

**THE EVERGREEN STATE COLLEGE 2015  
ARCHAEOLOGICAL EXCAVATION AT BUSH HOMESTEAD  
TUMWATER, WASHINGTON**

by  
Ulrike Krotscheck, Ph.D.  
Alexis Walsh  
Erin Gamble, B.A.

Prepared for

Department of Archaeology and Historic Preservation (DAHP)  
1110 Capitol Way S #30  
Olympia, WA 98504

Site Code:  
45TN91H



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The Evergreen State College Archaeology Lab (TESCAL)  
2700 Evergreen Pkwy NW  
Olympia, WA 98505

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## TESCAL 2015 EXCAVATION AT BUSH HOMESTEAD, TUMWATER, WASHINGTON

### **ABSTRACT**

This report outlines results of the excavation conducted in July and August 2015 by The Evergreen State College's first archaeological field school. The site 45TN91H is currently at the address 8400 Old Hwy 99 SE and owned by Kathleen and Mark Clark. Its historical importance is as the site of one of the first homesteads in southern Puget Sound, originally settled by George and Isabella Bush in the winter of 1845/6. Dr. Ulrike Krottscheck at The Evergreen State College (TESC) and a team of students and volunteers conducted field excavation at the site in July and August 2015. Lab work and database entry was also conducted at TESC. All surface finds were collected prior to excavation. 20 1x1 m units were excavated to a maximum depth of 50 cm, and one additional 50x50cm test pit to 100cm depth. The excavation revealed uniform consistency of the matrix, due to turbation through historical plowing of the area. All deposits were screened with a ¼ inch screen to retrieve any small artifact fragments. Over 4,000 artifacts were recovered, cleaned, and are being stored at TESC (though they remain legal property of the Clarks). Artifact types included glass, ceramics, metal, and organic. Due to the nature of prior sub-surface interference, historical and non-historical artifacts were found in the same contexts, and a stratigraphical sequence could not be determined. Of the diagnostic artifacts, only few can securely be dated to the late 19<sup>th</sup> century. Research on the artifacts is not yet complete, and continues at TESC through independent learning contracts. The field school incorporated a significant public outreach program, which included a number of tour days at the site, as well as a number of public lectures and school outreach presentations. After a successful first season we hope to propose a second season in the summer of 2016.

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### **ACKNOWLEDGEMENTS**

We would like to thank TESC, the Summer Undergraduate Research Fellowship program at TESC, Dr. Dale Croes, Mark & Kathleen Clark of the Bush Prairie Farm, and DAHP for helping make this field school happen, as well as The Nisqually Tribe (in particular Jackie Wall, THPO, as well as her staff), the Squaxin Tribe, the Northwest African American Museum, The Burke Museum, Thurston County Historic Commission, Tumwater Historic Preservation Commission, Olympia School District, and the Thurston County community for their support and collaboration. Dr. Kenneth Tabbutt and Jennifer Titus worked on the GIS and mapping aspect of the site, and Dr. Michael Paros helped with faunal analysis. Kelson McConnell and Tim Schilling contributed their research results on selected diagnostic finds. We would also like to thank our sponsors: the TESC Foundation and Sponsored Research Grant Committees, and the Summer Undergraduate Research Fellowship program at TESC. Further thanks are owed to the students and community volunteers who participated in the excavation and field school, and the members of the community who visited and shared their experience. We could not have done this without you.

### **INTRODUCTION**

This report outlines results of the excavation conducted in July and August 2015 by The Evergreen State College's first archaeological field school. The site 45TN91H is currently at the address 8400 Old Hwy 99 SE and owned by Kathleen and Mark Clark. Its historical importance is as the site of one of the first homesteads in southern Puget Sound, originally settled by George and Isabella Bush in 1845/6. This project grew out of a query submitted by the current landowners, Mark and Kathleen Clark, who were well aware of the location's historical significance and were interested in an archaeological investigation of their property. Through Dr. Dale Croes, they contacted Dr. Ulrike Krottscheck at The Evergreen State College (TESC), who submitted a permit application for the field school in spring 2015. Following the successful application, the field school was planned and conducted in the late summer of 2015. What follows is a description of the history of the site, description of the archaeological methods used, results of the field school, and future areas of inquiry.

Briefly: sixteen undergraduates and four volunteers were trained in archaeological field and lab methods, including mapping, stratigraphy, and proper recording, preservation, and storage of artifacts. The area of investigation was chosen based on surface find density as determined by a 2009 surface survey. All surface finds were collected prior to excavation. Trimble GPS units (owned by TESC) and a Leica LS Total Station (rented from Kuker-Ranken) were used to geolocate and measure the parameters of the units. After surface clearing, 20 1x1 m units were excavated to a maximum depth of 50 cm, and one additional 50x50cm test pit to 100cm depth. The excavation revealed

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uniform consistency of the matrix, due to turbation through historical plowing of the area. No stratigraphy was recognizable with one exception (see FIG. 4). Historical artifacts were consistently found alongside modern ones, further reinforcing the visible lack of chronological sequencing through stratigraphy. In addition, the Mazama Pocket Gopher had contributed to significant bioturbation of the area (see Fig. 3).<sup>1</sup> All deposits were screened with a ¼ inch screen to retrieve any small artifact fragments. Over 4,000 artifacts were recovered, cleaned, and are being stored at TESC. Research on the artifacts is currently underway, and although they are being stored and studied at TESC, they remain legal property of the Clarks.

### **HISTORY**

#### **George Bush and his Family**

George Bush, the son of a Black man of contested ethnicity<sup>2</sup> and a white Irish mother, was born around 1790 in Pennsylvania (Thomas 1965). The Bush family became a family of means after the death of a family friend, Captain Stevenson, because he left the Bush's most of his fortune (Oldham 2004, Thomas 1965).

As a young man, George moved to Clay County, Missouri (Thomas 1965, Oldham 2004). During his first years in Missouri, he worked with the Hudson Bay Company as a trapper (Thomas 1965). He met and married his wife, Isabella James in Missouri (Thomas 1965). Isabella was an American of German descent (Oldham 2004, Thomas 1965). The couple had nine children, five of whom were born in Missouri, before the family headed to Oregon Territory in 1844 (Thomas 1965). Those children were William Owen, Joseph Talbot, Rial Baily, Henry Sanford, and Jackson January (Thomas 1965). Their youngest son, Lewis Nisqually, was born in New Market, Washington in December 1847 (Thomas 1965).

Bush was believed to have been a successful cattle rancher, but as a man of possibly African descent, he would not have been allowed to own his own land in Missouri during the mid-1800's, although, according to an 1830 Federal census, Bush was considered a "free white person" (Thomas 1965). However, according to accounts from Ezra Meeker on the matter, "Bush doubtless left Missouri because of the virulent prejudice against his race in the community he lived." (Thomas 1965).

In 1844, Bush and his family joined four other families, comprised of close family and friends, on a wagon train bound for Oregon territory (Thomas 1965). However, when they arrived in Oregon, discriminatory laws, known as the 'lash laws', had been

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<sup>1</sup> No current pocket gopher habitat was disturbed: only abandoned burrows were encountered during the excavation.

<sup>2</sup> The exact origin of George Bush's father is contested, and a subject for another study. Important for the current investigation is that his son George was, apparently, visibly different enough from most of the other new settlers in the Oregon Territory to be discriminated against, which resulted in the party settling in the southern Puget Sound (Thomas 1965, Oldham 2004).

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passed in the territory disallowing non-whites from settling there (Thomas 1965, Oldham 2004). His party, not wanting to abandon Bush, agreed to continue north of the Columbia River (Thomas 1965, Oldham 2004). The Simmons Party, as the group was known, spent the winter of 1844/1845 just north of the Columbia River near Fort Vancouver (Oldham 2004, Thomas 1965).

Eventually, the party reached the area presently known as Tumwater, WA in November of 1845 (Fullmer, Henderson and Woodard 2009, Oldham 2004, Thomas 1965). As they settled, the families relied heavily on the generosity of the local Nisqually Indians and the Hudson Bay Company's Fort Nisqually for food and supplies (Thomas 1965). The indigenous tribes taught the settlers how to dig for clams and fish for salmon from the rivers (Oldham 2004). During the winter of 1846-47, Simmons and Bush set up the first gristmill in the region (Thomas 1965). Additionally, the settlers soon set up and organized a sawmill company – The Puget Sound Milling Company (Thomas 1965).

The family, and the newly formed New Market community, continued a friendly relationship with the local natives (Thomas 1965). So close was the relationship between the local natives and the Bush family, that eventually everyone in the family learned to speak the local Indian language (Thomas 1965). So strong was the relationship between the local Indians and the New Market community that in the 1850's when the Indian Wars started, Chief Leschi contacted the families promising that none of the whites would be harmed if they remained west of the Deschutes River (Thomas 1965). Bush's eldest son, William Owen, even acted as a translator between the Americans and the local Indians (Oldham 2004).

As George Bush grew older, he started to hand over the duties of managing and running the family farm to his sons (Thomas 1965). On April 5, 1863 George Bush died suddenly (Thomas 1965, Oldham 2004). After the passing of his father, William Owen and his wife returned to the family farm at Bush Prairie (Thomas 1965, Olsen and Stevenson n.d.). William Owen became the head of the family and carried on the family business for the next forty years (Thomas 1965).

William Owen (commonly referred to as Owen) later became involved in politics and was elected to serve on the first Washington State legislature in 1889 (Oldham 2004, Olsen and Stevenson n.d.). When he died in 1907, the family estate was passed to other members of the family, where it remained until the 1960-70's (Thomas 1965, Sapp 1945).

### **Site Significance**

Historical sites like the George Bush Homestead represent our own-shared collective history. The property is an integral part of Washington State and therefore significant to all of its citizens, and great efforts to represent the site appropriately should be taken.

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## **PREVIOUS INVESTIGATIONS**

### **SPSCC Field Survey**

In 2009, students at South Puget Sound Community College (SPSCC), under the guidance of Dr. Dale Croes, conducted an archaeological field survey of the Clark's property (Fullmer, Henderson and Woodard 2009). The report of this survey was filed with Thurston County and the Washington Department of Archaeology and Historic Preservation (DAHP) June 10th, 2010. The report concluded that its results demonstrate considerable archaeological integrity of the site. Dr. Croes and his team mapped the 5-acre parcel and recovered 132 artifacts (Fig. 2). The objectives of this survey were to identify and document any archaeological and or cultural resources that may have been part of the George Bush Homestead. Dr. Croes and his team visited the site a total of four times, finding more than 200 artifacts that dated to the mid 1800's. Finds included ceramics, the leg of a wood stove, bricks from a fireplace, glass, and a variety of artifacts of other materials (Henderson et al. 2009).

### **Survey Map and Findings**

The survey identified two areas of interest on the property based on the density of surface artifacts documents (Fullmer, Henderson and Woodard 2009). The first area, deemed Area A, is located in the Northeastern corner of the property and the second area, deemed Area B, is located on the Southeastern side of the property (Fullmer, Henderson and Woodard 2009).

Based on the composition of artifact types located and historical records, Area A (see Fig. 2) is believed to have been the location of one of the original barns built on the property (Fullmer, Henderson and Woodard 2009). The surveyors interpreted Area B to be the location of both the original split log cabin first built by the Bush's when they arrived to the Puget Sound and later the location of William Owen Bush's house (Fig. 1) built in 1878 (Oldham 2004, Unknown 1970, Bence 1960). Owen Bush's house stood on the property until February of 1970 when it was finally demolished, despite the The Olympic Soroptimist Club's efforts to seek funding to have the house repaired and listed as a historical landmark (Unknown 1970).

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*Figure 1: William Owen Bush's house, n.d.*



*Figure 2: SPSCC Final Survey Map*

Figure 2 shows the final survey map generated by the 2009 survey. Table 1 shows the distribution of artifacts by material type for each area. According to the survey's final report, the artifacts found in Area A were more consistent with those that would be found in barn or workshop such as nails, while the artifacts found in Area B were consistent with household items such as ceramic dishes and glassware. All artifacts documented during the survey were left in situ (Fullmer, Henderson and Woodard 2009).

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| Artifact Type | Area A | Area B | Total |
|---------------|--------|--------|-------|
| Metal         | 44     | 1      | 45    |
| Ceramic       | 13     | 17     | 30    |
| Brick         | 33     | 4      | 37    |
| Glass         | 55     | 33     | 88    |
| Bone          | 1      | 2      | 3     |
| Shell         | 0      | 9      | 9     |
| Plastic       | 1      | 0      | 1     |
| Tooth         | 0      | 1      | 1     |
| All Types     | 147    | 67     | 214   |

*Table 1: Surface artifacts documented during 2009 cultural survey.*

As a result of these findings, the survey team proposed excavation was warranted and suggested that focus should be on Area B, the suspected location of Owen Bush’s house and the original split log cabin. As such, one of the goals of excavation could be to find the original foundation(s) of one or both of the houses. Despite only having been demolished in the 1960’s, currently, the exact location of Owen Bush’s house (which was built on top of the original log cabin) is unknown (Fullmer, Henderson and Woodard 2009). However, based on the artifacts found during the 2009 survey and historical records, the team concluded that Area B would be the best place to start looking (Fullmer, Henderson and Woodard 2009).

**THE EVERGREEN STATE COLLEGE 2015 FIELD SCHOOL**

**Location**

The historic Bush homestead is currently located at 8400 Old Highway 99 in SE Tumwater, Washington, 98501. The property, currently owned by Mark and Kathleen Clark, is a 5-acre parcel, No.12712330300. Based on the survey results, the chosen excavation site was likely adjacent to the location of Owen Bush’s house.

**Research Goals & Questions**

The aim of the 2015 archaeological investigation was to recover and preserve any artifacts related to occupation by the original owners, George and Isabella Bush and their children, within a context of an undergraduate field school run by TESC. The main goals of this effort were the careful recovery, conservation, study, and display of material culture associated with the Bush Homestead. Another important objective was outreach: to educate the public about the nature and circumstances of this family’s life.

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A main research question focused on the daily life of the settlers. Our hope was to gain information on the possessions, living standards, and quotidian activities of the first two generations of the Bush family. Domestic objects can reveal information about the socio-economic class of their users, access to local and regional markets, as well as access to items of foreign origin. As such they have the potential to give detailed information about the inhabitants' family life and economic connections.

We also hoped that this investigation might yield information on the exact location of the structures, which are not precisely known - conflicting accounts of the location of buildings exist. We hoped that the location would become visible through soil features such as foundation trenches or other markers of construction or foundation. This goal was not achieved.

