #s 4, 11 &/or 14	Overglaze design is similar to parts of Vessels #4,11 & 14's design
6	2006.33.185	Unknown	Base?	Soft	Int. Base/Ext. Body	Hand Painted?	Hand Painted?	Blue	N/A	Semi-glossy	Pagoda/Trees	Chinoisiere	None	Partial broken foot ring; Imperfections: inclusions in int.glaze/paste including black "spidery" lines in glaze & dimples on inside of foot ring
7	2006.33.185	Unknown	Base/Body	Hard	Int. Base/Body & Ext. Body	Hand Painted?	Brown Ground Glaze	Blue & Brown	Red	Slight orange peel text.	Floral/Fence	A "Redgrave Pat."	None	Ext. Brown glaze stops at foot ring; partially ground foot ring; Imperfections: Inclusions in int.& ext. glaze/paste; "Redgrave Pattern?"(may suggest Lowestoft Factory);foot ring dia.=2 1/2"
8	2006.33.138	Unknown	Body	Hard	Int.& Ext. Body	Hand Painted	Hand Painted	Blue	N/A	Glossy	Floral/Blotches	Unknown	None	Dark blue blotches/short strokes(petals?) are added over the colored in floral design giving appearance of 2 painting episodes; thin walled vessel
9	2006.33.229	Unknown	Rim/Body	Hard	Int. Body/Sub Rim & Ext. Body	Hand Painted	Hand Painted	Blue	N/A	Semi-glossy	Floral/Herringbone	Unknown	Maybe #23	Very thin walled; translucent

Vessel #	Provenience	Vessel Type	Vessel Part	Paste Type	Décor. Location	Interior Décor.*	Exterior Décor.*	Underglaze Color	Overglaze Color*	Glaze	Motif	Pattern	Associations	Comments
10	2006.33.219	Hollow	Body	Soft	Int. & Ext. Body	Transfer Printed/ Pierced	Paint/ Molded/ Appliqué	Blue	N/A	Orange peel texture	Floral	"Pine Cone"	Maybe #1?	Pierced fruit basket w/ applied & painted flowers at basket weave intersections; Worcester Porcelain Factory design; Imperfections: glaze pooling in crevices; Association w/ #1 remote given distance between proveniences
11	2006.33.218	Flat	Marley/ Rim	Hard	Rim/Int. Sub Rim (Markey)	Transfer Printed	Hand Painted Rim	Brown-rim only	Unknown	Glossy-Semi-glossy	Floral	Famille Rose?	Maybe #s 4, 5 &/or 14	Overglaze design is similar to parts of Vessels #4, 5, & 14's design; Imperfections: dimples on interior/marley; believe this is part of a plate; outside rim dia. = +/- 1/4"
12	2006.33.189	Hollow?	Rim/ Body	Hard	Rim/Int. Sub Rim & Ext. Body	Hand Painted	Brown Ground Glaze	Blue & Brown	N/A	Slight orange peel text.	Floral/Fern?	Unknown	None	Probable cup; it almost appears as if the glaze was applied to only the interior; brown ground has a rather matte finish as compared to that on exteriors of Vessels# 7& 24
13	2006.33.220	Flat?	Base?	Hard?	Int. & Ext. Base/ Body?	Hand Painted	Hand Painted	Blue	N/A	Glossy-Semi-glossy	Male/ Landscape	Chinoisiere	None	Imperfections: inclusions in interior glaze/paste & dimple on exterior
14	2006.33.220	Flat?	Unknown	Hard?	Interior?	Transfer Printed	None	None	Red & ?	Semi-glossy	Floral	Unknown	Maybe #s 4, 5 &/or 11	Overglaze design is similar to part of Vessels #4,5, & 11's design; only this vessel has any remnant of enamel/color
15	2006.33.216	Unknown	Base?	Hard	Int. Base	Hand Painted	None	Blue	N/A	Slight orange peel text.	Floral	Unknown	None	Concentric rings visible suggesting this is the bottom of a thrown plate or cup; Imperfections: inclusions & dimples in ext. glaze/paste
16	2006.33.215	Unknown	Unknown	Hard	None	N/A	N/A	None	N/A	Glossy-Semi-glossy	None	Unknown	None	This is an extremely small fragment; very thin walled and translucent
17	2006.33.156	Hollow?	Body	Hard	None	N/A	N/A	None	N/A	Glossy-Semi-glossy	None	Unknown	None	
18	2006.33.223	Hollow?	Rim/ Body	Hard	Int. Sub Rim	Hand Painted?	None	None	Red	Glossy	Straight/Curve. lines & dots/ dashes	Unknown	None	This type of sub-rim decoration has been seen on Bristol hard paste porcelain cups & pitchers; thin walled and translucent
20	2006.33.177	Hollow?	Body	Hard	Ext. Body	N/A	Hand Painted?	Blue	N/A	Glossy	Floral	Unknown	None	This is very thin walled and translucent

Vessel #	Provenience	Vessel Type	Vessel Part	Paste Type	Décor. Location	Interior Décor.*	Exterior Décor.*	Underglaze Color	Overglaze Color*	Glaze	Motif	Pattern	Associations	Comments
21	2006.33.207	Unknown	Rim/Body	Hard	Int. Sub Rim & Body	Hand Painted?	None	Blue	N/A	Glossy	Floral!/Cross Hatch Lines	Unknown	None	This is very thin walled and translucent
22	2006.33.215	Hollow	Rim/Body	Soft	Int. Sub Rim & Body & Ext. Body	Hand Painted?	Press-Molded	Blue	N/A	Slight orange peel text.	Cell Border/Molded Rose	Unknown	None	Underglaze blue decoration has run or "flown;" "cell diaper" design on interior sub-rim is seen in Worcester, Bow & Plymouth factory designs; vessel body & Rose design is press-molded
23	2006.33.217	Unknown	Rim/Body	Hard	Int. Sub Rim & Body	Hand Painted?	N/A	Blue	N/A	Glossy-Semi-glossy	Herringbone / Curv. lines & floral?	Unknown	Maybe #9	This is very thin walled and translucent
24	2006.33.229	Unknown	Rim/Body	Hard	Rim/Int. Sub Rim & Ext. Body	Hand Painted	Brown Ground Glaze	Brown	Red	Glossy-Semi-glossy	Horiz. & Vert. lines & Floral	Unknown	None	This is thin walled; brown ground exterior has grainy flecks of darker brown included; sub-rim design is a border of cells with flowers/leaves within; rim is slightly everted

Table G-16. MNI of round, olive green glass bottles, by vessel base.

Vessel #	Provenience Number	Base Diameter	Glass Color
1	2006.33.203	±12.22cm/4.80in (1)	Olive Yellow
2	2006.33.230,226 & 203	±11.85cm/4.67in (1)	Olive Yellow
3	2006.33.203 & 207	±14.62cm/5.76in (1)	Olive Green
4	2006.33.201 & 207	±16.44cm/6.47in (1)	Olive Yellow
5	2006.33.222	N/A	Olive Green
6	2006.33.227	N/A	Olive Green
7	2006.33.226	±12.80cm/5.00in (1)	Olive Yellow
8	2006.33.227, 228 & 230	N/A	Olive Yellow
9	2006.33.229	N/A	Olive Green
10	2006.33.228	±11.70cm/4.61in (1)	Olive Yellow
11	2006.33.220 & 222	N/A	Dark Olive Green
12	2006.33.229	N/A	Dark Olive Green
13	2006.33.202	N/A	Olive Yellow
14	2006.33.231	N/A	Dark Olive Green
15	2006.33.225	N/A	Blue-Green
16	2006.33.229	N/A	Blue-Green
17	2006.33.217 & 218	±11.78cm/4.64in (1)	Olive Yellow
18	2006.33.227	±11.50cm/4.50in (1)	Blue-Green
19	2006.33.216	±12.20cm/4.80in (1)	Olive Yellow
20	2006.33.221	N/A	Olive Yellow
21	2006.33.220	±11.90cm/4.70in (1)	Olive Green
22	2006.33.220	±12.70cm/5.02in (1)	Dark Olive Green
23	2006.33.220	±11.50cm/4.53in (1)	Olive Green
24	2006.33.219	±11.26cm/4.43in (1)	Olive Green
25	2006.33.218	±11.04cm/4.35in (1)	Olive Yellow
26	2006.33.218	±11.77cm/4.63in (1)	Olive Yellow
27	2006.33.218	N/A	Dark Olive Green
28	2006.33.218	N/A	Dark Olive Green
29	2006.33.217	N/A	Blue-Green
30	2006.33.217	±11.56cm/4.55in (1)	Olive Green
31	2006.33.213	±11.80cm/4.64in (1)	Olive Yellow
32	2006.33.204	N/A	Olive Yellow
33	2006.33.202	N/A	Olive Yellow
34	2006.33.206 & 207	N/A	Olive Yellow
35	2006.33.210	±11.00cm/4.40in (1)	Olive Yellow
36	2006.33.220	N/A	Dark Olive Green
37	2006.33.202	N/A	Dark Olive Green
38	2006.33.203	±11.52cm/4.54in (1)	Dark Olive Green
39	VOIDED	VOIDED	VOIDED
40	2006.33.207	±12.70cm/5.00in (1)	Blue-Green
41	2006.33.207	N/A	Olive Green
42	2006.33.207	N/A	Dark Olive Green
43	2006.33.212	N/A	Dark Olive Green
44	2006.33.219	N/A	Blue-Green
45	2006.33.226	8.58-10.24cm/3.38-4.04in (2)	Olive Green
46	2006.33.203	10.36cm/4.08in (2)	Olive Green
47	2006.33.207 & 208	10.04cm/3.96in (2)	Olive Green

Vessel #	Provenience Number	Base Diameter	Glass Color
48	2006.33.202	8.84cm/3.48in (2)	Olive Green
49	2006.33.217	9.48cm/3.74in (2)	Olive Green
50	2006.33.218	N/A	Dark Olive Green
51	2006.33.221	N/A	Olive Yellow
52	2006.33.226	8.66cm/3.40in (2)	Olive Yellow
53	2006.33.229	6.84cm/2.70in (2)	Olive Green
54	2006.33.203	8.80cm/3.46in (2)	Olive Green
55	2006.33.201	N/A	Olive Yellow
56	2006.33.123	±11.33cm/4.46in (1)	Olive Yellow
57	2006.33.123	±11.32cm/4.46in (1)	Olive Yellow
58	2006.33.130	N/A	Dark Olive Green
59	2006.33.137	±11.32cm/4.45in (1)	Olive Yellow
60	2006.33.149	±11.81cm/4.65in (1)	Blue-Green
61	2006.33.154	±11.23cm/4.42in (1)	Blue-Green
62	2006.33.154	±11.86cm/4.67in (1)	Olive Green
63	2006.33.159	±10.93cm/4.30in (1)	Olive Green
64	2006.33.161	±11.34cm/4.46in (1)	Olive Green
65	2006.33.164	±11.57cm/4.56in (1)	Olive Yellow
66	2006.33.161 & 165	±11.31cm/4.45in (1)	Olive Yellow
67	2006.33.165	±10.80cm/4.25in (1)	Olive Yellow
68	2006.33.137 & 139	N/A	Olive Yellow
69	2006.33.141	±13.98cm/5.46in (1)	Blue-Green
70	2006.33.158	±12.42cm/4.88in (1)	Olive Yellow
71	2006.33.148,155 & 159	N/A	Olive Green
72	2006.33.151, 158 & 159	±11.80cm/4.64in (1)	Olive Green
73	2006.33.152 & 166	N/A	Olive Green
74	2006.33.168	N/A	Olive Yellow
75	2006.33.152 & 168	8.36cm/3.29in (2)	Dark Olive Green
76	2006.33.152	8.41cm/3.31in (2)	Dark Olive Green
77	2006.33.149	8.35cm/3.29in (2)	Dark Olive Green
78	2006.33.139,151,154 & 161	8.61cm/3.39in (2)	Olive Yellow
79	2006.33.142	8.75cm/3.44in (2)	Olive Yellow
80	2006.33.151 & 153	9.06cm/3.56in (2)	Dark Olive Green
81	2006.33.139	9.82cm/3.86in (2)	Olive Green
82	2006.33.145	10.00cm/3.94in (2)	Olive Green
83	2006.33.140	10.00cm/3.94in (2)	Olive Green
84	2006.33.198	±11.37cm/4.47in (1)	Olive Yellow
85	2006.33.192	±12.96cm/5.10in (1)	Olive Green
86	2006.33.185	±11.37cm/4.48in (1)	Olive Green
87	206.33.185	±11.65cm/4.59in (1)	Olive Green
88	2006.33.176, 180 & 184	±11.24cm/4.43in (1)	Olive Green
89	2006.33.180	±11.42cm/4.50in (1)	Olive Green
90	2006.33.177	±11.70cm/4.61in (1)	Olive Yellow
91	2006.33.174	±11.91cm/4.69in (1)	Olive Green
92	2006.33.176	±11.45cm/4.51in (1)	Olive Green
93	2006.33.173	±11.19cm/4.41in (1)	Dark Olive Green
94	2006.33.190, 192 & 199	N/A	Olive Yellow

Vessel #	Provenience Number	Base Diameter	Glass Color
95	2006.33.176 & 185	N/A	Olive Yellow
96	2006.33.173 & 185	N/A	Olive Green
97	2006.33.175, 178, 185 & 189	N/A	Dark Olive Green
98	2006.33.191 & 185	8.64cm/3.40in (2)	Olive Green
99	2006.33.176	8.80cm/3.46in (2)	Dark Olive Green
100	2006.33.58	±11.64cm/4.58in (1)	Olive Green
101	2006.33.80	±11.40cm/4.50in (1)	Dark Olive Green

Table G-17. MNI of round, olive green glass bottles, by vessel finish.

Vessel #	Provenience Number	Finish Diameter	Bore Diameter	Glass Color
1	2006.33.225	N/A (broken)	N/A (Broken)	Olive Green
2	2006.33.225	3.26cm/1.28in	2.22cm/.88in	Olive Green
3	2006.33.229	4.14cm/1.28in	2.58cm/1.02in	Olive Green
4	2006.33.230	N/A (too small)	N/A (too small)	Olive Yellow
5	2006.33.230	N/A (too small)	N/A (too small)	Olive Yellow
6	2006.33.226	N/A (too small)	N/A (too small)	Olive Yellow
7	2006.33.226	3.08cm/1.20in	2.26cm/.90in	Olive Green
8	2006.33.223	3.62cm/1.42in	2.86cm/1.03in	Blue-Green
9	2006.33.220	3.20cm/1.25in	N/A	Blue-Green
10	2006.33.220	N/A (too small)	N/A (too small)	Olive Yellow
11	2006.33.219	3.08cm/1.22in	2.26cm/.89in	Olive Green
12	2006.33.218	N/A (too small)	N/A (too small)	Olive Yellow
13	2006.33.217	3.32cm/1.31in	1.65cm/.65in	Olive Yellow
14	2006.33.216	N/A (broken)	N/A (too small)	Olive Yellow
15	2006.33.203 & 207	N/A (too small)	N/A (too small)	Olive Green
16	2006.33.207	3.42cm/1.35in	1.85cm/.73in	Olive Green
17	2006.33.204	N/A	2.54cm/1.00in	Olive Green
18	2006.33.208	N/A (broken)	2.08cm/.82in	Olive Green
19	2006.33.208	3.30cm/1.30in	2.07cm/.82in	Olive Green
20	2006.33.203 & 204	4.10cm/1.62in	1.72cm/.68in	Blue-Green
21	2006.33.204	3.36cm/1.32in	2.10cm/.83in	Olive Yellow
22	2006.33.201 & 203	2.42cm/.96in	N/A	Olive Yellow
23	2006.33.203	N/A (too small)	N/A (too small)	Olive Green
24	2006.33.203	N/A (too small)	N/A (too small)	Olive Green
25	2006.33.155	3.56cm/1.40in	2.48cm/.98in	Olive Yellow
26	2006.33.139	3.35cm/1.32in	2.10cm/.82in	Olive Yellow
27	2006.33.192	3.60cm/1.46in	2.24cm/.88in	Dark Olive Green
28	2006.33.191	N/A (too small)	N/A (too small)	Olive Green
29	2006.33.176	3.17cm/1.25in	2.24cm/.88in	Olive Green
30	2006.33.204	N/A (too small)	N/A (too small)	Olive Yellow
31	2006.33.182	2.70cm/1.06in	1.76cm/.70in	Olive Yellow
32	2006.33.193	3.58cm/1.41in	1.43cm/.56in	Dark Olive Green

Table G-18. MNI of case bottles, by vessel base.

