

APPENDIX E

BEADS OF THE WEST APPROACH PROJECT

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KARLIS KARKLINS (FEBRUARY 2007)

[PHOTOGRAPHS AND ASSOCIATED TABLES BY LESTER A. ROSS, MAY 2007]

The excavations conducted on Blocks 4, 5, 7, 9, 10, and 11 produced a large quantity of beads. This assemblage was initially submitted to Karlis Karklins, who identified approximately 2,050 beads and 1 pendant. The vast majority (97%) of these are composed of glass and represent all four major manufacturing categories: drawn (1,504 specimens), wound (370 specimens), mold-pressed (92 specimens), and blown (18 specimens). Several ceramic (Prosser-molded) beads are also present (53 specimens), as are specimens of wood (4), stone (3), bone (2), and clay (1); there was 1 shell pendant.

In May of 2007, the bead assemblage was sent to Lester Ross for photography. To keep track of all beads, a photo catalog was established, assigning a separate numeral from 001 to 130 as a photo ID for each variety, whether or not they were chosen for photography. Each variety was listed by provenience (Table 1), then the total number of beads by variety was tallied and listed (e.g., Photo ID 001, $n = 114$) and in Table 2. Representative examples of each variety were selected for photography; beads that were photographed are noted in Table 1.

The total number of beads and pendants re-examined equaled 2,036, and the totals for many varieties did not correspond with the totals reported by Karklins. As the entire assemblage was made available to both investigators, the exact reasons for the discrepancies are not known; the counts for each type by each investigator are indicated in the descriptions below. In introductory paragraphs for each bead type below, Karklins's count is given, followed by Ross's count in brackets.

Finally, the faceted, spheroidal, mold-pressed bead varieties were re-examined for combinations of distinctive attributes that might provide additional temporal information (following Ross 2003). This resulted in the identification of a few subvarieties for some of the original varieties and a re-designation for one variety, Karklins W1b* Round (oblate); tsp. apple green (23 ic; 10 GY 6/6) (Photo ID 59) (Table 3 and Appendix).

GLASS BEADS

The glass beads are classified using the taxonomic system developed by Kenneth E. Kidd and Martha A. Kidd (1970), as expanded by Karklins (1985). Varieties that do not appear in the Kidds' lists are marked by an asterisk (*); two asterisks (**) denote a previously unrecorded type, while three asterisks (***) indicate a previously unrecorded class.

Color names are those provided in the *Color Harmony Manual* (Container Corporation of America 1958); these appear as arabic numerals and lower-case letters, in parentheses, following the common name of the color. As this is a relatively obscure publication, the corresponding Munsell Color System codes (with upper-case letters and arabic numerals) are also provided (Munsell 1976).

Diaphaneity is described using the terms opaque (op.), translucent (tsl.), and transparent (tsp.). Opaque beads are impenetrable to light except on the thinnest edges. Specimens that are

translucent transmit light but diffuse it so that an object viewed through them (such as a pin in the perforation) is indistinct. A pin in the perforation of a transparent bead is clearly visible.

Drawn Glass Beads

Beads of drawn manufacture predominated, comprising the bulk of the bead collection. They were produced by drawing out a gather of molten glass into a long tube that was subsequently chopped into bead segments. These could then be used as is but were generally tumbled in a heated container to round the ends. Some beads (such as Types If and IIIf) were subsequently ground to impart facets.

- Ia2. Tubular; op. black (p; N 1/0). On some specimens the glass appears tsl. rose wine (8 le; 10RP 4/6) on thin edges when held up to a strong light. The ends exhibit unaltered breaks. Quantity: 114. Photo ID 001, *n* = 114.
- Ia3. Tubular; tsp. light-gray (c; N 7/0). Some specimens contain numerous fine linear bubbles. The ends exhibit unaltered breaks. Quantity: 11. Photo ID 002, *n* = 11.
- Ia5. Tubular; op. white (a; N 9/0) with a satin finish. Broken ends. Quantity: 1. Photo ID 003, *n* = 1.
- Ia19. Tubular; tsp. bright navy (13 pg; 7.5PB 2/7). Broken ends. Quantity: 1. Photo ID 004, *n* = 1.
- Ic*. Tubular, pentagonal; op. black (p; N 1/0). Slightly rounded ends. Quantity: 16. Photo ID 005, *n* = 20.
- Ic4. Tubular, hexagonal; op. black (p; N 1/0). Slightly rounded ends. Quantity: 51. Photo ID 006, *n* = 33.
- Ic*. Tubular, hexagonal; tsp. light gray (c; N 7/0). Some specimens contain numerous fine linear bubbles, giving the beads a slight satiny appearance. Broken ends. Quantity: 37. Photo ID 007, *n* = 50.
- Ic*. Tubular, hexagonal; tsp. amber (3 lc; 10YR 7/8). Broken ends. Quantity: 5. Photo ID 008, *n* = 6.
- Ic*. Tubular, hexagonal; tsp. terra cotta (5 pe; 2.5YR 4/10). Broken ends. Quantity: 1. Photo ID 009, *n* = 1.
- Ic*. Tubular, hexagonal; tsp. emerald green (21 nc; 10G 5/10). Broken ends. Quantity: 8. Photo ID 010, *n* = 9.
- Ic13. Tubular, hexagonal; tsp. bright navy (13 pg; 7.5PB 2/7). Broken ends. Quantity: 20. Photo ID 011, *n* = 21.
- Ic*. Tubular, hexagonal; tsp. rose wine (8 le; 10RP 4/6). Broken ends. Quantity: 10. Photo ID 012, *n* = 10.
- If1. Tubular, cornerless-hexagonal; op. black (p; N 1/0). On some specimens, the corner facets are faint and few. Broken ends. Quantity: 12. Photo ID 013, *n* = 12.
- If2. Tubular, cornerless-hexagonal; tsp. light-gray (c; N 7/0). On some specimens, the corner facets are faint and few. Broken ends. Quantity: 5. Photo ID 014, *n* = 7.



Figure E.1. Ia-series (top, 1-4), Ic-series (middle, 5-12), and If-series (bottom, 13-20) drawn glass bead photos organized by type and photo id. number.

- If*. Tubular, cornerless-hexagonal; tsp. amber (3 lc; 10YR 7/8). On some specimens, the corner facets are faint and few. The ends range from unaltered breaks to slightly fire-polished. Quantity: 11. Photo ID 015, *n* = 10.
- If3. Tubular, cornerless-hexagonal; tsp. emerald green (21 nc; 10G 5/10). On one specimen, not all the corners were ground. Broken ends. Quantity: 16. Photo ID 016, *n* = 13.
- If5. Tubular, cornerless-hexagonal; tsp. amethyst (11 lc; 7.5P 4/8). Faint corner facets on one bead. Slightly rounded ends. Quantity: 2. Photo ID 017, *n* = 2.
- If*. Tubular, cornerless-hexagonal; tsp. bright navy (13 pg; 7.5PB 2/7). Broken ends. Quantity: 22. Photo ID 018, *n* = 13.
- If*. Tubular, cornerless-heptagonal; tsp. bright navy (13 pg; 7.5PB 2/7). Broken ends. Quantity: 53. Photo ID 019, *n* = 62.
- If*(?). Tubular, cornerless-hexagonal; tsp. light gray (c; N 7/0) with remnants of a blue enamel paint (intentional) on the perforation surface. Broken ends. Quantity: 1. Photo ID 020, *n* = 1.
- Ila2. Circular; redwood (6 ne; 10R 4/8). Quantity: 4. Photo ID 021, *n* = 4.
- Ila7. Circular; op. black (p; N 1/0). Quantity: 763. Photo ID 022, *n* = 781.
- Ila*. Circular; tsp. light gray (c; N 7/0). Quantity: 152. Photo ID 023, *n* = 141.
- Ila12. Circular; tsl. oyster white (b; N 8/0). Some specimens are flashed in clear glass. Quantity: 4. Photo ID 024, *n* = 4.
- Ila14. Circular; op. white (a; N 9/0). There are two distinct forms represented. One is a distinctly barrel-shaped seed bead form; the other is represented by large, short tube sections with well-rounded ends. Quantity: 56. Photo ID 025, *n* = 55.
- Ila*. Circular; tsp. ruby (8 pc; 2.5R 3/10). Quantity: 6. Photo ID 026, *n* = 6.
- Ila*. Circular; op. lemon yellow (1 la; 10Y 8.5/10). Quantity: 1. Photo ID 027, *n* = 1.
- Ila*. Circular; tsp. light gold (2 ic; 2.5Y 7/8). Quantity: 2. Photo ID 028, *n* = 2.
- Ila*. Circular; op. light gold (2 ic; 2.5Y 7/8). Quantity: 1. Photo ID 029, *n* = 2.
- Ila*. Circular; op. citron (1 gc; 10Y 7/5). Quantity: 2. Photo ID 030, *n* = 1.
- Ila*. Circular; tsp. aqua green (19 ic; 7.5BG 6/6). Quantity: 1. Photo ID 031, *n* = 1.
- Ila*. Circular; tsp. light jade green (21 ic; 10G 6/6). Quantity: 1. Photo ID 032, *n* = 1.
- Ila*. Circular; tsp. bright green (22 nc; 2.5G 5/10). Quantity: 2. Photo ID 033, *n* = 2.
- Ila*. Circular; tsl. bright aqua blue (17 ia; 2.5B 6/7). Quantity: 5. Photo ID 034, *n* = 5.
- Ila41. Circular; op. robin's egg blue (16 ic; 5B 6/6). Quantity: 6. Photo ID 035, *n* = 6.
- Ila*. Circular; op. cerulean blue (15 nc; 7.5B 4/8). Quantity: 2. Photo ID 036, *n* = 2.
- Ila43. Circular; tsl. bright blue (16 lc; 5B 5/7). Quantity: 2. Photo ID 037, *n* = 2.
- Ila56. Circular; tsp. bright navy (13 pg; 7.5PB 2/7). Quantity: 2. Photo ID 038, *n* = 2.
- Ila*. Circular; op. light cherry rose (7 ga; 5R 7/8). Quantity: 2. Photo ID 039, *n* = 3.



Figure E.2. IIa-series (top, 21–40), IIIf and IIIIf-series (middle, 41–47), and IV-series (bottom, 48–51) drawn glass bead photos organized by type and photo id. number.

- IIa59. Circular; tsp. rose wine (8 le; 10RP 4/6). Quantity: Photo ID 040, $n = 5$.
- IIf*. Circular-faceted; op. black (p; N 1/0). The surface exhibits two randomly placed cut facets. Quantity: 1. Photo ID 041, $n = 1$.
- IIIc*. Tubular, hexagonal; tsp. light gray (c; N 7/0) exterior; tsl. oyster white (b; N 8/0) core. Broken ends. Quantity: 37. Photo ID 042, $n = 12$.
- IIIc*. Tubular, hexagonal; tsp. bright navy (13 pg; 7.5PB 2/7) exterior; tsl. aqua blue (18 gc; 2.5B 6/4) core. Broken to slightly rounded ends. Quantity: 7. Photo ID 043, $n = 7$.
- III1. Tubular, cornerless-hexagonal; tsp. light gray (c; N 7/0) on tsl. oyster white (b; N 8/0). The bead consists of a six-sided tube segment with a triangular or pentagonal facet ground on each corner. Slightly rounded ends. Quantity: 18. Photo ID 044, $n = 29$.
- IIIf*. Tubular, cornerless-hexagonal; tsp. light gray (c; N 7/0) exterior; tsl. oyster white (b; N 8/0) middle layer; tsp. light-gray core. The bead consists of a six-sided tube segment, with a triangular or pentagonal facet ground on each corner. Broken ends. Quantity: 1. Photo ID 045, $n = 1$.
- III1. Tubular, cornerless-heptagonal; op. copen blue (13-1/2 ic; 5PB 5/7) exterior; op. light aqua blue (16 ea; 5B 8/4) core. The bead consists of a seven-sided tube segment with a triangular or pentagonal facet ground on each corner. Broken ends. Quantity: 1. Photo ID 046, $n = 1$.
- III1. Tubular, cornerless-heptagonal; tsp. bright navy (13 pg; 7.5PB 2/7) exterior; tsl. bright Dutch blue (13 la; 7.5PB 4/11) middle layer; tsp. bright navy core. The bead consists of a seven-sided tube segment with a triangular or pentagonal facet ground on each corner. Broken ends. Quantity: 4. Photo ID 047, $n = 4$.
- IVa6. Circular; op. redwood (6 ne; 10R 4/8) exterior; tsp. aqua green (19 ic; 7.5BG 6/6) core. Quantity: 3. Photo ID 048, $n = 3$.
- IVa*. Circular; tsp. ruby (8 pc; 2.5R 3/10) exterior; op. white (a; N 9/0) core. Quantity: 2. Photo ID 049, $n = 2$.
- IVa*. Circular; tsp. scarlet (7 pa; 7.5R 4/14) exterior; op. white (a; N 9/0) core. Quantity: 4. Photo ID 050, $n = 3$. Total possibly equals 5 if the Photo ID 078 beads are indeed drawn-and-stained versions of this variety.
- IVb*. Circular; op. white (a) exterior with 4 tsl. bright navy (13 pg; 7.5PB 2/7) stripes; op. bright copen blue (14 ia; 2.5PB 6/9) core. Quantity: 10. Photo ID 051, $n = 10$.

Wound Glass Beads

Beads of wound manufacture are represented by 370 [370] specimens. These were formed by winding a gather of molten glass around a metal mandrel until the desired size and shape were achieved.