The research design of this project was closely linked to training and outreach, which form an integral part of archaeological responsibility to the public. We therefore included these goals in our research design. Broadly speaking, the goals of this project were:

- to provide field training for student archaeologists
- to involve the community in the project by encouraging visits to the site
- to carefully record, excavate, and curate all artifacts, to be available for future study
- to gain insight into the daily lives of some of the first non-native settlers of our community
- to ensure public access to our results
- to produce opportunities for further research and publication for archaeology students
- to determine the feasibility of a continuing field school at the site

### **Expectations**

We expected to find primarily small objects that would give information on the domestic lives of the members of the Bush family. Throughout the excavation all participants were made aware that, due to the continued occupation of the site, more recent artifacts would also be found; these artifacts were included in our artifact inventory and storage. We expected cultural deposits at this site could be either *in situ*, or disturbed and re-contextualized due to construction or demolition of structures or agricultural activities.

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### **Methods**

Prior to the initiation of the field school class, the director and field supervisor Erin Gamble set up a 1x1m grid, mapping the area of investigation. The locations of test units were selected based on the areas that showed the densest concentration of surface finds from the 2009 field survey.

Following classroom training, 16 TESC students, local archaeologists, and community volunteers measured out and used hand tools to clear the area to be investigated of surface vegetation. All surface finds were recorded and catalogued in the excavation database and moved to TESCAL for preservation and analysis. After the first two days of clearing and collection, the excavators were split into two groups, alternating between days in the lab and the field.

The excavation proceeded with 20 1x1m test units, each assigned to one or two excavators, progressing by 5cm intervals (“contexts”). All deposits were screened through ¼-inch screens to ensure the recovery of fragmentary or organic deposits.

Artifacts were collected from the screens and *in situ*, placed in bags, and labeled with the date recovered, section, unit, and context number, as well as material type and excavator initials. Non-diagnostic fragments of metal, glass, wood, shell, or fauna smaller than the screens were not generally collected.

For the purposes of training, all excavators kept a detailed field notebook in which they recorded all finds and contexts (lacking visible stratigraphy, a context was defined as 5 vertical cm of deposit in any given 1x1m unit). These field notebooks remain in possession of TESCAL for future use. Photographs of the excavation process, context features, and diagnostic artifacts were taken. Soil and stratigraphy were described in the excavation records, including Munsell number, and recorded through photographs. Soil samples from each context (1000g when possible) were collected, along with flotation samples that were processed in the TESCAL flotation sink to ensure the recovery of seeds and other organic material. At the time of the filing of this report, flotation samples have not yet been fully interpreted. Contexts were photographed upon opening and closing, and all diagnostic artifacts were photographed *in situ* and in the lab.

Artifact recovery varied depending on diagnostic status. Diagnostic artifacts are defined as possessing trademarks, labels, other identifying marks and temporal attributes that associate the artifact with a definable or researchable time or time period. These were initially left *in situ*, numbered, photographed, and their location recorded either with the Total Station (when it was working), or, more often, in three dimensions with reference to the unit’s borders. These measurements are reflected in the finds database. Non-diagnostic artifacts were recorded in the field notebook and recovered. All artifacts were bagged by unit, context, and artifact type, with the diagnostic artifacts receiving distinct numbers. Artifacts were transferred to the lab, cleaned, sorted, and entered into

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the excavation database. Artifact data in particular was recorded in an Excel spreadsheet hosted at TESCAL (attached separately; Appendix C), including information on artifacts' material, unit, context, size, condition, and/or function. All diagnostic artifacts were photographed with a scale. These photographs are attached below in Appendix B.

Work completed in the lab also included cleaning and processing of all artifacts, including washing or brushing each artifact and photographing all diagnostic artifacts. According to the parameters of the permit, all excavated artifacts remain property of the Clark's, but will be processed, curated, and stored at TESCAL until further notice.

Following the completion of the excavation, excavators lined the open units with porous landscaping fabric and back filled the units with the sifted sediment removed during the excavation process.

Each student participant also completed a historical research project to better understand the history of the Bush family, the local region, and/or the material culture recovered from the excavation. These projects were presented on the final day of class and the research posters created for them will continue to be stored by Dr. Krotscheck or at TESCAL.

### **Issues and Solutions**

Throughout the entirety of the excavation, the team struggled with technical difficulties regarding the Leica Total Station. There were repeated issues with the batteries of the unit, and the unit often ran out of power before the end of the day, or arrived on site without the necessary power to startup at all. This issue was continually worked with, as we contacted the rental agency, tested the batteries, total station, and charging stations to try to diagnose the problem, and even replaced the batteries entirely in an attempt to restore function to the station. Unfortunately, all our efforts resulted in no successful solution, and we adapted our record-keeping techniques to accommodate hand-measured coordinates for each diagnostic artifact found, using precise measuring tools. The few points that we were able to record with the total station can be found in Appendix B, Plate 2; raw GIS data available upon request.

Additionally, given the nature of first-time excavation work, the data collection and recording techniques of our artifact and diagnostic artifact collection needed to be altered mid-excavation to better accommodate the volume of artifacts recovered and our ability to complete the work. As such, all data presented in the Excel database reflects the second system used, and all previous data collected was updated or converted to comply with the new system. Essentially, the change was the development of two separate data sheets with separate data collection criteria: one for non-diagnostic artifacts, and one for diagnostic artifacts. The primary difference between the two data sheets is the specificity of location and recovery details.

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### **Public Participation**

Public participation and outreach formed a significant part of our mission. In order to reach and educate as many members of the public as possible, we:

- held 6 public tours during the course of the excavation, so that interested people were able to view the archaeological process first-hand.
- welcomed all contacts by local news to visit the site, which resulted in multiple articles and interviews being shared publicly by The Olympian, Thurston Talk, King 5 News, and nationally by the Associated Press.
- held a public event during Archaeology Month at the Coach House at the State Capitol Museum on October 23rd where dig participants and a local archivist presented to the public on the history and excavation work for the site.
- participated in Thurston County Through the Decades: 1875-1900 at Tumwater Falls Park on October 4th, displaying work done and artifacts recovered during the excavation, also answering questions and presenting on the history of the family and work of the site.
- presented at number of public schools in the local area; presentations were performed by a continuing TESC student and TESC graduate who participated in the field school.
- developed and presented a research poster which saw its debut at the annual TESC Summer Undergraduate Research Fellowship presentations and closing ceremony, which was also open to the public.
- scheduled further presentations for local community groups, including the Tumwater Rotary club, the Olympia Timberland Regional Library, and the Burke Museum's "Archaeology Day".
- continue to schedule and be open to further presentations or public displays of the results of the excavation.

### **RESULTS**

A total of 4.9 cubic meters (173 cubic feet) were excavated from 20 1-meter square excavation units. The maximum depth of the units was 60 centimeters and the minimum depth was 5 centimeters. The average depth was 20 centimeters.

Additionally, one 1x1 meter test pit was excavated to 1 meter depth just north of the primary area of investigation to help determine stratigraphic features and the possibility of a second excavation site. The test pit revealed soil texture and color consistent with the other excavated units and an apparent singular context and stratigraphy, with the exception of a small deposit of sand with Munsell number 2.5Y3/2.

A total of 4,146 artifacts were recovered during data recovery and testing (Table 2). Of these, 257 artifacts were classified as diagnostic and 237 were recovered as surface

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finds. The number of diagnostic artifacts was later revised to 250 (see Appendix B; revision due to human error). The assemblage is largely comprised of glass and metal fragments. A detailed chart reflecting the specific ratios of artifact types and find category is included below. Additional charts and information are also included on pages 17 and 18.

| Artifact Type | Surface Finds | Non-Diagnostic | Diagnostic | Total |
|---------------|---------------|----------------|------------|-------|
| Glass         | 174           | 2727           | 134        | 3035  |
| Ceramic       | 35            | 233            | 81         | 349   |
| Metal         | 2             | 476            | 37         | 515   |
| Organic       | 22            | 201            | 5          | 229   |
| All Types     | 237           | 3651           | 257        | 4146  |

Table 2: Material type and Artifact Frequency, BUSH2015

**Deposits**

Artifacts across the Bush Homestead site, to the extent of our progress, represent an agricultural depositional environment. The stratigraphy of the units was relatively uniform, and the concurrent recovery of historical and modern artifacts indicated that soil disturbance and re-contextualization had occurred. The soil in each unit was described as compact which, when worked, loosened to a powder-like consistency and recorded as Munsell number 10YR3/2.



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*Figure 3: South wall profile at 45TN91H, Unit A., Note Mazama Pocket Gopher activity.*

### **Archaeological Features**

The stratigraphic position of archaeological features also helps to interpret the site. One archaeological feature was identified during excavation at a depth of 15cm.

Feature 1 was a deposit that was left behind after a fire. The feature is a segment of burned wood measuring approximately 0.38 meters by 0.46 meters (1.25 feet x 1.5 feet) oriented north-south along the northern boundary of unit F5, toward the eastern-most boundary of the excavation area. This particular deposit is important given that it indicates that nothing has disturbed the ground below this point since the fire took place, thereby, we can hypothesize that any continued excavation below this point would uncover a singular, undisturbed context.



*Figure 4: Feature 1 at 45TN91H, Unit F5, facing north*

### **Artifacts**

Of the 4,146 total finds recovered at site 45TN91H during the BUSH2015 season: 6% were found on the surface of the excavation units (surface finds) before the ground

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was broken, 6% were categorized as diagnostics, and the remaining 88% were non-diagnostic.

The artifacts recovered were classified and recorded by type, with five identified type descriptors. The types found include glass, metal, ceramic, organic, and bone. Additional types included in the initial identification process include brick, wood, and stone. However, due to a lack of notable quantities of these types, they have been excluded from the included graphic figures.

Included below are two graphic representations of the artifacts found at site 45TN91H during the BUSH2015 season. The first represents the ratio of total finds by type. The second demonstrates the representation of subtypes within the three larger artifact types: glass, metal, and ceramic.

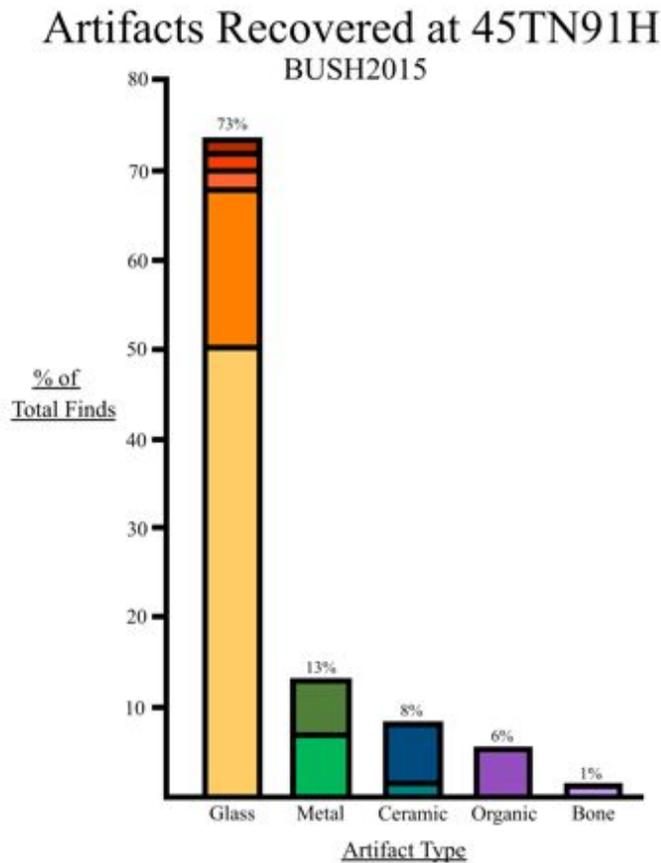


Figure 5: Artifact Ratio by Type, Site 45TN91H, BUSH2015

The color variation and subsections seen in Figure 5 offer a preliminary representation of the identified subtypes, which are expressed in more detail in the following figure.

## Artifact Subtype Ratios

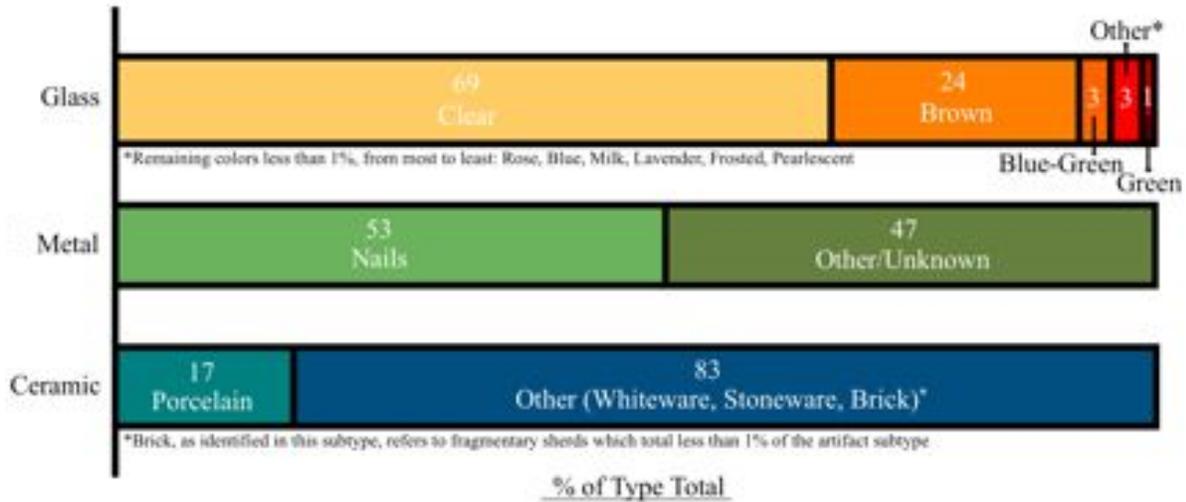


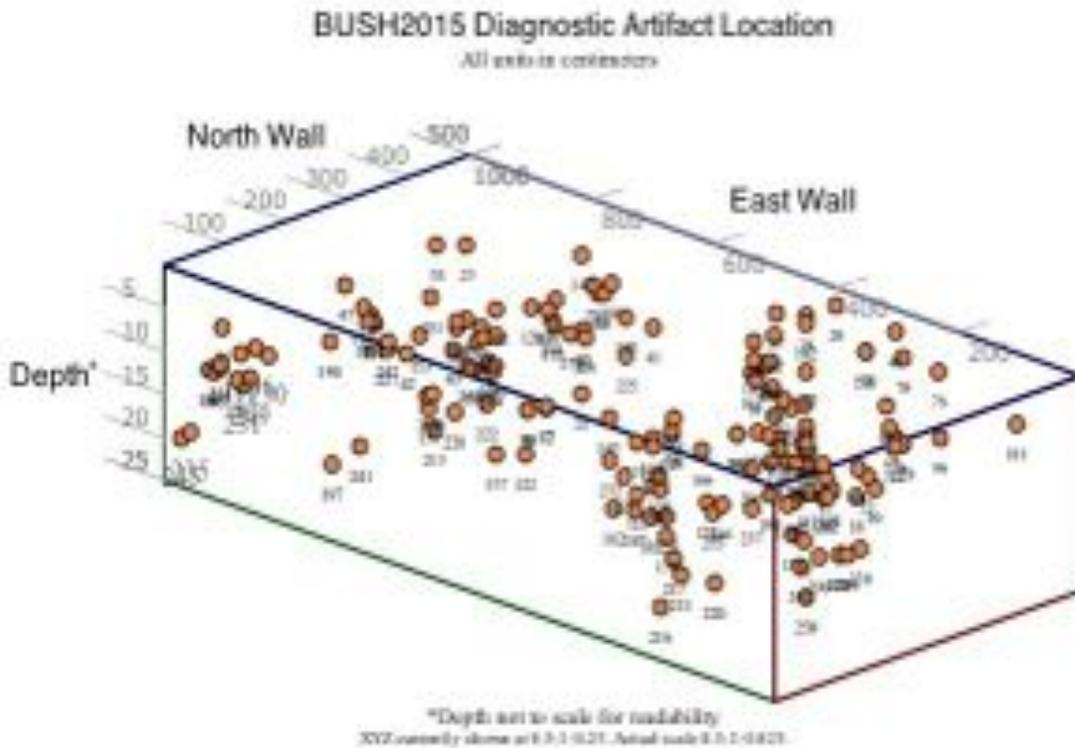
Figure 6: Artifact Ratios by Subtype, Site 45TN91H, BUSH2015