Vessel #	Provenience Number	Base Width	Glass Color
1	2006.33.232	Broken: N/A	Blue Green
2	2006.33.232 & .203	Broken: N/A	Olive Yellow
3	2006.33.231	7.39cm x ?/2.91" x ?	Olive Yellow
4	2006.33.231	7.49cm x 7.68cm/2.95" x 3.02"	Olive Yellow
5	2006.33.231	Broken: N/A	Olive Green
6	2006.33.229	7.33cm x 7.20cm/2.88" x 2.84"	Olive Yellow
7	2006.33.229	Broken: N/A	Olive Green
8	2006.33.229	Broken: N/A	Olive Green
9	2006.33.229	Broken: N/A	Olive Green
10	2006.33.227	7.11cm x 7.27cm/2.80" x 2.86"	Olive Yellow
11	2006.33.226	7.45cm x ?/2.93" x ?	Olive Green
12	2006.33.226	Broken: N/A	Olive Green
13	2006.33.226 & .203 & .201	Broken: N/A	Dark Olive Green
14	2006.33.226	Broken: N/A	Dark Olive Green
15	2006.33.226	Broken: N/A	Dark Olive Green
16	2006.33.226	Broken: N/A	Olive Yellow
17	2006.33.226	Broken: N/A	Olive Yellow
18	2006.33.226	Broken: N/A	Olive Yellow
19	2006.33.226	Broken: N/A	Olive Yellow
20	2006.33.225	7.01cm x 7.43cm/2.76" x 2.93"	Olive Yellow
21	2006.33.225	7.33cm x 7.34cm/2.88"x2.89"	Olive Yellow
22	2006.33.225	7.16cm x ?/2.82" x ?	Olive Yellow
23	2006.33.224	Broken: N/A	Olive Yellow
24	2006.33.231	Broken: N/A	Dark Olive Green
25	2006.33.229	Broken: N/A	Olive Yellow
26	2006.33.222	Broken: N/A	Blue Green
27	2006.33.221	Broken: N/A	Dark Olive Green
28	2006.33.220	7.30cm x 7.1cm/2.86" x 2.79"	Olive Yellow
29	2006.33.220	7.18cm x 7.10cm/2.83" x 2.80"	Olive Yellow
30	2006.33.217	7.13cm x 7.1cm/2.81" x 2.80"	Olive Yellow
31	2006.33.217	7.11cm x 6.96cm/2.80" x 2.74"	Olive Yellow
32	2006.33.218	Broken: N/A	Olive Yellow
33	2006.33.218 & 217	Broken: N/A	Olive Yellow
34	2006.33.221	Broken: N/A	Olive Green
35	2006.33.217	Broken: N/A	Olive Green
36	2006.33.217	Broken: N/A	Olive Yellow
37	2006.33.217	Broken: N/A	Dark Olive Green
38	2006.33.215	7.00cm x 7.10cm/2.75" x 2.79"	Olive Yellow
39	2006.33.215	Broken: N/A	Olive Yellow
40	2006.33.216 & .203	7.62cm x ?/2.82" x ?	Olive Yellow
41	2006.33.216	Broken: N/A	Olive Yellow
42	2006.33.216	Broken: N/A	Olive Green
43	2006.33.213	Broken: N/A	Olive Green
44	2006.33.204	Broken: N/A	Olive Green
45	2006.33.216 & .217	Broken: N/A	Blue Green
46	2006.33.215	Broken: N/A	Olive Yellow
47	2006.33.215	Broken: N/A	Olive Green

Vessel #	Provenience Number	Base Width	Glass Color
48	2006.33.215	Broken: N/A	Olive Green
49	2006.33.215	Broken: N/A	Olive Yellow
50	2006.33.215 & .204	7.0cm x 7.01cm/2.74" x 7.10"	Olive Yellow
51	2006.33.213	73.4cm X 7.11cm/2.89" x 2.80"	Olive Yellow
52	2006.33.213	7.32cm x 7.27cm/2.88" x 2.86"	Olive Yellow
53	2006.33.213	7.44cm x ?/2.93" x ?	Olive Green
54	2006.33.203	Broken: N/A	Olive Yellow
55	2006.33.207	Broken: N/A	Olive Yellow
56	2006.33.204	7.80cm x 7.76cm/3.10" x 3.06"	Olive Yellow
57	2006.33.204 & .202	Broken: N/A	Olive Yellow
58	2006.33.204	Broken: N/A	Olive Yellow
59	2006.33.204	Broken: N/A	Olive Yellow
60	2006.33.201 & .203 & .204	Broken: N/A	Blue Green-Dark Olive Green
61	2006.33.205 & .207	7.30cm x ?/2.88" x ?	Olive Yellow
62	2006.33.204 & .203	Broken: N/A	Olive Yellow
63	2006.33.215	Broken: N/A	Olive Yellow
64	2006.33.205 & .207	Broken: N/A	Dark Olive Green
65	2006.33.203	Broken: N/A	Olive Green
66	2006.33.201	Broken: N/A	Olive Green
67	2006.33.228	Broken: N/A	Olive Yellow
68	2006.33.124	Broken: N/A	Olive Yellow
69	2006.33.130	6.94cm x 7.28cm/2.73" x 2.86"	Olive Yellow
70	2006.33.130	Broken: N/A	Olive Green
71	2006.33.137	8.01cm x ?/3.15" x ?	Blue Green-Dark Olive Green
72	2006.33.145	7.21cm x 7.04cm/2.84" x 2.72"	Olive Yellow
73	2006.33.142 & .153	Broken: N/A	Dark Olive Green
74	2006.33.145	Broken: N/A	Blue Green
75	2006.33.148	Broken: N/A	Blue Green
76	2006.33.158	7.29cm x 7.26cm/2.84" x 2.86"	Olive Yellow
77	2006.33.185 & .187	Broken: N/A	Olive Yellow
78	2006.33.193	Broken: N/A	Dark Olive Green
79	2006.33.211	7.12cm x ?/2.80" x ?	Olive Yellow
80	2006.33.211	7.11cm x ?/2.79" x ?	Olive Yellow
81	2006.33.046	7.26cm x ?/2.86" x ?	Olive Yellow

Table G-19. MNI of case bottles, by vessel finish.

Vessel #	Provenience Number	Finish Diameter	Bore Diameter	Glass Color
1	2006.33.231	4.06cm/1.60in	2.85cm/1.12in	Blue-Green
2	2006.33.231	N/A	N/A	Olive Yellow
3	2006.33.229	N/A	N/A	Olive Yellow
4	2006.33.229	3.51cm/1.38in	2.48cm/.98in	Dark Olive Green
5	2006.33.229	3.83cm/1.51in	2.14cm/.84in	Olive Green
6	2006.33.229	4.20cm/1.66in	3.18cm/1.26in	Blue-Green
7	2006.33.229	3.98cm/1.57in	3.34cm/1.31in	Blue-Green
8	2006.33.228	3.22cm/1.27in	N/A	Blue-Green
9	2006.33.226	4.28cm/1.64in	4.04cm/1.59in	Blue-Green
10	2006.33.226	3.20cm/1.25in	2.30cm/.90in	Olive Green
11	2006.33.221	4.80cm/1.89in	N/A	Olive Green
12	2006.33.218	N/A	N/A	Olive Green
13	2006.33.216	4.18cm/1.64in	N/A	Blue-Green
14	2006.33.201 & 207	4.15cm/1.63in	2.62cm/1.03in	Olive Green
15	2006.33.205	3.93cm/1.55in	2.13cm/.84in	Blue-Green
16	2006.33.204	3.74cm/1.47in	2.13cm/.84in	Olive Green
17	2006.33.204	4.36cm/1.72in	N/A	Olive Green
18	2006.33.204	3.74cm/1.48in	3.22cm/1.26in	Blue-Green
19	2006.33.203	3.98cm/1.58in	2.73cm/1.07in	Blue-Green
20	2006.33.203	3.62cm/1.42in	2.94cm/1.16in	Olive Yellow
21	2006.33.201	3.96cm/1.56in	2.45cm/.96in	Blue-Green
22	2006.33.168	4.14cm/1.63in	2.72cm/1.07in	Blue-Green
23	2006.33.195	3.94cm/1.55in	2.40cm/.95in	Dark Olive Green
24	2006.33.193	3.35cm/1.32in	1.70cm/.67in	Dark Olive Green
25	2006.33.189	3.55cm/1.40in	2.44cm/.96in	Dark Olive Green
26	2006.33.228	3.54cm/1.40in	2.21cm/.87in	Dark Olive Green
27	2006.33.204	N/A	N/A	Olive Green

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Table G-20. Stemware recovered from the Roosevelt Inlet Shipwreck site.

Vessel #	Provenience	Vessel Part(s)	# of Artifacts in Lot	Rim Diam.	Bowl Shape	Bowl Decoration Method	Bowl Design/Detail	Stem Formation	Stem Decoration Method	Stem Design/Detail	Foot Formation	Foot Diameter	Foot Decoration Method	Foot Design/Detail	Foot/Basal Treatment	Possible Associations	Observations
1	2006.33.148	Bowl	1	N/A	N/A	Etching	Lines, floral design?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4, 5, 6, and/or 8	Could also be a Tumbler. Thin walled.
2	2006.33.153	Bowl	1	N/A	N/A	Molding	Panels	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Could also be a Tumbler.
3	2006.33.159	Bowl	1	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
4	2006.33.168	Rim/ Bowl	1	6.89cm	N/A	Etching	Vesica, scrolls, lines, dots	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,5,6 and/or 8	Could also be a Tumbler. Thin walled.
5	2006.33.168	Bowl	1	N/A	Conical?	Etching	Lines	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1, 4, 6 and/or 8	Could also be a Tumbler. Thin walled. Bowl-ogee or rounded funnel shape
6	2006.33.168	Stem	1	N/A	N/A	N/A	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	1, 4, 5, and/or 8	
7	2006.33.170	Bowl	1	N/A	N/A	Molding	Wrythen Ribbing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Could also be a Tumbler. Thin walled.
8	2006.33.170	Bowl	1	N/A	Conical?	Etching	Vesica, dots	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,4, 5 and/or 6	Could also be a Tumbler. Thin walled. Bowl-ogee or rounded funnel shape
9	2006.33.171	Bowl	1	N/A	N/A	Lynn Glass	5 Horizontal ribs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Could also be a Tumbler. Thin walled.
10	2006.33.189	Bowl	1	N/A	Conical?	Etching	Lines, floral design?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Could also be a Tumbler. Thick walled. Bowl-ogee or rounded funnel shape
11	2006.33.189	Bowl	1	N/A	N/A	Molding	Wrythen Ribbing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Could also be a Tumbler.
12	2006.33.190	Bowl	1	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14?	Could also be a Tumbler.
13	2006.33.192	Bowl	1	N/A	N/A	Molding	Wrythen Ribbing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Could also be a Tumbler.
14	2006.33.193	Bowl	1	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12?	
15	2006.33.202	Bowl	3 (no mends)	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20, 25 and/or 32	Could also be a Tumbler.
16	2006.33.203	Rim/ Bowl	1	N/A	Cup or Ovoid	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22? 73?	Could also be a Tumbler. Thick walled. Striations below rim.
17	2006.33.203	Rim/ Bowl	2 (no mend)	5.52cm	Conical?	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28 and/or 67	Thin walled. Bowl- may also be ogee or rounded funnel shaped.
18	2006.33.203	Bowl	2 (no mend)	N/A	N/A	Etching	Curved lines, floral design	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24, 27? 29?	
19	2006.33.203	Foot	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Flanged	N/A	Molded	Overstrung Foot	N/A	37	Beverage or Dessert glass.
20	2006.33.203	Bowl	2 (no mend)	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15, 25 and/or 32	Could also be a Tumbler.
21	2006.33.204	Rim/ Bowl	1	8.80cm	Bell?	Molding	Ribs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
22	2006.33.204	Bowl	6 (no mends)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16?	Thick walled.
23	2006.33.204	Foot	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	None	Undecorated	Finished Pontil Mark		Could also be a Tumbler. Thin walled.
24	2006.33.206	Rim/ Bowl	2 (no mend)	N/A	Conical?	Etching	Vesica, scrolls, lines, dots	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18, 27, 29 and/or 65	Could also be a Tumbler. Thin walled. Bowl-ogee or rounded funnel shape.
25	2006.33.206	Bowl	1	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15, 20 and/or 32	Could also be a Tumbler.
26	2006.33.207	Foot	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Plain Conical	6.51cm/	None	N/A	N/A	63 and/or 72	
27	2006.33.207	Rim/ Bowl	1	7.98cm	Conical?	Etching	Vesica, scrolls, lines, dots	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24 and/or 29	Could also be a Tumbler. Thin walled. Bowl-ogee or rounded funnel shape.
28	2006.33.207	Bowl	11 (5 mends)	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17 and/or 67	
29	2006.33.208	Rim/ Bowl	1	8.08cm	Conical?	Etching	Vesica, scrolls, lines, dots	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24, 27, 18?	Could also be a Tumbler. Thin walled. Bowl-ogee or rounded funnel shape