- WIa3. Cylindrical; op. white (a; N 9/0). Quantity: 2. Photo ID 052, $n = 2$.
- WIB*. Round (globular to oblate); op. black (p; N 1/0). On some specimens, the glass appears tsp. rose wine (8 le; 10RP 4/6) on thin edges when held up to a strong light. Quantity: 153. Photo ID 053, $n = 145$.

- WIb1. Round (globular to oblate); tsp. light gray (c; N 7/0). Quantity: 7. Photo ID 054, $n = 7$.
- WIb2. Round (oblate); op. white (a; N 9/0). Quantity: 4. Photo ID 055, $n = 4$.
- WIb*. Round (globular); tsp. ruby (8 pc; 2.5R 3/10). Quantity: 1. Photo ID 056, $n = 1$.
- WIb7. Round (globular); tsp. amber (3 lc; 10YR 7/8). Quantity: 12. Photo ID 057, $n = 12$.
- WIb*. Round (globular); tsp. terra cotta (5 pe). Quantity: 1. Photo ID 058, $n = 1$.
- WIb*. Round (oblate); tsp. apple green (23 ic; 10GY 6/6). Quantity: 1. Photo ID 059, $n = 1$.
- WIb11. Round (globular); op. robin's egg blue (16 ic; 5B 6/6). Quantity: 8. Photo ID 060, $n = 9$.
- WIb12. Round (oblate); op. bright blue (16 lc; 5B 5/7). Quantity: 2. Photo ID 061, $n = 1$.
- WIb*. Round (globular to oblate); tsl. cerulean blue (15 nc; 7.5B 4/8). Quantity: 2. Photo ID 062, $n = 3$.
- WIb16. Round (globular to oblate); tsl. bright navy (13 pg; 7.5PB 2/7). Quantity: 81. Photo ID 063, $n = 83$.
- WIb*. Round (globular); tsp./tsl. dark navy (14 pi; 10B 2/4). Quantity: 1. Photo ID 064, $n = 1$.
- WIb*. Round (globular); op. rose wine (8 le; 10RP 4/6). Quantity: 1. Photo ID 065, $n = 1$.
- WIc*. Oval; op. black (p; N 1/0). Quantity: 9. Photo ID 066, $n = 9$.
- WIc*. Oval; tsl. light gray (c; N 7/0). Quantity: 2. Photo ID 067, $n = 2$.
- WIc5. Oval; op. amber (3 lc; 10YR 7/8). Quantity: 1. Photo ID 068, $n = 1$.
- WIc*. Oval (pigeon egg); tsp. bright green (22 nc; 2.5G 5/10). Quantity: 1. Photo ID 069, $n = 1$.
- WIc*. Oval (olive-pit shaped); op. copen blue (13½ ic; 5PB 5/7). Quantity: 1. Photo ID 070, $n = 1$.
- WIc*. Oval (pigeon egg); tsp./tsl. dark navy (12-1/2 ng; 10B 2/4). Quantity: 31. Photo ID 071, $n = 32$.
- WId*. Doughnut (annular); op. black (p; N 1/0). Quantity: 31. Photo ID 072, $n = 31$.
- WId*. Doughnut (annular); tsp. light gray (c; N 7/0). Quantity: 6. Photo ID 073, $n = 6$.
- WId1. Doughnut (annular); tsp. amber (3 lc; 10YR 7/8). Quantity: 3. Photo ID 074, $n = 3$.
- WId*. Doughnut (annular); tsp. bright green (22 nc; 2.5G 5/10). Quantity: 3. Photo ID 075, $n = 3$.
- WId*. Doughnut (annular); tsp. ultramarine (13 pa; 6.25PB 3/12). Quantity: 3. Photo ID 076, $n = 2$.

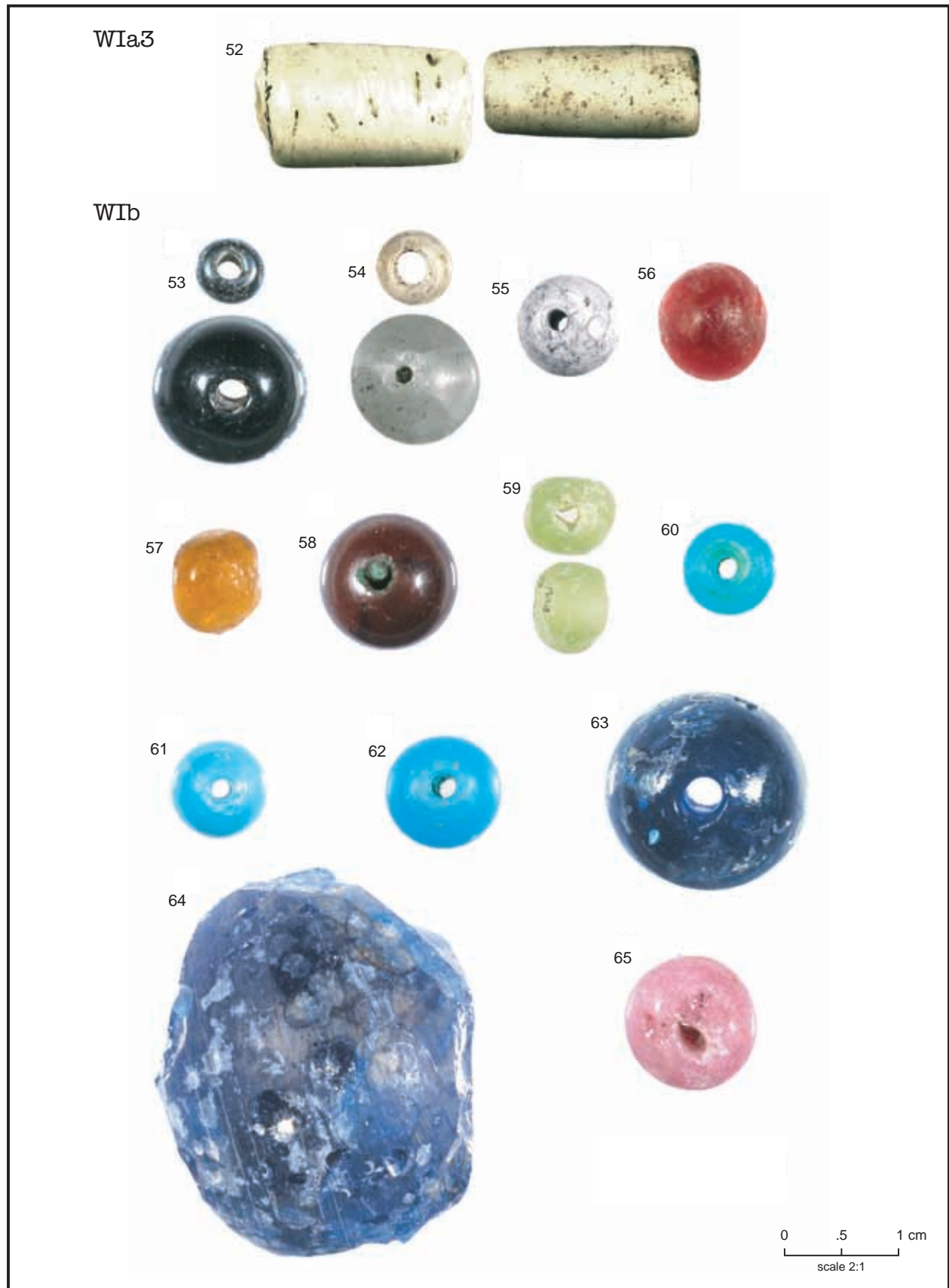


Figure E.3. W1a3 (52) and W1b-series (53–65) wound glass bead photos organized by type and photo id. number.



Figure E.4. W1c-series (top, 66–71) and W1d-series (middle, 72–76), and W1Ie and W1IIa (bottom, 77–78) wound glass bead photos organized by type and photo id. number.

WIIe*. Melon; op. light gold (2 ic; 2.5Y 7/8). Sub-globular form with seven lobes.
Quantity: 1. Photo ID 077, *n* = 1.

WIIIIa*. Round (globular to oblate); tsp. scarlet (7 pa; 7.5R 4/14) exterior; op. light gold (2 ic; 2.5Y 7/8) core. Quantity: 2. Photo ID 078, *n* = 2. At least one appears to be a stained version of a Photo ID 050 bead, while the second appears to be the same as a Photo ID 050 bead with a yellow, rather than a white, core. Both appear to have been drawn rather than wound.

Mold-pressed Glass Beads

Ninety-two [90] mold-pressed beads are in the collection. These were generally produced by placing a molten glob of glass in a two-piece mold and letting it harden. A wire pushed through the glass while it was still soft imparted the perforation. In a variation of this, termed “mandrel-pressing” by Ross (2003), a tapered pin attached to one half of the mold formed the perforation. As the pin did not extend all the way to the other side of the mold when it was closed, the narrow end of the perforation was sealed and had to be broken through or ground down after the bead had hardened.

MPI**. Disk; op. black (p; N 1/0). The edges are rough and exhibit a mold seam. The ends (disk faces) are ground flat. Quantity: 1. Photo ID 079, *n* = 1.

MPIIa*. Round (oblate); tsp. apple green (23 ic; 10GY 6/6). The perforation tapers. The glass is crackled. Quantity: 2. Photo ID 080, *n* = 2.

MPIIIa*. Round-faceted; op. black (p; N 1/0). Mold-imparted facets cover the surface. A zigzag mold seam encircles the equator. The perforation tapers. The end with the larger hole has been ground flat. Polished surface (possibly acid polishing). Quantity: 9. Photo ID 081, *n* = 9.

MPIIIa*. Round-faceted, “mandrel-pressed” type; op. black (p; N 1/0). The glass on some specimens appears tsp. rose wine (8 le; 10RP 4/6) on thin edges when held to a strong light. The surface is covered with irregular cut facets. The quality of the grinding varies considerably. On some specimens, the ends are ground as well. Depending on the degree of grinding, the beads range from globular to oblate to irregular bicones. Sections of the original molded surface are visible on some specimens, as are remnants of the mold seam that encircled the middle. The perforation tapers noticeably and the narrow end has been punched through, leaving a depression. Quantity: 38. Photo ID 082a, *n* = 18; Photo ID 082b, *n* = 6; Photo ID 082c, *n* = 1; Photo ID 082d, *n* = 2; Photo ID 082e, *n* = 14. Total = 41.

MPIIIa*. Oblate-faceted, “mandrel-pressed” type; tsp. light gray (c; N 7/0). The surface is covered with irregular cut facets. Remnants of the mold seam that encircled the middle are visible on some specimens. The perforation tapers noticeably and the narrow end has been punched through, leaving a concave depression. Quantity: 9. Photo ID 083a, *n* = 1; Photo ID 083b, *n* = 4. Total = 5.

MPIIIa*. Oblate-faceted, “mandrel-pressed” type; tsp. ruby (8 pc; 2.5R 3/10). The surface is covered with irregular cut facets. The perforation tapers noticeably and the narrow end appears to have been punched through. Quantity: 1. Photo ID 084, *n* = 1.

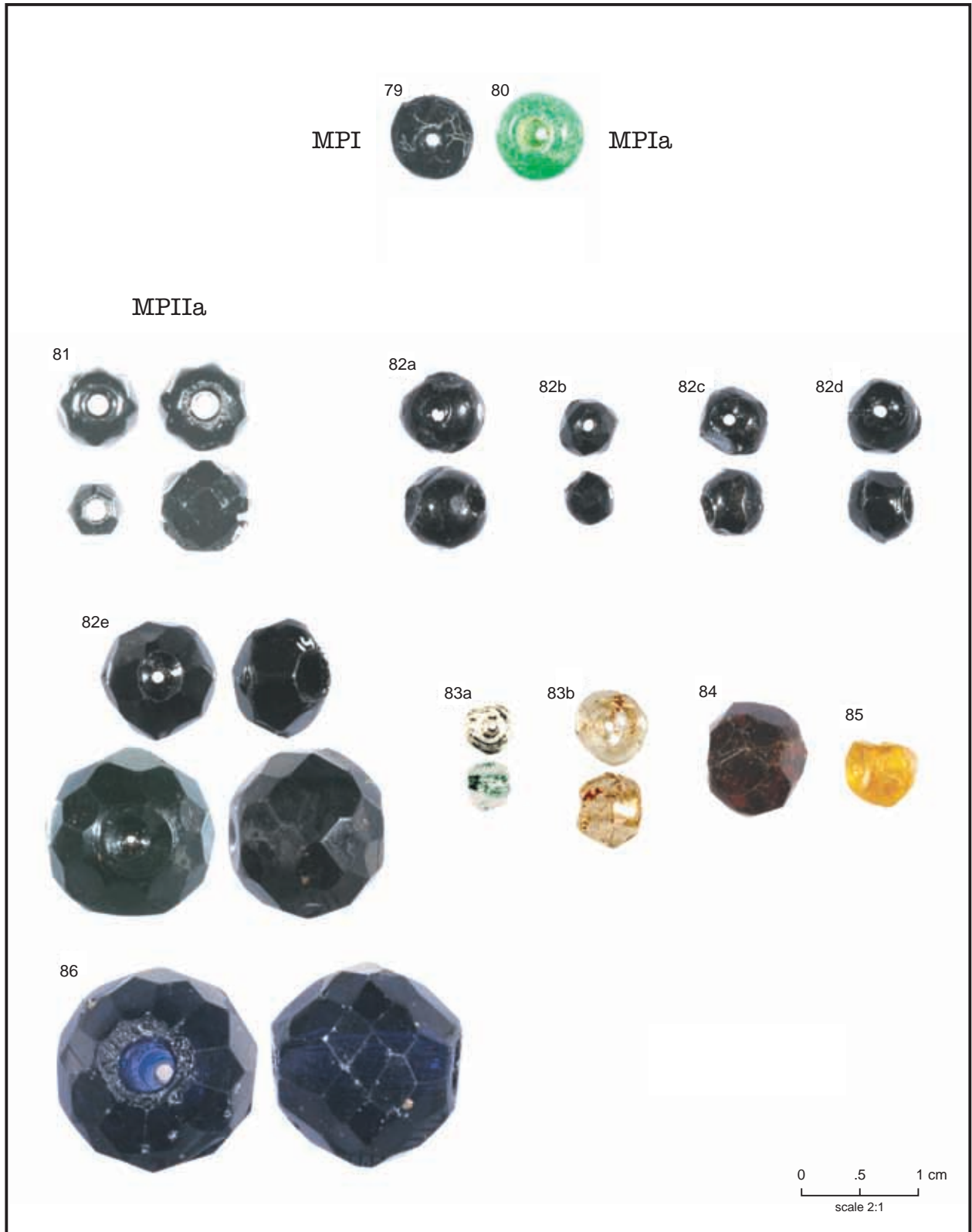


Figure E.5. MPI and MPIa (top, 79–80), and MPIIa-series (bottom, 81–86), mold-pressed glass bead photos organized by type and photo id. number.