Research and analysis on the significance of these ratios and subtypes is still ongoing, and will continue to provide research and study opportunities for TESC students and community volunteers for years to come.

### **Diagnostic Artifacts**

A total of 257 Diagnostic artifacts were recovered at 45TN91H. Diagnostic artifacts are those artifacts with trademarks, labels, other identifying marks and temporal attributes that associate the artifact with a definable or researchable time or time period. Temporal attributes include technical characteristics of bottle manufacture, glass color, ceramic manufacture or type, and surface decoration (Kaehler et al. 2004:28). Detailed information on the diagnostic artifacts recovered from the site are attached in Appendix A and B.

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*Figure 7: BUSH2015 Diagnostic Artifact Map*

Currently, only preliminary work has been done to research and identify all 250 recovered diagnostic artifacts due to the short length and introductory level of the field school. However, TESCAL and the remaining BUSH2015 excavation staff have and will continue to make the artifacts available for current and future TESC students to study and research, as was part of our excavation goals.

All conclusive research of diagnostic and non-diagnostic artifacts performed up to this point is included in the proceeding sections.

### **Ceramics, Stoneware, and Glass**

3384 fragments of ceramics, stoneware, and glass were found. Due to the turbation of the matrix, many of them were very fragmentary, and only few could be identified or dated. Out of the 2727 non-diagnostic glass fragments found, a majority were clearly machine made and very recent. We have 134 diagnostic glass fragments. Preliminary research on them has yielded limited results. Bush201500132 is the inner lid of a canning jar manufactured after 1871 but before 1950. The lettering on the liner was unfortunately too fragmentary to yield information about the company that produced the artifact, or its more specific date (Whitten n.d.).

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BUSH20150031's maker's mark identifies the manufacturer as George Jones & Sons, Trent Pottery, in Stoke, Staffordshire (Jewwit 1883). BUSH20150137 has been identified according to its by maker's mark as having been manufactured by Copeland & Garret of Stoke, Staffordshire, England, used between 1833-1846 (Jewwit 1883, 382 & 392).

BUSH201500054 is the rim of a pearl-topped chimney of a kerosene lamp. Again, not enough is the piece is preserved to determine date or manufacturer, but the shape itself was patented in 1831 to George A. MacBeth & Co (Hawkins 2009, 335).

### **Metal**

The most numerous of the metal finds were different types of nails. Due to their poor state of preservation, we were unable to securely identify many of them, but it is clear that the types presented included machine-made modern nails, early partially machine-made nails, and hand-wrought nails (Nelson 1968). Many of these items were found in the same contexts. Other metal artifacts included an axe head (BUSH2015250) and three fragments of barrel rings (BUSH20150196; 0233; 0234).

### **Organics**

Bone fragments preserved very poorly, and were fragmentary and partially decaying. Many of them appeared to be modern. An examination of the fragments by Mike Paros, Ph.D., determined that they included one bovine molar, and one processed end of a large mammal long bone, cut into the shape one finds in pet stores as dog treats. The rest were fragments of ribs and long bones from small mammals such as coyote or sheep. A more detailed identification was impossible due to the fragmentary nature of the remains.

### **CONCLUSION**

The 2015 field school at the Bush Homestead uncovered over 4,000 artifacts, 250 of them diagnostic. The database of finds is attached separately (Appendix C). Only some of the historic diagnostic artifacts have been studied and dated; the rest continue to be under investigation, and will form study and research objects for future students of historical archaeology. The few diagnostic artifacts dated, discussed above, date to the late 19<sup>th</sup> or early 20<sup>th</sup> century CE. Due to the repeated modification of the soil for agricultural purposes, no stratigraphic sequence was present in the extent of the excavation (up to 100cm) in the 20 1x1m units, as well as the shovel test. Further evidence of the lack of stratigraphy was the juxtaposition of modern and historical artifacts in the same contexts. The only exception to this was the burn debris found in unit F5 (Fig. 4), which was left undisturbed and protected at the end of the season. Soil chemistry and flotation samples were taken of each context and currently await study.

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The vast majority of artifacts recovered were glass (3035/4146), but much of that was clearly machine-made and modern. In general, a trend could be observed of more glass in the upper two contexts of the units (up to -10cm), and more metal in the lower contexts (-10cm to -50cm). The metal artifacts were made up largely of nails (266/476), but also included agricultural equipment such as a Puget Sound Felling Axe and barrel rings.

Our goal of public outreach was met through six site tours during the excavation, press releases and articles, public lectures and workshops, and school outreach. We will continue to make all results publicly available through the field school blog at: <http://blogs.evergreen.edu/bushhomestead/>

In 2015, we were able to excavate ½ of the units in Section 1. We intend to submit a second application for a field school in the summer of 2016 in order to continue to train more students in the methods of archaeology, recover the remaining artifacts, and continue public outreach.

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**APPENDIX A:  
LIST OF DIAGNOSTIC ARTIFACTS FROM 45TN91H, BUSH2015**

| <b>Artifact Number</b> | <b>Type</b> | <b>Description and Notes</b>  |
|------------------------|-------------|---|
| BUSH201500001          | Ceramic     | 2.25 x 1.25cm Whiteware lip with solid white glaze - near flat  |
| BUSH201500002          | Glass       | 6.5 x 4.5cm Near-complete milk glass lid with inscription "D'S" and "ELAIN LINED" as well as an identifying symbol, a square with two continued lines |
| BUSH201500003          | Glass       | 3.25 x 3cm Clear glass partial bottle lip, includes lip, (non-threaded) raised segment, and prominent ridge.  |
| BUSH201500004          | Glass       | 2.5 x 2cm Brown bottle base with partial inscription "QUA" and pressed non-slip surface pattern on the bottom   |
| BUSH201500005          | Glass       | 5.5 x 4.5cm Clear glass base with partial inscription "D"   |
| BUSH201500006          | Ceramic     | 3.25 x 2.75cm Whiteware lip with slight curve and solid white glaze   |
| BUSH201500007          | Glass       | 3.5 x 2cm Clear glass shard with partial inscription "QUA," likely a near-base piece  |
| BUSH201500008          | Glass       | 1.5 x 1.25cm Clear glass shard with pressed geometric pattern, possibly a near-base piece   |
| BUSH201500009          | Glass       | 0.75cm Thick, 5 x 3.5cm Clear glass base with no distinguishing markings  |
| BUSH201500010          | Glass       | 2 x 1cm Brown glass rim or base shard with 0.5cm inscribed line   |
| BUSH201500011          | Glass       | 2.5 x 1cm Clear glass shard with partial inscription "67" and possible "4"  |
| BUSH201500012          | Glass       | 2.75 x 1.5cm Clear glass shard with raised, defined ridge - possible near lip piece   |
| BUSH201500013          | Glass       | 2.5 x 2cm Brown glass shard with partial inscription "FEDE"   |
| BUSH201500014          | Glass       | 2.75 x 1.5cm Clear glass shard, possibly melted, possibly related to other melted glass segments  |
| BUSH201500015          | Glass       | 4.5 x 3.5cm Brown glass shard with slight curve and partial inscription "LAW FO" and "SE OF"  |
| BUSH201500016          | Glass       | 4.25 x 3cm Brown glass bottle rim shard with defined neck ridge, but lacking defined lip, possible partial single thread sealing seam                 |
| BUSH201500017          | Glass       | 1.75 x 1.75cm Blue-green glass base shard (with partial small shard of same piece) with no distinguishing markings                                    |
| BUSH201500018          | Glass       | 2.5 x 2cm Flat brown glass shard with partial inscription   |

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|               |         |  |
|---------------|---------|--|
|               |         | "FO" and "OF THE," possible base shard - possibly modern   |
| BUSH201500019 | Glass   | 3.5 x 2.5cm Brown glass partial bottle rim with two defined ridges, one possibly a raised seal thread                    |
| BUSH201500020 | Glass   | 2.25 x 2cm Clear glass possible base shard with fused ridge running diagonally to the flat plane                         |
| BUSH201500021 | Ceramic | 1.5 x 1.5cm Whiteware sherd with white glaze and a slight curve, the inner face has an ornate blue painted pattern       |
| BUSH201500022 | Glass   | 2.75 x 1.5cm Clear glass shard with partial inscription "W FOR" and OF TH"   |
| BUSH201500023 | Glass   | 2.1 x 2cm Flat, clear glass shard with partial inscription "E OR" and "HIS B"  |
| BUSH201500024 | Glass   | 2.5 x 1cm Clear glass shard with slight curve and partial inscription "SE"   |
| BUSH201500025 | Glass   | 4.5 x 2cm Clear glass base shard with clearly defined corner and no distinguishing markings                              |
| BUSH201500026 | Ceramic | 3.75 x 2.5cm Porcelain near-flat base with defined curved ridge along bottom face  |
| BUSH201500027 | Glass   | 2.75 x 2cm Clear glass partial bottle rim with 3 defined thread seal ridges - possibly modern                            |
| BUSH201500028 | Ceramic | 1.75 x 1.75cm Near-flat porcelain lip sherd with solid white glaze   |
| BUSH201500029 | Glass   | 3.5 x 4cm Clear glass partial base shard with possible waving pattern in the rim   |
| BUSH201500030 | Glass   | 1.75 x 2cm Clear glass partial bottle rim with raised ridge and no other distinguishing markings                         |
| BUSH201500031 | Ceramic | 2.5 x 2.25cm Flat whiteware sherd with partial maker's mark and inscription "ROYAL A" and "IRONSTO" and "RGE JONES"      |
| BUSH201500032 | Ceramic | 3 x 1.5cm Flat whiteware partial lip sherd with waving pattern along edge and blue and white glaze on opposite faces     |
| BUSH201500033 | Glass   | 2.5 x 1.75cm Clear glass shard with possible partial lip   |
| BUSH201500034 | Glass   | 4.75 x 1.25cm Brown glass shard with partial inscription "5 QUAR", possible near-base piece                              |
| BUSH201500035 | Ceramic | 2.25 x 1cm Porcelain handle with blue and white glaze  |
| BUSH201500036 | Glass   | 5 x 4.5cm Clear glass base shard with partial inscription "20" and "4/5 Q"   |
| BUSH201500037 | Glass   | 5.5 x 3.5 Clear glass bottle neck, near complete with 3 thread seal ridges and additional defined ridge, 2.75cm diameter |
| BUSH201500038 | Ceramic | 3.25 x 3cm Flat porcelain lip with solid white glaze   |

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|               |         |  |
|---------------|---------|--|
| BUSH201500039 | Ceramic | 3.3 x 2.7cm Ceramic base, inside glaze - marbled grey, outside glaze white   |
| BUSH201500040 | Glass   | 2.9 x 2.5cm brown glass bottle neck  |
| BUSH201500041 | Ceramic | 4.5 x 3cm ridged sherd with notch, white glaze   |
| BUSH201500042 | Ceramic | 1.1 x .5cm Porcelain button with rounded edge and partial holes  |
| BUSH201500043 | Glass   | 0.6cm Thick, 4cm x 4.3cm clear glass base - "ONE QUART" between two raised lines   |
| BUSH201500044 | Ceramic | 0.4cm Thick, 2cm L x 1cm W curved Whiteware with raised ridge - unglazed underside   |
| BUSH201500045 | Glass   | 1.7cm x 2.3cm brown glass with letters "RE - US"   |
| BUSH201500046 | Ceramic | 0.3cm Thick, 3cm x 1.7cm Whiteware blue/white decoration   |
| BUSH201500047 | Glass   | 0.4cm Thick, 3.6cm x 3.3cm clear glass with "FOR" visible, depression on one side - possible top   |
| BUSH201500048 | Glass   | 0.5cm Thick, 3.2cm x 4.5cm shard with the letters S C and E distinguishable  |
| BUSH201500049 | Glass   | 2.1cm x 1.7cm clear glass with 2 inscriptions: "W FORE" above "USE O"  |
| BUSH201500050 | Glass   | 1.7cm x 1.7cm clear glass with "O." visible. Possible base or neck   |
| BUSH201500051 | Ceramic | 0.4cm Thick, 1.5cm L x 2.2cm W Whiteware with lip  |
| BUSH201500052 | Glass   | 0.7cm Thick, 2cm x 4.5cm clear glass base fragment   |
| BUSH201500053 | Glass   | 1cm Thick, 4.6cm x 3.7cm blue-green glass with bubble imperfections - possible base or lid (fragmented section preventing further diagnostics) |
| BUSH201500054 | Glass   | 0.5cm Thick, 2cm x 3cm clear glass with rounded decorated rim edge   |
| BUSH201500055 | Glass   | 0.4-0.5cm Thick, 2.5cm x 2.9cm pink glass curved segment, possibly a bottleneck  |
| BUSH201500056 | Glass   | 5.5 x 4cm Curved clear glass with partial lettering "NE QU"  |
| BUSH201500057 | Glass   | 0.2cm Thick, 2 x 1.5cm Melted amber glass, shaped like hand  |
| BUSH201500058 | Ceramic | 1.5cm Thick, 4.5 x 2.5cm Brown rough earthenware, possible plate   |
| BUSH201500059 | Glass   | 0.5cm Thick, 6.5cmL x2cm W (at mouth) Brown glass bottle top   |
| BUSH201500060 | Glass   | 0.3cm Thick, 5 x 3.5cm Clear glass with lip, inner texture, and lines  |
| BUSH201500061 | Glass   | 0.5cm Thick, 3 x 3cm Clear glass with defined corner, including base and body of vessel, and partial lettering ".                              |