Vessel #	Provenience	Vessel Part(s)	# of Artifacts in Lot	Rim Diam.	Bowl Shape	Bowl Decoration Method	Bowl Design/Detail	Stem Formation	Stem Decoration Method	Stem Design/Detail	Foot Formation	Foot Diameter	Foot Decoration Method	Foot Design/Detail	Foot/Basal Treatment	Possible Associations	Observations
30	2006.333.208	Foot	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Plain Conical	N/A	None	N/A	N/A		
31	2006.33.209	Bowl	1	N/A	Unknown	None	Undecorated	N/A	N/A	N/A	Missing??	N/A	N/A	N/A	N/A	53 and/or 56	Thick Finger Bowl or Rinser-Foot Missing?? Ground Pontil.
32	2006.33.210	Bowl	1	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15, 20 and/or 25	Could also be a Tumbler
33	2006.33.212	Stem	1	N/A	N/A	N/A	N/A	N/A	Cutting	Hexagonal Facets	N/A	N/A	N/A	N/A	N/A	34 38?	
34	2006.33.212	Bowl	1	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	33	
35	2006.33.215	Rim/ Bowl	3 (mend)	N/A	Conical?	Etching & Molding	Vesica, scrolls, lines, dots, flutes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Could also be a Tumbler. Thin walled. Bowl- ogee or rounded funnel shape
36	2006.33.215	Rim/ Bowl	1	5.51cm	Ovoid	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	45	
37	2006.33.215	Foot	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Plain Conical	N/A	None	N/A	N/A		
38	2006.33.216	Stem	1	N/A	N/A	N/A	N/A	N/A	Cutting	Facets	N/A	N/A	N/A	N/A	N/A	33	
39	2006.33.217	Stem	1	N/A	N/A	N/A	N/A	Tapered	Cutting	Hexagonal Facets	N/A	N/A	N/A	N/A	N/A		Thick Stem Fragment.
40	2006.33.217	Stem/ Bowl	1	N/A	Ovoid	None	Undecorated	Slightly tapered	None	Undecorated	N/A	N/A	N/A	N/A	N/A	42 and/or 49	Thick bowl.
41	2006.33.217	Bowl	1	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	46 and/or 51	
42	2006.33.217	Foot	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Plain Conical	N/A	None	N/A	N/A	40	
43	2006.33.218	Stem/ Bowl	1	N/A	Ovoid	None	Undecorated	Slightly tapered	None	Undecorated	N/A	N/A	N/A	N/A	N/A	49	
44	2006.33.218	Bowl	7 (5 mend)	N/A	Conical?	Etching	Vesica, lines, floral & bird?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Could also be a Tumbler. Thin walled.
45	2006.33.218	Bowl	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	36	
46	2006.33.218	Bowl	5 (2 mends)	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41 and/or 51	
47	2006.33.218	Bowl	2 (no mend)	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32? 52	Could also be a Tumbler. Thin walled.
48	2006.33.219	Rim	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Could also be a Tumbler. Thin walled.
49	2006.33.219	Rim/ Bowl	4 (mend)	6.83cm	Ovoid	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40 or 43 (not both)	
50	2006.33.219	Bowl	1	N/A	N/A	Molding	Shallow Wrythen Ribbing??	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Could also be a Tumbler. Thin walled.
51	2006.33.219	Bowl	2 (no mend)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41? 46?	
52	2006.33.219	Bowl	3 (no mends)	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	47	Could also be a Tumbler.
53	2006.33.220	Bowl	1	N/A	Unknown	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31, 56	Thick walled finger bowl or Rinser- feet missing???
54	2006.33.225	Foot/ Stem	1	N/A	N/A	N/A	N/A	N/A	Cutting	Facets	Unknown	N/A	None	Undecorated	Roughly Ground Pontil		
55	2006.33.225	Rim	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		could also be a Tumbler.
56	2006.33.226	Bowl	1	N/A	Unknown	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31, 53	Thick walled finger bowl or Rinser-feet missing???
57	2006.33.226	Foot	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Flanged	N/A	Molded	Overstrung Foot	N/A	19	Beverage or Dessert glass.
58	2006.33.226	Foot	2 (no mend)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Plain Conical	N/A	None	Undecorated	N/A		
59	2006.33.226	Bowl	1	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	61	Could also be a Tumbler.

Vessel #	Provenience	Vessel Part(s)	# of Artifacts in Lot	Rim Diam.	Bowl Shape	Bowl Decoration Method	Bowl Design/Detail	Stem Formation	Stem Decoration Method	Stem Design/Detail	Foot Formation	Foot Diameter	Foot Decoration Method	Foot Design/Detail	Foot/Basal Treatment	Possible Associations	Observations
60	2006.33.228	Foot	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Plain Conical	6.82cm	None	Undecorated	N/A	62	
61	2006.33.228	Bowl	1	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	59	Could also be a Tumbler.
62	2006.33.229	Foot	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Plain Conical	N/A	None	Undecorated	N/A	60	
63	2006.33.226	Foot	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Plain Conical	N/A	None	Undecorated	N/A	26, 72	
64	2006.33.229	Foot	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Plain Conical	N/A	None	Undecorated	N/A		
65	2006.33.229	Bowl	2 (no mend)	N/A	N/A	Etching	Vesica, lines, dots, floral	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24	Could also be a Tumbler. Thin walled.
66	2006.33.229	Stem	1	N/A	N/A	N/A	N/A	Tapered	Cutting	Hexagonal Facets	N/A	N/A	N/A	N/A	N/A	70?	
67	2006.33.229	Stem/ Bowl	1	N/A	N/A	N/A	N/A	Knopped	Molding & Inclusions	1 Angular Knop; opaque twist	N/A	N/A	N/A	N/A	N/A	17, 28	
68	2006.33.229	Bowl	2 (no mend)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
69	2006.33.229	Bowl	6 (no mends)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Could also be a Tumbler.
70	2006.33.232	Stem	1	N/A	N/A	N/A	N/A	Slightly tapered	Cutting	Hexagonal Facets	N/A	N/A	N/A	N/A	N/A	66?	
71	2006.33.232	Foot/ Stem	3 (mend)	N/A	N/A	N/A	N/A	N/A	Cutting	Hexagonal Facets	Plain Conical	6.47cm	None	Undecorated	Roughly Ground Pontil		
72	2006.33.232	Foot	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Plain Conical	N/A	None	Undecorated	N/A	26, 63	
73	2006.33.206	Rim/ Bowl	1	N/A	N/A	None	Undecorated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16	Could also be a Tumbler.

Table G-21. Tumblers recovered from the Roosevelt Inlet Shipwreck site.

Vessel #	Provenience	Vessel Part(s)	# of Artifacts in Lot	Body Shape	Basal Shape	Base Diameter	Basal Treatment	Rim Shape	Rim Diameter	Rim Treatment	Decoration Method	Design/Detail	Decoration Location	Possible Associations	Observations
1	2206.33.126	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Etching	Vesica, lines, dots	Body		Could also be Stemware
2	2006.33.127	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Applied Thread of Glass	Horizontal lines	Body	3	Mug or Cup?
3	2006.33.131	Body	2 (no mend)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Applied Thread of Glass	Horizontal lines	Body	2	Mug or Cup?
4	2006.33.134	Rim/Body	1	Cylindrical	N/A	N/A	N/A	Slightly Flared	7.06cm/	Fire-polished	None	None	N/A	6	Striations present
5	2006.33.134	Rim	1	Cylindrical or Barrel	N/A	N/A	N/A	Slightly Tapered-in	7.98cm	Fire-polished	Applied Thread of Glass	Horizontal lines	Starts .73in below rim	2 and/or 3	Mug or Cup?
6	2006.33.136	Body	2 (no mend)	Cylindrical	N/A	N/A	N/A	N/A	N/A	N/A	Molding	Slight horizontal rib	Near Base?	4, 9 and/or 10	Linear bulge ±.25in high
7	2006.33.139	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	None	None	N/A	4	Same thickness & striations as #4
8	2006.33.140	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Molding	Shallow Wrythen ribbing	Body		May not be a true Wrythen ribbing
9	2006.33.158	Body	4 (3 mend)	Cylindrical	N/A	N/A	N/A	N/A	N/A	N/A	None	None	N/A	6 and/or 10	Thick at one end; slightly curved
10	2006.33.159	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	None	None	N/A	6 and/or 9	
11	2006.33.163	Rim	1	N/A	N/A	N/A	N/A	Straight	6.90cm	Fire-polished	None	None	N/A		Could also be Stemware
12	2006.33.201	Base/Body	1	Tapered	Flat	6.18cm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	No foot
13	2006.33.201	Base/Foot	1	N/A	Flat	8.26cm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19, 37, 46 and/or 48	Mug or Cup? Footed Mug or Tankard?
14	2006.33.201	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Molding	Ribs	Body	17,20,25,36 and/or 51	Could also be Stemware
15	2006.33.202	Rim/Body	2 (no mend)	Cylindrical or Barrel	N/A	N/A	N/A	Straight	6.48cm	Fire-polished	Applied Thread of Glass	Horizontal lines	Starts .24in below rim	22,37,48; probably not 47	Mug or Cup?
16	2006.33.202	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Molding	Panels	Body		Could also be Stemware
17	2006.33.203	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Molding	Ribs	Body	14,20,25,36 and/or 38	Could also be Stemware
18	2006.33.203	Body	1	Barrel?	N/A	N/A	N/A	N/A	N/A	N/A	Cutting	Flutes	Body	41 and/or 43	Could also be Stemware
19	2006.33.204	Base/Foot	1	N/A	Flat	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13,37,46 and/or 48	Mug or Cup? Footed Mug or Tankard?
20	2006.33.206	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Molding	Ribs	Body	14, 17, 25,36 and/or 38	Could also be Stemware
21	2006.33.207	Base	1	N/A	N/A	N/A	Ground Pontil	N/A	N/A	N/A	None	None	N/A	12 and/or 39	
22	2006.33.208	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Applied Thread of Glass	Horizontal lines	Body	15,37, 47 and/or 48	Mug or Cup?
23	2006.33.209	Rim	1	N/A	N/A	N/A	N/A	N/A	N/A	Fire-polished	None	None	N/A		Could also be Stemware
24	2006.33.209	Rim	1	Cylindrical	N/A	N/A	N/A	Straight	N/A	Fire-polished	N/A	None	N/A		Could also be Stemware
25	2006.33.213	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Molding	Ribs	Body	14, 17,20, 36 and/or 38	Could also be Stemware
26	2006.33.215	Body	3 (no mend)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Molding	Panels	Body		May be part of a Decanter
27	2006.33.216	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Molding	Ribs	Body	25, 28, 29 and/or 33	
28	2006.33.217	Rim/Body	4 (no mends)	Cylindrical	N/A	N/A	N/A	Straight	N/A	Fire-polished	Etching & Molding	Vesica, lines, dots, scrolls, flutes	Rim & Body	25, 27,29 and/or 33	
29	2006.33.217	Rim	1	N/A	N/A	N/A	N/A	Straight to slightly flared	9.28cm	Fire-polished	Etching	Scrolls, lines, dots	Sub-rim & Body	35, not 28	No flutes; Could also be Stemware
30	2006.33.218	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Applied Thread of Glass	Horizontal lines	Body	32, 47 and/or 48	Mug or Cup?

Vessel #	Provenience	Vessel Part(s)	# of Artifacts in Lot	Body Shape	Basal Shape	Base Diameter	Basal Treatment	Rim Shape	Rim Diameter	Rim Treatment	Decoration Method	Design/Detail	Decoration Location	Possible Associations	Observations
31	2006.33.218	Rim/Body	2 (no mend)	N/A	N/A	N/A	N/A	Slightly Flared	N/A	Fire-polished	Molding	Ribs	Body		Could also be Stemware; surface-frosted?
32	2006.33.219	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Applied Thread of Glass	Horizontal lines	Body	30, 47 and/or 48	Mug or Cup?
33	2006.33.219	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Molding	Ribs	Body	27, 28,29 and/or 34	Could also be Stemware
34	2006.33.220	Body	1	Cylindrical	N/A	N/A	N/A	N/A	N/A	N/A	Molding	Ribs	Body	27,28, 29 and/or 33	Could also be Stemware
35	2006.33.221	Rim/Body	1	Cylindrical	N/A	N/A	N/A	Straight	8.55cm/	Fire-polished	Etching	Vesica, scrolls, lines, dots	Sub-rim & Body	29 not 28	Could also be Stemware
36	2006.33.225	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Molding	Ribs	Body	14, 17, 20 and/or 38	Could also be Stemware
37	2006.33.225	Body/Handle	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Applied Thread of Glass	Horizontal lines	Body	15,22, 46 and/or 47	Mug or Cup? Handle frag. bonded to body
38	2006.33.226	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Molding	Ribs	Body	14, 17, 20 and/or 36	Could also be Stemware
39	2006.33.226	Base	2 (no mend)	Flared	Slightly concave	5.11cm	Finished Pontil Mark	N/A	N/A	N/A	None	None	N/A	12 and/or 21	No foot
40	2006.33.229	Body	1	Cylindrical	N/A	N/A	N/A	N/A	N/A	N/A	Applied Thread of Glass	Horizontal lines	Body	15 and/or 22	Mug or Cup?
41	2006.33.229	Body	1	Barrel?	N/A	N/A	N/A	N/A	N/A	N/A	Cutting	Flutes	Body	18	Could also be Stemware
42	2006.33.230	Body	1	Cylindrical	N/A	N/A	N/A	N/A	N/A	N/A	Etching & Molding	Lines, dots & flutes	Body		Could also be Stemware
43	2006.33.227	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Cutting	flutes or facets	Body	18 and/or 40	Could also be Stemware
44	2006.33.167	Base/Foot	1	N/A	Flat	7.51cm	Finished Pontil Mark	N/A	N/A	N/A	N/A	N/A	N/A		
45	2006.33.164	Body	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Molding	Ribs	Body		Could also be Stemware; surface-frosted?
46	2006.33.207	Base/Foot	1	N/A	Flat	N/A	Finished Pontil Mark	N/A	N/A	N/A	N/A	N/A	N/A	13, 19, 37 and/or 47	
47	2006.33.216	Body	1	Barrel?	N/A	N/A	N/A	N/A	N/A	N/A	Applied Thread of Glass	Horizontal lines	Body	22, 30, 32 and/or 37	Mug or Cup?
48	2006.33.216	Base/Foot	1	N/A	Flat	N/A	Finished Pontil Mark	N/A	N/A	N/A	N/A	N/A	N/A	13, 19, 37;probably not47	Mug or Cup?

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Table G-22. Glass inset analysis from the Roosevelt Inlet Shipwreck.

Item #	Provenience Number	Color	Wt. Grams	Length MM	Width MM	Thickness MM	Form	Motif	Notes
1	2006.33.151	clear	0.50	10.06	n/a	2.52	Round	Floral	
2	2006.33.153	purple	0.80	13.96	11.50	2.81	Oval	Crosshatched	
3	2006.33.153	blue	0.50	9.84	n/a	2.64	Round	Floral	
4	2006.33.154	green	0.90	13.60	11.28	2.91	Oval	Crosshatched	
5	2006.33.154	clear	0.70	13.78	11.36	2.42	Oval	Geometric	
6	2006.33.154	clear	0.80	13.72	11.38	2.81	Oval	Geometric	
7	2006.33.154	clear	0.50	9.77	n/a	2.93	Round	Geometric	
8	2006.33.154	clear	0.60	9.64	n/a	4.03	Round	Geometric	
9	2006.33.154	clear	0.50	13.39	11.04	2.35	Oval	Woven	
10	2006.33.154	clear	0.50	12.25	9.96	2.22	Oval	Geometric	
11	2006.33.155	clear	0.70	13.82	11.13	2.25	Oval	Herringbone	
12	2006.33.155	clear	0.70	12.68	10.42	3.26	Oval	Male Profile	
13	2006.33.157	clear	0.50	9.83	n/a	2.87	Round	Female Profile	
14	2006.33.157	clear	0.50	9.81	n/a	2.77	Round	Floral	
15	2006.33.158	clear	0.70	14.01	11.50	2.58	Oval	Geometric	
16	2006.33.158	clear	0.70	10.58	n/a	3.67	Round	Geometric	
17	2006.33.161	clear	0.60	12.80	9.90	3.07	Oval	Grooves	
18	2006.33.162	clear	0.70	13.46	11.26	3.17	Oval	Female Profile	
19	2006.33.162	clear	0.90	14.32	11.73	3.47	Oval	Geometric	
20	2006.33.162	clear	0.30	8.40	n/a	2.54	Round	Floral	
21	2006.33.162	clear	0.60	10.56	n/a	3.58	Round	Geometric	
22	2006.33.162	clear	0.60	10.37	n/a	3.57	Round	Floral	
23	2006.33.162	blue	0.40	10.19	n/a	2.37	Round	Plain	
24	2006.33.163	blue	0.80	13.07	10.24	3.47	Oval	Grooves	
25	2006.33.166	purple	0.30	5.93	6.70	n/a	Barrel	Faceted Bead	Octahedral faceted
26	2006.33.166	clear	0.80	13.34	11.20	2.85	Oval	Geometric	
27	2006.33.197	clear	0.80	13.68	11.20	3.04	Oval	Geometric	beaded
28	2006.33.197	clear	0.90	13.86	11.26	3.18	Oval	Geometric	beaded
29	2006.33.215	clear	0.90	13.52	11.43	3.31	Oval	Geometric	
30	2006.33.217	clear	0.50	10.09	n/a	2.78	Round	Geometric	with grooves too
31	2006.33.218	clear	0.50	9.92	n/a	2.70	Round	Geometric	linear pattern
32	2006.33.219	green	0.80	13.18	10.28	3.37	Oval	Grooves	
33	2006.33.219	clear	0.60	10.50	n/a	2.61	Round	Geometric	chevrons

Item #	Provenience Number	Color	Wt. Grams	Length MM	Width MM	Thickness MM	Form	Motif	Notes
34	2006.33.219	clear	0.60	10.77	n/a	2.83	Round	Geometric	star in center
35	2006.33.219	clear	0.40	10.58	n/a	2.42	Round	Geometric	chipped; dot pattern
36	2006.33.222	clear	0.60	10.61	n/a	2.72	Round	Geometric	fish scales
37	2006.33.223	clear	0.50	11.91	9.88	2.78	Oval	Geometric	nested ovals
38	2006.33.230	clear	0.50	9.80	n/a	2.72	Round	Geometric	beaded circles

Table G-23. Glass gemstone analysis from the Roosevelt Inlet Shipwreck.