- MPIIa*. Oblate-faceted, “mandrel-pressed” type; tsp. amber (3 lc; 10YR 7/8). The surface is covered with mold-impressed facets. A mold seam encircles the middle. The perforation tapers noticeably and the narrow end has been punched through, leaving a concave depression. Quantity: 1. Photo ID 085, $n = 1$.
- MPIIa*. Round-faceted, “mandrel-pressed” type; tsp. dark navy (14 pi; 10B 2/4). The surface is covered with irregular cut facets. The perforation tapers noticeably and the narrow end has been punched through, leaving a concave depression. One or both ends may exhibit grinding. Quantity: 9. Photo ID 086, $n = 9$.
- MPII**. Square-faceted; op. black (p; N 1/0). Each side exhibits four, cut triangular facets. The ends are flat and have beveled edges. The perforation tapers noticeably (mandrel-pressed?) and contains remnants of a ferrous-metal wire. Quantity: 2. Photo ID 087, $n = 2$.
- MPII**. Faceted barrel; op. black (p; N 1/0). The bead has a pentagonal cross-section and is covered with cut facets. The ends are unaltered. The narrow perforation is cylindrical. Quantity: 1. Photo ID 088, $n = 1$.
- MPII**. Faceted barrel; tsp. ruby (8 pc; 2.5R 3/10). Pentagonal cross-section. Facets cover the surface; some are mold-imparted, while others are ground. Remnants of a mold seam encircle the middle. The ends are unaltered. The narrow perforation is parallel sided. Quantity: 1. Photo ID 089, $n = 1$.
- MPII**. Faceted barrel; tsp. amber (3 lc; 10YR 7/8). Pentagonal cross-section. Facets cover the surface; some are mold-imparted, while others are ground. Remnants of a mold seam encircle the middle. The ends are unaltered. The narrow perforation is parallel sided. Quantity: 1. Photo ID 90, $n = 1$.
- MPII**. Round faceted plano-convex; op. black (p; N 1/0). The convex upper face is covered with triangular and quadrilateral ground facets. The base is unaltered. Most of the mold seam that encircled the bead has been ground away. The perforation is parallel sided. Quantity: 4. Photo ID 091, $n = 3$.
- MPII*. Oval tabular-faceted spacer bead; op. black (p; N 1/0). The bead has an oval outline with two parallel flat faces. The upper face is ground smooth; the other is unaltered. The sides expand slightly toward the bottom face and exhibit cut facets. Two narrow, parallel perforations extend from one broad side to the other. Quantity: 1. Photo ID 092, $n = 1$.
- MPII**. Rectangular faceted plano-convex spacer bead; op. black (p; N 1/0). The convex upper face exhibits ground facets. The flat base is unaltered. Much of the mold seam that encircled the bead has been ground away. Two narrow, parallel perforations extend from one broad side to the other. Associated with the following bead variety. Quantity: 1. Photo ID 093, $n = 1$.
- MPII**. Oval portrait spacer bead; op. black (p; N 1/0). The front of this fragmentary bead exhibits the detailed molded torso and chin of a woman draped in a toga-like garment (the upper part of the head and surrounding area are missing). The mold seam that encircled the bead has been partially ground



Figure E.6. MPII-series (87-98) mold-pressed glass bead photos organized by type and photo id. number.

away. The back of the bead is flat and unaltered. Two parallel perforations extend from one side to the other. Associated with the previous bead variety. Quantity: 1. Photo ID 094, $n = 1$.

- MP^{II}*. Rectangular tabular spacer bead; op. black (p; N 1/0). The surfaces are smooth. There is a cut bevel at either end of the upper face. A rough mold seam is present on the two long side. Two narrow, parallel perforations extend from one broad side to the other. Quantity: 1. Photo ID 095, $n = 1$.
- MP^{II}*. Rectangular faceted plano-convex spacer bead; op. black (p; N 1/0). The upper face exhibits elongated quadrilateral ground facets along the edges and triangular facets in the middle. The ends and the sides are ground as well. The flat base is unaltered. Two narrow, parallel perforations extend from one broad side to the other. Quantity: 1. Photo ID 096, $n = 1$.
- MP^{II}*. Rectangular fluted spacer bead; op. black (p; N 1/0). This bead is fragmentary but appears to have had three flutes (two remain) set perpendicular to the long axis. The base is flat. Two narrow, parallel perforations extend from one broad side to the other. Quantity: 1. Photo ID 097, $n = 1$.
- MP^{II}*. Biconvex disc pendant; op. black (p; N 1/0). Both surfaces are covered with ground diamond-shaped facets emanating from the center. The edges have been ground to obliterate the mold seam. The perforation is situated at one edge. Quantity: 1. Photo ID 098, $n = 1$.
- MP^{III}. Teardrop pendant; op. black (p; N 1/0). The suspension end is missing. Quantity: 1. Photo ID 099, $n = 1$.
- MP^{III}. Teardrop pendant; tsp. light gray (c; N 7/0). The suspension end is broken off at the perforation. Quantity: 2. Photo ID 100, $n = 2$.
- MP^{III}. Faceted-teardrop pendant; tsp. amber (3 lc; 10YR 7/8). Elongated cut pentagonal facets extend from the narrow suspension end to the bulbous tip, which is covered with small irregular pentagonal facets. The suspension end is missing. Quantity: 1. Photo ID 101, $n = 1$.
- MP^{III}. Faceted-teardrop pendant; tsp. bright mint green (22 ia; 2.5G 7/8). Elongated cut pentagonal facets extend from the narrow suspension end to the bulbous tip, which is covered with small irregular pentagonal facets. The suspension end is missing. Quantity: 2. Photo ID 102, $n = 2$.

Blown Glass Beads

Blown beads—represented by 18 [18] specimens—were produced by blowing a bubble in a heated glass tube or a small gather of molten glass. As a result, they are all hollow. The bubbles could be free-blown or blown in small molds. The interiors were frequently silvered or covered with colored enamel.

- BI^{**}. Cylindrical; tsp. light gray (c; N 7/0). The ends have been heated and pressed inward to narrow the opening. The bead would have been silvered or colored internally originally. Quantity: 1. Photo ID 103, $n = 1$.
- BI^{**}. Teardrop; tsp. light gray (c; N 7/0). Possibly an earring component or part of a Christmas tree ornament. It would have been silvered or colored internally



Figure E.7. Mold-pressed glass beads (MP-series, top, 99-102) and glass pendant (top right, 128); and blown-glass beads (B-series, bottom, 103-113); photos organized by type and photo id. number.

- originally. Quantity: 1. Photo ID 104, $n = 1$.
- BI***.* Teardrop; op. black (p; N 1/0). Quantity: 1. Photo ID 105, $n = 1$.
- BIIa**.* Round(?); tsp. light gray (c; N 7/0). There is a short projection around the large perforation at the one intact end of this very fragmentary specimen. Probably part of a Christmas tree ornament or garland. It would have been silvered or colored internally originally. Quantity: 1. Photo ID 106, $n = 1$.
- BIIa**.* Round (globular); tsp. light gray (c; N 7/0). These are false pearls and would have been silvered or colored internally originally. Quantity: 8. Photo ID 107, $n = 8$.
- BIIa**.* Round (globular); tsl. white (a; N 9/0). This is probably a false pearl. Quantity: 1. Photo ID 108, $n = 1$.
- BIIa**.* Round (globular); op. robin's egg blue (16 ic; 5B 6/6). Quantity: 1. Photo ID 109, $n = 1$.
- BIIc**.* Oval (olive-pit shaped); tsp. light gray (c; N 7/0). Probably colored on the interior originally. Quantity: 1. Photo ID 110, $n = 1$.
- BIIc**.* Ovoid; op. black (p; N 1/0). The glass appears tsl. rose wine (8 le; 10RP 4/6) on thin edges when held up to a strong light. Quantity: 1. Photo ID 111, $n = 1$.
- BIIc**.* Oval; tsl. white (a; N 9/0) with a satin sheen. Quantity: 1. Photo ID 112, $n = 1$.
- BII***.* Faceted-teardrop; op. black (p; N 1/0). The glass appears tsl. rose wine (8 le; 10RP 4/6) on thin edges when held up to a strong light. The tapering portion exhibits elongated ground facets. The bulbous end is smooth. A couple of ground facets are situated between the ends of the elongated facets adjacent to the bulbous end. The suspension end is missing. Quantity: 1. Photo ID 113, $n = 1$.

PROSSER-MOLDED BEADS

In the manufacture of Prosser-molded beads, 53 [53] of which were encountered, a powdered mixture of sand, feldspar, and calcium fluoride, made plastic with milk, was pressed into shape in gang molds. The beads were then placed on a metal sheet and fired in an oven. Depending on the relative frequency of the constituents, the beads may range from translucent and glass-like to opaque and resembling porcelain. First applied to the manufacture of buttons, the process was patented by Richard Prosser in 1840.

- PM****.* Round (sub-globular); tsl. white (a; N 9/0). One end is smooth, the other is slightly pebbled. Quantity: 37. Photo ID 114, $n = 37$.
- PM****.* Round (oblate with a basal bulge); op. white (a; N 9/0). The material has the appearance of unglazed porcelain. A distinct mold seam encircles the basal bulge. The area around the perforation is ragged. The base is relatively smooth. Quantity: 7. Photo ID 115, $n = 7$.
- PM****.* Round (oblate); op. amber (3 lc; 10YR 7/8). The bead exhibits a pearly glossy glaze. There is a slight equatorial mold mark. One end is smooth, the other is

slightly pebbled. Quantity: 1. Photo ID 116, $n = 1$.

PM***. Round (globular); op. bright Dutch blue (13 la; 7.5PB 4/11). A distinct mold seam encircles the equator. The beads are mounted on yellow-metal links and represent a rosary. Quantity: 6. Photo ID 117, $n = 6$.

PM***. Barrel-shaped; op. aqua blue (18 gc; 2.5B 6/4). Shiny surface. One end is pebbled. Quantity: 1. Photo ID 118, $n = 1$.

PM***. Barrel-shaped; op. orchid mist (9 ec; 2.5B 6/4). A faint mold seam encircles the equator. One end is pebbled. Quantity: 1. Photo ID 119, $n = 1$.

STONE BEADS

There are 3 stone beads: 2 of amber and 1 of agate (carnelian).

Amber. Oblate. The curved surfaces of the bead are polished; the ends less so. The area at the juncture of the sides and ends exhibits distinct wear. Drilled parallel-sided perforation. Quantity: 1. Photo ID 120, $n = 1$.

Oblate-faceted. The bead has an oval outline viewed from the end. The curved surfaces exhibit cut rhombic and quadrilateral facets. The ends are uneven and the perforation is parallel sided. Quantity: 1. Photo ID 121, $n = 1$.

Carnelian. Round (globular?). Banded reddish (ca. 6 pg; 10R 3/8) carnelian. Very fragmentary. The drilled perforation appears to have been cylindrical and the one intact end has a slightly larger drill starter hole around it. Quantity: 1. Photo ID 122, $n = 2$ (probably from the same bead).

WOOD BEADS

Oblate. These are probably lathe turned. One specimen bears traces of blue paint. Probably from a child's toy or an abacus. Quantity: 4. Photo ID 123, $n = 4$.

BONE BEADS

Round (oblate). Both examples exhibit a slight equatorial ridge. These are probably lathe turned. Quantity: 2. Photo ID 124, $n = 2$. One is a bone bead (Photo ID 124 - Bone), while the second appears to be an ivory bead (Photo ID 124 - Ivory).

CLAY BEAD

Round (globular); mottled gray. What appears to be a mold seam encircles the equator. Quantity: 1. Photo ID 125, $n = 1$.