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|               |         |   |
|---------------|---------|---|
|               |         | 167" and "PAT0" and "-1-03" and "S A"   |
| BUSH201500062 | Glass   | 0.5 Thick, 3.5 x 1.7cm Dimpled Glass with no edge/no lip  |
| BUSH201500063 | Ceramic | 0.3cm Thick, 3 x 1.5cm Orange-glazed earthenware  |
| BUSH201500064 | Glass   | 0.5cm Thick, 4.0 x 2.0cm Clear glass stopper with "heart"-shaped decorative top                                       |
| BUSH201500065 | Glass   | 0.5cm Thick, 7.5 x 5.5cm Clear glass near-complete base of cylindrical drinking glass with no distinguishing markings |
| BUSH201500066 | Glass   | 0.5cm Thick, 6.4 x 2cm Brown glass bottle mouth, possible brandy or wine straight top, casted                         |
| BUSH201500067 | Glass   | 0.4cm Thick, 7.4 x 1.5cm Clear glass base with lettering along the outermost edge of the body "4/5 QUART"             |
| BUSH201500068 | Ceramic | 0.2cm Thick, 5.3 x 2.6cm Porcelain sherd with red floral pattern and lip  |
| BUSH201500069 | Ceramic | 1cm Thick, 2.5 x 2.3cm Curved Whiteware rim   |
| BUSH201500070 | Glass   | 0.5cm Thick, 1.5 x 2.4cm Brown Glass bottle rim   |
| BUSH201500071 | Ceramic | 0.5 cm Thick, 2.0 x 2.1cm Whiteware Edge  |
| BUSH201500072 | Glass   | 0.5 cm Thick, 4.5 x 2.2 cm Brown Glass Bottle base  |
| BUSH201500073 | Ceramic | 0.4cm Thick, 4.5 x 2.0cm Porcelain Edge   |
| BUSH201500074 | Ceramic | 0.3cm Thick, 2.1 x 1.6cm Whiteware edge   |
| BUSH201500075 | Glass   | 0.1cm Thick, 2.4 x 2.1cm Green Glass with lip   |
| BUSH201500076 | Glass   | 0.6cm Thick, 4.0 x 2.5cm Clear glass with design and lip  |
| BUSH201500077 | Glass   | 0.2cm Thick, 2.7 x 1.7cm Brown glass with partial letters   |
| BUSH201500078 | Glass   | 0.1cm Thick, 2.0 x 2.0cm Clear glass with partial words   |
| BUSH201500079 | Glass   | 0.3cm Thick, 3.0 x 1.7cm Brown glass base   |
| BUSH201500080 | Glass   | 0.3cm Thick, 3.9cm L x 3.0cm W Triangular Curved Brown Glass with partial lettering                                   |
| BUSH201500081 | Glass   | 0.7cm Thick, 3.2 x 2.1cm Clear Glass with partial numbers   |
| BUSH201500082 | Glass   | 0.3cm Thick, 2.0 x 2.1cm Brown Glass with partial letter  |
| BUSH201500083 | Glass   | 0.5cm Thick, 1.8 x 2.2cm Curved Clear Glass with partial lip  |
| BUSH201500084 | Glass   | 0.4cm Thick, 4.1 x 3.0cm Curved Clear Glass with etched line  |
| BUSH201500085 | Glass   | 0.5cm Thick, 4.0 x 2.2cm Brown Glass with partial lip   |
| BUSH201500086 | Glass   | 0.3cm Thick, 4.6 x 1.5cm Clear Glass with possible rim  |
| BUSH201500087 | Glass   | 0.4cm Thick, 3.5 x 1.6cm Clear Glass with possible lip  |
| BUSH201500088 | Glass   | 1cm Thick, 6.3 x 3.6cm Clear Glass, melted  |
| BUSH201500089 | Glass   | 0.4cm Thick, 2.9 x 2.1cm Clear Glass with corner and melted shard   |
| BUSH201500090 | Glass   | 0.5cm Thick, 3.3 x 1.5cm Clear Glass corner   |
| BUSH201500091 | Ceramic | 0.4cm Thick, 1.4cm L x 1.1cm W Porcelain rim with letter "D" and ridge  |

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|               |         |   |
|---------------|---------|---|
| BUSH201500092 | Glass   | 0.3cm Thick, 3.6cm L x 2.0cm W Clear Glass with lip   |
| BUSH201500093 | Glass   | 0.5cm Thick, 2.1cm L x 2.0cm W Brown Glass edge with letters "FED" and "OR"   |
| BUSH201500094 | Glass   | Two Shards: (2.4x2.8cm) 0.3cm Thick, Clear Glass with lettering "4/5" and (2.4x2.8cm) 0.3cm Thick, Clear Glass with fractures and possible decoration |
| BUSH201500095 | Glass   | 0.4cm Thick, 3.6cm L x 2.1cm Clear Glass with lip   |
| BUSH201500096 | Glass   | 0.4cm Thick, 3.2cm L x 2cm Brown Glass base   |
| BUSH201500097 | Glass   | 0.3cm Thick, 2.9cm L x 3cm W Clear Glass with lettering "RRE" and "BOTTL"   |
| BUSH201500098 | Glass   | 0.3cm Thick, 3.0cm L x 1.9cm Clear Glass with lettering "RO"  |
| BUSH201500099 | Glass   | 0.5cm Thick, 7.3cm L x 2.0cm Clear Glass with lettering "UB" and "COL"  |
| BUSH201500100 | Glass   | 0.5cm Thick, 3.5cm L x 2.8cm Clear Glass bottle top   |
| BUSH201500101 | Glass   | 0.4cm Thick, 3.0cm L x 1.9cm Clear Glass possible bottle base   |
| BUSH201500102 | Glass   | 0.4cm Thick, 2.3cm L x 2.3cm Clear Glass with lip   |
| BUSH201500103 | Glass   | 0.2cm Thick, 3.6cm L x 1.1cm Clear Glass with possible lip  |
| BUSH201500104 | Glass   | 0.6cm Thick, 3.5cm L x 2.6cm W Green Glass bottle base with lettering "RIOL"  |
| BUSH201500105 | Glass   | 0.5cm Thick, 2.2cm L x 1.6cm W Clear Glass with lettering "NA,"   |
| BUSH201500106 | Glass   | 0.2cm Thick, 3.3cm L x 2.0cm W Clear Glass with lettering "AW FOR" and "OF THI"   |
| BUSH201500107 | Glass   | 0.3cm Thick, 3.0cm L x 3.0cm W Clear Glass with lettering "RE USE"  |
| BUSH201500108 | Glass   | 0.5cm Thick, 4.0cm L x 2.0cm W Clear Glass with rim   |
| BUSH201500109 | Glass   | 1.0cm Thick, 4.5cm L x 2.7cm Clear Glass melted   |
| BUSH201500110 | Glass   | Two shards: (4.0x3.0cm) 0.6cm Thick, Clear Glass with lip and (2.4x2.4cm) 0.7cm Thick, Clear Glass  |
| BUSH201500111 | Glass   | 1.0cm Thick, 6.0cm L x 4.0cm W Clear Glass with rim and "S" decoration  |
| BUSH201500112 | Glass   | 0.3cm Thick, 4.5cm L x 3.5cm W Clear Glass curved   |
| BUSH201500113 | Glass   | 0.5cm Thick, 5.0cm L x 3.4cm W Clear Glass with lip and lettering "201" and "42"  |
| BUSH201500114 | Glass   | 0.8cm Thick, 3.9cm L x 3.0cm W Clear Glass with diamond decoration  |
| BUSH201500115 | Ceramic | 0.4cm Thick, 2.0cm L x 1.9cm W Whiteware triangle   |
| BUSH201500116 | Ceramic | 0.4cm Thick, 2.4cm L x 2.2cm W Whiteware  |
| BUSH201500117 | Ceramic | 0.5cm Thick, 4.1cm L x 4.6cm W Whiteware with base  |

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|               |         |   |
|---------------|---------|---|
| BUSH201500118 | Ceramic | 0.4cm Thick, 2.0cm L x 1.2cm W Whiteware with edge  |
| BUSH201500119 | Ceramic | 3.5cm Thick, 3.0cm L x 3.4cm W Whiteware Insulator  |
| BUSH201500120 | Ceramic | 0.4cm Thick, 5.0cm L x 5.3cm W Whiteware with base  |
| BUSH201500121 | Ceramic | 0.5cm Thick, 3.4cm L x 1.9cm W Whiteware with lip   |
| BUSH201500122 | Ceramic | 0.3cm Thick, 4.0cm L x 2.1cm Whiteware with base  |
| BUSH201500123 | Ceramic | 0.4cm Thick, 2.7cm L x 2.1cm W Whiteware with base and floral decoration  |
| BUSH201500124 | Glass   | 1.2cm Thick, 3.0cm L x 4.0cm W Blue Glass with possible rim   |
| BUSH201500125 | Glass   | 0.3cm Thick, 5.0cm L x 2.5cm W Brown Glass with lettering "A"   |
| BUSH201500126 | Ceramic | 0.3cm Thick, 5.0cm L x 2.5cm W Whiteware with pink floral decoration  |
| BUSH201500127 | Ceramic | 0.3cm Thick, 1.4cm L x 1.3cm W Whiteware with lip   |
| BUSH201500128 | Ceramic | 0.3cm Thick, 1.7cm L x 2.1cm W Whiteware with pink and green floral decoration  |
| BUSH201500129 | Ceramic | 0.3cm Thick, 2.5cm L x 2.6cm W Whiteware with lip   |
| BUSH201500130 | Ceramic | 0.6cm Thick, 4.4cm L x 2.1cm W Whiteware with base  |
| BUSH201500131 | Ceramic | 0.5cm Thick, 4.1cm L x 5.2cm W Whiteware with lip and possible base   |
| BUSH201500132 | Glass   | 0.3cm Thick, 2.5 x 2.8cm Curved milk glass with lettering "GENU"  |
| BUSH201500133 | Ceramic | 0.6 cm Thick, 3.0cm L x 2.4cm W Whiteware with blue patterns on both sides  |
| BUSH201500134 | Ceramic | 0.2 cm Thick, 2.5cm L x 2.2cm W Whiteware with leaf pattern and rim   |
| BUSH201500135 | Glass   | 0.3cm Thick, 4.7cm L x 2.3cm W Green curved glass with partial letter   |
| BUSH201500136 | Ceramic | 4.25 x 2.5cm Whiteware with solid white glaze and semi-circular ridge, possible plate bottom                                      |
| BUSH201500137 | Ceramic | Two Sherds (broken from same sherd): (3x2.5cm) (2.25x2.5cm) Porcelain sherds with partial blue maker's mark: "and GARR" and crown |
| BUSH201500138 | Glass   | 4 x 4cm Clear glass with ridge and raised segment and partial unreadable inscription, possible base                               |
| BUSH201500139 | Ceramic | 2.5 x 2 cm Flat whiteware sherd with solid white glaze and prominent semi-circular ridge, mostly flat sherd                       |
| BUSH201500140 | Ceramic | 5 x 3cm Flat whiteware sherd with solid white glaze and prominent curved ridge, possible bottom of plate                          |
| BUSH201500141 | Glass   | 3.5 x 2.75cm Clear glass shard with slight curvature and defined, raised rope-like pattern, running in a straight line            |

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|               |         |   |
|---------------|---------|---|
| BUSH201500142 | Ceramic | 0.4cm Thick, 4.0cm x 2.5cm Whiteware with 1.0cm rim section, varigated blue on one side   |
| BUSH201500143 | Ceramic | 0.5cm Thick, 2.4cm x 2.5cm whiteware with blue pattern  |
| BUSH201500144 | Ceramic | 0.2cm Thick, 1.0cm x 2.5cm Solid white porcelain with slight wave in lip  |
| BUSH201500145 | Ceramic | 0.3cm Thick, 1.4cm x 1.5cm whiteware with varigated blue side   |
| BUSH201500146 | Ceramic | 0.3cm Thick, 1.4cm x 1.8cm whiteware triangle with varigated blue side  |
| BUSH201500147 | Ceramic | 0.3cm Thick, 2.2cm x 2.0cm whiteware with solid white glaze triangle shape  |
| BUSH201500148 | Ceramic | 0.6cm Thick, 2.3cm x 1.9cm whiteware with solid white glaze and 0.7cm ridge on one side   |
| BUSH201500149 | Ceramic | 0.5cm Thick, 1.8cm L x 2.0cm W Whiteware with lip, solid white glaze, triangle shape  |
| BUSH201500150 | Ceramic | 0.5cm Thick, 2.3cm x 2.7cm Whiteware lip with solid white glaze   |
| BUSH201500151 | Ceramic | 0.5cm Thick, 2.0cm x 1.4cm whiteware with soild white glaze and handle section on one side  |
| BUSH201500152 | Ceramic | 0.6 cm Thick, 2cm L x 2cm W Whiteware with green paint on side and curved groove on the inside face   |
| BUSH201500153 | Ceramic | 0.4cm Thick, 3cm L x 2cm W Whiteware shoulder with partial handle and painted green, blue, and pink flowers   |
| BUSH201500154 | Ceramic | 0.6cm Thick, 1.7cm L x 1.8cm W Whiteware lip with white glaze   |
| BUSH201500155 | Ceramic | 0.7cm Thick, 3.6cm L x 3.8cm W Whiteware base with circular groove on bottom side of sherd  |
| BUSH201500156 | Ceramic | 0.4cm Thick, 2.8cm L x 4cm W Whiteware sherd with long lip.   |
| BUSH201500157 | Metal   | 0.8cm Thick, 11cm L x 0.8cm W Metal with triangular shape   |
| BUSH201500158 | Metal   | 0.1cm Thick, 8.5cm L x 4.9cm W Metal disc folded in half with holes punched around outside edge   |
| BUSH201500159 | Metal   | 1.4cm Thick, 4.8cm L x 2.6cm W Metal, possible opener   |
| BUSH201500160 | Glass   | 0.5cm Thick, 2.0cm L x 3.0cm W Clear arsenic glass with partial lip   |
| BUSH201500161 | Glass   | 0.6cm Thick, 2.0cm L x 4.0cm W Clear arsenic glass lip  |
| BUSH201500162 | Glass   | 0.5cm Thick, 5.5cm L x 4.0cm W Rose-colored glass base shard with defined corner and impressed beveled rectangular section, including maker's mark: raised diamond containing "W" |