Item #	Provenience Number	Color	Wt. Grams	Width MM	Height MM	Height Inches
1	2006.33.141	clear	0.5	8.11	4.87	0.1915
2	2006.33.151	clear	1.2	11.39	5.97	0.24
3	2006.33.153	clear	1.5	13.08	6.15	0.242
4	2006.33.153	clear	0.8	10.62	5.16	0.203
5	2006.33.153	blue	0.2	6.08	3.22	0.127
6	2006.33.154	peach	1.3	10.40	5.53	0.22
7	2006.33.154	clear	0.8	10.60	5.31	0.21
8	2006.33.154	clear	1.1	11.30	5.97	0.235
9	2006.33.154	clear	1.7	12.80	6.63	0.26
10	2006.33.154	clear	0.6	9.65	4.73	0.186
11	2006.33.154	clear	0.7	9.61	5.07	0.199
12	2006.33.154	clear	1	11.10	5.63	0.22
13	2006.33.155	clear	0.7	8.89	5.52	0.217
14	2006.33.155	clear	0.9	10.95	5.4	0.2125
15	2006.33.155	clear	0.9	10.02	5.85	0.23
16	2006.33.155	clear	0.9	10.41	5.36	0.211
17	2006.33.155	red	1.3	12.79	5.54	0.218
18	2006.33.155	blue	1.4	12.74	5.85	0.23
19	2006.33.159	red	1.5	13.12	5.95	0.23
20	2006.33.159	clear	0.9	10.62	5.4	0.21
21	2006.33.159	clear	0.9	10.48	5.43	0.21
22	2006.33.159	clear	0.9	9.75	6.07	0.24
23	2006.33.159	clear	0.8	10.49	5.3	0.21
24	2006.33.162	clear	1.1	11.48	5.95	0.234
25	2006.33.162	clear	0.8	10.54	5.28	0.208
26	2006.33.162	clear	0.8	10.23	5.54	0.218
27	2006.33.162	blue	1.6	12.82	6.06	0.2385
28	2006.33.163	blue	1.3	12.53	5.74	0.226
29	2006.33.163	clear	1.1	11.18	5.73	0.225
30	2006.33.164	clear	1.2	11.50	6.04	0.237
31	2006.33.164	clear	0.8	10.07	5.31	0.209
32	2006.33.164	purple	0.9	11.54	5	0.197
33	2006.33.165	clear	1.5	12.83	6.09	0.239
34	2006.33.165	red	1.6	13.01	6.33	0.249
35	2006.33.168	clear	1.5	12.71	6.35	0.25
36	2006.33.169	pink	1.5	12.85	5.95	0.234
37	2006.33.172	clear	0.9	9.95	6.13	0.24
38	2006.33.175	clear	0.7	9.98	5.24	0.21
39	2006.33.176	clear	0.8	9.31	5.64	0.22
40	2006.33.176	clear	1	10.96	5.84	0.23
41	2006.33.176	clear	1	10.57	5.94	0.23
42	2006.33.176	clear	1.1	11.28	5.9	0.23
43	2006.33.176	clear	1.7	12.73	6.66	0.26
44	2006.33.176	clear	1.1	10.87	5.93	0.23
45	2006.33.176	clear	1.1	11.19	5.8	0.23
46	2006.33.176	clear	0.9	10.50	5.6	0.22
47	2006.33.176	clear	1.1	11.43	5.81	0.23

Item #	Provenience Number	Color	Wt. Grams	Width MM	Height MM	Height Inches
48	2006.33.176	clear	0.5	8.06	5.01	0.197
49	2006.33.176	clear	0.7	9.78	5.1	0.2
50	2006.33.176	clear	0.5	8.51	4.8	0.19
51	2006.33.176	clear	0.9	10.34	5.98	0.24
52	2006.33.176	clear	0.8	10.11	5.02	0.197
53	2006.33.177	clear	1	10.90	5.65	0.22
54	2006.33.177	clear	0.9	11.32	5.64	0.22
55	2006.33.178	clear	1.1	11.14	5.91	0.23
56	2006.33.179	clear	0.5	8.10	4.95	0.1945
57	2006.33.179	clear	0.6	9.81	4.78	0.188
58	2006.33.180	clear	1.1	11.46	5.66	0.223
59	2006.33.180	clear	1	11.45	5.89	0.232
60	2006.33.180	clear	1.1	11.40	5.97	0.235
61	2006.33.180	clear	1.1	11.25	5.91	0.233
62	2006.33.180	clear	0.7	10.35	5.05	0.1985
63	2006.33.180	clear	0.9	10.76	5.36	0.211
64	2006.33.180	clear	1	10.76	5.85	0.23
65	2006.33.180	clear	0.9	10.10	6.04	0.238
66	2006.33.180	clear	0.4	7.98	4.45	0.1755
67	2006.33.181	clear	1.1	11.40	5.85	0.23
68	2006.33.181	clear	0.9	10.00	5.28	0.208
69	2006.33.181	clear	0.8	10.10	5.35	0.21
70	2006.33.183	clear	0.7	10.70	4.42	0.174
71	2006.33.188	clear	1.1	11.64	5.94	0.2335
72	2006.33.188	clear	1	10.72	5.74	0.226
73	2006.33.189	clear	1.1	11.23	5.7	0.22
74	2006.33.189	clear	1	10.87	5.57	0.22
75	2006.33.189	clear	1.2	11.62	6.28	0.25
76	2006.33.189	clear	1.7	12.68	6.51	0.26
77	2006.33.189	clear	1.1	11.27	5.96	0.23
78	2006.33.189	clear	1.1	11.16	5.89	0.23
79	2006.33.189	clear	1.1	10.74	5.85	0.23
80	2006.33.189	clear	0.7	9.09	5.37	0.21
81	2006.33.189	clear	0.5	8.27	4.81	0.19
82	2006.33.189	clear	0.4	7.82	4.93	0.19
83	2006.33.189	clear	0.5	8.24	5.13	0.2
84	2006.33.189	clear	0.5	8.08	5.28	0.21
85	2006.33.191	clear	1.5	13.07	6.4	0.25
86	2006.33.191	clear	0.9	10.35	5.66	0.22
87	2006.33.191	clear	0.7	9.68	4.97	0.19
88	2006.33.192	clear	0.9	10.45	5.48	0.22
89	2006.33.192	clear	1.1	11.27	5.83	0.23
90	2006.33.192	clear	1.1	11.63	6.06	0.24
91	2006.33.192	clear	1.1	11.13	5.91	0.23
92	2006.33.192	clear	0.5	7.98	4.87	0.19
93	2006.33.192	clear	0.9	10.09	5.5	0.22
94	2006.33.192	clear	1	10.48	6.06	0.24

Item #	Provenience Number	Color	Wt. Grams	Width MM	Height MM	Height Inches
95	2006.33.192	clear	0.8	10.15	5.6	0.22
96	2006.33.196	pink	1.6	13.10	6.28	0.247
97	2006.33.196	clear	1.1	11.47	5.71	0.225
98	2006.33.197	blue	1.5	12.30	5.92	0.233
99	2006.33.197	clear	0.5	7.67	4.84	0.1905
100	2006.33.198	clear	1	9.55	4.28	0.168
101	2006.33.185	green	2.3	14.00	7.42	0.29
102	2006.33.185	blue	0.8	9.90	5.77	0.227
103	2006.33.185	clear	1.6	13.20	6.61	0.26
104	2006.33.185	clear	1.4	13.00	6.25	0.246
105	2006.33.185	clear	1.5	13.29	6.1	0.24
106	2006.33.185	clear	1.3	12.09	6.36	0.25
107	2006.33.185	clear	1.3	11.92	6.37	0.25
108	2006.22.185	clear	1.2	11.70	6.12	0.24
109	2006.33.185	clear	1.2	11.70	6.1	0.24
110	2006.33.185	clear	1.1	11.46	6.25	0.246
111	2006.33.185	clear	1.4	11.90	6.8	0.269
112	2006.33.185	clear	1.1	10.90	6	0.236
113	2006.33.185	clear	1	11.34	5.56	0.219
114	2006.33.185	clear	1	11.12	5.57	0.219
115	2006.33.185	clear	1.1	10.58	6.55	0.258
116	2006.33.185	clear	1	11.00	5.65	0.223
117	2006.33.185	clear	0.8	10.85	5.35	0.21
118	2006.33.185	clear	1	10.62	5.7	0.224
119	2006.33.185	clear	0.9	10.63	5.58	0.22
120	2006.33.185	clear	0.9	10.53	5.69	0.224
121	2006.33.185	clear	0.8	10.30	5.05	0.198
122	2006.33.185	clear	0.8	10.07	5.7	0.224
123	2006.33.185	clear	0.9	10.38	5.4	0.213
124	2006.33.185	clear	0.8	10.28	5.5	0.217
125	2006.33.185	clear	0.8	10.57	5.07	0.2
126	2006.33.185	clear	0.8	10.03	5.58	0.22
127	2006.33.185	clear	0.7	9.77	4.97	0.195
128	2006.33.185	clear	0.7	9.75	5	0.196
129	2006.33.185	clear	0.7	9.72	4.91	0.193
130	2006.33.185	clear	0.7	9.70	5.69	0.224
131	2006.33.185	clear	0.7	9.53	5.1	0.2
132	2006.33.185	clear	0.6	8.65	5.04	0.198
133	2006.33.185	clear	0.5	8.29	5.31	0.209
134	2006.33.185	clear	0.5	8.22	5.3	0.209
135	2006.33.185	clear	0.5	8.40	4.68	0.185
136	2006.33.185	clear	0.5	8.43	5.18	0.204

Table G-24. Glass lenses recovered from the Roosevelt Inlet Shipwreck.

Provenience	Form	Notes	Count	Weight (g)	Thickness (mm)	Diameter (mm)
2006.33.226	?/Bi-convex	Lens is partial - not able to measure diameter of lens 1	1	0.9	2.19	
2006.33.226	Circle/Bi-convex		1	14.5	5.56	57.44
2006.33.226	Circle/Bi-convex		1	4	2.35	35.52
2006.33.226	Circle/Bi-convex	Lens #1 is chipped	1	2	1.95	37.43
2006.33.230	Circle/Bi-convex	Lens 1 - approximately 40% survives - diameter measurement not possible	1	1	1.42	
2006.33.230	Circle/Bi-convex	Item number 2 is a fragment	1	0.8	2.33	
2006.33.230	Circle/Bi-convex	lens is partial; could not measure diameter	1	1.2	1.85	
2006.33.225	Circle/Convex	Lens is partial - cannot measure diameter	1	1	2.14	
2006.33.229	Circle/Plano-Convex	lens is broken; not possible to measure diameter	1	10	5.6	
2006.33.203	Circular/Bi-convex	Lens 2 partial - no diameter measurement possible	1	0.6	1.72	
2006.33.207	Circular/Bi-convex	Lens 1 fragmentary - cannot measure diameter	1	1.4	2.2	
2006.33.204	Circular/Bi-convex	Lens is partial	1	19.3	6.2	61.96
2006.33.204	Circular/Bi-convex	3 sherds mend	3	4.3	2.25	37.24
2006.33.215	Circular/Bi-convex		1	2.2	1.62	35.51
2006.33.210	Circular/Bi-convex	lens is partial; no diameter measurement possible	1	1.1	1.7	
2006.33.212	Circular/Bi-convex		1	2.4	1.65	34.02
2006.33.219	Circular/Bi-convex	Lens fragments 2 and 3 mend together	1	2	2.32	34.38
2006.33.218	Circular/Bi-convex	Lens fragments 2 and 3 mend together	1	2.1	2.34	35.09
2006.33.220	Circular/Convex		1	1.9	1.44	34.55
2006.33.220	Circular/Convex	lens is partial; no diameter measurement possible	1	1.2	2.5	
2006.33.217	Circular/Flat		1	2.2	1.44	36.49
2006.33.128	Circular/Plano-Convex	Lot 1 is 2 sherds; broken. Measurements not possible	2	2.5		
2006.33.128	Circular/Bi-convex	Lenses 3 and 4 are broken - diameter measurements not possible	1	1.1	1.6	
2006.33.134	Circular/Bi-convex		1	2.1	1.7	35.42
2006.33.158	Circular/Bi-convex		1	2.5	1.72	34.91
2006.33.148	Circular/Bi-convex	Lenses 3 and 4 are broken - diameter measurements not possible	1	0.5	1.28	
2006.33.155	Circular/Bi-convex	Lenses 2 and 3 incomplete - diameter measurement not possible	1	0.7	1.74	
2006.33.155	Circular/Bi-convex	Lenses 2 and 3 incomplete - diameter measurement not possible	1	1.6	1.41	
2006.33.162	Circular/Bi-convex		1	1.6	1.7	34.38

Provenience	Form	Notes	Count	Weight (g)	Thickness (mm)	Diameter (mm)
2006.33.162	Circular/Bi-convex	Lens 1 partial - diameter measurement not possible	1	1.7	2.39	
2006.33.161	Circular/Bi-convex	Lens is chipped	1	2	1.56	30.92
2006.33.182	Circular/Bi-convex	diameter not possible; lens broken	1	2.3	2.1	
2006.33.180	Circular/Bi-convex	Total lens fragments - 3; Item 2 is a mend of two fragments	1	3	1.83	35.28
2006.33.185	Circular/Bi-convex	Total lens fragments - 3; Item 2 is a mend of two fragments	2	3.7	2.25	34.54
2006.33.185	Circular/Bi-convex	Lot 1 2 sherds that mend	2	4.3	2.57	35.29
2006.33.193	Round/Bi-convex		1	14.2	4.94	45.27
2006.33.193	Round/Concave/Convex	Lens 1 is approximately 1/2 of the lens	1	1.6	7.23	32.62
2006.33.193	Unknown	Lens 1 very fragmented	1	0.4	1.7	

Appendix H
Pewter Toys Analysis
(Craig Lukezic)

Pewter Toys from the Severn

Craig Lukezic

Illustrated by Sharon Murray

Delaware Division of Historical and Cultural Affairs

Of all the glittering glass and brass items that came from the shipwreck of the Severn, none have captured the imagination as have the dark, dull grey toys made of pewter and ley metal. These small items were prized by the legions of treasure hunters that walked the beaches, armed with metal detectors, through out the cold and windy winter of 2004.