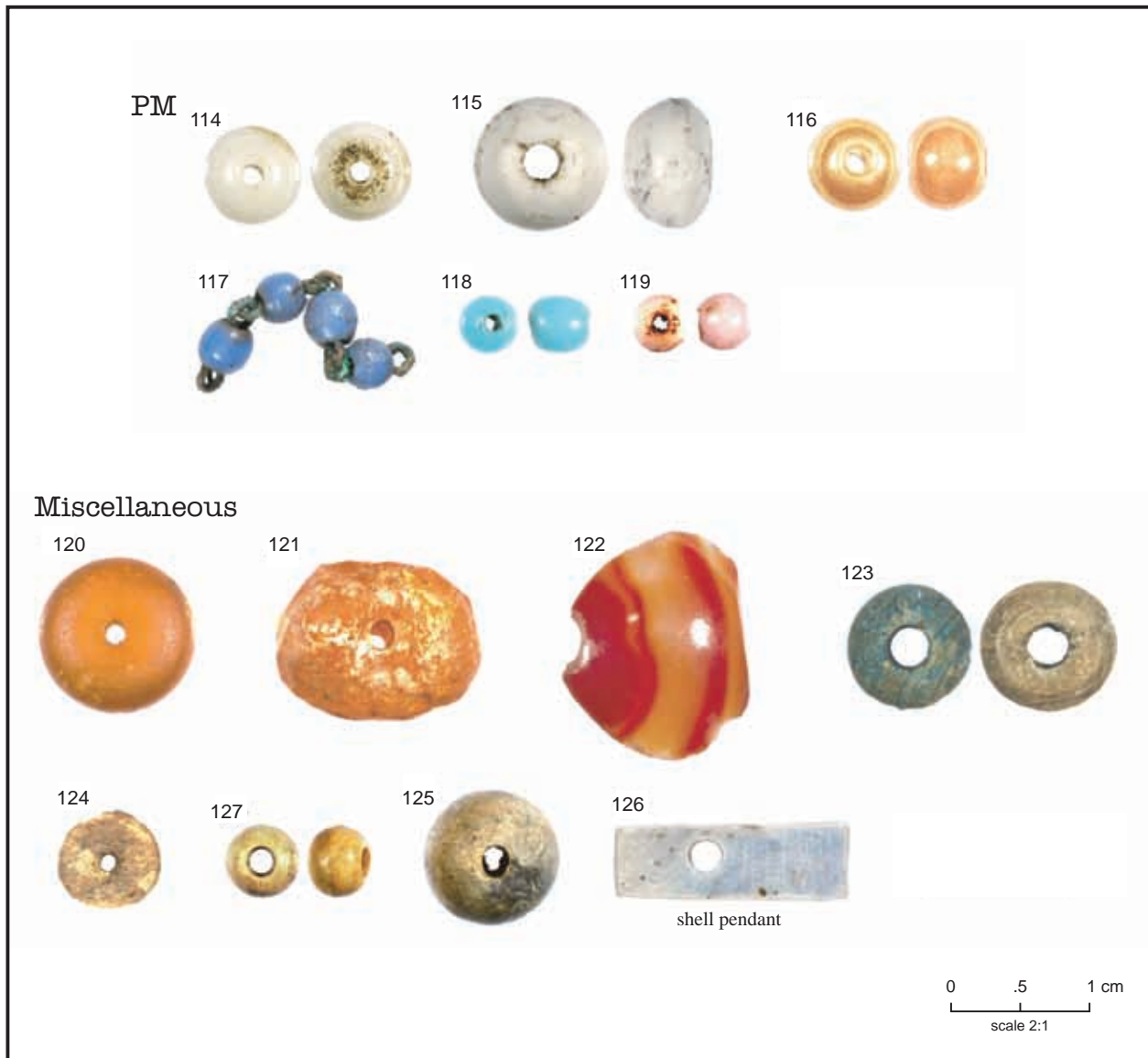


Figure E.8. Prosser-molded glass beads (PM-series, top, 114–119) and a small group of miscellaneous beads (bottom), made of amber (120–121), carnelian (122), wood (123), bone (124, 127), and clay (125), and a shell pendant (126); photos organized by type and photo id. number.

PENDANTS

Shell. Rectangular mother-of-pearl pendant with a hole at one end. Quantity: 1.
Photo ID 126, $n = 1$.

Glass. Monochrome, Teardrop, Light Purple (5 PB 6/8) Furnace-worked Glass
Pendants (Photo ID 128, $n = 2$)

Manufactured from a molten gather of glass that was shaped with a paddle then twisted to remove the pendant from the gather. Prior to cooling, the perforation was formed by inserting wires or rods partially into the glass from both sides.

DISCUSSION

The excavations conducted on Blocks 4, 5, 7, 9, 10, and 11 produced a wide variety of beads and pendants, as one might expect at a major metropolitan center. Notwithstanding, the bulk of the collection consisted of small drawn circular beads (Types IIa and IVa), called seed beads, and generally used in embroidery. It is likely that the small tubular specimens—especially varieties Ia2, Ic* black pentagonal, and Ic4—served a like purpose. Also of note is the fact that the preponderance of these beads are black in color, which is quite in keeping with the fashion trends of the time, when ladies preferred dark colors for their garments and accessories. It must be mentioned, however, that many of these same beads were also used to produce a myriad of ornamental items and beaded appliqués to further enhance milady's appearance.

The thin-walled, polyhedral tubular beads of Types Ic, If, IIIc, and IIIf, being light in weight, were used for such things as bell pulls, hanging baskets, tassels on decorative pillows, and the like. The thicker ones were popular for table mats. The longer forms, such as examples of varieties Ia2, Ia4, and Ic4 that are ca. 1 in. or 2.5 cm in length, were also used in lamp fringe. In cases where a sturdy form was required, the beads were mounted on wire, as in the case of some of the Ic, If, and IIIc varieties from Privy 1301 on Block 4.

Wound beads were commonly utilized in the formation of necklaces as well as rosaries. Those used in the latter instance can be identified by the presence of copper-alloy wire or links in the perforation. Examples of the latter include a black WIb bead from Privy 806 on Block 10, a light-gray (WIb1) bead from Privy 507 on Block 5, and a terra cotta WIb bead from Cesspool 13 on Block 9. Black beads were again well represented, comprising about half the wound bead assemblage.

The mold-pressed beads are mostly black and would have found their principal use in necklaces and bracelets. The two-hole spacer beads were intended to keep strands of smaller beads apart. The distinctive faceted-barrel beads were a common component of lamp fringe.

Blown beads, being light due to their hollow nature, were ideal for necklaces as well as ornaments for the ears, hair, garments, and countless other purposes. The BIa* tsp. light-gray and tsl. white specimens are false pearls and would have been silvered or otherwise colored internally and then filled with wax to anchor the colorant. Some of the other specimens—such as the light-gray teardrop (WI**) from Privy 808 on Block 10, and the fragmentary round(?) light-gray specimen from Cesspool 13 on Block 9—may be from Christmas ornaments.

The Prosser-molded beads are of forms that are primarily suited for use in necklaces and rosaries. The presence of a graduated series of the tsl. sub-globular white specimens, with a yellow-metal cap on one in Privy 857 on Block 10 corroborate the former use. The op. bright Dutch blue specimens on yellow-metal links from St. Mary's Hospital on Block 7 clearly come from a rosary.

Non-glass beads are few, with only 11 specimens being recovered. The amber and carnelian beads are all from necklaces. The two bone beads may well be from rosaries. The wooden beads may be from a child's toy or from an abacus. The shell pendant clearly would have served some ornamental purpose, but the probable use of the single clay bead remains a mystery.

As research has generally concentrated on beads from earlier sites in North America, relatively little is known about the date ranges of beads during the late 19th and early 20th centuries. Coming from relatively tightly dated contexts with known cultural affiliations, the beads recovered during the San Francisco–Oakland Bay Bridge West Approach Project go a long way to help alleviate this situation.

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Table E-1. Bead Photo Catalog – West Approach Project

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO
			Karklins's ID	Photo ID			
BLOCK 4							
416 Folsom Street	Privy 1300	Samuel family, Poland, (Jewish), tailor and Smith family, Pennsylvania, engineer, mid 1880s	Ic*	005	1	1448-191	yes
			Ic4	006	1	144-94	
					1	1447-58	yes
					1	1448-138	
			Ic*	007	1	1447-56	
					2	1448-179	
					9	1451-187	yes
					1	1451-188	
			Ic*	009	1	1448-182	yes
			Ic*	010	1	1444-95	yes
					2	1451-186	yes
			If*	015	1	1450-215	yes
			If3	016	1	1447-54	yes
			Ila7	022	1	1446-276	
					1	1447-59	
					1	1448-139	yes
					12	1448-186	
					1	1450-221	
					3	1451-184	yes
					6	1452-113	
			Ila*	023	1	1444-93	
					1	1450-230	
					1	1452-111	
					1	1452-112	yes
			Ila14	025	1	1448-193	yes
					1	1451-189	yes
			IIf*	041	1	1445-52	
			IIIf*	042	1	1448-179	
					8	1451-187	yes
			IIIf*	043	1	1447-53	
					1	1450-216	
					4	1451-185	yes
					1	1452-129	
			Iva*	050	1	1452-114	yes

Table E-1. Bead Photo Catalog – West Approach Project (continued)

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO	
			Karkkinn's ID	Photo ID				
BLOCK 4 (continued)								
416 Folsom Street	Privy 1300	Samuel family and Smith family (continued)	IVb*	051	1	1447-55		
					9	1448-190	yes	
			WId*	072	1	1448-140	yes	
					1	1451-190		
			(not MPII** on tag)	MPIIa*	082a	1	1444-96	yes
					082b	2	1448-183	yes
					082c	1		yes
					082d	1		yes
					082e	1	1448-192	yes
			(not MPII** on tag)	MPIIa*	083a	1	1448-185	yes
091	1	1448-141			yes			
107	1	1448-197			yes			
124	1	1448-196			yes			
053	17	1439-91						
414 Folsom Street	Privy 1316	McEvoy family, Ireland, (Catholic), furniture maker, October 1868 earthquake	WIIe*	077	1	1437-77		
					1	1439-92		
					1	1423-55	yes	
					3	1423-53		
					5	1425-90		
					1	1425-90		
					3	1424-057		
					13	1425-90	yes	
					2	1424-57		
					7	1425-90	yes	
412 Folsom Street	Privy 1301	Taylor family, Ireland, (Catholic), porter, October 1868 earthquake	Ia2	001	1	1423-55		
					3	1423-53		
					5	1425-90		
					1	1425-90		
					3	1424-057		
					13	1425-90	yes	
					2	1424-57		
					7	1425-90	yes	
					2	1424-57		
					6	1425-90	yes	
			Ic*	011	1	1424-57		
					11	1425-90		
					2	1425-90	yes	
					1	1422-84		
					2	1422-88		
			IIa7	022	1	1423-54		
					1	1425-86		
					4	1427-173		
					2	1425-90	yes	
					1	1422-84		

Table E-1. Bead Photo Catalog – West Approach Project (continued)

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO
			Karkkinn's ID	Photo ID			
BLOCK 4 (continued)							
412 Folsom Street	Privy 1301	Taylor family (continued)	Ila*	023	1	1422-94	
			Ila14	025	1	1422-110	
			IIIfl	044	1	1428-255	
					1	1430-78	
					2	1424-57	
					9	1425-90	yes
					1	1425-84	yes
					1	1425-89	yes
					1	1422-85	yes
					1	1427-147	yes
					1	1425-85	yes
					1	1425-87	yes
					1	1428-296	yes
9 Baldwin Court	Privy 1310	McSheffrey family, Ireland, laborer, early 1870s	If1	013	1	1490-157	yes
11 Baldwin Court	Privy 1318	Murphy family, Ireland, (Protestant), laborer, dressmaker, early 1880s	Ia2	001 (grooved)	1	1520-197	yes
			If2	014	1	1526-105	yes
					1	1529-184	yes
			Ila14	025	1	1519-49	
					1	1519-50	
					1	1526-108	
					1	1529-186	
					1	1526-107	
					1	1527-177	
					1	1529-185	
13 Baldwin Court	Privy 1305	Fuchs family, France, (Protestant), carpenter and Cadigan family, Ireland, (Catholic), stevedore, early 1880s	Amber	120	1	1526-106	yes
			Ila7	022	1	1473-1	
					1	1484-10	
			III*	046	1	1493-59	yes
			WIc*	069	1	1493-58	yes
			Ila7	022	2	1501-79	
					1	1502-119	
Privy 1307		Brown family, Ireland, laborer, early 1870s	Ila14	025	4	1497/98-44	
					6	1501-83	
			WIbI*	053	1	1496-51	

Table E-1. Bead Photo Catalog – West Approach Project (continued)

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO
			Karkkinn's ID	Photo ID			
BLOCK 4 (continued)							
13 Baldwin Court	Privy 1307	Brown family (continued)	W1b1	054	1	1502-120	yes
			PM***	114	1	1509-22	yes
19 Baldwin Court	Privy 1304	Unidentified residents, mid 1890s	IVa14	025	1	1433-16	
			III*	047	1	1435-81	yes
242 Fremont Street	Privy 1322	Hurley family, Ireland, laborer and Conniff family, Australia, (Catholic), fireman, late 1880s	Ila7	022	1	1547-52	
			Ila14	025	1	1547-52	
			Ila*	027	1	1547-52	yes
			IIIfl	044	1	1547-52	
			W1b*	053	1	1547-52	
240 Fremont Street	Privy 1326	Amanda Scales, Pennsylvania widow and tenants, clerk, machinist, tailor, stevedore, and seamen, mid-1870s	Ia2	001	2	1568-178	
			Ila7	022	4	1568-178	
			Ila*	039	2	1568-178	yes
			IIIfl	044	1	1568-170	
					1	1573-163	
			IVa*	049	1	1568-171	yes
236 Fremont Street	Privy 1333	Dougherty family, Ireland, longshoreman, early 1890s	Ia2	001	1	1584-418	
			Ic4	006	2	1584-306	yes
			I*	015	1	1583-138	
			I*	019	1	1583-139	
					5	1584-309	yes
			Ila7	022	1	1583-177	
			IIIfl	044	1	1587-11	
			III*	047	2	1584-309	
			W1b*	053	1	1583-137	
					1	1584-317	
					4	1585-82	
			W1b2	055	1	1584-315	
			W1b*	062	1	1584-310	
			MP1Ia*	082a	1	1584-308	
			(not MP1I** on tag)				