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|               |         |   |
|---------------|---------|---|
| BUSH201500163 | Metal   | 1.4cm Thick, 4.3cm L x 4cm W Metal Wing Nut with bolt   |
| BUSH201500164 | Metal   | 0.3cm Thick, 3.6cm L x 2cm W Metal Drapery Hook   |
| BUSH201500165 | Metal   | 0.3cm Thick, 2.1cm L x 2.1cm W Metal Grommet  |
| BUSH201500166 | Metal   | 0.8cm Thick, 9.9cm L x 3.5cm W Metal Oval   |
| BUSH201500167 | Glass   | 0.6cm Thick, 3.9cm L x 2.0cm W Clear Gall Base  |
| BUSH201500168 | Glass   | 0.4cm Thick, 2.7cm L x 1.5cm W Brown Glass curved body piece with two partial words   |
| BUSH201500169 | Metal   | 0.3cm Thick, 4.3cm L x 3.7cm W Flat Metal Corner  |
| BUSH201500170 | Organic | 0.1cm Thick, 8.7cm L x 5.3cm W Leather stitched fragment  |
| BUSH201500171 | Glass   | 0.5cm Thick, 2.9cm L x 1.9cm W Brown Glass Base with partial words  |
| BUSH201500172 | Bone    | 1.6cm Thick, 7cm L x 2.3cm W Bone fragment  |
| BUSH201500173 | Metal   | 0.4cm Thick, 0.5cm L x 0.5cm W Metal Rivet  |
| BUSH201500174 | Metal   | 1.0cm Thick, 1.3cm L x 1.3cm W Metal shotgun shell  |
| BUSH201500175 | Metal   | 0.1cm Thick, 3.0cm L x 2.2cm W Metal tab  |
| BUSH201500176 | Glass   | 0.5cm Thick, 4.5 x 3.0cm Green glass shard with curved ridge and slight lettering "MTOM"  |
| BUSH201500177 | Metal   | 0.5cm Thick, 2.1cm L x 1.2cm W Metal Bottle Cap   |
| BUSH201500178 | Metal   | 0.8cm Thick, 2.3cm L x 0.6cm W Metal nail with round head   |
| BUSH201500179 | Glass   | 0.4cm Thick, 2.3cm L x 3.0cm W White Glass possible jar lip   |
| BUSH201500180 | Organic | Two Pieces: (2.3 Lx 1.5cm W) 0.1cm Thick, (1.8 L x 1.4cm W) 0.1cm Thick Leather, Both tan colored with possible lining  |
| BUSH201500181 | Metal   | 1.2cm Thick, 2.2cm L x 1.2cm W Metal bullet casing  |
| BUSH201500182 | Glass   | 1.0cm Thick, 4.0 x 3.75cm Clear glass base shard with definite corner and partial marking impression along the bottom edge: a diamond with possible "1" in its center |
| BUSH201500183 | Glass   | 0.3 Thick, 2.8cm L x 3.0cm W Curved Clear glass body piece with three partial words   |
| BUSH201500184 | Metal   | 0.3cm Thick, 7.2cm L x 6.2cm W Metal fragment with 4 tines, 1 broken, possible saw  |
| BUSH201500185 | Organic | 0.3 Thick, 14cm L x 6.4cm W Brown woven fabric with pink threads. Possible end piece  |
| BUSH201500186 | Glass   | 0.4cm Thick, 2.9cm L x 1.5cm W Clear Glass base with bumpy decoration   |
| BUSH201500187 | Glass   | 0.5cm Thick, 3.5cm L x 2.7cm W Clear glass possible bottle neck   |
| BUSH201500188 | Glass   | 0.3cm Thick, 2.8cm L x 2.1cm W Brown Glass curved fragment with lettering "IDS SA"  |

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|               |         |   |
|---------------|---------|---|
| BUSH201500189 | Glass   | 0.3cm Thick, 3.2cm L x 2.4cm W Clear Glass with lettering "ABLE"  |
| BUSH201500190 | Glass   | 0.5cm Thick, 2.0cm L x 1.5cm W Brown glass possible edge or melted glass  |
| BUSH201500191 | Glass   | 0.2cm Thick, 1.6cm L x 1.5cm W Clear glass shard, letters F and E   |
| BUSH201500192 | Glass   | 0.5cm Thick, 3.5cm L x 3.5cm W Green glass shard with partial lettering "ART" and possible base edge  |
| BUSH201500193 | Glass   | 0.6cm Thick, 2.7cm L x 2.2cm W Clear glass bottom with stamped in numbers   |
| BUSH201500194 | Glass   | 0.4cm Thick, 2.9cm L x 2.4cm W Clear glass shard with rectangular design with visible seams, possible base  |
| BUSH201500195 | Glass   | 1.0cm Thick, 6.0cm L x 3cm W Clear glass base with partial inscriptions on body and base: "INT" and 4 rectangular impressed lines on body, "87 - 41" on base, whole piece is possibly ovular in shape |
| BUSH201500196 | Metal   | 4.0cm Thick, Possible iron barrel ring with 48cm diameter   |
| BUSH201500197 | Metal   | 0.5cm Thick, 8.3cm L x 3.7cm W metal artifact with facets, unknown use  |
| BUSH201500198 | Ceramic | 0.3cm Thick, 2.0cm L x 1.4cm W Ceramic lip with blue design on one side   |
| BUSH201500199 | Glass   | 0.7cm Thick, 2.8cm L x 1.9cm W Clear glass possible bottle neck   |
| BUSH201500200 | Ceramic | 0.6cm Thick, 2.1cm L x 1.8cm W Ceramic lip with green floral pattern on one side  |
| BUSH201500201 | Metal   | 0.2cm Thick, 8.8cm L x 5.0cm W Metal hinge, 3 associated nails, Nail 1(2.3cm L x 0.8cm W), Nail 2(2.3cm L x 0.8cm W), Nail 3(2.3cm L x 0.8cm W)   |
| BUSH201500202 | Glass   | 0.7cm Thick, 6.7cm L x 4.7 W Clear glass possible jar base with number 6 and squared diamond pattern on body  |
| BUSH201500203 | Glass   | 0.4 Thick, 2.0cm L x 2.5cm W Clear glass lip possible bottle  |
| BUSH201500204 | Glass   | 1cm Thick, 5.2cm L x 2.1cm W Clear glass base with partial body   |
| BUSH201500205 | Ceramic | 0.5cm Thick, 4.8cm L x 4.4cm W Whiteware base with pink glaze and circular decoration   |
| BUSH201500206 | Ceramic | 0.3cm Thick, 2.7cm L x 2.4cm W Ceramic lip with blue on one side  |
| BUSH201500207 | Glass   | 0.5cm Thick, 5.0cm L x 2.7cm W Clear glass neck with partial shoulder and associated plastic cap (3.0cm diameter, 3.0cm L and lettering "SCHENLEY")   |

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|               |         |  |
|---------------|---------|--|
| BUSH201500208 | Ceramic | 0.3cm Thick, 4.2cm L x 2.8cm W Cermaic curved lip with floral pattern and imprinted design                   |
| BUSH201500209 | Glass   | 0.5cm Thick, 5.4cm L x 1.9cm W Clear glass partial lip with partial neck                                     |
| BUSH201500210 | Metal   | 0.3cm Thick, 8.6cm L x 1.5cm W Metal bar bent down the middle lengthwise, possible hinge                     |
| BUSH201500211 | Glass   | 0.3cm Thickness, 3.6cm L x 2.3cm W Clear glass fragment with two partial words                               |
| BUSH201500212 | Ceramic | 0.4cm Thick, 2.8cm L x 2.9cm W Whiteware with possible lip and blue floral decoration                        |
| BUSH201500213 | Ceramic | 0.4 cm Thick, 5.6cm L x 2.9cm W Whiteware with lip and partial handle, possible cup                          |
| BUSH201500214 | Ceramic | 0.3cm Thick, 2.5cm L x 1.3cm W Ceramic lip with blue pattern on one side                                     |
| BUSH201500215 | Glass   | 0.5cm Thick, 4.0cm L x 2.5cm W Clear glass with frosted decoration   |
| BUSH201500216 | Glass   | 0.5cm Thick, 3.2cm L x 1.7cm W Clear glass lip with rim  |
| BUSH201400217 | Metal   | 0.4cm Thick, 3.5cm L x 3.5cm W Metal possible washer   |
| BUSH201500218 | Ceramic | 0.5cm Thick, 2.2cm L x 2.4cm W Ceramic Lip with pink color   |
| BUSH201500219 | Metal   | 0.3cm Thick, 17.6cm L x 1.7cm W Metal bar with nail (1.7cm L) in each end                                    |
| BUSH201500220 | Ceramic | 0.4cm Thick, 3.1cm L x 2.7cm W Whiteware with lip and possible base and white glaze                          |
| BUSH201500221 | Metal   | 1.5cm Thick, 11.3cm L x 1.5cm W Metal, possible chisel, flat head, tapers to edge                            |
| BUSH201500222 | Ceramic | 0.4cm Thick, 2.2cm L x 2.5cm W Whiteware with lip and white glaze  |
| BUSH201500223 | Metal   | 0.1cm Thick, 2.6cm L x 2.4cm W Metal, possible bottle cap with seal  |
| BUSH201500224 | Glass   | 0.2cm Thick, 3.7cm L x 2.2cm W Brown Glass, curved with letters TH and I?                                    |
| BUSH201500225 | Metal   | 0.5cm Thick, 10.7cm L x 3.8cm W Metal, possible bracket  |
| BUSH201500226 | Ceramic | 0.4cm Thick, 2.5cm L 3.2cm W Whiteware with lip and white glaze  |
| BUSH201500227 | Ceramic | 0.2cm Thick, 3cm L x 1.9cm W Whiteware with lip and white glaze  |
| BUSH201500228 | Glass   | 0.3cm Thick, 7cm L x 3.8cm W Clear Glass with lettering "NEK" and "rD"                                       |
| BUSH201500229 | Glass   | 0.5cm Thick, 5.3cm L x 4.7cm W Brown glass partial base with possible body and lettering "D23" and "NE PINT" |

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|               |         |  |
|---------------|---------|--|
| BUSH201500230 | Ceramic | 0.7cm Thick, 2.6cm L x 1.2cm W Whiteware partial possible handle with white glaze  |
| BUSH201500231 | Ceramic | 0.7cm Thick, 5.1cm L x 1.5cm W Porcelain partial possible base   |
| BUSH201500232 | Ceramic | 0.3cm Thick, 3.4cm L x 1.5cm W Whiteware with lip and partial green and pink floral pattern  |
| BUSH201500233 | Metal   | 0.2cm Thick, 6.7cm L x 4.9cm W Metal possible barrel hoop, associated with BUSH201400234   |
| BUSH201500234 | Metal   | 0.2cm Thick, 21cm L x 4.9cm W Metal possible barrel hoop, associated with BUSH201400233  |
| BUSH201500235 | Metal   | 0.6cm Thick, 13cm L x 3.0cm W Metal hook with multiple manufactured holes  |
| BUSH201500236 | Metal   | 0.5cm Thick, 3.1cm L x 2.3cm W Metal possible hinge  |
| BUSH201500237 | Glass   | 0.3cm Thick, 2.5cm L x 1.0cm W Brown glass possible base with lettering "N"  |
| BUSH201500238 | Glass   | 0.5cm Thick, 4.0cm L x 1.5cm W Brown glass possible base with lettering "3" and "4 / 5"  |
| BUSH201500239 | Glass   | 0.3cm Thick, 4.6cm L x 3.5cm W Clear glass possible base   |
| BUSH201500240 | Ceramic | 0.6cm Thick, 4.0cm L x 2.9cm W Whiteware white glaze with blue floral and building decoration  |
| BUSH201500241 | Metal   | 1.0cm Thick, 5.0cm L x 2.2cm W Metal possible key  |
| BUSH201500242 | Ceramic | 0.3cm Thick, 2.6cm L x 1.9cm W Ceramic Lip with blue design on both sides  |
| BUSH201500243 | Glass   | 0.1cm Thick, 2.0cm L x 2.0cm W Clear glass with lettering "DERA"   |
| BUSH201500244 | Glass   | 0.5cm Thick, 3.1cm L x 2.5cm W Clear glass with possible base  |
| BUSH201500245 | Metal   | 0.1cm Thick, 11.1cm L x 6.7cm W Metal possible tobacco tin, associated piece 3.7cm L x 1.8cm W Metal possible pull tab               |
| BUSH201500246 | Ceramic | 0.4cm Thick, 3.7cm L x 2.8cm W Whiteware with possible rim white glaze and yellow/pink/green/blue floral decoration                  |
| BUSH201500247 | Ceramic | 0.5cm Thick, 5.7cm L x 4.6cm W Whiteware with white glaze and makers mark  |
| BUSH201500248 | Metal   | 22 x 22cm Metal crank, possible bike pedal   |
| BUSH201500249 | Metal   | 70 cm L Metal rod with 0.5cm Thick, 7.0 L x 3.0cm W base and circular hoop at opposite end with 2cm diameter, possible tractor pedal |
| BUSH201500250 | Metal   | 28 L x 7-10cm W Metal axe head, double sided with severe break/seam near handle hole and no visible markings                         |