As with the other artifacts that were spewed on the beach, the toys were mangled and chopped up by the dredge. While most of the specimens were recovered from the beach and presented to the project staff by the enthusiastic beach comers, fragments of the toy soldiers and miniature pewter ware were excavated in archaeological context from the Severn. In general, the pewter toys can be divided into two types. First, the toy soldiers and ships were cast into a flat two-dimensional form that is usually less than an inch and a half in size. They are crafted in the German Zinnfiguren (tin figures) or Zinnsoldaten (tin soldiers) style of the late 18th-century. Next is the pewter ware that comes in the form of miniature plates, tankards, basins, bowls and toy watches. These were cast in a full three-dimensional form, and could have been made in England, Holland or Germany.

Description of Zinnsoldaten

After viewing the electronic images of the tin soldiers, Dr. Helmut Schwarz of the Spielzeugmuseum in Nuremberg, suggested they originated in Nuremberg from around 1780. (Schwarz, 2005) The term *Zinnsoldaten* is German for the flat tin or pewter soldier, also known as “*Nuremberg Flats*”.

The unit of soldiers consisted of an officer with a spontoon, a fifer, a drummer, a standard bearer, and a rank of nine kneeling and two standing figures giving fire (Figures). A base fragment with the stylized depiction of horses’ lower legs suggests a mounted officer led the contingent. A grenadier company flanked the party, as fragments of three heads with mitre caps have been recovered.

From the crown of their tricorne hats, to the toe of the boots, the figures measure 54 millimeters in height, and 1 millimeter in width. Within the deep crevices, we can see traces of red paint on the soldiers and the ships. Traces of white paint are visible on the small clothes, and one can observe black paint on the tricorne and cartridge box.

Contrary to the custom of the time, the musician’s red coat was the same color as the rank and file (Figures).

A navy accompanied the soldiers. Four ships appeared, all engraved with the same perspective, but not from the same mold. Although the perspective and sculpting appear to be identical for all the ships, two of them were slightly smaller than the others. All four

ships show a three quarter view of the stern with the sails furled with the exception of the fore-main sail. They appear to be transporting soldiers, as one can see the rear view of tricorne hats and queues of hair, along with muskets. It is possible certain hatch marks are depicting boarding nets over the forecastle. Traces of red paint survive on the hull. A similar one was recovered from a Dutch cesspit and identified by Michael Bartels, who dates the figure between 1720 and 1760. (Bartels, 1999) In general, the stern castle is higher than a mid 18th-century ship, suggesting the inspiration for these vessels came from artwork dating to the 17th-century. For many of these figures, it appears the artists used an older woodcut as the model of their sculpting.

Although we refer to them as tin soldiers, they seem to be made of a base alloy of tin and lead, and are fairly brittle for a toy. Even today, most military miniatures are cast with lead to keep the flexibility of the figure, and tin or antimony to hold the detail of the sculptor. Using a remote sensing device, Richard Lundin of Carothers Environmental tested a military miniature for the composition of the alloy with Portable X-Ray Fluorescence (pXRF). The casting was composed of 55% tin, 42% lead, 1.2 % iron, .35 % copper, and .19 % of zinc.

Historic Context of Zinnfiguren

During the Middle Ages and through the Renaissance, Nuremburg in Bavaria became a center for skilled workshops of craftsmen and artisans. They were renowned for their medical instruments and time pieces. During the Medieval period, some artisans cast pilgrim badges, which were souvenirs that a pilgrim sewed into his or her hat or clothing, symbolizing the quest. These were flat images that were cast in lead and tin. It is easy to imagine how these objects could be adopted by children as playthings. (Ortmann, 1974)

In 1578, the Council of Nuremburg authorized the making of toy figures to as a free art, unregulated by the guild rules. From this time, pewterers and jewelers could make toys on the side (Ortmann, 1974). The Nuremberg artisans went on to make toy soldiers out of silver and tin for the kings of France in the 17th century. The famous military engineer, Sebastien Le Piestre, Seigneur de Vauban, supervised the production of movable toy soldiers for Louis XIV. (Fraser, 1966) These figures were not only used as playthings for children: William of Orange manipulated formations of tin soldiers to plan his revolutionary reforms of the Dutch army. (Ortmann, 1974)

By the 18th century, other people than Princes began to acquire toy soldiers. These early examples from the Nuremberg pewterers seem to be primitive, with no feet. In the 1760s, the Hilpert family of pewterers relocated to Nuremburg. Johann Gottfried Hilpert started casting figures of animals, skaters, hunting scenes and those of the theatre. He reproduced a famous portrait of Frederic the Great in pewter which made his reputation. When he produced toy soldiers, the military enthusiasm of the time inspired a

demand for them. Very quickly, the Hilperts were producing tin soldiers for the mass market. The work of the Hilperts is admired by collectors today for its realism and beauty. Rivals of Hilpert quickly appeared in Nuremberg, then in Furth, and on to Leipzig and Berlin. They were being produced all over Europe by 1800. (Kurtz and Ehrlich, 1987) A catalog of Hilpert's figures from 1805 still survives, and it documents the figures were sent to Russia and Britain at this time. Some scenes of people with rococo style clothing were still being produced, which testifies to the durability of the slate molds. (Fraser, 1966) Zinnfiguren were marketed and distributed by a Verleger, who was an agent or middleman. They traveled with a catalog all over Europe and sent orders to America after the Revolution. (Apple, 2002)

After Hilpert, the German flats or Nuremberg flats dominated the toy soldier market for the next 100 years. Ernst Heinrichsen also combined marketing with his superior artistry. His business grew through the 1830s, and in 1848, Heinrichsen standardized the scale for zinnfiguren in Nuremberg to 3 centimeters, which last until the 20th century. (Kurtz and Ehrlich, 1987) The earlier figure of Hilpert and the other 18th century craftsmen stood at 54 millimeters tall. The competing artisans in the Berlin area adopted the height of 4 centimeters, which was known as the "Hanover scale." The engravers created images from literature as well as history. There were scenes from Napoleon to Ancient Rome, and even Uncle Toms Cabin. (Ortmann, 1974)

Method of Manufacture

In order to create a figure 54 millimeters tall and 1 millimeter wide, the artisans carved slate molds. The faces of two pieces were polished, and then pegged together. Then, the artist engraved a negative image from a tracing paper original. He pinned the halves together, and held it over flame to create soot on the exact position for the new half. Once the corresponding image was carved, a sprue channel was formed for the molten metal to flow in the casting process. Also, smaller grooves were cut in along certain points to allow the air to escape, thus, avoiding bubbles and other flaws when casting. Some molds survive today as the other surfaces were reused for later creations. (Ortmann, 1974)

In casting, one had to preheat the mold to insure a complete flow of metal throughout the mold. The metal could be an alloy of tin, lead, copper, or antimony. While lead was cheap, if the alloy contained too much of it the detail of the engraving could not be reproduced. The tin or the antimony could pick up the detail in the casting. However, if too much tin was in the alloy, the casting would become too brittle for many children.

Given the low melting point of the alloy, and the high cooling rate of a small object, a craftsman could produce at least one object per minute. Many hollow forms were cast using a two-part mold without a core by the slush cast method. Typically, slush casting was used by pewterers to cast handles and spouts that attached to hollow forms. As the molten metal was poured in, the alloy began to solidify as it contacted the cooler surface of the mold. The craftsman would rotate the mold around, and a layer of congealed pewter would take the shape of the object. Once cooled, the toy would be removed for

the molds and have a hollow interior. For this method to be successful, the alloy must have a high ratio of tin to lead. (Forsyth and Egan, 2005)

The figures were painted with a few brush strokes to suggest the clothing or face. Most of the time, the hands and armor were left in bare metal. In the Zinnfiguren recovered from the *Severn*, it appears the palette was limited to red, white and black.

Miniature Tableware Pewter Toys

Other pewter toys have been recovered from the vessel and the beach. Around twenty examples of miniature pewter serving and dining ware have surfaced. It is possible these toys were a component of a Baby Cabinet (doll house) or Nuremburg Kitchen set. Of the dining ware, the most common form is the charger or plate. With a wide flared rim, the entire diameter is 1.6 inches (41.6 mm). An intact miniature tankard and a separated hinge lid were recovered (figure). The handle and bowl fragment of a porringer, one of a tea or wine cup, and a fragment of a copper-alloy fork were recovered as well.

The food serving or presentation vessels include jug/ewer, pitcher forms and variations of bowls. Although there are several examples of vessels with the ewer/jug/pitcher form, the damaged or incomplete nature of the specimens leaves some doubt to the identification of the spout area. One ovoid example exhibits a 1.09 inch (27.7 mm) shoulder, wide in comparison to its apparent 1.5 inch (38mm) height (figure). A similar one exhibited a pear or tulip form. (Figure) Some of these serving vessels were fitted with hinged lids with a central knob or a thumb rest. Two bowls were stacked when they were crushed and distorted together. (figure) In general, there were no vessel forms observed that would be devoted solely to food preparations. One may expect that kitchen sets should have the griddle or cauldron vessels, but none of these have been identified to date. The closest form is the possible base to a basin or pan.

An interesting miniature is a bulbous two-handled urn, with drapery (figure). This appears to be a miniature of a pewter altar vase that was used in Central Europe, Holland, and Germany in 1780 (Hornsby, 1983). An intact footed bowl was found on the beach. Its anachronistic form dates back to the 15th century. (Forsyth, personal communication; see figure) One may be tempted to speculate that the standing bowl was a baptismal font which accompanied the vase in a miniature altar set.

Historical Context of Domestic Miniatures

Doll or Baby Cabinets were popular in Germany and Holland in the 17th and 18th centuries. At this time, they were less a child's play toy than a status object for the adult members of the family. (Frasier, 1966) Doll houses were from the "wunder kammer" or wonder cabinets fashion. It was popular for wealthy men during the Renaissance to display art objects, natural curiosities, and native crafts in cabinets to impress their visitors. Duke Albrecht V of Bavaria bought a doll cabinet for his daughter, but she was not allowed to play with it. Baby Cabinets were meant to display many fine and fragile

objects that were not suitable for children. For the upper class, doll houses were works of art that displayed a miniature work from the actual craftsman of a given trade. The painting on the wall was produced by a painter, and the doll clothing by a tailor, and the silversmith would craft the silverware. So, these were objects of a significant investment by the wealthy.

Three Dutch Baby Cabinets are on display at the Rijksmuseum in Amsterdam. Their construction was sponsored by the regent and merchant classes during the 17th-century. Today, they offer scholars a wealth of information regarding the interior decor, material culture, and its social context within an elite household. The cabinets are one of the few surviving examples of the household in totality, from the fancy dress of the Poltroon, to the wooden bucket of the maid (Pijzel-Dommisse, 1994).

Through much of the 18th century, the fashion of Baby Cabinets was popular in London for the upper classes. By the mid 1680's, London silversmiths began to create silver miniatures (Anon., 1941). In following the fashion, the pewter miniatures were mass produced for the middle classes by the late 18th century. Indeed, miniature kitchens, or Nuremburg Kitchens, were common playthings for girls from the 17th century through the 19th century. In 1639, a German Broadside advertised the doll house as a way to teach the daughter to "order" the house (Frasier, 1966).

Toy Watches

Several parts of toy pewter watches were recovered from the shipwreck and the beach. To date, no intact, undamaged specimens have survived. These appear to have been multi-component toys, with similar components as described in Forsyth and Egan (2005). The watch cases all have a general round and domed shape with a quadrilateral pendant loop attached to one edge. A round disk cast with the detail of a watch dial was mounted in the case. The dial exhibited the hours in evenly spaced Roman numerals around the face, with decorative foliage. On one fairly intact dial plate, are cast the letters of "LONDON." Attached with a ferrous pin were the hour and minute hands, cast as one piece, facing 180 degrees from each other. (figures) A groove along the rim can be seen indicating a glass watch crystal was attached. From the distorted specimens, one can estimate the total diameter of the watch about 1.4 inches (35mm) across.

Historic Context of Toy Watches

Toy watches have been made and worn from the late 17th century to today. From a sizable collection of toys gathered from the mudflats of the Thames, Forsyth and Egan (2005) have developed a typology and context of toy watches. By the early 18th-century, a number of London pewterers made toy watches. Unlike other toys, most of the watches bore the initials of their maker. Hence, the documentary record is available. From 1703 through 1715, two toy watchmakers, William Hux and Francis Beasley, appear in the records of the Worshipful Company of Pewterers. They were accused of violating the minimum standards of the required pewter alloy. Evidently, different components of the watch were cast from substandard ley and fine pewter alloys. (Forsyth

and Egan, 2005) Some of the watches from the Thames had a winder, winder key, and a ratchet ring mounted in the casing.

Most of the literature on pewter toys has been written for the antique collector market and focus on Germany's contributions. However, new research from Great Britain demonstrates a toy industry existed in England throughout the 18th-century. By the early 18th-century, Zinnfiguren style toys have appeared in England. Recently, Hazel Forsyth and Geoff Egan of the Museum of London published *Toys, Trifles & Trinkets; Base Metal Miniatures from London 1200 to 1800*. Their research defines the problems and potential for scholarly research in this area. They address the dense question of the definition of pewter. Centuries ago, the concept of pewter was vague and imprecise. In England, pewter was classed either as fine metal, an alloy of tin and copper, which could appear silvery when polished, or ley metal. Most toys were made from ley metal, the cheaper alloy of tin and lead. As in Germany, most toy production was unregulated and produced quickly for fairs. The lack of a hallmark on an item obstructs the researcher from identifying the artist or the shop that crafted a given toy.

In England, toy production could have been a secondary seasonal activity for a craftsman. For a pewter tradesman, when business was slow for seasonal or economic reasons, the craftsman could fall back on toy making for a secondary income. His production would be sold at seasonal fairs, with little regulation or retail overhead. By the end of the 18th-century, the growing tinsplate industry in Britain began to displace the pewter craftsmen. Many of them shifted to producing miniature toys. This pattern may have become more severe during the Napoleonic Wars. It can be speculated the disruption in all trades resulted in the growth of the numbers of toy-producing craftsmen during this period. (Brown, 1996) It has been suggested that pewterers were losing market share to the expansion of ceramics and porcelain through the 19th century. Some went into a toy manufacturing niche. Indeed, some of them produced both, toy soldiers and doll house miniatures.

Retail Trade in America

Many, if not most manufactured toys in the American British Colonies came in English ships, but were not necessarily made in Britain. German toy production dominated the American market until 1840 or 1850. (Fritsch and Bachmann, 1965) In newspaper ads, German toys were referred to as "Numberger ware" (Apple, 2002). Details of how they were sold can be gleaned from various sources. In 1765, Samuel Edwards, a silversmith and merchant in Boston, died. The detailed inventory of his shop and warehouse provides a glimpse of how these toys were displayed in his shop and the pricing structure. In this case, the miniature dishes, pewter items, and lead watches were grouped with other toys to be sold to children. (The items in italic and bold have counterparts that were found in the Severn) It appears the pewter and ley metal toys were within the price range of toys crafted from wood, tin, paper and glass.