Table E-1. Bead Photo Catalog – West Approach Project (continued)

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO
			Karklins's ID	Photo ID			
BLOCK 5 540 Folsom Street	Privy 507	Jonathan Peel Sr. family, England, (Protestant), merchant, early 1870s	Ia2	001	7	633-68	yes
					2	644-30	
			Ic4	006	56	668-61	
					1	668-82	
					1	633-67	
					1	644-31	
					4	668-57	
					4	633-74	
					1	643-22	
			Ic*	008	1	633-74	
					2	633-74	
			If1	013	2	668-57	yes
					3	633-73	
			IIa7	022	79	633-79	
					6	643-21	
					1	643-23	
					15	644-39	
					6	651-184	
					1	665-15	
					1	667-39	
					1	668-56	
					414	668-64	
					1	669-37	
1	670-24						
49	633-72						
1	633-73						
9	643-20						
8	644-26						
1	644-27						
2	651-179						
4	633-78						
3	643-20						
2	644-27						
IIa14	025	1	633-71	yes			
		2	644-27				
		2	644-27				
IIa*	028	1	633-71	yes			
		2	644-27	yes			
		1	644-27	yes			

Table E-1. Bead Photo Catalog – West Approach Project (continued)

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO			
			Karklins's ID	Photo ID						
BLOCK 5 (continued)										
540 Folsom Street	Privy 507	Jonathan Peel Sr. family (continued)	Ila*	032	1	633-73	yes			
			Ila56	038	1	668-55	yes			
			Ila*	039	1	633-73				
			III*	045	1	633-70	yes			
			WIIb*	053				5	633-75	
								1	633-86	
								1	651-183	
								1	666-4	
								1	668-45	
					1	668-46				
					1	669-35				
			WIIb1	054	1	668-60				
			WIIb*	062	2	633-61	yes			
			MPII**	079	1	668-83	yes			
			MPIIa* (not MPII** on tag)	082a	1	633-66				
			MPII**	087	1	633-85	yes			
			MPII** (not MP*** on tag)	093	1	633-84	yes			
BIc*	111	1	668-62	yes						
Ivory	127	1	633-76	yes						
Ic4	006	1	684-41							
		1	686-14							
Ic*	007	1	684-39							
		4	686-13							
Ila7	022	13	686-15							
Ila*	023	1	684-41							
		2	686-10							
546 Folsom Street	Privy 505	Mayne household, Louisiana, ship's carpenter, and O'Connor family, Canada, sawyer, ca. 1880	Ia2	001	1	627-149				
			Ia19	004	1	622-74	yes			
			Ic*	005	1	620-61				
			Ila*	023	1	618-12				

Table E-1. Bead Photo Catalog – West Approach Project (continued)

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO
			Karklins's ID	Photo ID			
BLOCK 7							
	Trench 722	St. Mary's Hospital	Ic4	006	1	703-147	
			Ila14	025	1	703-146	
			Wlb2	055	1	702-82	
			MPIIa* (not Wlb* on tag)	059	1	702-91	Yes
			Wlb*	065	1	703-127	Yes
			MPII**	089	1	703-125	Yes
			MPII**	090	1	702-92	Yes
			PM***	117	6	703-136	Yes
			PM***	118	1	703-126	Yes
BLOCK 9							
20 [35] Perry Street	Well 17	Depression-era flats, Esther Duggan, New York, Clerk, Gonzales family, Hawaii, laborer, and Athenoropoulos family, Greece, boilermaker, early 1930s	PM***	119	1	256-263	yes
20 [35] Perry Street	Privy 9	Usher household, Maryland, sail maker, detective, bank porter, and dressmakers, early 1880s	Ia2	001	2	208-315	
			Ic4	006	1	208-315	
			Ila7	022	5	208-308	
			Ila12	024	1	208-306	yes
			Ila56	038	1	208-314	
			IIIfl	044	1	208-303	
			Wlb*	053	2	208-310	
					1	209-201	
			Wlc*	066	2	208-309	yes
			Wld*	072	1	208-313	
					1	249-52	
			MPIIa** (not MPII** on tag)	083b	1	208-311	
			MP***	100	1	209-190	yes
			PM*** (not MP*** on one tag)	115	6	208-305	yes
					1	249-51	
16 [37] Perry Street	Well 8	Rowe household, New Jersey, shipwright, mid 1880s	Ila12	024	1	233-26	yes
			IIIfl	044	12	267-115	
			Wlb*	053	1	262-35	
			Carmelian	122	1	262-28	yes
					1	262-29	

Table E-1. Bead Photo Catalog – West Approach Project (continued)

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO
			Karkkinn's ID	Photo ID			
BLOCK 9 (continued)							
14 [39] Perry Street	Privy 2	Johnson family, California seaman, early 1880s	WIb16	063	1	189-112	
			MP11**	091	1	188-65	yes
			BIa*	108	1	182-59	yes
12 [41] Perry Street	Well 6	Hannan family, Ireland, (Catholic), boilermaker, and Dent family, Alabama, widow, ca. 1896	Ia2	001	1	289-41	
			Ic4	006	1	296-219	
			IF1	013	1	292-140	
					1	293-169	
			IF5	017	1	199-83	yes
					1	292-142	yes
			IF*(?)	020	1	206-67	yes
			Ila7	022	1	291-86	
					1	293-166	
					1	296-218	
			Ila*	023	1	293-170	
			Ila14	025	1	293-168	
			IIIc*	042	1	291-88	
			IVa6	048	1	199-82	yes
			W1b*	053	1	199-81	
					3	201-67	
					15	206-61	
					1	206-68	
					1	290-59	
					1	291-75	
					1	291-90	
					1	293-162	
					1	293-165	
					1	293-167	
			WIb16	063	1	198-59	
			W1d*	072	3	198-58	
					1	199-84	
					3	200-49	
					1	201-66	
					5	206-63	
					1	289-40	
			W1d*	073	1	290-60	yes

Table E-1. Bead Photo Catalog – West Approach Project (continued)

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO
			Karklins's ID	Photo ID			
BLOCK 9 (continued)							
12 [41] Perry Street	Well 6	Hannan family and Dent family (continued)	MPIIa* (not MPII** on tag)	085	1	291-87	yes
			PM***	114	1	291-89	
			Amber	121	1	292-141	
			Wood	123 - Wood	4	201-65	yes
			Shell	126	1	296-220	yes
			Ia2	001	1	206-66	yes
					1	297-304	
			Ic4	006	1	301-201	
			Ic*	008	1	297-139	
			Ic13	011	1	301-197	yes
423 Third Street	Cesspool 13	Henry Knoche Grocery Store, Prussian, mid 1880s	If1	013	1	301-194	
			If*	018	6	301-198	
						297-296	
					3	301-193	
			Ila7	022	4	297-138	
			Ila*	023	2	297-137	
			Ila14	025	4	297-243	
					2	297-244	
					1	301-141	
					2	301-202	
			Ila*	028	1	297-141	
			Ila*	033	1	297-135	yes
			Ila*	034	5	297-134	yes
			WIb*	053	6	297-300	
			WIb*	058	1	301-109	yes
			WIc*	066	1	301-200	
			WIc*	072	2	297-302	
					2	301-196	
			WIc*	073	1	301-139	
			MPIIa*	082a	1	297-142	
			MPIIa*	082d	3	301-199	
			MPIIa*	082d	1	301-199	
			Bla*	106	1	301-111	yes
			BIC*	112	1	301-129	yes

Table E-1. Bead Photo Catalog – West Approach Project (continued)

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO			
			Karkkinn's ID	Photo ID						
BLOCK 9 (continued)										
423 Third Street	Cesspool 13	Henry Knoche Grocery Store (continued)	Furnace-worked Glass Pendant	128	1	297-257	yes			
64 Silver Street	Privy 1	Silver Street Kindergarten, mid 1880s	Ila7	022	1	301-217	yes			
			Ila*	023	1	170-113				
			Ila*	026	1	148-16				
			Wlb*	053	1	148-17				
			Wlb11	060	1	191-7				
			Wlc*	066	2	179-29				
			Wlc5	068	1	180-21				
			Wld*	073	1	180-19	yes			
			MPll**	088	1	191-5				
			MPl***	095	1	148-18	yes			
						095	1	191-06	yes	
						Ia2	001	5	251-192	
						Ic4	006	1	251-193	
			Ic*	007	1	251-97				
			Ila7	022	5	251-196				
			Ila*	023	4	251-194				
			Iva*	049	1	251-181				
			Wlb*	053	4	251-180				
					1	265-48				
			Bl**	104	1	251-198	yes			
			BlA*	107	1	251-199	yes			
			PM***	114	1	251-190				
BLOCK 10										
137-139 Perry Street	Privy 810	Monahan family, Ireland, saloon keeper, and Thomas Griffin, Ireland, ship's fireman, late 1870s	Wld*	073	1	964-101				
133 Perry Street	Privy 813	Mary Moymihan, Ireland, (Catholic), washwoman, and Collins family, Ireland, barber, late 1870s	Ila7	022	9	1002-149				
			Wlb*	053	1	1019-39				
			Wld*	072	1	1002-142				
131 Perry Street	Privy 814	Aaron family, Poland, (Jewish), peddler, barber, mid 1870s	Wlb16	063	1	1044-52				
			Wlc*	071	1	1042-41				
129 Perry Street	Privy 812	Malony family, Ireland, stock dealer, Hill Family, Canada, machinist, and Towne family, Massachusetts, (Protestant), railroad clerk, ca. 1880	Ia2	001	2	1007-341				
			Ia3	002	7	1007-343				
					1	1007-218				
					1	1009-35				

Table E-1. Bead Photo Catalog – West Approach Project (continued)

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO		
			Karklins's ID	Photo ID					
BLOCK 10 (continued)									
129 Perry Street	Privy 812	Malony family, Hill family, and Towne family (continued)	Ic*	005	1	1007-341			
			Ic*	012	1	1007-343			
			If3	013	1	1007-224			
			Ila7	022	8	1007-225			
					1	1007-219			
					1	1007-340			
					3	1007-342			
					3	1007-339			
					3	1007-345			
					1	1007-223			
					2	1007-344			
					3	1007-219			
					1	1005-29			
					2	1007-220	yes		
					1	1007-221	yes		
					2	1007-236	yes		
					2	1007-222	yes		
						078 (050, stained)			
						083b	1	1007-228	
						MPIIa* (not MPII** on tag)			
			MPII** (not MP*** on tag)	092	1	1007-230	yes		
			MPII** (not MP*** on tag)	094	1	1007-232	yes		
			MPII** (not MP*** on tag)	096	1	1007-231	yes		
			Bla*	109	1	1007-226	yes		
			Bic*	110	1	1007-237	yes		
			PM***	114	1	1007-227			
					1	1009-36			
			Ia2	001	4	1011-426			
			Ic*	005	1	1011-604			
			Ic4	006	5	1011-806			
					1	976-110			
					2	1011-430			
					1	1011-528			
					3	1011-604			
125-127 Perry Street	Privy 806	Mclver family, Scotland, stevedore; and Martin family, England, (Jewish), merchant; also polisher, box maker, seamstresses, frame-maker, and clerk; ca. 1880							

Table E-1. Bead Photo Catalog – West Approach Project (continued)

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO			
			Karklins's ID	Photo ID						
BLOCK 10 (continued)										
123 Perry Street	Privy 807	Gee family (continued)	W1b*	053	1	995-104				
			W1b16	063	1	993-83				
			W1d*	072	1	1032-53				
			MP1a*	080	2	1014-42	yes			
			MP11a*	082a	1	995-107				
			MP11a*	086	1	993-48				
			MP***	099	1	995-111	yes			
			B1a*	107	2	995-110				
			PM***	114	14	995-112				
					1	1014-41				
					064	1155-87				
			115 Perry Street	Privy 849	Strauss family, Germany, (Jewish), butcher, upholsterer, merchant, early 1870s	W1b*	064	1	1155-87	
			109-111 Perry Street	Privies 857/858	Dolan family, Ireland, (Catholic), shipping clerk, and Michelson family, Norway, sea captain, ca. 1880	Ia2	001	5	1189-363	
								1	1192-11	
		1				1213-19				
Ic*	005	1				1189-363				
		1				1213-25				
Ic4	006	3				1189-358				
Ic*	007	6				1189-348				
		2				1189-349				
		1				1192-10				
If2	014	2				1189-348				
I1a7	022	11				1189-370				
		35				1189-371				
I1a*	023	1				1189-366				
		4				1189-367				
		8	1189-372							
		4	1189-369							
		2	1189-373							
		033	1189-368							
		037	1189-347							
		048	1213-35							

Table E-1. Bead Photo Catalog – West Approach Project (continued)

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO
			Karklins's ID	Photo ID			
BLOCK 10 (continued)							
109-111 Perry Street	Privies 857/858	Dolan family and Michelson family (continued)	W1b*	053	4	1189-350	
					9	1189-354	
			W1b11	060	5	1189-355	
					2	1189-347	
					1	1202-28	
			W1c*	066	5	1213-24	
					1	1189-356	
			W1c*	067	1	1189-352	yes
			W1d*	072	2	1189-382	
			MP11a* (not MP11** on tag)	082a	1	1189-365	
					4	1189-353	
			MP11a* (not MP11** on tag)	082b			
			MP11a* (not MP11** on tag)	082e	10	1189-344	
			MP11a* (not MP11** on tag)	086	1	1189-345	
PM***	114	5	1189-346				
		2	1189-359				
Ceramic Bead	125	1	1189-357				
W1b*	053	1	940-51				
W1b16	063	1	926-87				
MP11a*	081	1	922/926-97				
		1	926-86				
MP11a*	082e	1	931-120				
PM***	114	1	940-52				
1a2	001	2	1026-335				
		1	1028-15				
1a3	002	1	1026-325				
1a5	003	1	1026-338	yes			
1c*	005	4	1026-318				
1c4	006	2	1026-334				
1c*	007	3	1026-323				
1f2	014	1	1026-330				
11a2	021	3	1026-320	yes			
11a7	022	4	1026-332				
		3	1026-328				
142 Silver Street	Privy 801	Sheridan family, Ireland, (Catholic), teamster, late 1880s					
120 Silver Street	Privy 808	Schreiner family, Germany, barkeeper, Johnson family, Denmark, saloon keeper, Degnan family, Ireland, laborer, and McIntyre family, Ireland, steward, ca. 1882					