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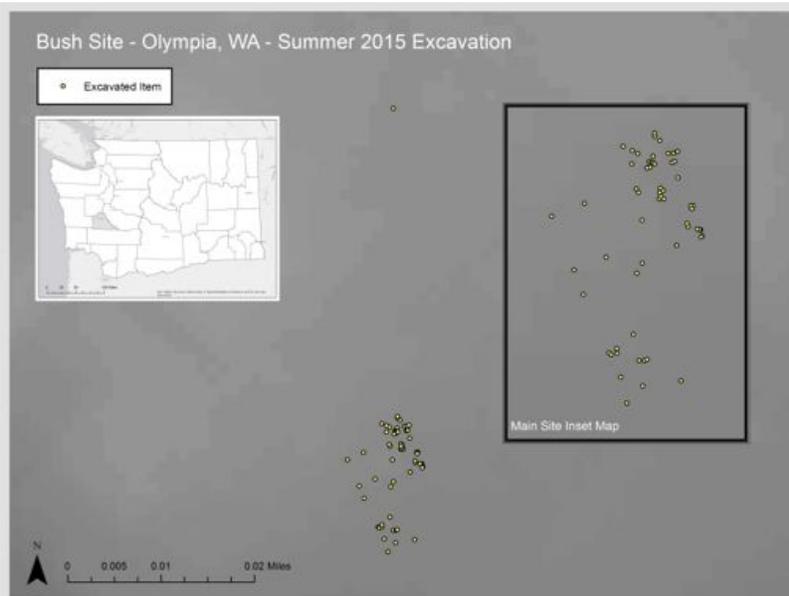
**APPENDIX B: PLATES**

**1: MAP OF SITE; EXCAVATION AREA MARKED WITH RED BOX**



*Aerial view of site 45TN91H, taken from Google Earth, 2007*

**2: GIS MAP OF SELECTED DIAGNOSTIC ARTIFACTS**

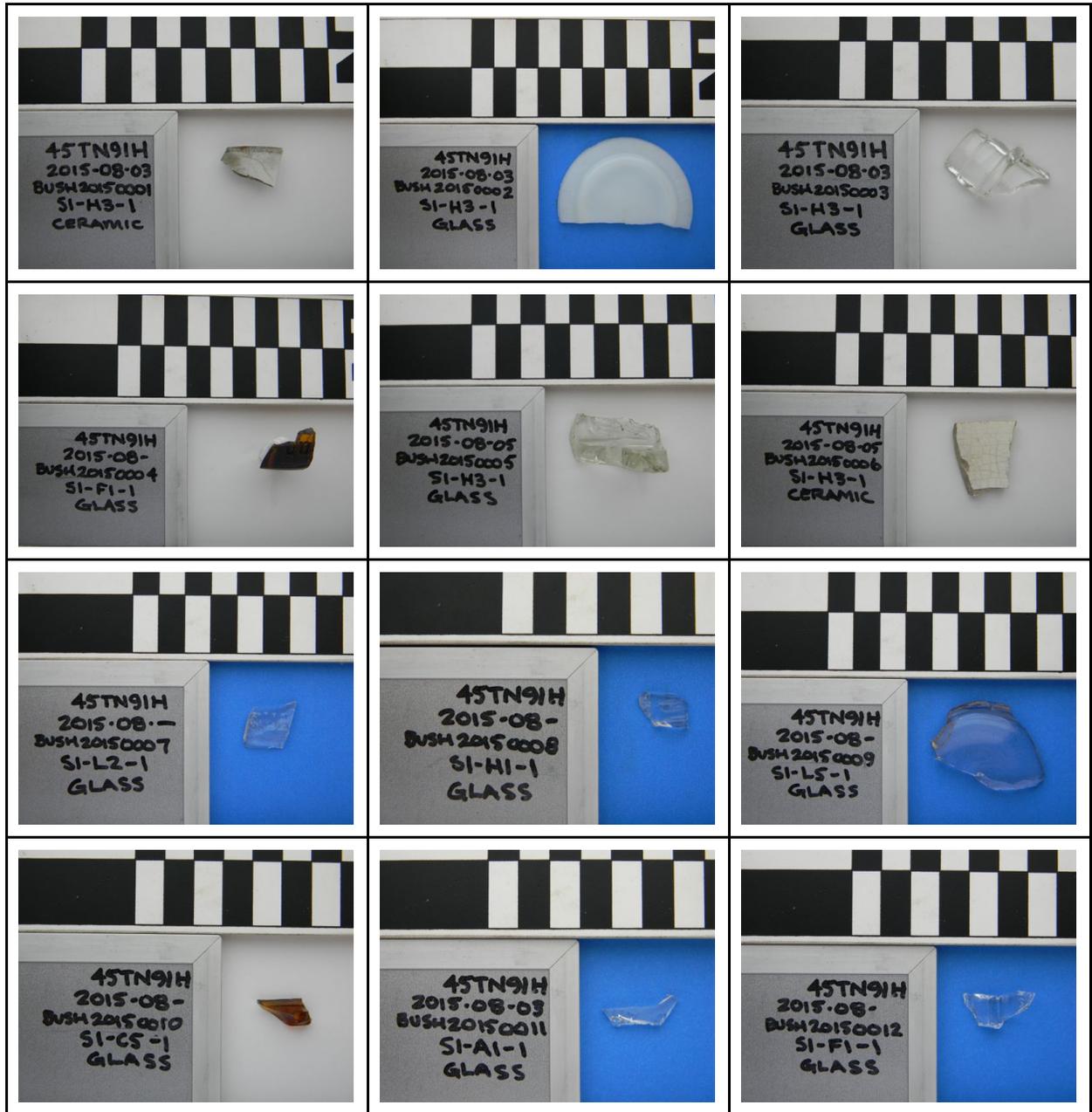


*This image represents the small fraction of locations shot while the total station was functional. GIS by Ken Tabbutt Ph.D. and Jennifer Titus, B.A.*

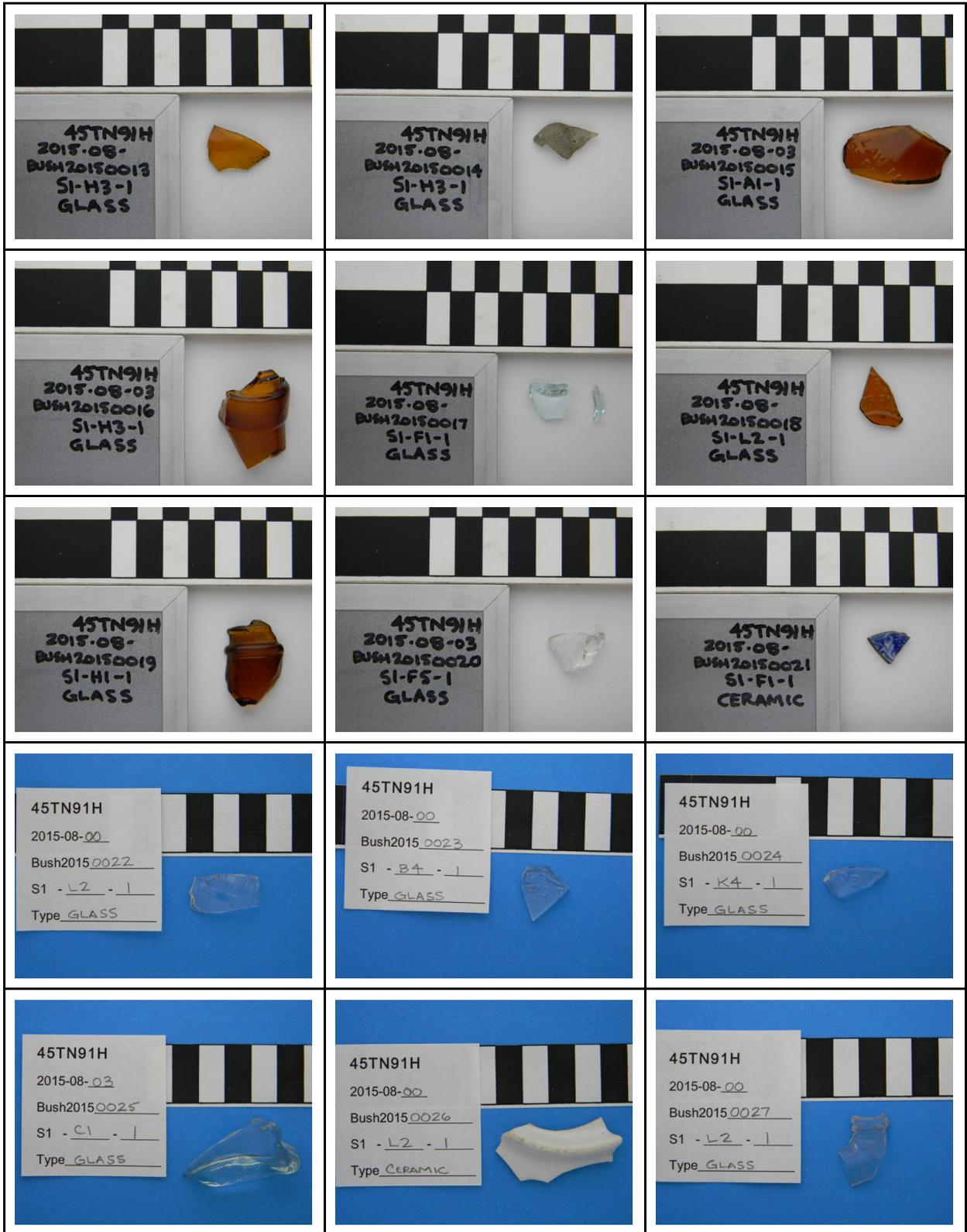
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Plates 3-20: Diagnostic Artifact Photos

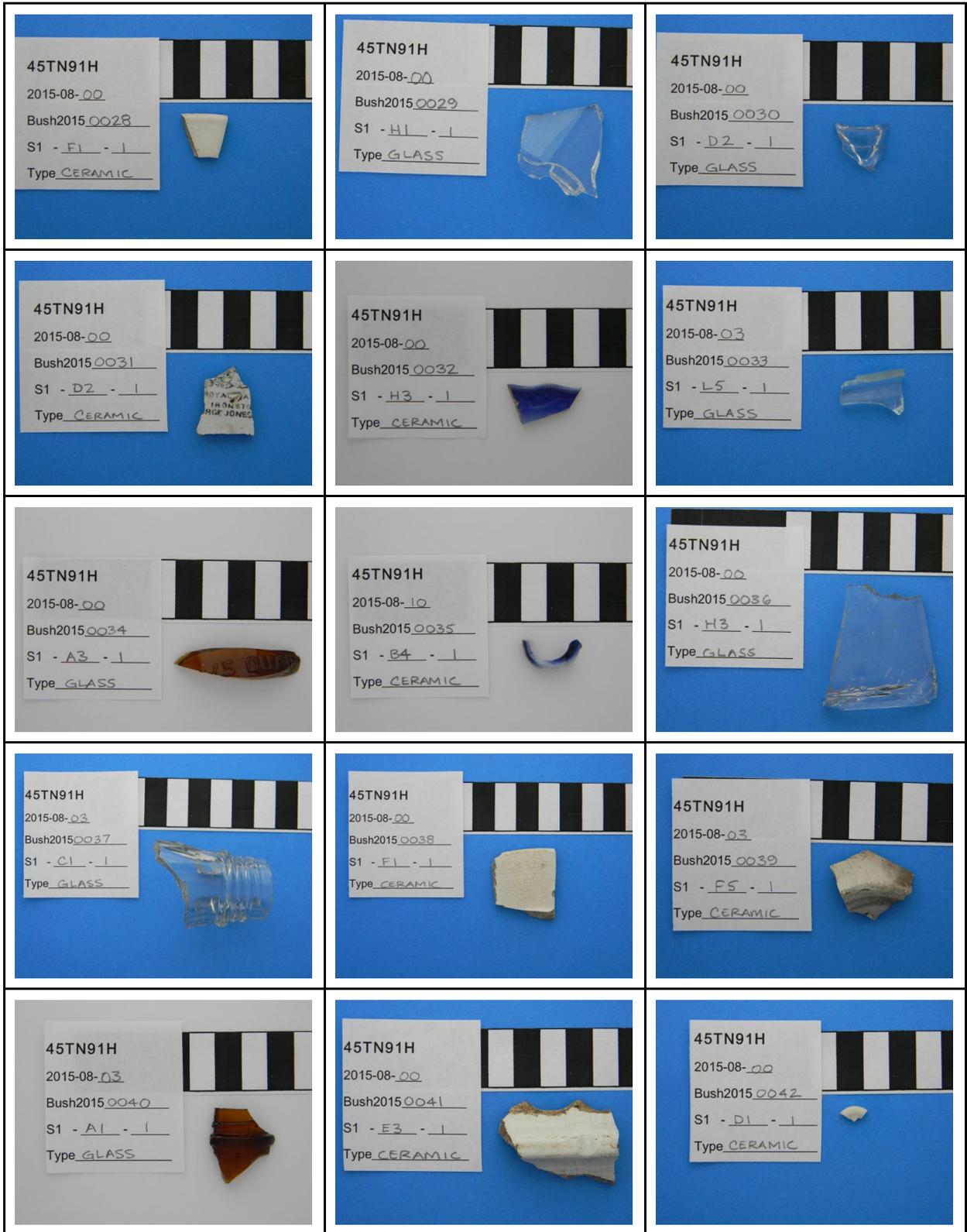
Diagnostic Artifacts 1-250, 45TN91H, BUSH2015