In the Press – in the Room

[Item]	[Price and amount present]	[shillings/pence/pound]
7 Doz. Babes (small Dolls)	@1/Doz.	0. 7. 0
3 Do. Trunks	@1/Doz	0. 3. 0
1 Doz. Swords (wooden)	1/doz.	0. 12. 0
22[illeg.] Doz. Paper back pictures	0/8d doz.	0. 15. 1
5 Doz. Looking glasses	0/8 doz.	0. 3. 4
7Doz&2 small pictures	0/4 doz.2/5	0. 3. 4
5 Doz. Trumpetts Tin & wood	1/0 doz.	0. 5. 0
21 Doz: Screw boxes Sorted	10d doz.	0 17. 6
1 Doz. Boxes Nine pins	8d box	0. 8. 0
44 Single boxes of different Toys	2d box	0 17 6
39 Single Glass Watches	3d piece	0 9. 9
52 Doz Lead Toys	4d. Doz	0 17. 4
7 Doz Box wood combs	4/doz.	1. 8. 0
45 Bags of Hair buttons	4/bagg	9. 0. 0
16 Gross of Black Horn Buttons G&Sm.	3/gross	2. 8. 0
2 Doz Pocket Glasses	6/doz	0 12. 0
7 Doz Wood Toys viz. Birds and Babes	.1/doz	0. 7. 0
2 Doz Boxes Sorted	3/dz	0. 6. 0
3&1/2 Doz Tops	2/dz	0. 7. 0
4 Gross&9 Doz Cotton & Thread Laces	6/gross	1. 8. 0
1&1/2 Doz silk Ditto	8d doz.	0 1. 0
[illeg.] Doz &Toys sorted in a great box	4d doz.	0 1. 6
3 Doz. Whistles	8d doz.	0. 2. 0
3 Doz. Tin ditto	8d doz.	0. 2. 0
10 Doz. Bird Calls	2d doz.	0. 1. 8
10 Doz. Lead Watches	6d doz.	0. 5. 0
3 Doz. Tin Toys	6d Doz.	0. 1. 6
6 Doz. Pewter Ditto	2d/dz	0. 12. 0
7 Doz Porringers & Dishes	2d/dz	0. 1. 2
22 Coaches &c	@8d.pr.	0. 14. 8

Similar markets were operating in Philadelphia and New York. There are several advertisements for them in the Pennsylvania Gazette that were published in the 1780's. They broadcasted the arrival of new cargos from Europe. One ad from Kuhn and Risberg announced they had many things for sale, including "Nuhrenburg toys in assorted cases." During the Revolutionary War, when the British occupied New York City in 1777, an ad appeared in the Royal Gazette. It proclaimed: "Christmas Presents for the young folks who have an affection for the Art Military, consisting of horse, foot, and dragoons. Cast in metal, in beautiful uniforms. 18s a dozen" (taken from Frasier, 1966)

Origin of Manufacture

The question of the origin of the pewter toys has yet to be answered. Were they made in the same workshop, or were they made in different ones in Britain, Holland, or Germany? Without a system of hallmarks, to research, the question becomes murky. Avenues for future research can use several observations. First, one might assume the watches were made in London, given the “London” cast into the dial plate. Using X-ray fluorescence on a wide sample of the artifacts, one can find if the alloy composition were similar and likely to be from the same workshop in London. If the alloys are dissimilar, then one must look to the stylistic clues. The soldiers appear to be inspired by Germanic images, with the Grenadier mitre caps, long hair queues, and a flag with an eagle and orb. Perhaps the fact that we have Germanic figures painted in British red indicates the intension of the craftsmen to export his wares to the British world. The presence of a standing bowl and high stern ships suggest that some models for the toys were anachronistic and out of date when the item was cast. The standing bowl was a common form in the late medieval period. (Forsyth, personal communication) and the ship may be modeled from an engraving that was published up to a century prior to the casting of the object.

Conclusion

In general, from the Middle Ages on, toy knights and soldiers were made for boys, while miniature kitchen ware and table ware were targeted for girls. By the 18th century, wooden toys and paper soldiers were marketed for children poorer families; pewter was for the middle class, and silver for the wealthy. (Fritzsich and Bachmann, 1965). The mass production of these pewter toys testifies to the rise of the economic power of the middle class in Britain. The purchasing power of the middle class began to rise and diversify in London during the 1750’s, and spread to the outlying provinces by the 1780’s (Brown, 1996).

The presence of the pewter toys on the *Severn* adds to the overall picture of the nature of trans-Atlantic trade between Great Britain and her colonies. The simple fact that the toys were made of pewter or base metal and not silver testifies this cargo was intended for middle to lower income families.

Although they are obscure in the United States, Zinnfiguren are alive and well in Germany today. They have been traditionally used in dioramas at museums around the country. Many are still handcrafted in workshops in Nuremberg and Berlin. In stark contrast, Doll House miniatures have thrived in the United States and represent a well known hobby.

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Appendix I

Analysis of Stone Mortars and Pestles

Recovered from the Roosevelt Inlet Shipwreck Site

**Polished Stone Materials
(Recovered from Beach and Site)**

Lewes Maritime Archaeological Project
Research Notes

Date MARCH 14, 2006

Subject: POLISHED STONE ARTIFACTS

KATE KENNEDY'S STUDY UTILIZED MAINLY POLISHED STONE ARTIFACTS
RECOVERED FROM THE BEACH. HOWEVER, THE COMPLETE PESTLE
FROM THE WRECK SITE PROPER WAS ALSO USED
(7S-D-91A)

CHF

Fithian Charles (DOS)

From: William Schenck [rockman@UDel.Edu]
Sent: Monday, December 12, 2005 1:55 PM
To: Griffith Daniel R (DOS); Fithian Charles (DOS)
Subject: Report on the Mortars and Pestles

Dan

Attached is Katie Kennedy's final report on the rock type and its mineralogy. I asked Katie to identify major sites where serpentine was mined in Europe. She found what I think would be a great starting point for you to start looking for the manufacturing of these mortars and pestles in Cornwall, England. The serpentines were mined there from the early 1700s.

Please let me know if you have any questions or if we can be of any further help on your work with these samples or any new or other stone samples that you encounter.

Dan, if you can provide me with your mailing address, I can mail you back the remaining sample and the thin section for your files. If you would rather have me archive the thin section in our database, just let me know and I will be glad to do that as well.

Best Regards for the Holidays.

Sandy

--*-*-*This note composed of 100% recyclable electrons*-*-*-*-*

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12/12/2005

Kathryne Kennedy

University of Delaware

Rock Identification of Roosevelt Inlet Shipwreck Mortars and Pestles

December 9, 2005

Abstract:

The Roosevelt Inlet Shipwreck discovered near Lewes, Delaware brought forth examples of an unknown rock type. The unknown rock came from mortars and pestles that were being transported on the ship from somewhere overseas to the American Colonies. The purpose of the exercise was to determine what type of rock was used to make the mortars and pestles, and from that determine some places in Europe from which the rock might have been mined. Mineral identification from X-ray diffraction and thin section analysis determined the rock to be a serpentine. The rock's source could be from a number of places in Europe, one of the most likely places being Cornwall, England.

Introduction:

The discovered shipwreck contains only some of the products that were transported to the colonies in the mid-1700s; many items were salvaged soon after the ship ran aground. The artifacts found range from dishes, pipes and glassware to mortars and pestles. Many of the objects from the ship have some form of identification on them allowing the archeologists to trace the origins of the object and potentially the origin of the ship. Some of the localities identified by the labels were: England, Germany, Netherlands, China, and South Africa.

The rock carved mortars and pestles did not have any kind of mark to signify where they might have been quarried and manufactured before being shipped. The mortars and pestles were all carved out of the same rock that appeared to be quite unique. By identifying the rock and its possible source, the source of the mortars and pestles might also be resolved.

Methods:

To determine a possible location from which the rock was mined the rock type needed to be determined. Two methods were used to analyze the hand samples. From one of the samples, 2004.38.2, a thin section was made for petrographic analysis. The thin section revealed the contents of the rock. Another portion of the sample was used for X-ray diffraction analysis (XRD) to further determine the mineral content of the rock.

Thin section analysis used a petrographic light microscope in which plane and polarized light are used to distinguish the different minerals within the rock. Different minerals have distinct properties when viewed through this type of light microscope. The collection of minerals within the rock will help determine the rock type and thus the possible locations in Europe.

XRD analysis gives a greater in-depth look at the minerals within the rock. A fine grained powder is made of the rock and then placed into an X-ray tube. The X-rays are beamed at the sample. The atomic structure of the minerals scatters the X-ray beams and the reflections are recorded. A computer program then reads the reflection data from the film inside the X-Ray machine and records the minerals present in a specific series of peaks based on its mineral properties on a diffractogram, shown as attached Figure 1. Using data stored in the computer from previous experiments, the peaks are compared to determine which minerals are present in the rock.

Results:

At a visit to the Marine Archeology Lab in Cape Henlopen State Park, many of the mortars and pestles were present for hand sample inspection. The different fragments, collected from the Roosevelt Inlet Shipwreck, were in a range of colors from light green to

dark gray. Most of the samples contained small circular knobs. The knobs are white to light gray on the less weathered samples and dark gray on the weathered samples. The circular clumps are a platy set of crystals in mostly the same orientation. Only in one case did a knob fizz with the addition of HCl. Other samples show marbie-like veins throughout. The samples are relatively soft; they are easily scratched with a knife, removing a waxy film. The luster is greasy or waxy. The mortars still show the signs from being worked on a lathe. The more weathered samples are more platy and rough compared to the less weathered pieces which are smooth. Looking through a binocular microscope, the surface shows small areas where the surface minerals have weathered out. The spaces are rounded, have a brown rim, and in some places the open spaces have been replaced with platy white crystals.

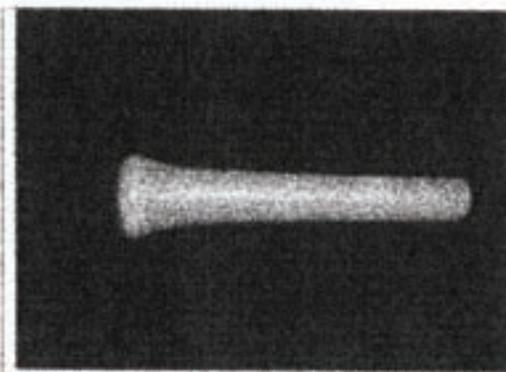


Fig 2. Pestle hand sample from shipwreck.



Fig 3. Mortar fragment from shipwreck.

The thin section revealed that the majority of the rock was composed of serpentine. Serpentine in thin section has a low birefringence and therefore appears dark gray to white under the cross-polar light. In plane light the sample is very light green with low relief. The minerals are platy and interlock each other. Some areas of the thin section contain brown edges around a group of interlocking minerals. These areas appear to be

the small open spaces on the surface of the mortars and pestles being replaced. Other noticeable features on the thin section are small rounded clumps of interlocking crystal growths. These are more noticeable in plane light; they appear gray on the green background. In polarized light the clumps of crystals become nearly indistinguishable from the serpentine.

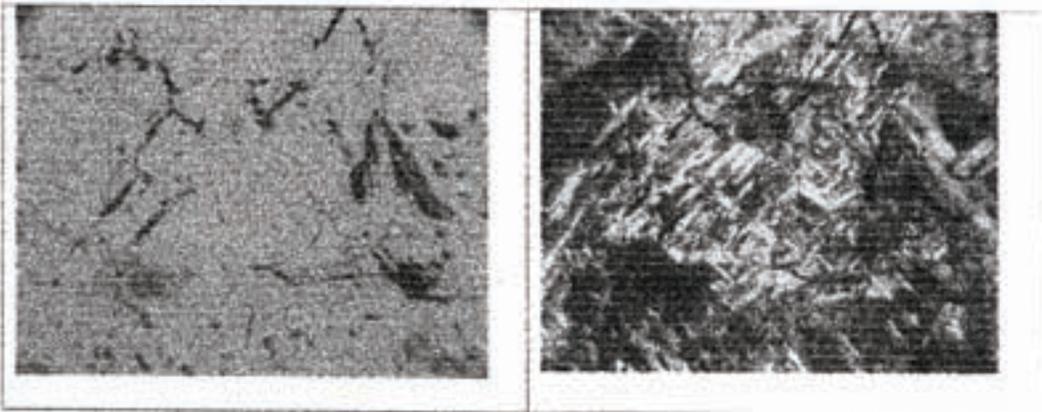


Fig 4. Thin section in plane light.

Fig. 5 Thin section in cross-polar light.

The XRD results showed that more than serpentine was in the rock. The exact minerals in the mortars and pestles are: lizardite, clinochrisotile, orthochrisotile, clinochlore, and forsterite. Lizardite, clinochrisotile and orthochrisotile are all members of the Serpentine family, and polymorphs of each other. The Lizardite, $Mg_3Si_2O_5(OH)_4$ is fine grained to platy, hardness of 4 on the Mohs scale, and has a waxy luster. Orthochrisotile and clinochrisotile both $Mg_3Si_2O_5(OH)_4$ are softer, hardness around 3 on the Mohs scale. Chrisotile is the asbestos form of serpentine.

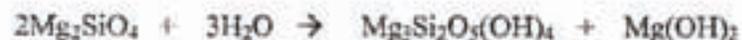
Clinochlore (Mg,Fe^{2+})₂Al(Si₃Al)O₁₀(OH)₈ is a member of the Chlorite Group $(Mg,Fe,Al)_6(Si,Al)_4O_{10}(OH)_8$. Clinochlore is fine grained, with thin or bladed crystals, or in little rounded knobs. It is has a lower hardness than the two serpentine types in the rock, only 2-2^{1/2}. In thin section, chlorite looks similar to serpentine.

Pleochroism, which can make chlorite look blue or brown, along with slightly higher relief and a slightly higher refractive index allows the chlorite in the slide to be seen against the serpentine. Some areas of the slide have small clusters of powder blue crystals.

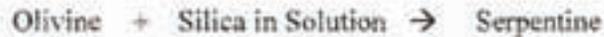
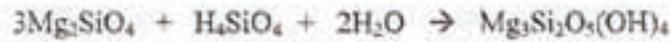
The final mineral given definitively by the XRD was forsterite (Mg_2SiO_4). Forsterite is the magnesium saturated end member of the olivine solid solution series with fayalite, (Fe_2SiO_4). Olivine is much harder than the other minerals in the sample, 6-7 on the Mohs hardness scale, and can be easily identified in thin section. Little olivine was visible in the thin section. Very small crystals were seen surrounded by the serpentine on the slide. Olivine has a very high birefringence and shows up in range of bright colors in cross polarized light, making it very noticeable against the gray serpentine and chlorite. Under plane light the crystals appear light green and blend in with the serpentine on the slide.

Discussion:

The rock that was used to make the mortars and pestles is a Serpentinite, a rock made mostly of serpentine. Forsterite can readily revert to serpentine with the addition of heat and water during metamorphism. This is commonly referred to as Serpentinization, which occurs in mountain building environments associated with deep deposition into an ocean basin. Two possibilities to get serpentine from the olivine rich parent rock are:



OR



Serpentine deposits are located all over Europe and in Asia. One of the most notable in Europe is Cornwall, England. The southwest corner of the country is dominated by serpentine deposits. Lizard Point in Cornwall gives its name to the Lizardite type of serpentine, shown in green on Fig 6.