Table E-1. Bead Photo Catalog – West Approach Project (continued)

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO
			Karklins's ID	Photo ID			
BLOCK 10 (continued)							
120 Silver Street	Privy 808	Schreiner family, Johnson family, Degnan family, and McIntyre family (continued)	Ila*	023	10	1026-321	
					1	1026-327	
			Ila12	024	2	1026-317	
			Ila14	025	6	1026-317	
			Ila6	048	1	1026-337	
			Wlb*	053	6	1026-319	
					1	1026-331	
			Wlb12	061	1	2027-148	yes
			Wlb16	063	1	1026-326	
			Wlc*	071	1	1017-147	
			Wld*	073	1	1026-329	
			MPIIa*	082a	1	1017-150	
			(not MPII** on tag)		1	1026-333	
			BI**	103	1	1026-324	yes
			BI**	105	1	1026-240	yes
Bla*	107	1	1026-322				
BIf** (not B*** on tag)	113	1	1017-151	yes			
PM***	114	1	1017-149				
		1	1026-336				
114 Silver Street	Privy 851	Metcalf family, Germany, sea captain, ca. 1880	Wlc*	070	1	1163-22	yes
112 Silver Street	Well 866	McDonald family, Ireland, laborer, and Tobin family, New York, (Catholic), bookkeeper, also dressmaker and salesman, mid to late 1880s	Ia2	001	2	1272-125	
			Ic*	005	1	1272-125	
			Ic*	007	1	1272-15	
			Ic13	011	1	1269-130	
			Ila7	022	1	1272-124	
			Ila*	023	1	1272-123	
			Ila*	030	1	1270-119	yes
			Ila41	035	1	1269-129	
					1	1272-22	yes
					1	1270-120	yes
		1	1270-118				
		1	1267-89				
		1	1266-59				
		3	1269-133	yes			
		1	1272-6	yes			

Table E-1. Bead Photo Catalog – West Approach Project (continued)

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO
			Karklins's ID	Photo ID			
BLOCK 10 (continued)							
112 Silver Street	Well 866	McDonald family and Tobin family (continued)	MPIIa*	082a	2	1270-115	
			MPIIa*	082e	1	1269-133	
			MPIIa*	084	1	1270-116	yes
			MPIIa*	086	1	1270-117	yes
			MPIII**	098	1	1267-87	yes
			Bla*	107	1	1269-131	
			PM***	116	1	1269-132	yes
			Ia2	001	1	1257-124	
			Ic*	007	1	1258-53	
			Ila7	022	1	1259-74	
			Ila14	025	1	1252-121	
					1	1265-96	
					1	1265-93	yes
					1	1265-95	
		1	1265-95				
		1	1257-112				
		1	1257-130				
		1	1265-97				
		1	1265-98				
		1	1265-99				
		1	1258-107	yes			
		1	1257-113				
		1	1258-100	yes			
		1	1260-101				
		1	1257-114	yes			
		1	1258-53	yes			
BLOCK 11							
207-209 Perry Street	Privies 1600/1601	Donnelly family, Ireland, blacksmith, and Beal family, Scotland, gold Miner, ca. 1880	Ia3	002	1	1656-264	
			Ic4	006	2	1651-171	
					1	1654-209	
			Ic*	007	1	1656-266	
			Ic*	008	1	1653-176	
					1	1656-267	
		1	1656-268				
		1	1653-175				
		2	1654-208				
		1	1658-46				

Table E-1. Bead Photo Catalog – West Approach Project (continued)

ADDRESS	FEATURE	ASSOCIATION	BEAD VARIETY IDS		QUANTITY	CATALOG NUMBER	PHOTO
			Karklins's ID	Photo ID			
BLOCK 11 (continued)							
207-209 Perry Street	Privies 1600/1601	Donnelly family and Beal family (continued)	I1a	013	1	1655-213	
			I1a7	022	2	1651-176	
					3	1652-118	
					6	1654-207	
					6	1655-204	
					1	1656-260	
					1	1662-52	
					2	1655-205	
					1	1656-260	
					1	1656-265	
					1	1662-80	
					1	1660-96	yes
					1	1661-61	yes
					1	1651-175	
					5	1652-119	
					1	1653-177	
					1	1654-210	
					2	1655-214	
					1	1655-216	
					1	1662-54	
		5	1654-206				
		5	1656-240				
		1	1660-95				
		2	1655-206				
		1	1655-212				
		1	1656-258				
		1	1651-169				
		1	1653-178				
		1	1651-169				
		1	1656-262				
		(not MPII** on tag)	100	1	1656-263		
		MPI***	102	2	1655-228	yes	
		PM***	114	1	1656-261		
Total Number of Beads and Pendants					2,036		

**Table E-2. Bead Photo Catalog Variety Totals by Provenience – West Approach Project
(Lester Ross, May 2007)**

Photo ID	Block	Feature	Quantity	Variety Totals
001	4	Privy 1318	1	
	4	Privy 1301	1	
	4	Privy 1333	1	
	4	Privy 1326	2	
	5	Privy 505	1	
	5	Privy 507	66	
	9	Privy 9	2	
	9	Well 6	1	
	9	Privy 7	5	
	9	Cesspool 13	2	
	10	Privies 857/858	7	
10	Privy 807	12		
10	Privy 806	4		
10	Privy 812	3		
10	Well 853	1		
10	Well 866	2		
10	Privy 808	3	114	
002	10	Privy 807	1	
	10	Privy 812	8	
	10	Privy 808	1	
	11	Privies 1600/1601	1	11
003	10	Privy 808	1	1
	5	Privy 505	1	1
005	4	Privy 1301	3	
	4	Privy 1300	1	
	5	Privy 505	1	
	10	Privies 857/858	2	
10	Privy 806	6		
10	Privy 812	2		
10	Well 866	1		
10	Privy 808	4	20	
006	4	Privy 1300	3	
	4	Privy 1333	2	
	5	Privy 507	6	
	5	Privy 516	2	
	7	Trench 722	1	
	9	Privy 9	1	
	9	Well 6	1	
	9	Privy 7	1	
	9	Cesspool 13	1	
	10	Privies 857/858	3	
	10	Privy 806	7	
10	Privy 808	2		
11	Privies 1600/1601	3	33	
007	4	Privy 1301	5	
	4	Privy 1300	13	
	5	Privy 507	5	
	5	Privy 516	5	
	9	Privy 7	1	
	10	Privies 857/858	9	
	10	Privy 807	4	
	10	Privy 806	2	
	10	Well 853	1	
	10	Well 866	1	
	10	Privy 808	3	
11	Privies 1600/1601	1	50	
008	4	Privy 1301	1	
	5	Privy 507	1	
	9	Cesspool 13	1	
	11	Privies 1600/1601	3	6
009	4	Privy 1300	1	1

Table E-2. Bead Photo Catalog Variety Totals by Provenience (continued)

Photo ID	Block	Feature	Quantity	Variety Totals
010	4	Privy 1300	3	9
	5	Privy 507	2	
	11	Privies 1600/1601	4	
011	4	Privy 1301	16	21
	9	Cesspool 13	1	
	10	Privy 807	2	
	10	Privy 806	1	
	10	Well 866	1	
012	4	Privy 1301	9	10
	10	Privy 812	1	
013	4	Privy1310	1	12
	5	Privy 507	2	
	9	Well 6	2	
	9	Cesspool 13	1	
	10	Privy 806	4	
	10	Privy 812	1	
014	11	Privies 1600/1601	1	7
	4	Privy 1318	2	
	4	Privy 1301	2	
	10	Privies 857/858	2	
015	10	Privy 808	1	10
	4	Privy 1301	6	
	4	Privy 1300	1	
	4	Privy 1333	1	
016	10	Privy 806	2	13
	4	Privy 1301	12	
	4	Privy 1300	1	
017	9	Well 6	2	2
	4	Privy 1301	2	
018	4	Privy 1301	2	9
	9	Cesspool 13	9	
019	10	Privy 806	2	13
	4	Privy 1333	6	
020	10	Privy 807	4	62
	10	Privy 806	52	
	9	Well 6	1	
021	10	Privy 806	1	4
	10	Privy 808	3	
022	4	Privy 1305	2	781
	4	Privy 1307	3	
	4	Privy 1301	9	
	4	Privy 1300	25	
	4	Privy 1333	1	
	4	Privy 1326	4	
	4	Privy 1322	1	
	5	Privy 507	529	
	5	Privy 516	13	
	9	Privy 9	5	
	9	Well 6	3	
	9	Privy 1	1	
	9	Privy 7	5	
	9	Cesspool 13	4	
	10	Privies 857/858	46	
	10	Privy 807	29	
	10	Privy 806	52	
10	Privy 812	12		
10	Privy 813	9		
10	Well 853	1		
10	Well 866	1		
10	Privy 808	7		
11	Privies 1600/1601	19		

Table E-2. Bead Photo Catalog Variety Totals by Provenience (continued)

Photo ID	Block	Feature	Quantity	Variety Totals		
023	4	Privy 1301	2			
	4	Privy 1300	4			
	5	Privy 505	1			
	5	Privy 507	70			
	5	Privy 516	3			
	9	Well 6	1			
	9	Privy 1	1			
	9	Privy 7	4			
	9	Cesspool 13	2			
	10	Privies 857/858	13			
	10	Privy 807	17			
024	10	Privy 812	6			
	10	Well 866	1			
	10	Privy 808	11			
	11	Privies 1600/1601	5	141		
	9	Privy 9	1			
	9	Well 8	1			
	10	Privy 808	2	4		
	025	4	Privy 1318	4		
		4	Privy 1307	10		
		4	Privy 1304	1		
		4	Privy 1301	2		
4		Privy 1300	2			
4		Privy 1322	1			
5		Privy 507	9			
7		Trench 722	1			
9		Well 6	1			
9		Cesspool 13	9			
10		Privies 857/858	6			
026	10	Privy 806	1			
	10	Well 853	2			
	10	Privy 808	6	55		
	9	Privy 1	1			
	10	Privy 806	5	6		
	027	4	Privy 1322	1	1	
		028	5	Privy 507	1	
			9	Cesspool 13	1	2
		029	5	Privy 507	2	2
			10	Well 866	1	1
		031	5	Privy 507	1	1
032		5	Privy 507	1	1	
		9	Cesspool 13	1		
033		10	Privies 857/858	1	2	
		9	Cesspool 13	5	5	
034		10	Privy 806	4		
	10	Well 866	2	6		
036	10	Privy 806	1			
	10	Well 866	1	2		
037	10	Privies 857/858	1			
	10	Well 853	1	2		
038	5	Privy 507	1			
	9	Privy 9	1	2		
039	4	Privy 1326	2			
	5	Privy 507	1	3		
040	10	Privy 806	5	5		
	4	Privy 1300	1	1		

Table E-2. Bead Photo Catalog Variety Totals by Provenience (continued)

Photo ID	Block	Feature	Quantity	Variety Totals
042	4	Privy 1300	9	
	9	Well 6	1	
	10	Privy 812	1	
	10	Well 853	1	
<hr/>				
043	4	Privy 1300	7	7
<hr/>				
044	4	Privy 1301	11	
	4	Privy 1333	1	
	4	Privy 1326	2	
	4	Privy 1322	1	
	9	Privy 9	1	
	9	Well 8	12	
10	Well 853	1	29	
<hr/>				
045	5	Privy 507	1	1
<hr/>				
046	4	Privy 1305	1	1
<hr/>				
047	4	Privy 1304	1	
	4	Privy 1333	2	
	10	Well 866	1	
<hr/>				
048	9	Well 6	1	
	10	Privies 857/858	1	
	10	Privy 808	1	
<hr/>				
049	4	Privy 1326	1	
	9	Privy 7	1	
<hr/>				
050	4	Privy 1300	1	
	10	Privy 812	2	
<hr/>				
051	4	Privy 1300	10	10
<hr/>				
052	11	Privies 1600/1601	2	2
<hr/>				
<hr/>				
053	4	Privy 1307	1	
	4	Privy 1301	2	
	4	Privy 1316	18	
	4	Privy 1333	6	
	4	Privy 1322	1	
	5	Privy 507	11	
	9	Privy 9	3	
	9	Well 8	1	
	9	Well 6	26	
	9	Privy 1	1	
	9	Privy 7	5	
9	Cesspool 13	6		
10	Privies 857/858	18		
10	Privy 807	1		
10	Privy 806	18		
10	Privy 812	3		
10	Privy 813	1		
10	Well 853	5		
10	Privy 808	7		
10	Privy 801	1		
11	Privies 1600/1601	10	145	
<hr/>				
054	4	Privy 1307	1	
	4	Privy 1301	1	
	5	Privy 507	1	
	10	Privy 806	1	
	10	Well 866	1	
	11	Privies 1600/1601	2	
<hr/>				
055	4	Privy 1301	1	
	4	Privy 1333	1	
	7	Trench 722	2	
<hr/>				
056	10	Well 853	1	1
<hr/>				
057	10	Well 853	2	2
	11	Privies 1600/1601	10	
<hr/>				