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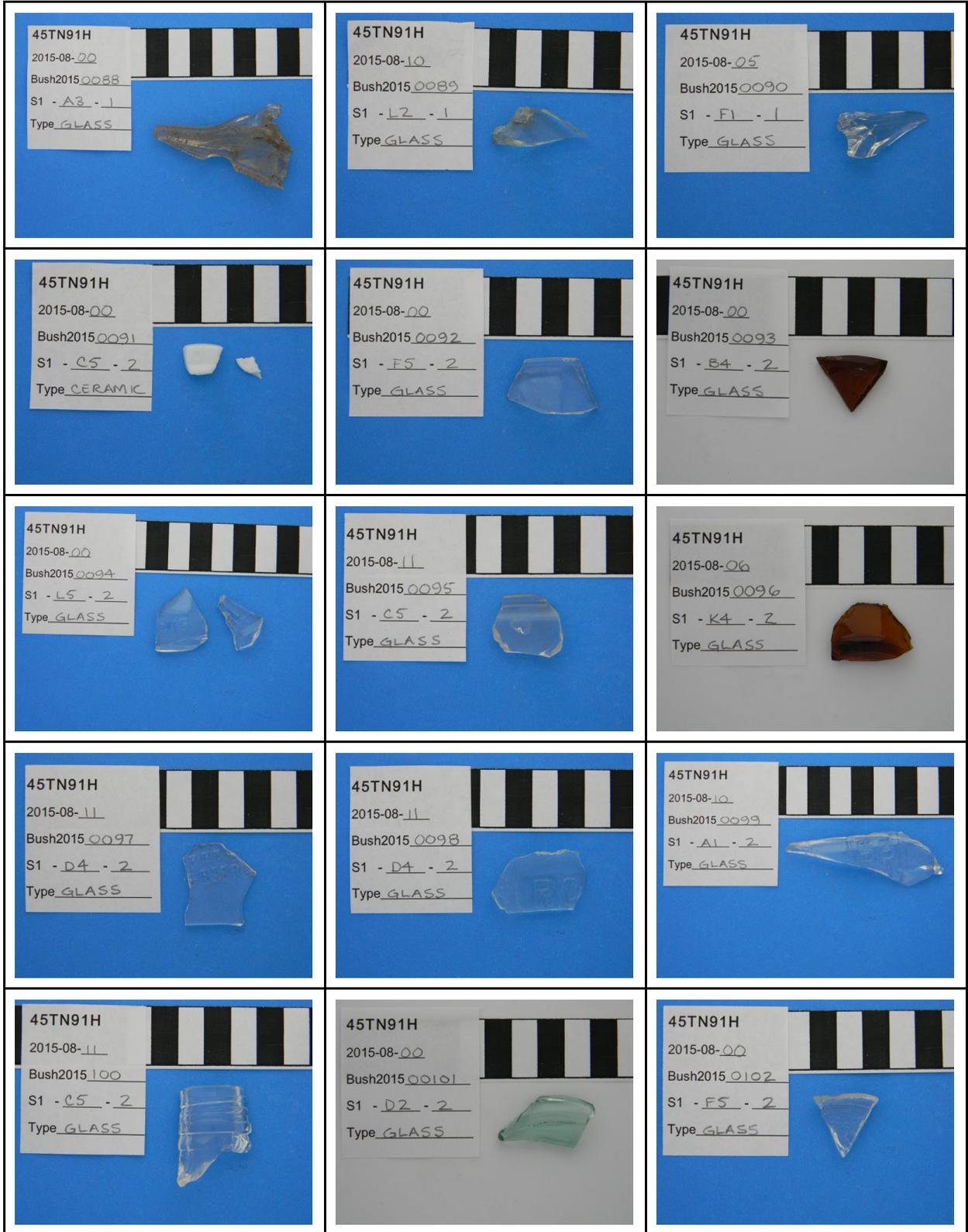
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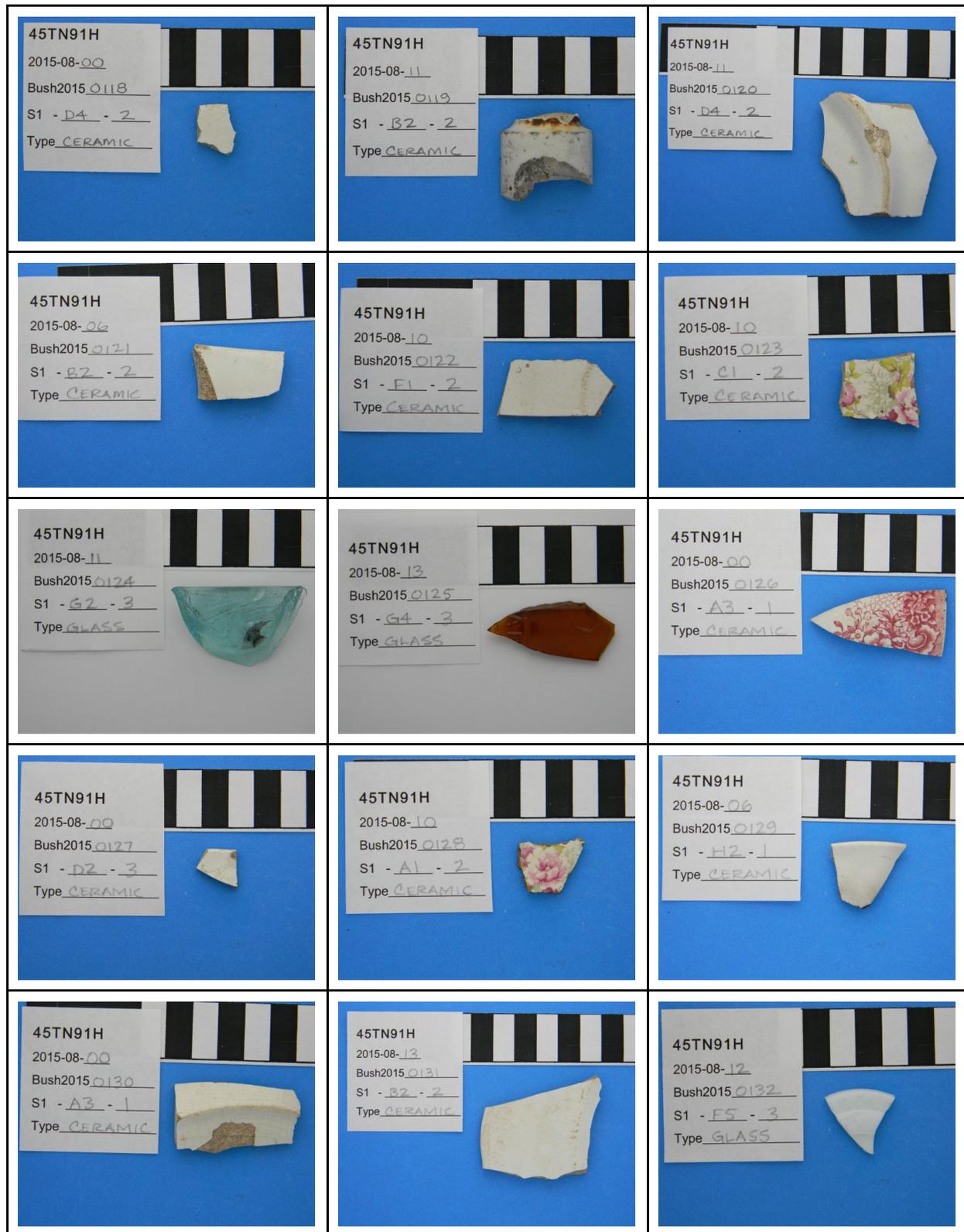
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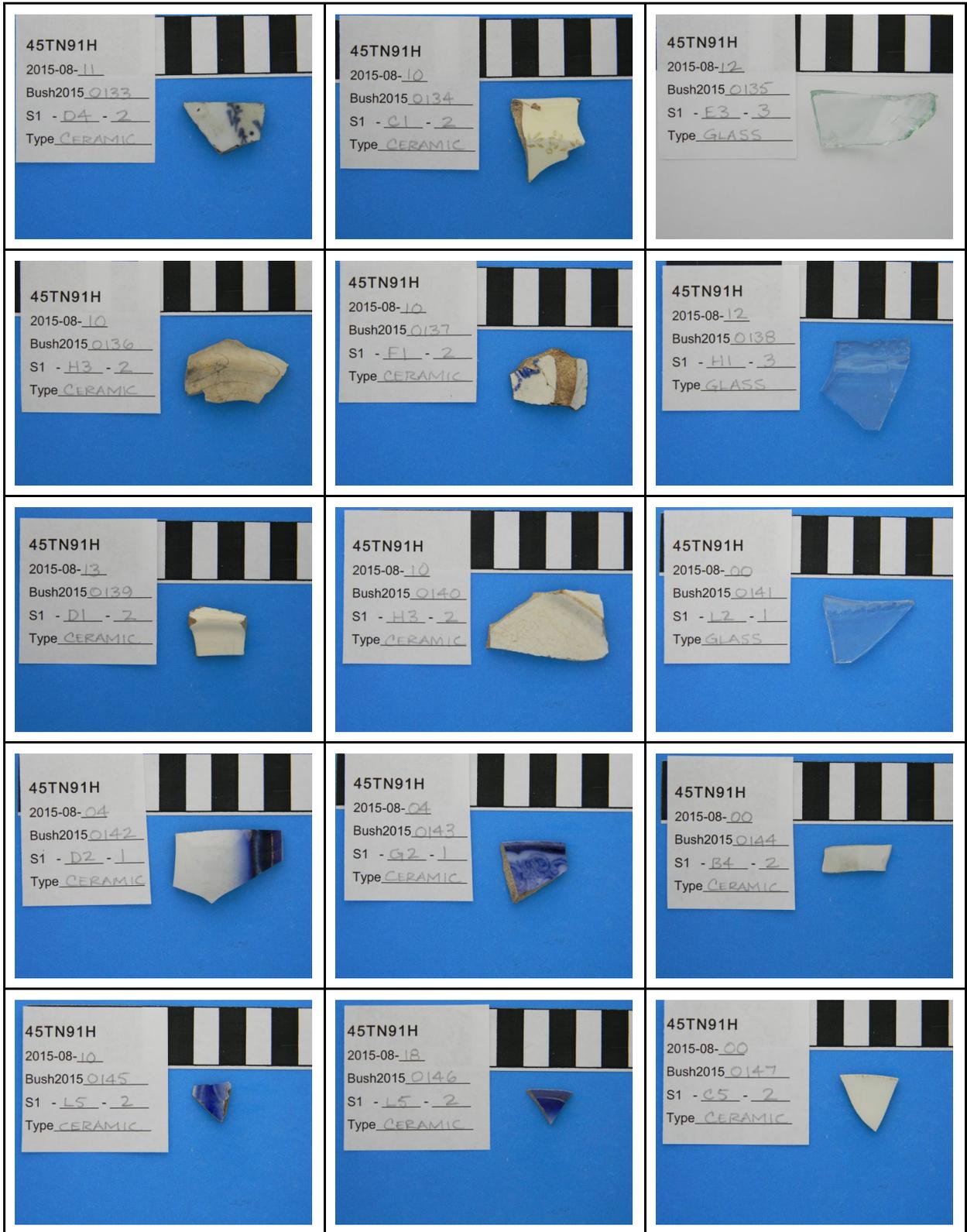
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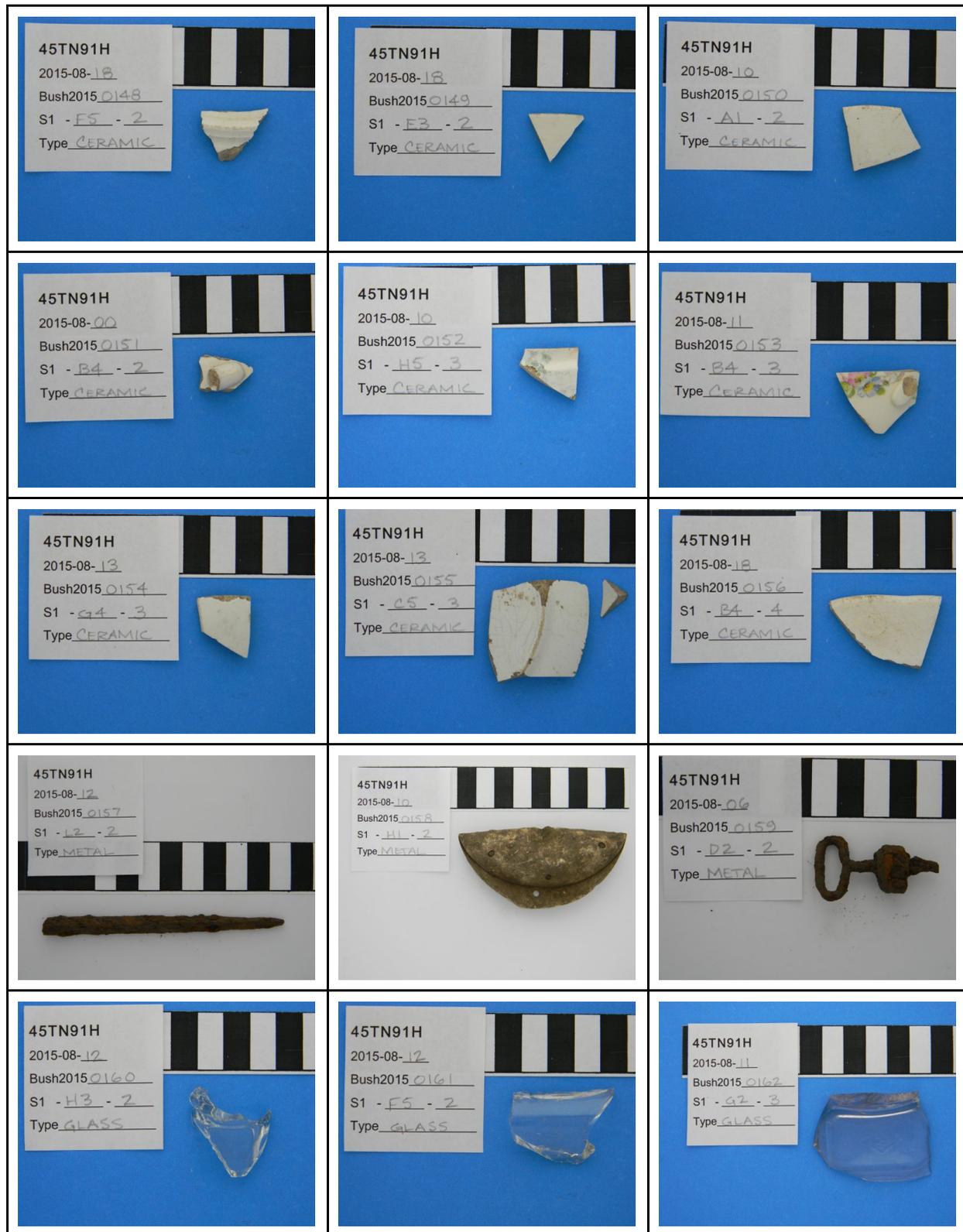