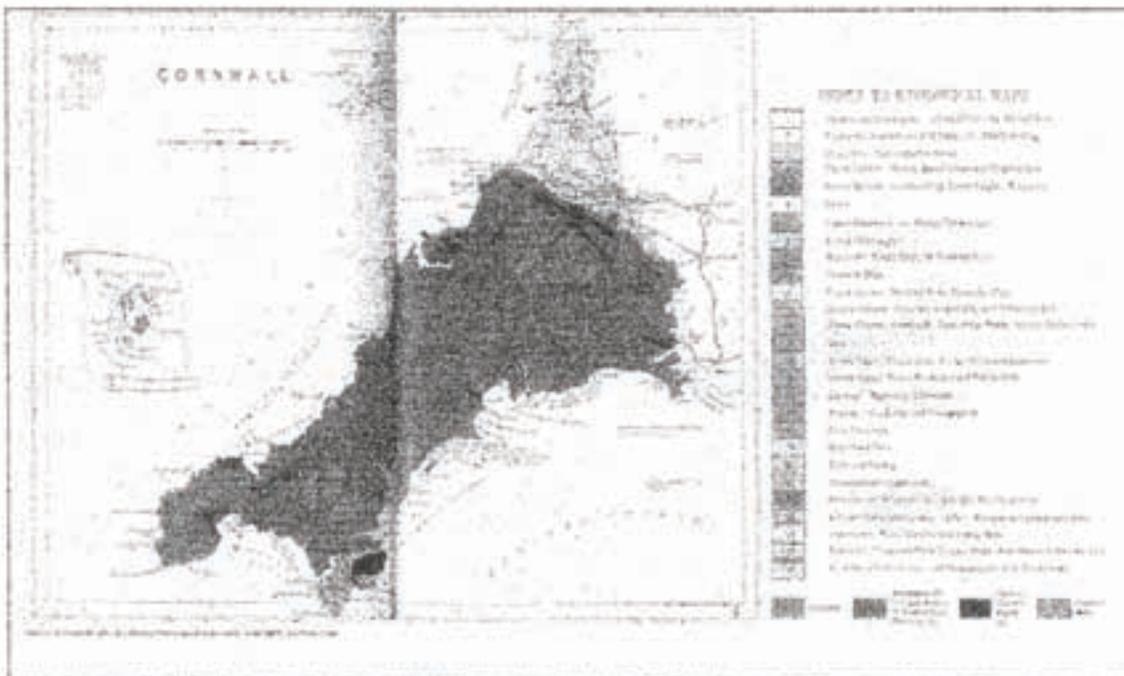


Fig.6 Geologic Map of Cornwall, England. Serpentine deposits in Southern peninsula, shown in green.

Although Cornwall, England is known mostly for its tin mining during the 1700s, mining for serpentine also may have gone on at the same time. Some of the other places in Europe that contain large enough serpentine deposits for profit are Ireland, Italy, France, Germany, Sweden, Norway, Poland, and Austria. Ireland, Italy, and Greece contain serpentine marbles. Some serpentine and chlorite rich jades come from Austria

and China. More specifically, France, Germany, Norway, Sweden, Poland, and Austria contain deposits of clinochrisotile. Norway and Sweden have deposits of orthochrisotile. Clinochlore and lizardite are commonly found within deposits throughout much of Europe.

Conclusion:

Two rocks commonly shaped for use are jade and soapstone. Serpentine is slightly harder than both but is still within means of being easily manipulated on a lathe into a mortar or pestle for use, as shown by the marks still visible on the hand samples.

Given these objects found on the ship were probably being imported from England, a likely place for the serpentine source mine would be in Cornwall, England. The specific minerals present in the samples also indicate England is the best choice to begin looking for a manufacturer of the mortars and pestles.

Other places in Europe that have marble serpentines deposits contain minerals like calcite, dolomite, and/or magnesite; none of which were found in the sample. Although one of the knobs fizzed with the addition of HCl, during thin section and XRD analysis no minerals with that property were apparent. The jade type localities, such as in Austria or China, that are more chlorite-rich would be a second place to look for the source rock after the British Isles due to the inclusion of clinochlore in the sample.

References:

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Clinochrisotile: <http://www.mindat.org/show.php?id=1071>

Orthochrisotile: <http://www.mindat.org/min-3025.html>

Lizardite: <http://www.mindat.org/min-2425.html>

Clinochlore: <http://www.mindat.org/min-1070.html>

Forsterite: <http://www.mindat.org/min-1584.html>

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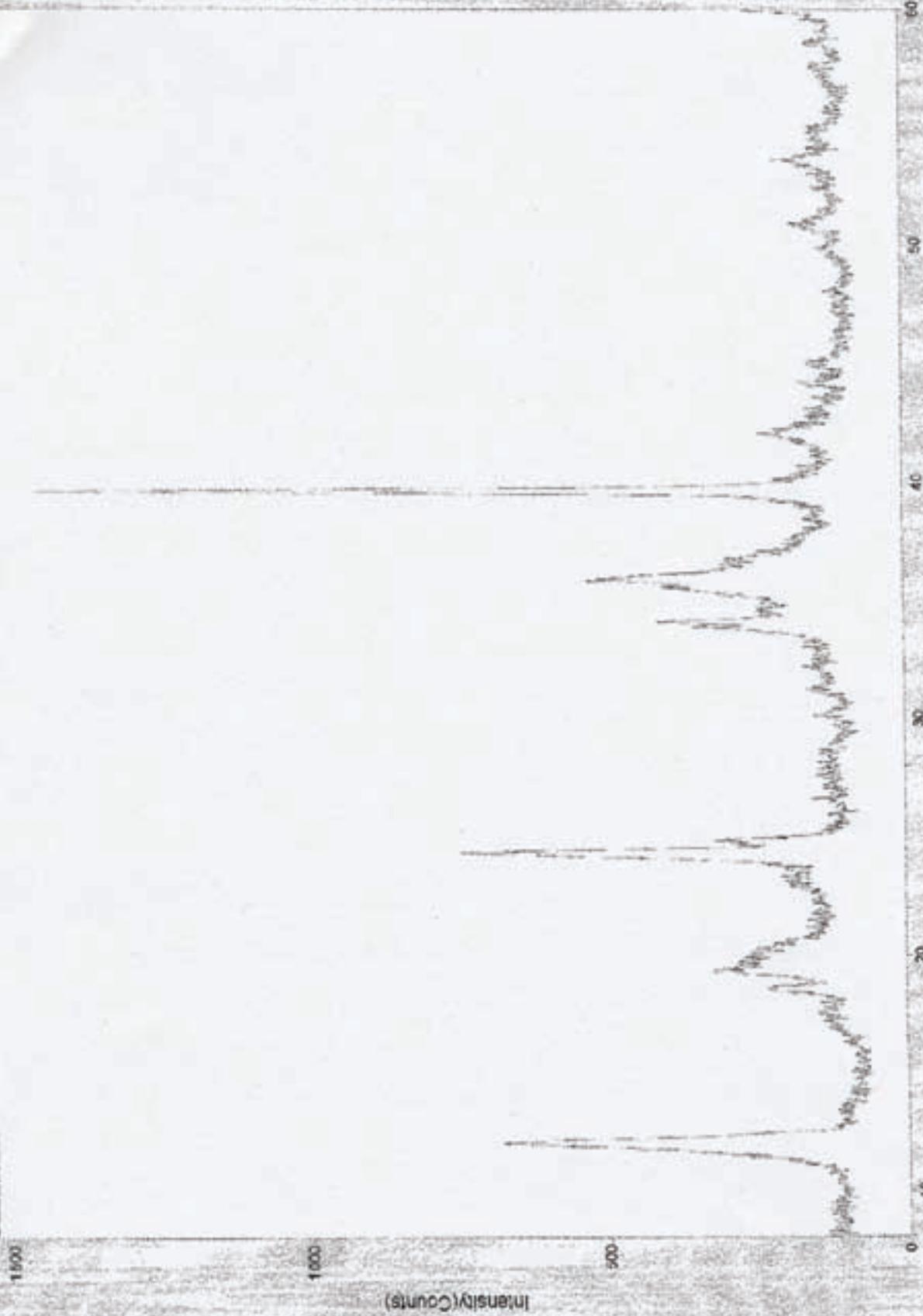


Fig. 1. X-ray Diffraction pattern of GIMOC, 2004, 28, 2, from Cambridge Isotopes Corporation.

Appendix J

Identification of Wooden Elements

Recovered from the Roosevelt Inlet Shipwreck Site

Identification of Wooden Elements Recovered from Shipwreck Site 7S-D-91A and 7S-D-91B, Sussex County, Delaware.

Phase III, Lewes Maritime Archaeology Project

Nineteen samples of ship wood and small artifacts resembling wood were submitted from the Roosevelt Inlet Shipwreck (sites 7S-D-91A [offshore] and 7S-D-91B [beach]). Small samples were excised from larger water-saturated wooden elements. In the case of small artifacts (i.e. handles and stoppers), the entire artifact was submitted for identification. All remains were kept saturated and packaged in vinyl bags and polyethelene containers for transport and short-term storage.

Taxonomic identification was accomplished under low magnification (10X to 40X) with the aide of standard texts (Edlin 1969; Panshin and deZeeuw 1980; Hoadley 1990). Identifications were secured by comparison to modern plant specimens from an extensive reference collection. The samples were examined in their saturated state and specimens were weighed. Cross-sections were obtained using a scalpel. Portions of each sample were partially air-dried to further illuminate minute features. The attached table provides an inventory of taxa identified by field sample number. A brief description of each of the samples is provided below.

SHIP CONSTRUCTION

Eleven wood samples related directly to ship construction.

Exterior Planking: Wood secured from two sections of the ship's exterior planking were identified as white oak species (*Quercus spp. LEUCOBALANUS group*). Three treenails from the exterior planking were also examined: these all appear to be a tight-grained coniferous wood lacking resin canals. Possible species include hemlock, true fir, cedar, baldcypress, redwood or yew.

Deck Clamp: Wood fragments excised from two separate areas of the deck clamp were identified as white oak species (*Quercus spp. LEUCOBALANUS group*).

Bilge Ceiling: Two samples each from the primary (or original) and secondary bilge ceiling were also identified as white oak (*Quercus spp. LEUCOBALANUS group*). The photograph of secondary bilge ceiling member (Figure 01) shows the large multiseriate rays and flame-shaped grading of latewood pores characteristic of the white oak group.

SMALL ARTICLES

Fiber Conglomerate: A sample of compressed wood fibers was examined to determine if it was historic or modern in origin. Under magnification the material appears to be a conglomerate of coarsely chopped wood fragments articulated with some transparent bonding agent. The material bears a very close resemblance to modern commercial chipboard soaked in water for a few days.

Bottle Stopper: A bottle stopper was fashioned from white oak (*Quercus spp. LEUCOBALANUS*



group).

Figure 01: Minute features of the white oak (secondary bilge ceiling).



Figure 02: Minute structure of pewter-clad wood handle.

Worked Pin with Two Holes: A heavy wooden pin, tear-shaped and with two drilled holes was made from wood of the birch family (*BETULACEAE*). The wood is fine-textured, diffuse-porous and conspicuous, scattered aggregate rays (see Figure 02). The pores appear to be occluded with a preservative substance, possibly pitch.

Pewter-Clad Handle: A wooden handle clad in ornate pewter sheathing was made of a diffuse-porous hardwood - maple (*Acer sp.*) or birch (*Betula sp.*).



Figure 03: Worked wooden handle made of hickory.

Worked Wood Fragment: A fragment of worked wood, possibly a portion of a small tool or knife handle was clearly identifiable as hickory (*Carya spp.*). See figure 03.

Non-wood Items: A small, roughly spherical vegetable object was recovered and submitted for analysis. It has a monocotyledonous structure, and may be an eroded fragment of fruit or stem. Two knife handles recovered by a private collector among the beach debris are made of worked bone or horn.

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1969 *What Wood is That? A Manual of Wood Identification*. The Viking Press, New York.

Hoadley, Bruce R.

1990 *Identifying Wood*. The Taunton Press, Inc. Newtown, Connecticut.

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Appendix K
Notice to Mariners

PUBLIC NOTICE
NOTICE TO MARINERS AND OTHER INTERESTED PARTIES

Pursuant to the State Antiquities Act, 7 Del. C. Ch. 53, the Delaware Division of Historical and Cultural Affairs hereby gives notice to all interested parties that the Department of State and the Division plan to undertake archaeological investigations of the Roosevelt Inlet shipwreck. The Department of State and the Division have exclusive rights for underwater archeological investigations for an area seaward of Lewes Beach, Delaware as further described below. The purpose of the archeological survey is to recover important information about the nature and extent of this historic shipwreck and its cargo.

Public access to the shipwreck site is restricted. The archaeological investigations of the Roosevelt Inlet shipwreck are the exclusive right of the Department of State and the Division of Historical and Cultural Affairs as provided for in the Act. No other person may anchor, set crab or conch pots, dredge, dive, remove objects from the sea floor or in any way remove, disturb or alter an underwater archeological resource or artifact or its surrounding location or context. The term of the exclusive access is indefinite and until further notice by the Division.

Any unauthorized person found excavating, collecting, defacing, injuring, destroying or altering any archaeological resource, artifact or surrounding location shall be subject to the penalties set forth in 7 Del. C. § 5312, which includes fines and civil penalties up to \$20,000, 30 days imprisonment, restitution to the State, and forfeiture of all tools and equipment used in such activities. Each day of violation is considered a separate offense. The area will be patrolled DNREC Enforcement and/or others authorized by DNREC Enforcement. If a member of the public witnesses someone in the area undertaking the prohibited activities, please call the DNREC Enforcement 24-hour dispatch line at 800-523-3336.

The exclusive access area is defined as a box with the coordinates listed below as follows:



Latitude and Longitude
A 38 47 55.86 N, 75 09 30.83 W
B 38 47 55.77 N, 75 08 48.96 W
C 38 47 33.80 N, 75 08 48.76 W
D 38 47 33.82 N, 75 09 30.91 W

For further information, please contact Timothy A. Slavin, Director, Division of Historical and Cultural Affairs at (302) 736-7400 or tim.slavin@state.de.us. Written inquiries may be mailed to:
Timothy A. Slavin, Director
Division of Historical and Cultural Affairs
21 The Green
Dover, Delaware 19901

Appendix L
Mississippi State Guidelines for
Underwater Archaeological Research

Underwater Archaeological Research

Mississippi possesses a diverse range of submerged cultural resources, ranging from canoes and pirogues to steamboats, schooners, and ocean-going vessels, as well as prehistoric sites inundated through coastal subsidence. These archaeological sites receive the same level of protection as do terrestrial sites. In addition to the aforementioned laws (e.g., NEPA, NHPA) governing terrestrial site protection and mitigation, additional legislation, such as the Abandoned Shipwreck Act of 1987, serve to further protect these important resources.

The following section briefly outlines Phase I, II, and III techniques and guidelines that should assist archaeologists and agency administrators in developing research designs capable of retrieving sufficient amounts of data in order to identify and evaluate submerged cultural resources, primarily sunken vessels. Each phase should be approached within the context of a research design with project results contributing to a better knowledge and understanding of Mississippi's past.

Create a Research Design

An explicit research design should govern all archaeological work, especially Phase II and III investigations. This design or plan should ask questions regarding the justification and legitimacy of the proposed field work, what is to be gained from this work prior to going into the field, and what techniques will be employed to complete the task. Furthermore, the research design should reflect the needs of the sponsor, such as "how much area to look at and how much and what kinds of data to record" (Davis 1982:B-5).

In addition, each archaeologist must submit a scope of work to MDAH-SHPO for comment prior to conducting Phase I cultural resource surveys of 200 hectares (500 acres) or more. The proposed scope of work must also be submitted to MDAH-SHPO for comment before conducting any Phase II or III investigations. These documents should specify the types of cultural resources known or anticipated to be in the project's area of potential effects, the field and/or archival techniques proposed, the projected number of field personnel required for the project, and the estimated time in the field.