Table E-2. Bead Photo Catalog Variety Totals by Provenience (continued)

Photo ID	Block	Feature	Quantity	Variety Totals
058	9	Cesspool 13	1	1
059	7	Trench 722	1	1
060	9	Privy 1	1	9
	10	Privies 857/858	8	
061	10	Privy 808	1	1
062	4	Privy 1333	1	
	5	Privy 507	2	3
063	4	Privy 1301	1	
	9	Privy 2	1	
	9	Well 6	1	
	10	Privy 807	1	
	10	Privy 806	76	
	10	Privy 814	1	
	10	Privy 808	1	
	10	Privy 801	1	83
064	10	Privy 849	1	1
065	7	Trench 722	1	1
066	4	Privy 1301	1	
	9	Privy 9	2	
	9	Privy 1	2	3
	9	Cesspool 13	1	
	10	Privies 857/858	1	
	10	Privy 806	1	
	11	Privies 1600/1601	1	9
067	10	Privies 857/858	1	
	10	Privy 806	1	2
068	9	Privy 1	1	1
069	4	Privy 1305	1	1
070	10	Privy 851	1	1
071	10	Privy 806	30	
	10	Privy 814	1	
	10	Privy 808	1	32
072	4	Privy 1300	2	
	9	Privy 9	2	
	9	Well 6	14	
	9	Cesspool 13	4	
	10	Privies 857/858	2	
	10	Privy 807	1	
	10	Privy 806	2	
	10	Privy 813	1	
	10	Well 853	1	
	11	Privies 1600/1601	2	31
073	9	Well 6	1	
	9	Privy 1	1	
	9	Cesspool 13	1	
	10	Privy 806	1	
	10	Privy 810	1	
	10	Privy 808	1	6
074	10	Privy 812	3	3
075	10	Privy 812	1	
	11	Privies 1600/1601	2	3
076	10	Privy 812	2	2
077	4	Privy 1316	1	1
078	10	Privy 812	2	2
079	5	Privy 507	1	1

Table E-2. Bead Photo Catalog Variety Totals by Provenience (continued)

Photo ID	Block	Feature	Quantity	Variety Totals
080	10	Privy 807	2	2
081	10	Well 866	5	
	10	Privy 801	2	
	11	Privies 1600/1601	2	9
082a	4	Privy 1300	1	
	4	Privy 1333	1	
	5	Privy 507	1	
	9	Cesspool 13	4	
	10	Privies 857/858	1	
	10	Privy 807	1	
	10	Privy 806	3	
	10	Well 866	2	
	10	Privy 808	2	
	11	Privies 1600/1601	2	18
082b	4	Privy 1300	2	
	10	Privies 857/858	4	6
082c	4	Privy 1300	1	1
082d	4	Privy 1300	1	
	9	Cesspool 13	1	2
082e	4	Privy 1300	1	
	10	Privies 857/858	10	
	10	Privy 806	1	
	10	Well 866	1	
	10	Privy 801	1	14
083a	4	Privy 1300	1	1
083b	4	Privy 1301	1	
	9	Privy 9	1	
	10	Privy 806	1	
	10	Privy 812	1	4
084	10	Well 866	1	1
085	9	Well 6	1	1
086	10	Privies 857/858	1	
	10	Privy 807	1	
	10	Privy 806	6	
	10	Well 866	1	9
087	5	Privy 507	1	
	10	Privy 806	1	21
088	9	Privy 1	1	1
089	7	Trench 722	1	1
090	7	Trench 722	1	1
091	4	Privy 1300	1	
	9	Privy 2	1	
	10	Privy 806	1	3
092	10	Privy 812	1	1
093	5	Privy 507	1	1
094	10	Privy 812	1	1
095	9	Privy 1	1	1
096	10	Privy 812	1	1
097	10	Privy 806	1	1
098	10	Well 866	1	1
099	10	Privy 807	1	1

Table E-2. Bead Photo Catalog Variety Totals by Provenience (continued)

Photo ID	Block	Feature	Quantity	Variety Totals
100	9	Privy 9	1	
	11	Privies 1600/1601	1	2
101	10	Well 853	1	1
102	11	Privies 1600/1601	2	2
103	10	Privy 808	1	1
104	9	Privy 7	1	1
105	10	Privy 808	1	1
106	9	Cesspool 13	1	1
107	4	Privy 1300	1	
	9	Privy 7	1	
	10	Privy 807	2	
	10	Privy 806	2	
	10	Well 866	1	
	10	Privy 808	1	8
108	9	Privy 2	1	1
109	10	Privy 812	1	1
110	10	Privy 812	1	1
111	5	Privy 507	1	1
112	9	Cesspool 13	1	1
113	10	Privy 808	1	1
114	4	Privy 1318	3	
	4	Privy 1307	1	
	9	Well 6	2	
	9	Privy 7	1	
115	9	Privy 9	7	7
116	10	Well 866	1	1
117	7	Trench 722	6	6
118	7	Trench 722	1	1
119	9	Well 17	1	1
120	4	Privy 1318	1	1
121	9	Well 6	1	1
122	9	Well 8	2	2
123	9	Well 6	4	4
124	4	Privy 1300	1	
	10	Well 853	1	2
125	10	Privies 857/858	1	1
126	9	Well 6	1	1
127	5	Privy 507	1	1
128	9	Cesspool 13	2	1
Totals			2,037	2,037

Table E.3. Temporal Ranges for Faceted, Spheroidal, Mold-pressed Bead Attribute Temporal Periods* – West Approach Project

Photo ID Number	Mold Seam Shape and Orientation		Facets						Perforation		
	Straight Horizontal (late 1860s to mid-1890s)	Zigzag Horizontal (late 1880s)	Ground Random (late 1860s to mid-1890s)	Semi-Random (early 1880s)	Semi-Patterned (early 1880s)	Patterned (1880s)	Molded Patterned (late 1880s)	Molded and Ground Patterned (temporal period unknown)	Biconical Pierced and Punched (late 1860s to mid-1890s)	Cylindrical	
										Pierced (mid to late 1880s)	
59**	X							?			X
81		X					X				X
82a	X		X						X, Molded top cone		
82b	X				X				X		
82c	X			X					X		
82d	X		X						X		
82e	X					X			X		
83a	X		X						X		
83b	X		X						X, Molded top cone		
84	X					X			X		
85											
86	X					X			X		
87											
88	X					X					X
89	X							X			X
90	X							X			X

*These dates do not contradict the *terminus post quem* dates in Ross 2003.

** Incorrectly identified by Karklins (this report) as a wound bead.

APPENDIX

BEAD ASSEMBLAGE, WEST APPROACH PROJECT

FACETED, SPHEROIDAL MOLD PRESSED BEAD CATALOG¹

West Approach Project Glass Bead Photo Variety Number: 59

Type: Monochrome, Spheroidal, Mold Pressed Bead with Patterned Ground and Molded Facets

Material: Glass

Manufacture: Mold Pressed

Comparative Numbers: Karklins MPII* (Karklins 1985; 2007 [incorrectly identified as a WIB* variety])

Shape: Spheroidal

Layering: Monochrome

Casing: None

Diaphaneity: Transparent

Luster: Dull

Color Hue: Light Yellowish Green

Munsell Color Notation: 10 GY 6/6

Decoration: Faceted; possibly patterned molded and ground

Number of Sides: Unknown, possibly 6 or 7

Number of Rows: Unknown, possibly 3–5

Top and Bottom Facets: Unknown

Number of Facets: Unknown

Perforation Type: Conical or cylindrical, pierced

Perforation Orientation: Vertical

Perforation Shape: Irregular

Corrosion: Heavily eroded and pitted

Patina: None

Quantity: 1

Photo ID: Photo Variety 59

Temporal Range: Unknown

BEAD SIZE NUMBER	BEAD SIZE (ld × l, mm)	PERFORATION SIZE (mm)	WEIGHT (g)
1	6.9 × 5.9	---	>0.43

Provenience: Block 7, Trench 722, St. Mary's Hospital (703-120) – temporal period unknown

¹ Based on a re-examination of the entire bead assemblage by Lester Ross in May 2007; original examination conducted by Karlis Karklins in February 2007

West Approach Project Glass Bead Photo Variety Number: 81

Type: Monochrome, Spheroidal, Mold Pressed Bead with Patterned Molded Facets

Material: Glass

Manufacture: Mold Pressed

Comparative Numbers: Karklins MPIIa* (Karklins 1985; 2007)

Shape: Spheroidal

Layering: Monochrome

Casing: None

Diaphaneity: Opaque

Luster: Shiny

Color Hue: Black

Munsell Color Notation: N 1/0

Decoration: Faceted; patterned molded

Number of Sides: 6–8

Number of Rows: 3–5

Top and Bottom Facets: Bottom; molded

Number of Facets: 18–40

Perforation Type: Cylindrical, pierced

Perforation Orientation: Vertical

Perforation Shape: Circular

Corrosion: None

Patina: None

Quantity: 9

Photo ID: Photo Variety 81

Temporal Range: Late 1880s

BEAD SIZE NUMBER	BEAD SIZE (ld × l, mm)	PERFORATION SIZE (mm)	WEIGHT (g)
1	4.5–8.2 × 4.6–7.4	1.5–1.8	0.12–0.62

Provenience: Block 10, 112 Silver Street, Well 866 (1266-59, 1269-133, 1272-6) – late 1880s

Block 10 142 Silver Street, Privy 801 (922/926-97, 926-86) – late 1880s

Block 11, 207-209 Perry Street, Privy 1600 (1651-169, 1653-178) – temporal period unknown

West Approach Project Glass Bead Photo Variety Number: 82a**Type:** Monochrome, Spheroidal, Mold Pressed Bead with Random Ground Facets**Material:** Glass**Manufacture:** Mold Pressed**Comparative Numbers:** Karklins MPIIa* (Karklins 1985; 2007)**Shape:** Spheroidal**Layering:** Monochrome**Casing:** None**Diaphaneity:** Opaque (transparent under strong light)**Luster:** Shiny**Color Hue:** Black**Munsell Color Notation:** N 1/0**Decoration:** Faceted; random ground**Number of Sides:** None**Number of Rows:** 2-3**Top and Bottom Facets:** None**Number of Facets:** 7-24**Perforation Type:** Biconical; pierced and punched with a conical molded top**Perforation Orientation:** Vertical**Perforation Shape:** Circular**Corrosion:** None**Patina:** None**Quantity:** 17**Photo ID:** Photo Variety 82a**Comments:** Very crudely manufactured with two large pockets on the surface**Temporal Range:** Early 1870s to mid-1890s

BEAD SIZE NUMBER	BEAD SIZE (ld × l, mm)	PERFORATION SIZE (mm)	WEIGHT (g)
1	4.1-7.7 × 3.7-7.0	0.7-1.2	0.8-0.38

Provenience: Block 4, 416 Folsom Street, Privy 1300 (1444-96) – early 1880s
 Block 4, 236 Fremont Street, Privy 1333 (1584-308) – mid-1890s
 Block 5, 540 Folsom Street, Privy 507 (633-66) – early 1870s
 Block 9, 423 Third Street, Cesspool 13 (297-142, 301-199) – mid-1880s
 Block 10, 109-111 Perry Street, Privy 857 (1189-365) – 1880
 Block 10, 123 Perry Street, Privy 807 (995-107) – 1880
 Block 10, 125-127 Perry Street, Privy 806 (978-87, 1011-403, 1011-424) – 1880
 Block 10, 112 Silver Street, Well 866 (1270-115) – late 1880s
 Block 10, 120 Silver Street, Privy 808 (1017-150, 1026-333) – early 1870s
 Block 11, 207-209 Perry Street, Privy 1600 (1651-169, 1656-262) – temporal period unknown

West Approach Project Glass Bead Photo Variety Number: 82b

Type: Monochrome, Spheroidal, Mold Pressed Bead with Semi-Patterned Ground Facets

Material: Glass

Manufacture: Mold Pressed

Comparative Numbers: Karklins MPIIa* (Karklins 1985; 2007)

Shape: Spheroidal

Layering: Monochrome

Casing: None

Diaphaneity: Opaque (transparent under strong light)

Luster: Shiny

Color Hue: Black

Munsell Color Notation: N 1/0

Decoration: Faceted; semi-patterned ground

Number of Sides: possibly 5–7

Number of Rows: possibly 4

Top and Bottom Facets: None

Number of Facets: 26–36

Perforation Type: Biconical; pierced and punched

Perforation Orientation: Vertical

Perforation Shape: Circular

Corrosion: None

Patina: None

Quantity: 6

Photo ID: Photo Variety 82b

Temporal Range: Early 1880s

BEAD SIZE NUMBER	BEAD SIZE (ld × l, mm)	PERFORATION SIZE (mm)	WEIGHT (g)
1	4.1–5.0 × 4.2–4.6	0.8–0.9	0.11–0.14

Provenience: Block 4, 416 Folsom Street, Privy 1300 (1448-183) – early 1880s

Block 10, 109-111 Perry Street, Privy 857 (1189-353) – 1880

West Approach Project Glass Bead Photo Variety Number: 82c

Type: Monochrome, Spheroidal, Mold Pressed Bead with Semi-Random Ground Facets

Material: Glass

Manufacture: Mold Pressed

Comparative Numbers: Karklins MPIIa* (Karklins 1985; 2007)

Shape: Spheroidal

Layering: Monochrome

Casing: None

Diaphaneity: Opaque (transparent under strong light)