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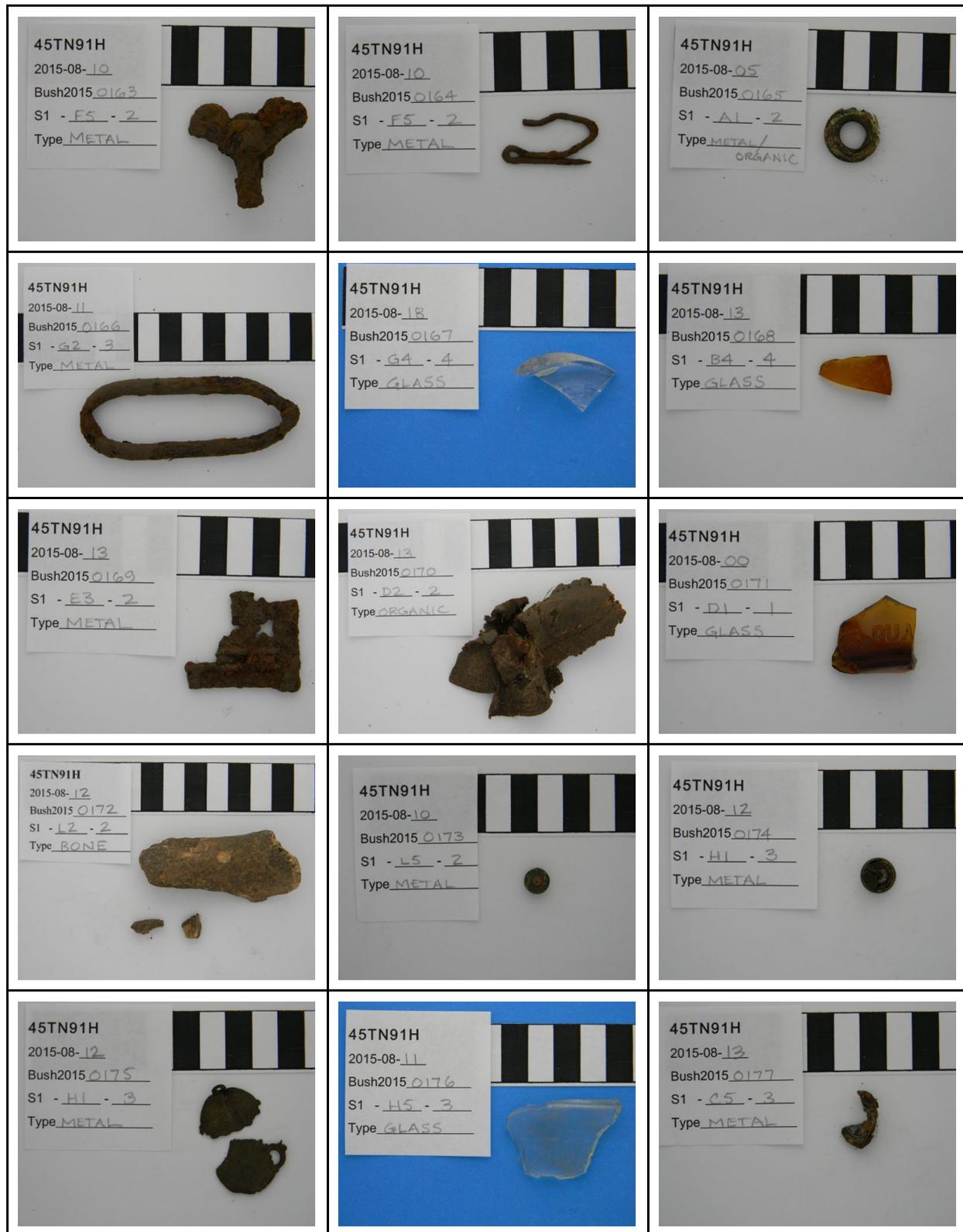
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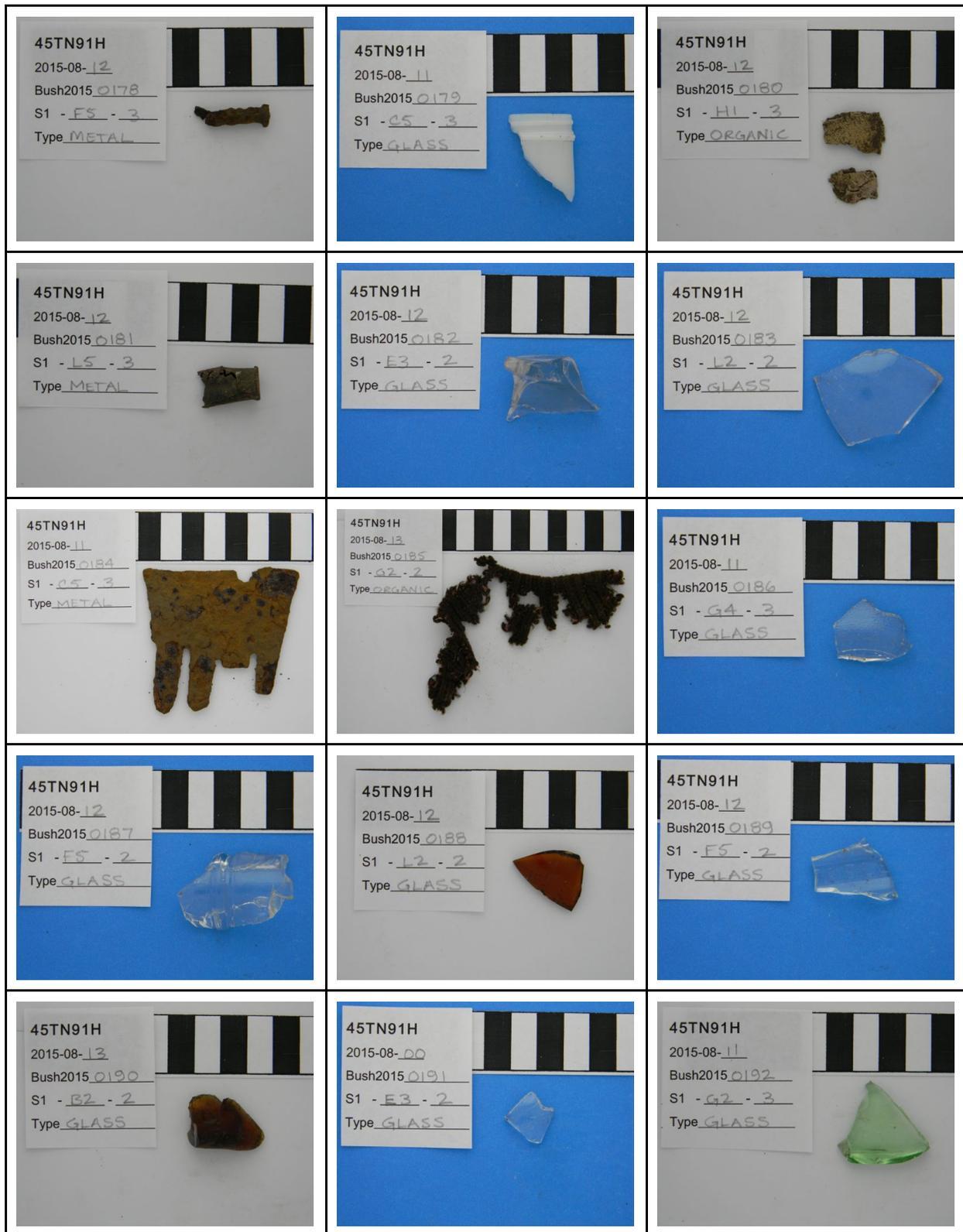
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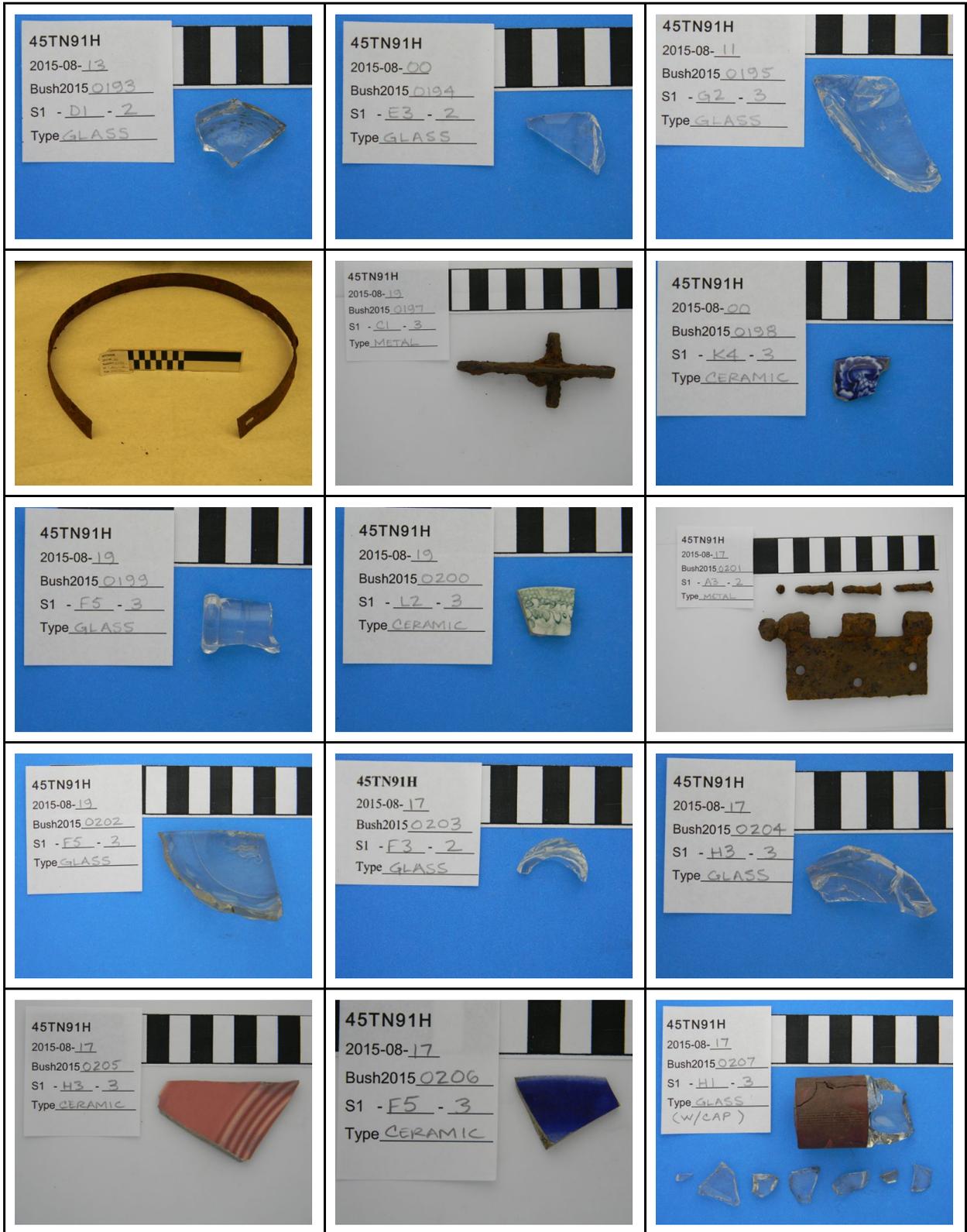
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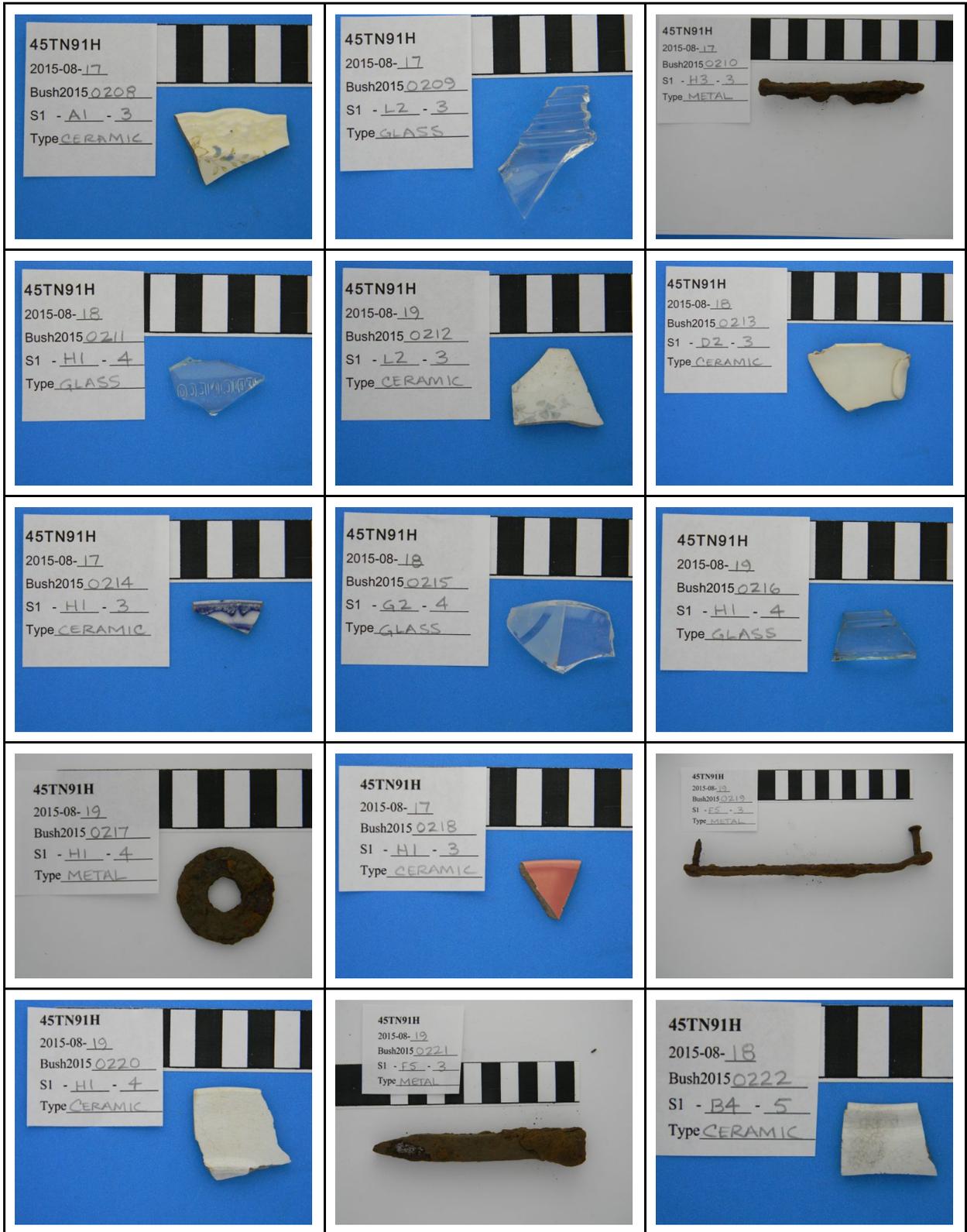
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