Conduct Literature Review/Records Check

Prior to investigations of submerged cultural resources, historical and archaeological records, literature (e.g., *Ways Packet Directory, 1848-1994*), and archival sources should be examined to provide a cultural/historical context for the study area, and to identify previously recorded archaeological or historical properties in or near the project area. The following is a brief list of sources maintained by MDAH-SHPO that should be consulted prior to conducting Phase I, II, and III submerged cultural resources investigations:

1. Mississippi Archaeological Site File (contains information on known sites)

2. Archaeological Maps (15' and 7.5' USGS Topographic Quadrangles), which contain information on known site locations, previous cultural resource surveys, etc.
3. Cultural Resources Survey reports and other applicable literature, such as H.P. Owen's *Steamboats and the Cotton Economy*, *Mississippi Archaeology*, *Louisiana Archaeology*, *Journal of Alabama Archaeology*, *Tennessee Anthropologist*, *Southeastern Archaeology*, *American Antiquity*, etc.
4. Archaeological Subject File (supplemental data to recorded sites, such as artifact illustrations and photographs, site maps, newspaper articles, correspondence, etc.).
5. Deeds, Historic Maps, and Aerial Photographs.
6. National Register of Historic Places Files.

Recordation

1. Field notes should be maintained during the entire investigation and for all aspects of the project. If possible, all notes should be written or copied onto acid-free paper.
2. Significant archaeological sites and prominent features (e.g., shipwrecks, docking facilities) with good visibility (e.g., low tide; clear water) should be photographed with color and black and white film. Although most black and white film types are fairly stable, most color films are not. Due to color film's instability and short life expectancy, archaeologists are strongly encouraged to use Kodachrome film when photodocumenting the site and research for the permanent record. All photographs should be printed with a standard finish, such as matte, glossy, or satin and should be at least 3½ x 5 inches. Each photograph should be labeled with a permanent audio-visual marking pen or pencil. Adhesive labels should not be used on photographs because the labels can become detached. All original photos, negatives, and transparencies should be included with the curated materials. Digital images, regardless of the media, are not appropriate for the permanent record. For further advice concerning photographing significant archaeological sites refer to National Register Bulletin 16A (*How to Complete the National Register Form and National Register*), 20 (*Nominating Historic Vessels and Shipwrecks to the National Register of Historic Places*), 23 (*How to Improve the Quality of Photos for National Register Nominations*).
3. Maps and scaled drawings of the project area and recorded anomalies should be maintained throughout the investigation. This is particularly important since many submerged cultural resources in Mississippi can not be photodocumented due to poor visibility associated with water turbidity.

Phase I: Submerged Cultural Resources Survey

The overall goal of a Phase I submerged cultural resources survey is to locate and evaluate archaeological resources within the project's area of potential effects. During this phase of research, archaeologists need to recover sufficient information to determine whether further investigations at the site/s is necessary to address National Register eligibility. Specific objectives of the Phase I submerged cultural resources survey include: 1) a review and search of the archaeological and historical records pertaining to the general project area; 2) a field inspection and complete Phase I survey to determine the presence, nature and degree of integrity, if possible, of archaeological remains within the project's area of potential effect; and 3) an evaluation of the potential impact of the project on the identified archaeological resources.

Fieldwork Guidelines

The areas surveyed and the methodologies employed should be decided on an individual project basis. The following list, however, provides basic guidelines that should assist the archaeologist in retrieving adequate information:

General

1. Each submerged and visible watercraft, as well as other cultural resources (e.g., bridges, structures) identified in the project's area of potential effects, should be recorded and preliminarily evaluated as to its National Register eligibility.
2. Due to varying levels of survey complexity often associated with riverine and marine environments, such as water depths and poor visibility, remote-sensing technologies should be used. Remote-sensing technologies should include, but not be limited to, systematic magnetometer survey, bathymetric or fathometer survey, and side-scan sonar. All instrument data should be recorded in concert with a Differential Global Positioning System (GPS).
3. A magnetometer survey will detect most anomalies in the project's area of potential effects. Archaeologists will need to conduct more detailed systematic magnetic surveys for all anomalies thought to be potentially significant. Analyses of the initial and more detailed magnetic surveys should provide the principal investigator with enough information to determine the identity of the anomaly and the potential for further testing.
4. If it is determined that additional testing of an anomaly is needed/required, then a side-scan sonar should be employed to enable the principal investigator to make a more precise determination regarding the anomaly's National Register potential. Side-scan sonar may be excluded from use when field conditions prohibit or dictate otherwise. In these instances, a justification for not using side-scan sonar must be discussed in the report. It is important that all generated data (side-scan sonar, magnetometer, etc.) be correlated in order to produce as accurate a survey result as possible.

5. Systematic water jet probing from the deck of the survey boat or adjacent banklines should be conducted to determine the location and extent of all identified submerged watercraft and other potentially significant underwater resources.
6. All exposed watercraft elements should be fully recorded to the extent possible with a detailed discussion provided in the report.
7. Survey and site/s locations must be depicted on 7.5' USGS topographic maps.

Magnetometer, Bathymetric/Fathometer

1. Magnetometer and Bathymetric/Fathometer are remote sensing instruments that produce survey data capable of being downloaded into a computer database. There are two types of magnetometers currently used in the field of underwater research, a proton precession magnetometer and a cesium magnetometer. The proton precession magnetometer is probably sufficient for the Phase I cultural resource survey. Data collected from the magnetometer survey should be of sufficient precision and quality to allow for interpretations.

Side-Scan Sonar

1. Archaeologists are encouraged to use as high a frequency side-scan sonar as possible, such as 500 kHz. Higher frequencies produce superior resolutions thereby allowing for better identification and interpretation of targets. While lower frequency side-scan sonars, such as 100 kHz, can produce good results, they do not produce the high quality results higher frequency side-scan sonars do. Again, archaeologists are encouraged to utilize a side-scan sonar capable of recording data that can be down loaded into a computer database (note: some side-scan sonars are equipped with video monitors, but are incapable of storing the generated data).

Positioning Systems

1. A positioning system should be incorporated into all submerged cultural resources surveys, so archaeologists can easily map and relocate any targets encountered. To ensure precision during the remote sensing survey a ± 5 meter variance in positioning data is suggested. In order to achieve this accuracy, the archaeologist should use either an on-shore total station or a Differential (or corrected) Global Positioning System (GPS). The on-shore total station may be more practical and feasible if: the survey area is limited in scope, the line of sight between shore and survey vessel is good, and/or there is a single target involved.

Remote Sensing Survey

1. Transect lane spacing should not exceed 30 meters (100 feet).
2. Positioning control points should be obtained at least every 30 meters (100 feet) along transects.

3. Background noise for the magnetometer data should not exceed ± 3 gammas.
4. Magnetic data should be recorded on the 100 gamma scale.
5. The magnetometer sensor should be towed a minimum of 2.5 times the length of the boat or projected in front of the survey vessel to avoid vessel noise.
6. The survey should utilize the Universal Transverse Mercator (UTM) grid system when providing site and feature locations.
7. Additional, more tightly spaced transects should be run over all potentially significant anomalies.
8. Differential GPS survey control should be used to determine the exact locations of the magnetic anomalies or exposed watercraft.

Survey Intervals

1. Although interval spacing should be established on a case by case basis, it is recommended that magnetometer spacing not exceed 30 m (100 ft). This spacing increases the possibility of detecting the smallest of targets. A transect spacing justification (e.g., density of archaeological sites in area, inaccessibility) for all forms of remote sensing should accompany the cultural resources survey report.
2. Any magnetic target that produces an anomaly greater than 20 to 25 gammas, covers an area greater than 15 meters, or produces a complex signature should be viewed a second time. A justification for any subsequent viewing, or a decision not to reexamine an anomaly such as this, must accompany the survey report.
3. Additional survey lines (normally perpendicular to the original survey) should be run across targets deemed to be of interest. These supplementary lines provide additional data on the character of the target, as well as aid in the development of magnetic contour maps.

Terrestrial Surveys

1. In some cases, a terrestrial survey of bank lines may provide supplementary data to the information generated during the underwater survey. Examples of such data include the locations of vessels partially covered by bank lines, associated structures such as docking or landing facilities, and sunken vessels abandoned at or near these facilities. In addition, terrestrial surveys provide access to shore lines deemed inaccessible by boat due to heavy vegetation or low water (For information concerning appropriate survey methods see Terrestrial Cultural Resources Survey section).

2. Archaeologists are also encouraged to use hand-held magnetometers when conducting these bank line and shallow water terrestrial surveys. This is especially true in river settings where magnetic targets are observed trending under the bank.

Phase II: Submerged Cultural Resource Testing and Evaluation

The primary objective of the Phase II investigation is to determine if the site in question is eligible for inclusion in the National Register of Historic Places (note: Phase I and II underwater investigations are sometimes combined into a single activity. The governing/contracting agency is responsible for ensuring that a scope of work exists in which the specific tasks are outlined and that the proper officials are notified). Unlike terrestrial archaeological sites, National Register eligibility for most submerged cultural resources will be determined using most of the established Criterion, as opposed to just Criterion D (see National Register Bulletin 36). However, as with terrestrial sites, "In order to determine the significance of a site [under Criterion D], enough subsurface investigation must be done to establish the potential for information that can be used to formulate and answer research questions" in regard to a regional context (Bense et al. 1986:56). Investigation objectives include, but are not limited to: 1) the vertical and horizontal extent of intact archaeological deposits within each site; 2) the density and distribution of the archaeological deposits within each site; 3) the cultural affiliation of the components represented at each site; 4) the presence of undisturbed submerged features or buried stratified deposits at each site; 5) the classes of archaeological remains retrievable; and 6) whether the site is eligible for inclusion in the National Register. Phase II investigations should not be initiated without consultation with MDAH-SHPO.

Fieldwork Guidelines

The fieldwork methodology and areas to be investigated should be decided on an individual project basis. However, the selected methodology should focus only on data relative to research questions of potential importance as they pertain to evaluating National Register significance. The following list, however, provides basic guidelines that should assist the archaeologist in retrieving adequate information:

General

1. Since it is practically impossible to adequately identify and assess the significance of submerged cultural resources based solely on the generated remote-sensing data, some form of diving will probably be required during Phase II investigations. Because diver safety is a prime concern, MDAH-SHPO requires that the principal investigator submit an Underwater Dive Safety Plan to the governing/contracting agency for approval prior to any diving activity (For additional information on operating in a safe manner, the principal investigator should become familiar with the 1996 "U.S. Army Corps of Engineers Safety and Health Requirements Manual"). This Plan should address: accident management, hazardous activities analyses, operating procedures, and equipment selection and use. Diver standards should meet or exceed the minimum required by the U.S. Army Corps of Engineers. In addition, the principal investigator/contracting firm will ensure that: 1) divers are medically fit to dive; 2)

experienced at diving depths; experienced at tasks to be performed; and 3) experienced with the equipment to be used. All divers, including standby divers, should be qualified divers, as well as knowledgeable in archaeological methodology for submerged cultural resources. A record of all dives should be kept by a timekeeper.

2. Written records should be maintained throughout the course of the study. Test units and other identification techniques, as well as identified anomalies should be photographically recorded, if possible.

3. All field investigations must use a permanent reference grid.

4. Field methods should employ terrestrial and underwater archaeological methods, as applicable. These methods include, but are not be limited to, remote-sensing surveying, probing, hydroprobing, underwater diving, surface excavation, systematic structural recordation, and the stabilization and conservation of recovered artifacts.

5. All instrument data should be recorded in concert with a Differential Global Positioning System (GPS).

6. Provide location of Phase II testing on 7.5' USGS topographic map.

Testing

1. Work conducted during the Phase I submerged cultural resources survey should have identified the archaeological property's boundaries and artifact concentrations. However, due to uncontrollable forces (e.g., current, fishing activities) some targets may move, and therefore the re-establishment of the target's location via remote-sensing technologies is suggested.

2. Physical examination of the target by a diver may be required in certain situations. If the target is buried, examination of the target with a stainless steel probe or a hydraulic probe can provide insights on target dimensions, configuration, depth, condition, etc.

3. If deemed necessary, excavations should only be to the extent that provides adequate data to make the necessary assessment of the submerged cultural resource. Because underwater investigations can be costly and time-consuming, sampling strategies should be employed, thereby limiting work to the minimum necessary to make the required assessments and determinations. However, each site is different and the archaeological methodology used, the areas of the property tested, and the percentage of the site sampled should be decided on an individual site basis.

4. Equipment (e.g., air lift, water jet, hydraulic venturi dredge) needs should be tailored to the specific project with justifications for the selection and utilization of this equipment outlined in the report.

5. Priority should be given to accurately mapping the distribution of submerged resources (e.g., artifact concentrations, vessel features).
6. Information on site conditions, precise limits, chronological placement, structural integrity, dimensional data, and watercraft type and identity, if possible, should be obtained.
7. Data recovery techniques should adhere to professional standards. A primary goal is a physical examination and documentation of vessel construction. It is recommended that at least three cross sections of each hull be completely inspected and documented for the purpose of analyzing construction techniques and materials.
8. Information should be collected regarding historic watercraft known to have traveled the project's area of potential effects and should include, but not be limited to, newspaper accounts, handbills, and enrollment certificates. Typical schematic drawings of watercraft construction plans that are similar to types located in the project area should be included in the report.
9. A datum must be established at each site and measurements should be controlled and referenced by this point. Probing will be useful in locating hull remains and machinery. Probing by hand or with a water jet will determine the amount of sediment overburden and will aid in optimum placement of excavation units (or trenches).
10. Each excavation unit should be cleared until evidence of hull remains or machinery is encountered. The units should be placed in such a manner as to ensure maximum retrieval of data. The inferred locations of the bow and stern should be examined, if possible, to determine the orientation of the vessel/s. The proper location of these test units should reveal construction details about the ship's hull, deck, and machinery.
11. A detailed and accurate map of the exposed portions of each hull should be made to determine exact horizontal site limits, detect artifact densities, and assess the relationship between areas. Plan drawings or sketches should be made from test excavations to illustrate the location of artifacts, structural members, machinery, and hull layouts.
12. If a vessel type was built for a specific use, its relationship to a specific historical context should be assessed. Documentation of former enrollment records and registries should be researched. The integrity of each vessel needs to be thoroughly documented, discussing original form, materials, workmanship, and changes.
13. A detailed and accurate map of the extant portions of each hull should be made to determine exact horizontal site limits, detect artifact densities, and assess the relationship between areas. Plan and profile drawings should be made from test excavations to illustrate the location of artifacts, structural members, machinery, and hull layouts. Historic plans, drawings, and photographs should be reproduced or prepared to visually

represent each vessel. Views of deck plans, inboard/outboard profiles, and hull and longitudinal sections should be included. These drawings of existing portions and representative samples of each vessel should be drawn to show methods of construction and individual features. See the National Park Service's *Guidelines for Recording Historic Ships* (1988) for additional information.

Phase III: Mitigation of Submerged Cultural Resource

The mitigation of impacts or effects on a significant (i.e., National Register eligible) property can take several forms. For example, relocating, changing, or modifying the proposed project is one way to avoid impacting an eligible archaeological site. Although the site may not be preserved in the long run, this action can eliminate imminent impacts and adverse effects associated with the original project. This step incorporates the property into the project in a non-destructive manner.

However, when avoidance of a significant property is impractical and partial or total destruction is unavoidable, an agreement to conduct data recovery (i.e., complete site excavation) is usually reached (see Section 110b of NHPA). This plan is usually a continuation and expansion of Phase II activities. The data recovery plan should be detailed, discussing and justifying the design of the investigation which will retrieve the data, what research questions will be addressed, the proposed analysis and the expected results, and a justification for the expenditure of public money on the data recovery project should be clearly stated. If the recovery plan is unusually complex, then a Memorandum of Agreement (MOA) between participating agencies should be used. Mitigation recovery projects may not proceed without consultation with MDAH-SHPO and the development of the appropriate written agreement. Whatever is decided, this plan should be consistent with the principles set forth in "Consulting About Archeology Under Section 106," the "Secretary of the Interior's Standards and Guidelines for Historic Preservation Projects," and the "Participants Desk Reference" issued by the Advisory Council on Historic Preservation in 1995.