Luster: Shiny

Color Hue: Black

Munsell Color Notation: N 1/0

Decoration: Faceted; semi-random ground

Number of Sides: None

Number of Rows: possibly 2–3

Top and Bottom Facets: Top only; molded

Number of Facets: Unknown

Perforation Type: Biconical; pierced and punched

Perforation Orientation: Vertical

Perforation Shape: Circular

Corrosion: None

Patina: None

Quantity: 1

Photo ID: Photo Variety 82c

Comments: Very crudely manufactured

Temporal Range: Early 1880s

BEAD SIZE NUMBER	BEAD SIZE (ld × l, mm)	PERFORATION SIZE (mm)	WEIGHT (g)
1	5.0 × 5.1	0.8	0.21

Provenience: Block 4, 416 Folsom Street, Privy 1300 (1448-183) – early 1880s

West Approach Project Glass Bead Photo Variety Number: 82d**Type:** Monochrome, Spheroidal, Mold Pressed Bead with Random Ground Facets**Material:** Glass**Manufacture:** Mold Pressed**Comparative Numbers:** Karklins MPIIa* (Karklins 1985; 2007)**Shape:** Spheroidal**Layering:** Monochrome**Casing:** None**Diaphaneity:** Opaque (transparent under strong light)**Luster:** Shiny**Color Hue:** Black**Munsell Color Notation:** N 1/0**Decoration:** Faceted; random ground**Number of Sides:** None**Number of Rows:** possibly 2–3**Top and Bottom Facets:** None**Number of Facets:** 11–15**Perforation Type:** Biconical; pierced and punched**Perforation Orientation:** Vertical**Perforation Shape:** Circular**Corrosion:** None**Patina:** None**Quantity:** 2**Photo ID:** Photo Variety 82d**Comments:** Very crudely manufactured**Temporal Range:** Early to mid-1880s

BEAD SIZE NUMBER	BEAD SIZE (ld × l, mm)	PERFORATION SIZE (mm)	WEIGHT (g)
1	6.2–6.4 × 5.2–6.2	0.9–1.0	0.25–0.32

Provenience: Block 4, 416 Folsom Street, Privy 1300 (1448-183) – early 1880s

Block 9, 423 Third Street, Cesspool 13 (301-199) – mid-1880s

West Approach Project Glass Bead Photo Variety Number: 82e

Type: Monochrome, Spheroidal, Mold Pressed Bead with Patterned Ground Facets

Material: Glass

Manufacture: Mold Pressed

Comparative Numbers: Karklins MPIIa* (Karklins 1985; 2007)

Shape: Spheroidal

Layering: Monochrome

Casing: None

Diaphaneity: Opaque (transparent under strong light)

Luster: Shiny

Color Hue: Black

Munsell Color Notation: N 1/0

Decoration: Faceted; patterned ground

Number of Sides: 7–9

Number of Rows: 3–5

Top and Bottom Facets: None to ground bottom and top

Number of Facets: 21–45

Perforation Type: Biconical; pierced and punched

Perforation Orientation: Vertical

Perforation Shape: Circular

Corrosion: None

Patina: None

Quantity: 14

Photo ID: Photo Variety 82e

Temporal Range: 1880s

BEAD SIZE NUMBER	BEAD SIZE (ld × l, mm)	PERFORATION SIZE (mm)	WEIGHT (g)
1	8.9–14.0 × 7.7–12.7	0.8–1.0	0.77–3.10

Provenience: Block 4, 416 Folsom Street, Privy 1300 (1448-192) – early 1880s

Block 10, 109–111 Perry Street, Privy 857 (1189-344) – 1880

Block 10, 125–127 Perry Street, Privy 806 (1011-404) – 1880

Block 10, 112 Silver Street, Well 866 (1269-133) – late 1880s

Block 10 142 Silver Street, Privy 801 (931-120) – late 1880s

West Approach Project Glass Bead Photo Variety Number: 83a

Type: Monochrome, Spheroidal, Mold Pressed Bead with Random Ground Facets

Material: Glass

Manufacture: Mold Pressed

Comparative Numbers: Karklins MPIIa* (Karklins 1985; 2007)

Shape: Spheroidal

Layering: Monochrome

Casing: None

Diaphaneity: Transparent

Luster: Shiny

Color Hue: Clear

Munsell Color Notation: N 7/0

Decoration: Faceted; random ground

Number of Sides: None

Number of Rows: 2

Top and Bottom Facets: None

Number of Facets: 9 or 10

Perforation Type: Cylindrical, pierced and punched

Perforation Orientation: Vertical

Perforation Shape: Circular

Corrosion: None

Patina: None

Quantity: 1

Photo ID: Photo Variety 83a

Temporal Range: Early 1880s

BEAD SIZE NUMBER	BEAD SIZE (ld × l, mm)	PERFORATION SIZE (mm)	WEIGHT (g)
1	4.2 × 3.5	0.5	0.08

Provenience: Block 4, 416 Folsom Street, Privy 1300 (1448-185) – early 1880s

West Approach Project Glass Bead Photo Variety Number: 83b**Type:** Monochrome, Spheroidal, Mold Pressed Bead with Random Ground Facets**Material:** Glass**Manufacture:** Mold Pressed**Comparative Numbers:** Karklins MPIIa* (Karklins 1985; 2007)**Shape:** Spheroidal**Layering:** Monochrome**Casing:** None**Diaphaneity:** Transparent**Luster:** Shiny**Color Hue:** Clear**Munsell Color Notation:** N 7/0**Decoration:** Faceted; random ground**Number of Sides:** None**Number of Rows:** 2**Top and Bottom Facets:** None**Number of Facets:** 12 or 13**Perforation Type:** Biconical; pierced and punched with a conical molded top**Perforation Orientation:** Vertical**Perforation Shape:** Circular**Corrosion:** None**Patina:** None**Quantity:** 4**Photo ID:** Photo Variety 83b**Temporal Range:** 1868–1881

BEAD SIZE NUMBER	BEAD SIZE (ld × l, mm)	PERFORATION SIZE (mm)	WEIGHT (g)
1	4.1–7.1 × 3.4–6.1	0.5–0.9	0.08–0.35

Provenience: Block 4, 412 Folsom Street, Privy 1301 (1428-296) – 1868 earthquake

Block 9, 35 Perry Street, Privy 9 (208-311) – ca. 1881

Block 10, 125-127 Perry Street, Privy 806 (1011-418) – 1880

Block 10, 129 Perry Street, Privy 812 (1007-228) – 1880

West Approach Project Glass Bead Photo Variety Number: 84**Type:** Monochrome, Spheroidal, Mold Pressed Bead with Patterned Ground Facets**Material:** Glass**Manufacture:** Mold Pressed**Comparative Numbers:** Karklins MPIIa* (Karklins 1985; 2007)**Shape:** Spheroidal**Layering:** Monochrome**Casing:** None**Diaphaneity:** Transparent**Luster:** Shiny**Color Hue:** Very Dark Red**Munsell Color Notation:** 2.5 R 3/10**Decoration:** Faceted; patterned ground**Number of Sides:** probably 6**Number of Rows:** 3**Top and Bottom Facets:** Ground**Number of Facets:** probably 18**Perforation Type:** Biconical, pierced and punched**Perforation Orientation:** Vertical**Perforation Shape:** Circular**Corrosion:** None**Patina:** None**Quantity:** 1**Photo ID:** Photo Variety 84**Temporal Range:** Late 1880s

BEAD SIZE NUMBER	BEAD SIZE (ld × l, mm)	PERFORATION SIZE (mm)	WEIGHT (g)
1	--- × 9.0	---	---

Provenience: Block 10, 112 Silver Street, Well 866 (1270-116) – late 1880s

West Approach Project Glass Bead Photo Variety Number: 85

Type: Monochrome, Spheroidal, Mold Pressed Bead with Random Ground Facets

Material: Glass

Manufacture: Mold Pressed

Comparative Numbers: Karklins MPIIa* (Karklins 1985; 2007)

Shape: Spheroidal

Layering: Monochrome

Casing: None

Diaphaneity: Transparent

Luster: Shiny

Color Hue: Light Brownish Yellow

Munsell Color Notation: 10 YR 7/8

Decoration: Faceted; random ground

Number of Sides: None

Number of Rows: 2

Top and Bottom Facets: None

Number of Facets: >5

Perforation Type: Biconical; pierced and punched with a conical molded top

Perforation Orientation: Vertical

Perforation Shape: Circular

Corrosion: None

Patina: None

Quantity: 1 (fragment)

Photo ID: Photo Variety 85

Temporal Range: Unknown

BEAD SIZE NUMBER	BEAD SIZE (ld × l, mm)	PERFORATION SIZE (mm)	WEIGHT (g)
1	--- × 5.5	0.7	---

Provenience: Block 9, 41 Perry Street, Well 6 (291-87) – temporal period unknown

West Approach Project Glass Bead Photo Variety Number: 86

Type: Monochrome, Spheroidal, Mold Pressed Bead with Patterned Ground Facets

Material: Glass

Manufacture: Mold Pressed

Comparative Numbers: Karklins MPIIa* (Karklins 1985; 2007)

Shape: Spheroidal

Layering: Monochrome

Casing: None

Diaphaneity: Transparent

Luster: Shiny

Color Hue: Very Dark Purple

Munsell Color Notation: 10 B 2/4

Decoration: Faceted; patterned ground

Number of Sides: 7–11

Number of Rows: 5

Top and Bottom Facets: Molded and/or ground

Number of Facets: 35–55

Perforation Type: Biconical, pierced and punched

Perforation Orientation: Vertical

Perforation Shape: Circular

Corrosion: None

Patina: None

Quantity: 9

Photo ID: Photo Variety 86

Temporal Range: 1880s

BEAD SIZE NUMBER	BEAD SIZE (ld × l, mm)	PERFORATION SIZE (mm)	WEIGHT (g)
1	16.3–16.7 × 15.1–16.2	1.3	4.63–5.79

Provenience: Block 10, 109–111 Perry Street, Privy 857 (1189-345) – 1880
 Block 10, 123 Perry Street, Privy 807 (993-48) – 1880
 Block 10, 125-127 Perry Street, Privy 806 (978-90, 1011-403) – 1880
 Block 10, 112 Silver Street, Well 866, (1270-117) – late 1880s

West Approach Project Glass Bead Photo Variety Number: 88**Type:** Monochrome, Spheroidal, Mold Pressed Bead with Patterned Ground Facets**Material:** Glass**Manufacture:** Mold Pressed**Comparative Numbers:** Karklins MPII* (Karklins 1985; 2007)**Shape:** Spheroidal**Layering:** Monochrome**Casing:** None**Diaphaneity:** Opaque**Luster:** Shiny**Color Hue:** Black**Munsell Color Notation:** N 1/0**Decoration:** Faceted; patterned ground**Number of Sides:** 5**Number of Rows:** 3**Top and Bottom Facets:** Molded**Number of Facets:** 15**Perforation Type:** Cylindrical, pierced**Perforation Orientation:** Vertical**Perforation Shape:** Circular**Corrosion:** None**Patina:** None**Quantity:** 1**Photo ID:** Photo Variety 88**Temporal Range:** Mid-1880s

BEAD SIZE NUMBER	BEAD SIZE (ld × l, mm)	PERFORATION SIZE (mm)	WEIGHT (g)
1	4.4 × 4.1	0.8	0.10

Provenience: Block 9, 64 Silver Street, Privy 1 (148-18) – mid-1880s**West Approach Project Glass Bead Photo Variety Number: 89****Type:** Monochrome, Spheroidal, Mold Pressed Bead with Patterned Ground and Molded Facets**Material:** Glass**Manufacture:** Mold Pressed**Comparative Numbers:** Karklins MPII* (Karklins 1985; 2007)**Shape:** Spheroidal**Layering:** Monochrome**Casing:** None**Diaphaneity:** Transparent**Luster:** Dull**Color Hue:** Red**Munsell Color Notation:** 2.5 R 3/10**Decoration:** Faceted; patterned molded and ground**Number of Sides:** 5**Number of Rows:** 4**Top and Bottom Facets:** Molded**Number of Facets:** 22, 12 molded and 10 ground**Perforation Type:** Cylindrical, pierced**Perforation Orientation:** Vertical**Perforation Shape:** Circular**Corrosion:** None**Patina:** Yes**Quantity:** 1**Photo ID:** Photo Variety 89**Temporal Range:** Unknown

BEAD SIZE NUMBER	BEAD SIZE (ld × l, mm)	PERFORATION SIZE (mm)	WEIGHT (g)
1	5.0 × 4.4	0.9	0.15

Provenience: Block 7, Trench 722, St. Mary's Hospital (703-125) – temporal period unknown

West Approach Project Glass Bead Photo Variety Number: 90

Type: Monochrome, Spheroidal, Mold Pressed Bead with Patterned Ground and Molded Facets

Material: Glass

Manufacture: Mold Pressed

Comparative Numbers: Karklins MPII* (Karklins 1985; 2007)

Shape: Spheroidal

Layering: Monochrome

Casing: None

Diaphaneity: Transparent

Luster: Shiny

Color Hue: Light Brownish Yellow

Munsell Color Notation: 10 YR 7/8

Decoration: Faceted; patterned molded and ground

Number of Sides: 5

Number of Rows: 4

Top and Bottom Facets: Molded

Number of Facets: 22; 12 molded, 10 ground

Perforation Type: Cylindrical, pierced

Perforation Orientation: Vertical

Perforation Shape: Circular

Corrosion: None

Patina: None

Quantity: 1

Photo ID: Photo Variety 90

Temporal Range: Unknown

BEAD SIZE NUMBER	BEAD SIZE (ld × l, mm)	PERFORATION SIZE (mm)	WEIGHT (g)
1	4.9 × 4.4	0.9	0.14

Provenience: Block 7, Trench 722, St. Mary's Hospital (702-92) – temporal period unknown